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1.4 Iz4-java 1.2.0

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1.5 google-protobuf 3.2.0

1.6 kryo 2.16

1.7 protocol-buffers 3.5.1

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* Fix compiler to not make output executable.
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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

* MS Visual Studio error format option.

* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.

* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.

* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

* Fixed detection of sched_yield on Solaris.

* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

* Fixed minor IBM xLC compiler build issues

* Added atomicops for AIX (POWER)

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1.8 javax-inject 1

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1.9 rank-eval-client 6.3.1

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1.12 json-smart 1.3.1

1.13 abego-treelayout-core 1.0.3

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1.14 jxmpp-core 0.4.1

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1.16 accessors-smart 1.2

1.17 jackson-dataformat-xml 2.7.4

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1.18 xmlsec-java 1.5.7

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1.19 dozer 5.5.1

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1.20 smack-extensions 4.1.0

1.21 spring-tx 4.3.19

1.22 log4j-api 2.11.1

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1.27 hibernatejpa2.0api 1.0.1

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1.28 elasticsearch-core 6.3.1

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1.42 bouncycastle-fips 1.52

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1.43 jcabi-log 0.14

1.44 jersey-media-jaxb 2.25.1

1.45 jackson-annotations 2.9.10

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1.46 jersey-common 2.25.1

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1.48 jscep 2.1.0

1.49 xmlschema 1.3.2

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1.51 xerces-j 2.8.1

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1.52 junixsocket-common 2.0.4

1.53 asm 4.0

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1.57 elasticsearch-x-content 6.3.1

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1.61 netty-handler-proxy 4.1.17

1.62 commons-lang 3.0

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1.63 jackson-dataformat-smile 2.7.9

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1.64 commons-collections 3.2.1

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1.74 jaeger-core 0.27.0

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1.88 minlog 1.3.0

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1.91 ant-launcher 1.7.1

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1.92 netty-codec-socks 4.1.17

1.93 jetty-io 9.3.27.v20190418

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1.94 commons-lang 3.8.1

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1.95 jackson-module-jaxb-annotations 2.7.9

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1.100 jackson-datatype-hibernate 2.7.9

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1.101 cassandra-driver-core 2.1.0

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1.104 grpc-netty 1.9.0

1.105 hazelcast-client-protocol 1.4.1

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 */
```

```
package com.hazelcast.security.permission;
```

```
public class LockPermission extends InstancePermission {
```

```
    private static final int LOCK = 4;  
    private static final int READ = 8;  
    private static final int ALL = CREATE | DESTROY | LOCK | READ;
```

```
    public LockPermission(String key, String... actions) {  
        super(key, actions);  
    }
```

```
    @Override
```

```

protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }
}

```

```

}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_ADD.equals(action)) {
            mask |= ADD;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {

```

```

        super(name, actions);
    }
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))

```

```

        || (permission instanceof ClusterPermission);

    if (shouldAdd && !implies(permission)) {
        perms.add(permission);
    }
}

public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

```

```

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "];
}
}
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 */

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;

```

```

for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
        mask |= ACQUIRE;
    } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
        mask |= RELEASE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }
}

```

```

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
```

```
}
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 */
```

```
package com.hazelcast.security.permission;
```

```
import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;
```

```
import java.security.Permission;
import java.util.HashMap;
import java.util.Map;
```

```
public final class ActionConstants {
```

```
    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
```

```

public static final String ACTION_MODIFY = "modify";
public static final String ACTION_READ = "read";
public static final String ACTION_REMOVE = "remove";
public static final String ACTION_LOCK = "lock";
public static final String ACTION_LISTEN = "listen";
public static final String ACTION_RELEASE = "release";
public static final String ACTION_ACQUIRE = "acquire";
public static final String ACTION_PUT = "put";
public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";

public static final String LISTENER_INSTANCE = "instance";
public static final String LISTENER_MEMBER = "member";
public static final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {

```

```

@Override
public Permission create(String name, String... actions) {
    return new SetPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
});

```

```

PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
}

private ActionConstants() {
}

```

```

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

}

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 */

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;
}

```

```

public RingBufferPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;

```

```

private static final int LISTEN = 32;
private static final int LOCK = 64;
private static final int INDEX = 128;
private static final int INTERCEPT = 256;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

```

```

public MapPermission(String name, String... actions) {
    super(name, actions);
}

```

@Override

```

protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}

```

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*/
```

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
import java.util.Enumeration;
```

```
public final class AllPermissions extends ClusterPermission {
```

```
    public AllPermissions() {
        super("<all permissions>");
    }
```

```
    @Override
    public boolean implies(Permission permission) {
        return true;
    }
```

```
    @Override
    public String getActions() {
        return "<all actions>";
    }
```

```
    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }
```

```
    @Override
    public String toString() {
        return "<allow all permissions>";
    }
```

```
    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }
```

```
    @Override
```

```

public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            boolean more = all;

            @Override
            public boolean hasMoreElements() {
                return more;
            }

            @Override
            public Permission nextElement() {
                more = false;
                return ALL_PERMISSIONS;
            }
        };
    }

    @Override
    public int hashCode() {
        return all ? 13 : -13;
    }
}

```

```

    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        AllPermissionsCollection other = (AllPermissionsCollection) obj;
        return all == other.all;
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }
}

```

```

@Override
public boolean implies(Permission permission) {
    return getClass() == permission.getClass();
}

@Override
public String getActions() {
    return "transaction";
}
}
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 */

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();

    protected final int mask;
    protected final String actions;

```

```

public InstancePermission(String name, String... actions) {
    super(name);
    if (name == null || "".equals(name)) {
        throw new IllegalArgumentException("Permission name is mandatory!");
    }
    mask = initMask(actions);

    final StringBuilder s = new StringBuilder();
    for (String action : actions) {
        s.append(action).append(" ");
    }
    this.actions = s.toString();
}

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

```

```

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

```

```

public DenyAllPermissionCollection() {
}

@Override
public void add(Permission permission) {
}

@Override
public boolean implies(Permission permission) {
    return false;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

        @Override
        public Permission nextElement() {
            return null;
        }
    };
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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*/

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
public abstract class ClusterPermission extends Permission {
```

```
    private int hashCode;
```

```
    public ClusterPermission(String name) {  
        super(name);  
    }
```

```
    @Override
```

```
    public PermissionCollection newPermissionCollection() {  
        return new ClusterPermissionCollection(getClass());  
    }
```

```
    @Override
```

```
    public int hashCode() {  
        if (hashCode == 0) {  
            final int prime = 31;  
            int result = 1;  
            if (getName() == null) {  
                result = prime * result + 13;  
            } else {  
                result = prime * result + getName().hashCode();  
            }  
            hashCode = result;  
        }  
        return hashCode;  
    }
```

```
    @Override
```

```
    public boolean equals(Object obj) {  
        if (this == obj) {
```

```

        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
}
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 */

```

```
package com.hazelcast.security.permission;
```

```
public class CountdownLatchPermission extends InstancePermission {
```

```

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

```

```

    public CountdownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

```

```

    @Override
    protected int initMask(String[] actions) {

```

```

int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    }
}
return mask;
}
}
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*/

package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

```

```

public ReplicatedMapPermission(String name, String... actions) {
    super(name, actions);
}

```

@Override

```

protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}

```

}

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```

```
package com.hazelcast.security.permission;
```

```
public class DurableExecutorServicePermission extends InstancePermission {
```

```
    private static final int ALL = CREATE | DESTROY;
```

```
    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
    }
```

```
    /*
```

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```
    */
```

```
package com.hazelcast.security.permission;
```

```

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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*/
```

```
/**
```

```
* Contains all the security permissions
```

```
*/
```

```
package com.hazelcast.security.permission;
```

```
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```

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```
*/
```

```
package com.hazelcast.security.permission;
```

```
public class ExecutorServicePermission extends InstancePermission {
```

```
    private static final int ALL = CREATE | DESTROY;
```

```
    public ExecutorServicePermission(String name, String... actions) {
```

```
        super(name, actions);
```

```
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
```

```
                return ALL;
```

```
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
                mask |= DESTROY;
```

```

    }
  }
  return mask;
}
}
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 */

```

```
package com.hazelcast.security.permission;
```

```
public class AtomicReferencePermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

```
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;
```

```
    public AtomicReferencePermission(String name, String... actions) {
```

```
        super(name, actions);
```

```
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
```

```
                return ALL;
```

```
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_READ.equals(action)) {
```

```
                mask |= READ;
```

```
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
```

```
                mask |= MODIFY;
```

```

        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {

```

```

        mask |= DESTROY;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {

```

```

        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}
}
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package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }
}

```

```
    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}
```

1.106 ehcache 2.6.5

1.107 typetools 0.3.1

1.108 scala-compiler 2.10.0

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1.109 spring-ldap-core-tiger 1.3.1

1.110 mongodb-driver-core 3.2.2

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1.111 geronimojmspec 1.1.1

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1.112 httpcomponents-core 4.3

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1.118 jedis 2.10.2

1.119 dom4j 1.6.1

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1.120 bcpkix-jdk15on 1.52

1.121 postgresql-jdbc 42.2.5.jre7

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1.122 okio 1.15.0

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*/

1.131 javax-transaction 1.1.0

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1.132 metrics-json 3.1.0

1.133 antlr 3.0.1

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1.134 elastic-search 6.3.1

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import org.junit.Before;

import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

    private License license;
    private SchedulerEngine.Schedule schedule;

    @Before
    public void setUp() throws Exception {
        license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(12));
        schedule = LicenseService.nextLicenseCheck(license);
    }

    public void testEnabledLicenseSchedule() throws Exception {
        int expiryDuration = (int) (license.expiryDate() - license.issueDate());
        long triggeredTime = license.issueDate() + between(0, expiryDuration);
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
            equalTo(license.expiryDate()));
    }

    public void testGraceLicenseSchedule() throws Exception {
        long triggeredTime = license.expiryDate() + between(1,
            ((int) LicenseService.GRACE_PERIOD_DURATION.getMillis()));
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
            equalTo(license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    }

    public void testExpiredLicenseSchedule() throws Exception {
        long triggeredTime = license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis() +
            randomIntBetween(1, 1000);
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
            equalTo(-1L));
    }
}
```

```

    }

    public void testInvalidLicenseSchedule() throws Exception {
        long triggeredTime = license.issueDate() - randomIntBetween(1, 1000);
        assertThat(schedule.nextScheduledTimeAfter(triggeredTime, triggeredTime),
            equalTo(license.issueDate()));
    }
}
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package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetBasicStatusRequestBuilder extends ActionRequestBuilder<GetBasicStatusRequest,
    GetBasicStatusResponse,
    GetBasicStatusRequestBuilder> {

    GetBasicStatusRequestBuilder(ElasticsearchClient client, GetBasicStatusAction action) {
        super(client, action, new GetBasicStatusRequest());
    }
}

```

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package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;

import org.elasticsearch.test.ESTestCase;

import static org.elasticsearch.common.unit.TimeValue.timeValueMillis;

import static org.hamcrest.Matchers.equalTo;

import static org.hamcrest.Matchers.nullValue;

public class ExpirationCallbackTests extends ESTestCase {

public void testPostExpirationDelay() throws Exception {

TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));

TimeValue min = TimeValue.timeValueSeconds(1);

TimeValue max = TimeValue.timeValueSeconds(4);

TimeValue frequency = TimeValue.timeValueSeconds(1);

NoopPostExpirationCallback post = new NoopPostExpirationCallback(min, max, frequency);

long now = System.currentTimeMillis();

```

    long expiryDate = now + expiryDuration.getMillis();
    assertThat(post.delay(expiryDate, now),
        equalTo(TimeValue.timeValueMillis(expiryDuration.getMillis() + min.getMillis()))); // before license
expiry
    assertThat(post.delay(expiryDate, expiryDate), equalTo(min)); // on license expiry
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
    assertExpirationCallbackDelay(post, expiryDuration.millis(), latestValidTriggerDelay,
    earliestValidTriggerDelay);
}

```

```

public void testPreExpirationDelay() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration.getMillis();
    assertThat(pre.delay(expiryDate, expiryDate), nullValue()); // on license expiry
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay,
    earliestValidTriggerDelay);
}

```

```

public void testPostExpirationWithNullMax() throws Exception {
    int postExpirySeconds = randomIntBetween(5, 10);
    TimeValue postExpiryDuration = TimeValue.timeValueSeconds(postExpirySeconds);
    TimeValue min = TimeValue.timeValueSeconds(postExpirySeconds - randomIntBetween(1, 3));

    final ExpirationCallback.Post post = new NoopPostExpirationCallback(min, null, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(post.delay(now - postExpiryDuration.millis(), now), equalTo(TimeValue.timeValueMillis(0)));
}

```

```

public void testPreExpirationWithNullMin() throws Exception {
    int expirySeconds = randomIntBetween(5, 10);
    TimeValue expiryDuration = TimeValue.timeValueSeconds(expirySeconds);
    TimeValue max = TimeValue.timeValueSeconds(expirySeconds + randomIntBetween(1, 10));

    final ExpirationCallback.Pre pre = new NoopPreExpirationCallback(null, max, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(pre.delay(expiryDuration.millis() + now, now), equalTo(TimeValue.timeValueMillis(0)));
}

```

```

public void testPreExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
}

```

```

    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
    earliestValidTriggerDelay);
}

public void testPostExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPostExpirationCallback pre = new NoopPostExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
    earliestValidTriggerDelay);
}

private void assertExpirationCallbackDelay(ExpirationCallback expirationCallback, long expiryDuration,
    int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;
    // bounds
    assertThat(expirationCallback.delay(expiryDate, now + earliestValidTriggerDelay),
    equalTo(TimeValue.timeValueMillis(0)));
    assertThat(expirationCallback.delay(expiryDate, now + latestValidTriggerDelay),
    equalTo(TimeValue.timeValueMillis(0)));
    // in match
    assertThat(expirationCallback.delay(expiryDate,
        now + randomIntBetween(earliestValidTriggerDelay, latestValidTriggerDelay)),
    equalTo(TimeValue.timeValueMillis(0)));
    // out of bounds
    int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay);
    assertThat(expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch),
    equalTo(TimeValue.timeValueMillis(earliestValidTriggerDelay - deltaBeforeEarliestMatch)));
    int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and
    after max
    assertThat(expirationCallback.delay(expiryDate, expiryDate + deltaAfterLatestMatch), nullValue());
}

public void assertExpirationCallbackScheduleTime(ExpirationCallback expirationCallback, long expiryDuration,
    int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;

```

```

int validTriggerInterval = between(earliestValidTriggerDelay, latestValidTriggerDelay);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate,
    now + validTriggerInterval, now + validTriggerInterval),
    equalTo(now + validTriggerInterval));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + validTriggerInterval),
    equalTo(now + validTriggerInterval + expirationCallback.getFrequency()));

int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay - 1);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now +
deltaBeforeEarliestMatch),
    equalTo(now + deltaBeforeEarliestMatch +
        expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate,
    now + deltaBeforeEarliestMatch, now + deltaBeforeEarliestMatch),
    equalTo(now + deltaBeforeEarliestMatch +
        expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));

int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and
after max
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaAfterLatestMatch),
    equalTo(-1L));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate,
    now + deltaAfterLatestMatch, now + deltaAfterLatestMatch),
    equalTo(-1L));
}

private static class NoopPostExpirationCallback extends ExpirationCallback.Post {

    NoopPostExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}

private static class NoopPreExpirationCallback extends ExpirationCallback.Pre {

    NoopPreExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}
}
/*
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```

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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.Version;
```

```
import org.elasticsearch.action.ActionRequestValidationException;
```

```
import org.elasticsearch.action.support.master.MasterNodeRequest;
```

```
import org.elasticsearch.common.io.stream.StreamInput;
```

```
import org.elasticsearch.common.io.stream.StreamOutput;
```

```
import java.io.IOException;
```

```
public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {
```

```
    private boolean acknowledge = false;
```

```
    private String type;
```

```
    @Override
```

```
    public ActionRequestValidationException validate() {
```

```
        return null;
```

```
    }
```

```
    public PostStartTrialRequest setType(String type) {
```

```
        this.type = type;
```

```
        return this;
```

```
    }
```

```
    public String getType() {
```

```
        return type;
```

```
    }
```

```
    public PostStartTrialRequest acknowledge(boolean acknowledge) {
```

```
        this.acknowledge = acknowledge;
```

```
        return this;
```

```
    }
```

```
    public boolean isAcknowledged() {
```

```
        return acknowledge;
```

```
    }
```

```
    @Override
```

```
    public void readFrom(StreamInput in) throws IOException {
```

```
        super.readFrom(in);
```

```
        if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
```

```
            type = in.readString();
```

```
            acknowledge = in.readBoolean();
```

```
        } else {
```

```

        type = "trial";
        acknowledge = true;
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        super.writeTo(out);
        out.writeString(type);
        out.writeBoolean(acknowledge);
    } else {
        if ("trial".equals(type) == false) {
            throw new IllegalArgumentException("All nodes in cluster must be version [" + version
                + "] or newer to start trial with a different type than 'trial'. Attempting to write to " +
                "a node with version [" + out.getVersion() + "] with trial type [" + type + "].");
        } else if (acknowledge == false) {
            throw new IllegalArgumentException("Request must be acknowledged to send to a node with a version " +
                "prior to [" + version + "]. Attempting to send request to node with version [" + out.getVersion() + "] "
+
                "without acknowledgement.");
        } else {
            super.writeTo(out);
        }
    }
}
}

```

Elasticsearch

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Alan Beale <biljir@pobox.com> also deserves special credit as he has,

in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Grady Ward
3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 40 level includes words from Alan's 3esl list found in version 4.0

of his 12dicts package. Like his other stuff the 3esl list is also in the public domain.

The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 55 level includes words from Alan's 2of4brif list found in version 4.0 of his 12dicts package. Like his other stuff the 2of4brif is also in the public domain.

The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

The ENABLE master word list, WORD.LST, is herewith formally released into the Public Domain. Anyone is free to use it or distribute it in any manner they see fit. No fee or registration is required for its use nor are "contributions" solicited (if you feel you absolutely must contribute something for your own peace of mind, the authors of the ENABLE list ask that you make a donation on their behalf to your

favorite charity). This word list is our gift to the Scrabble community, as an alternate to "official" word lists. Game designers may feel free to incorporate the WORD.LST into their games. Please mention the source and credit us as originators of the list. Note that if you, as a game designer, use the WORD.LST in your product, you may still copyright and protect your product, but you may *not* legally copyright or in any way restrict redistribution of the WORD.LST portion of your product. This *may* under law restrict your rights to restrict your users' rights, but that is only fair.

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There are no other restrictions: I would like to see the list distributed as widely as possible.

The 95 level includes the 354,984 single words, 256,772 compound words, 4,946 female names and the 3,897 male names, and 21,986 names from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and Canadian word list.

Since the original word lists used in the VARCON package came from the Ispell distribution they are under the Ispell copyright:

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*/

package org.elasticsearch.license;

```
import com.carrotsearch.randomizedtesting.RandomizedTest;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.metadata.Metadata;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.LicenseSigner;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import org.junit.Assert;
```

```

import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardCopyOption;
import java.util.ArrayList;
import java.util.List;
import java.util.UUID;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReference;

import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static org.apache.lucene.util.LuceneTestCase.createTempFile;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomAlphaOfLength;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.elasticsearch.test.ESTestCase.randomIntBetween;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.junit.Assert.assertThat;

public class TestUtils {

    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        boolean datesInMillis = randomBoolean();
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        String feature = "feature__" + randomInt();
        String issuer = "issuer__" + randomInt();
        String issuedTo = "issuedTo__" + randomInt();
        final String type;
        final String subscriptionType;
        if (version < License.VERSION_NO_FEATURE_TYPE) {
            subscriptionType = randomFrom("gold", "silver", "platinum");
            type = "subscription";//randomFrom("subscription", "internal", "development");
        } else {

```

```

        subscriptionType = null;
        type = randomFrom("basic", "dev", "gold", "silver", "platinum");
    }
    int maxNodes = RandomizedTest.randomIntBetween(5, 100);
    if (datesInMillis) {
        long issueDateInMillis = dateMath("now", now);
        long expiryDateInMillis = dateMath("now+10d/d", now);
        return new LicenseSpec(version, uid, feature, issueDateInMillis, expiryDateInMillis, type, subscriptionType,
issuedTo, issuer,
        maxNodes);
    } else {
        String issueDate = dateMathString("now", now);
        String expiryDate = dateMathString("now+10d/d", now);
        return new LicenseSpec(version, uid, feature, issueDate, expiryDate, type, subscriptionType, issuedTo,
issuer, maxNodes);
    }
}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startArray("licenses");
    licenses.startObject()
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);

    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endArray();
    licenses.endObject();
    return Strings.toString(licenses);
}

```

```

public static License generateLicenses(LicenseSpec spec) {
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }
    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }
    return builder.build();
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
}

```

```

public final String uid;
public final String type;
public final String subscriptionType;
public final String issuedTo;
public final String issuer;
public final int maxNodes;

public LicenseSpec(String issueDate, String expiryDate) {
    this(License.VERSION_CURRENT, UUID.randomUUID().toString(), "feature", issueDate, expiryDate,
"trial", "none", "customer",
        "elasticsearch", 5);
}

public LicenseSpec(int version, String uid, String feature, long issueDateInMillis, long expiryDateInMillis,
String type,
    String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDateInMillis = issueDateInMillis;
    this.issueDate = null;
    this.expiryDateInMillis = expiryDateInMillis;
    this.expiryDate = null;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

public LicenseSpec(int version, String uid, String feature, String issueDate, String expiryDate, String type,
    String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}
}

public static Path getTestPriKeyPath() throws Exception {

```

```

    return getResourcePath("/private.key");
}

public static Path getTestPubKeyPath() throws Exception {
    return getResourcePath("/public.key");
}

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return Strings.toString(builder);
}

public static License generateSignedLicense(TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, -1, expiryDuration);
}

public static License generateSignedLicense(String type, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, -1, expiryDuration);
}

public static License generateSignedLicense(long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, long issueDate, TimeValue expiryDuration) throws
Exception {
    return generateSignedLicense(type, randomIntBetween(License.VERSION_START,
License.VERSION_CURRENT), issueDate, expiryDuration);
}

/**
 * This method which chooses the license type randomly if the type is null. However, it will not randomly
 * choose trial or basic types as those types can only be self-generated.
 */
public static License generateSignedLicense(String type, int version, long issueDate, TimeValue expiryDuration)
throws Exception {
    long issue = (issueDate != -1L) ? issueDate : System.currentTimeMillis() -
TimeValue.timeValueHours(2).getMillis();
    final String licenseType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        licenseType = randomFrom("subscription", "internal", "development");
    } else {
        licenseType = (type != null) ? type : randomFrom("silver", "dev", "gold", "platinum");
    }
}

```

```

    }
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(version)
        .expiryDate(System.currentTimeMillis() + expiryDuration.getMillis())
        .issueDate(issue)
        .type(licenseType)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType((type != null) ? type : randomFrom("dev", "gold", "platinum", "silver"));
        builder.feature(randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateSignedLicense(License.Builder builder) throws Exception {
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateExpiredNonBasicLicense(long expiryDate) throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"), expiryDate);
}

public static License generateExpiredNonBasicLicense() throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));
}

public static License generateExpiredNonBasicLicense(String type) throws Exception {
    return generateExpiredNonBasicLicense(type,
        System.currentTimeMillis() - TimeValue.timeValueHours(randomIntBetween(1, 10)).getMillis());
}

public static License generateExpiredNonBasicLicense(String type, long expiryDate) throws Exception {
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(expiryDate)
        .issueDate(expiryDate - TimeValue.timeValueMinutes(10).getMillis())
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

```

```

}

private static Path getResourcePath(String resource) throws Exception {
    Path resourceFile = createTempFile();
    try (InputStream resourceInput = TestUtils.class.getResourceAsStream(resource)) {
        Files.copy(resourceInput, resourceFile, StandardCopyOption.REPLACE_EXISTING);
    }
    return resourceFile;
}

public static void registerAndAckSignedLicenses(final LicenseService licenseService, License license,
        final LicensesStatus expectedStatus) {
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(license).acknowledge(true);
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicReference<LicensesStatus> status = new AtomicReference<>();
    licenseService.registerLicense(putLicenseRequest, new ActionListener<PutLicenseResponse>() {
        @Override
        public void onResponse(PutLicenseResponse licensesUpdateResponse) {
            status.set(licensesUpdateResponse.status());
            latch.countDown();
        }

        @Override
        public void onFailure(Exception e) {
            latch.countDown();
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        Assert.fail(e.getMessage());
    }
    assertThat(status.get(), equalTo(expectedStatus));
}

public static class AssertingLicenseState extends XPackLicenseState {
    public final List<License.OperationMode> modeUpdates = new ArrayList<>();
    public final List<Boolean> activeUpdates = new ArrayList<>();

    public AssertingLicenseState() {
        super(Settings.EMPTY);
    }

    @Override
    void update(License.OperationMode mode, boolean active) {
        modeUpdates.add(mode);
        activeUpdates.add(active);
    }
}

```

```

}

/**
 * A license state that makes the {@link #update(License.OperationMode, boolean)}
 * method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        this(Settings.EMPTY);
    }

    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }

    @Override
    public void update(License.OperationMode mode, boolean active) {
        super.update(mode, active);
    }
}

public static void putLicense(MetaData.Builder builder, License license) {
    builder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
}
}
/**
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetTrialStatusAction extends TransportMasterNodeReadAction<GetTrialStatusRequest,
GetTrialStatusResponse> {

```

```

@Inject
public TransportGetTrialStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, GetTrialStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
        indexNameExpressionResolver, GetTrialStatusRequest::new);
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected GetTrialStatusResponse newResponse() {
    return new GetTrialStatusResponse();
}

@Override
protected void masterOperation(GetTrialStatusRequest request, ClusterState state,
        ActionListener<GetTrialStatusResponse> listener) throws Exception {
    LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
    listener.onResponse(new GetTrialStatusResponse(licensesMetaData == null ||
licensesMetaData.isEligibleForTrial()));
}

@Override
protected ClusterBlockException checkBlock(GetTrialStatusRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}
}

```

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Posted Date: April 20, 2018

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*/

package org.elasticsearch.license;

```
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
```

```
import static org.elasticsearch.common.unit.TimeValue.timeValueHours;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
```

```

public class LicensesAcknowledgementTests extends AbstractLicenseServiceTestCase {

    public void testAcknowledgment() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("gold", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();
        // try installing a signed license
        long issueDate = System.currentTimeMillis() - TimeValue.timeValueHours(24 * 2).getMillis();
        License signedLicense = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, issueDate,
timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
LicensesStatus.VALID, true));
        assertThat(licenseService.getLicense(), not(signedLicense));
        verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

        // try installing a signed license with acknowledgement
        putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
        // ensure license was installed and no acknowledgment message was returned
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
LicensesStatus.VALID, false));
        verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testRejectUpgradeToProductionWithoutTLS() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();
        // try installing a signed license
        License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        IllegalStateException ise = expectThrows(IllegalStateException.class, () ->
            licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
LicensesStatus.VALID, true)));
        assertEquals("Cannot install a [PLATINUM] license unless TLS is configured or security is disabled",
ise.getMessage());
    }

    public void testUpgradeToProductionWithoutTLSAndSecurityDisabled() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
            .put("xpack.security.enabled", false).build());
        licenseService.start();
        // try installing a signed license
        License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    }
}

```

```

PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
LicensesStatus.VALID, true));
assertThat(licenseService.getLicense(), not(signedLicense));
verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

// try installing a signed license with acknowledgement
putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment message was returned
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testUpgradeToProductionWithTLSAndSecurity() throws Exception {
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
.put("xpack.security.enabled", true)
.put("xpack.security.transport.ssl.enabled", true).build());
licenseService.start();
// try installing a signed license
License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
LicensesStatus.VALID, true));
assertThat(licenseService.getLicense(), not(signedLicense));
verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

// try installing a signed license with acknowledgement
putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment message was returned
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
private final boolean expectedAcknowledgement;
private final LicensesStatus expectedStatus;
private final boolean expectAckMessages;

AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus,
boolean expectAckMessages) {
this.expectedAcknowledgement = expectedAcknowledgement;
this.expectedStatus = expectedStatus;
this.expectAckMessages = expectAckMessages;
}
}

```

```

@Override
public void onResponse(PutLicenseResponse licensesUpdateResponse) {
    assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
    assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
    assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
}

@Override
public void onFailure(Exception throwable) {
    throw new RuntimeException(throwable);
}
}
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.AckedClusterStateUpdateTask;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.metadata.Metadata;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.AbstractLifecycleComponent;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.env.Environment;
import org.elasticsearch.gateway.GatewayService;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;

import java.time.Clock;

```

```

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.atomic.AtomicReference;

/**
 * Service responsible for managing { @link LicensesMetaData}.
 * <p>
 * On the master node, the service handles updating the cluster state when a new license is registered.
 * It also listens on all nodes for cluster state updates, and updates { @link XPackLicenseState } when
 * the license changes are detected in the cluster state.
 */
public class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener,
SchedulerEngine.Listener {

    public static final Setting<String> SELF_GENERATED_LICENSE_TYPE = new
Setting<>("xpack.license.self_generated.type",
    (s) -> "basic", (s) -> {
        if (SelfGeneratedLicense.validSelfGeneratedType(s)) {
            return s;
        } else {
            throw new IllegalArgumentException("Illegal self generated license type [" + s + "]. Must be trial or basic.");
        }
    }, Setting.Property.NodeScope);

    // pkg private for tests
    static final TimeValue NON_BASIC_SELF_GENERATED_LICENSE_DURATION =
TimeValue.timeValueHours(30 * 24);

    static final Set<String> VALID_TRIAL_TYPES = new HashSet<>(Arrays.asList("trial", "platinum", "gold"));

    /**
     * Duration of grace period after a license has expired
     */
    static final TimeValue GRACE_PERIOD_DURATION = days(7);

    public static final long BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS =
Long.MAX_VALUE - days(365).millis();

    private final ClusterService clusterService;

    /**

```

```

* The xpack feature state to update when license changes are made.
*/
private final XPackLicenseState licenseState;

/**
 * Currently active license
 */
private final AtomicReference<License> currentLicense = new AtomicReference<>();
private SchedulerEngine scheduler;
private final Clock clock;

/**
 * File watcher for operation mode changes
 */
private final OperationModeFileWatcher operationModeFileWatcher;

/**
 * Callbacks to notify relative to license expiry
 */
private List<ExpirationCallback> expirationCallbacks = new ArrayList<>();

/**
 * Max number of nodes licensed by generated trial license
 */
static final int SELF_GENERATED_LICENSE_MAX_NODES = 1000;

public static final String LICENSE_JOB = "licenseJob";

private static final FormatDateTimeFormatter DATE_FORMATTER = Joda.forPattern("EEEE, MMMMM dd,
yyyy", Locale.ROOT);

private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement.
To acknowledge the license, " +
    "please read the following messages and update the license again, this time with the \"acknowledge=true\"
parameter:";

public LicenseService(Settings settings, ClusterService clusterService, Clock clock, Environment env,
    ResourceWatcherService resourceWatcherService, XPackLicenseState licenseState) {
    super(settings);
    this.clusterService = clusterService;
    this.clock = clock;
    this.scheduler = new SchedulerEngine(clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService,
        XPackPlugin.resolveConfigFile(env, "license_mode"), logger, () -> updateLicenseState(getLicense()));
    this.scheduler.register(this);
    populateExpirationCallbacks();
}

```

```

private void logExpirationWarning(long expirationMillis, boolean expired) {
    String expiredMsg = expired ? "expired" : "will expire";
    String general = LoggerMessageFormat.format(null, "License [{}] on [{}].\n" +
        "# If you have a new license, please update it. Otherwise, please reach out to\n" +
        "# your support contact.\n" +
        "# ", expiredMsg, DATE_FORMATTER.printer().print(expirationMillis));
    if (expired) {
        general = general.toUpperCase(Locale.ROOT);
    }
    StringBuilder builder = new StringBuilder(general);
    builder.append(System.lineSeparator());
    if (expired) {
        builder.append("# COMMERCIAL PLUGINS OPERATING WITH REDUCED FUNCTIONALITY");
    } else {
        builder.append("# Commercial plugins operate with reduced functionality on license expiration:");
    }
    XPackLicenseState.EXPIRATION_MESSAGES.forEach((feature, messages) -> {
        if (messages.length > 0) {
            builder.append(System.lineSeparator());
            builder.append("# - ");
            builder.append(feature);
            for (String message : messages) {
                builder.append(System.lineSeparator());
                builder.append("# - ");
                builder.append(message);
            }
        }
    });
    logger.warn("{} ", builder);
}

private void populateExpirationCallbacks() {
    expirationCallbacks.add(new ExpirationCallback.Pre(days(7), days(25), days(1)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Pre(days(0), days(7), TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Post(days(0), null, TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {

```

```

        // logged when grace period begins
        logExpirationWarning(license.expiryDate(), true);
    }
});
}

/**
 * Registers new license in the cluster
 * Master only operation. Installs a new license on the master provided it is VALID
 */
public void registerLicense(final PutLicenseRequest request, final ActionListener<PutLicenseResponse> listener)
{
    final License newLicense = request.license();
    final long now = clock.millis();
    if (!LicenseVerifier.verifyLicense(newLicense) || newLicense.issueDate() > now || newLicense.startDate() >
now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.INVALID));
    } else if (newLicense.type().equals("basic")) {
        listener.onFailure(new IllegalArgumentException("Registering basic licenses is not allowed."));
    } else if (newLicense.expiryDate() < now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.EXPIRED));
    } else {
        if (!request.acknowledged()) {
            // TODO: ack messages should be generated on the master, since another node's cluster state may be
behind...
            final License currentLicense = getLicense();
            if (currentLicense != null) {
                Map<String, String[]> acknowledgeMessages = getAckMessages(newLicense, currentLicense);
                if (acknowledgeMessages.isEmpty() == false) {
                    // needs acknowledgement
                    listener.onResponse(new PutLicenseResponse(false, LicensesStatus.VALID,
ACKNOWLEDGEMENT_HEADER,
                    acknowledgeMessages));
                    return;
                }
            }
        }
    }

    if (newLicense.isProductionLicense()
        && XPackSettings.SECURITY_ENABLED.get(settings)
        && XPackSettings.TRANSPORT_SSL_ENABLED.get(settings) == false
        && isProductionMode(settings, clusterService.localNode())) {
        // security is on but TLS is not configured we gonna fail the entire request and throw an exception
        throw new IllegalStateException("Cannot install a [" + newLicense.operationMode() +
            "] license unless TLS is configured or security is disabled");
        // TODO we should really validate that all nodes have xpack installed and are consistently configured but
this
        // should happen on a different level and not in this code

```

```

    } else {
        clusterService.submitStateUpdateTask("register license [" + newLicense.uid() + "]", new
            AckedClusterStateUpdateTask<PutLicenseResponse>(request, listener) {
                @Override
                protected PutLicenseResponse newResponse(boolean acknowledged) {
                    return new PutLicenseResponse(acknowledged, LicensesStatus.VALID);
                }

                @Override
                public ClusterState execute(ClusterState currentState) throws Exception {
                    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
                    Metadata currentMetadata = currentState.metadata();
                    LicensesMetadata licensesMetadata = currentMetadata.custom(LicensesMetadata.TYPE);
                    Version trialVersion = null;
                    if (licensesMetadata != null) {
                        trialVersion = licensesMetadata.getMostRecentTrialVersion();
                    }
                    Metadata.Builder mdBuilder = Metadata.builder(currentMetadata);
                    mdBuilder.putCustom(LicensesMetadata.TYPE, new LicensesMetadata(newLicense,
trialVersion));
                    return ClusterState.builder(currentState).metadata(mdBuilder).build();
                }
            });
    }
}

public static Map<String, String[]> getAckMessages(License newLicense, License currentLicense) {
    Map<String, String[]> acknowledgeMessages = new HashMap<>();
    if (!License.isAutoGeneratedLicense(currentLicense.signature()) // current license is not auto-generated
        && currentLicense.issueDate() > newLicense.issueDate()) { // and has a later issue date
        acknowledgeMessages.put("license", new String[]{
            "The new license is older than the currently installed license. " +
            "Are you sure you want to override the current license?"});
    }
    XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.forEach((feature, ackMessages) -> {
        String[] messages = ackMessages.apply(currentLicense.operationMode(), newLicense.operationMode());
        if (messages.length > 0) {
            acknowledgeMessages.put(feature, messages);
        }
    });
    return acknowledgeMessages;
}

private static TimeValue days(int days) {
    return TimeValue.timeValueHours(days * 24);
}

```

```

@Override
public void triggered(SchedulerEngine.Event event) {
    final LicensesMetaData licensesMetaData =
clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    if (licensesMetaData != null) {
        final License license = licensesMetaData.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license);
        } else if (event.getJobName().startsWith(ExpirationCallback.EXPIRATION_JOB_PREFIX)) {
            expirationCallbacks.stream()
                .filter(expirationCallback -> expirationCallback.getId().equals(event.getJobName()))
                .forEach(expirationCallback -> expirationCallback.on(license));
        }
    }
}

/**
 * Remove license from the cluster state metadata
 */
public void removeLicense(final DeleteLicenseRequest request, final
ActionListener<ClusterStateUpdateResponse> listener) {
    clusterService.submitStateUpdateTask("delete license",
        new AckedClusterStateUpdateTask<ClusterStateUpdateResponse>(request, listener) {
            @Override
            protected ClusterStateUpdateResponse newResponse(boolean acknowledged) {
                return new ClusterStateUpdateResponse(acknowledged);
            }
        }

        @Override
        public ClusterState execute(ClusterState currentState) throws Exception {
            MetaData metaData = currentState.metaData();
            final LicensesMetaData currentLicenses = metaData.custom(LicensesMetaData.TYPE);
            if (currentLicenses.getLicense() != LicensesMetaData.LICENSE_TOMBSTONE) {
                MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
                LicensesMetaData newMetadata = new
LicensesMetaData(LicensesMetaData.LICENSE_TOMBSTONE,
                    currentLicenses.getMostRecentTrialVersion());
                mdBuilder.putCustom(LicensesMetaData.TYPE, newMetadata);
                return ClusterState.builder(currentState).metaData(mdBuilder).build();
            } else {
                return currentState;
            }
        }
    });
}

public License getLicense() {

```

```

    final License license = getLicense(clusterService.state().metaData());
    return license == LicensesMetaData.LICENSE_TOMBSTONE ? null : license;
}

void startTrialLicense(PostStartTrialRequest request, final ActionListener<PostStartTrialResponse> listener) {
    if (VALID_TRIAL_TYPES.contains(request.getType()) == false) {
        throw new IllegalArgumentException("Cannot start trial of type [" + request.getType() + "]. Valid trial types
are "
            + VALID_TRIAL_TYPES + ".");
    }
    StartTrialClusterTask task = new StartTrialClusterTask(logger, clusterService.getClusterName().value(), clock,
request, listener);
    clusterService.submitStateUpdateTask("started trial license", task);
}

void startBasicLicense(PostStartBasicRequest request, final ActionListener<PostStartBasicResponse> listener) {
    StartBasicClusterTask task = new StartBasicClusterTask(logger, clusterService.getClusterName().value(),
clock, request, listener);
    clusterService.submitStateUpdateTask("start basic license", task);
}

/**
 * Master-only operation to generate a one-time global self generated license.
 * The self generated license is only generated and stored if the current cluster state metadata
 * has no existing license. If the cluster currently has a basic license that has an expiration date,
 * a new basic license with no expiration date is generated.
 */
private void registerOrUpdateSelfGeneratedLicense() {
    clusterService.submitStateUpdateTask("maybe generate license for cluster",
        new StartupSelfGeneratedLicenseTask(settings, clock, clusterService));
}

@Override
protected void doStart() throws ElasticsearchException {
    clusterService.addListener(this);
    scheduler.start(Collections.emptyList());
    logger.debug("initializing license state");
    if (clusterService.lifecycleState() == Lifecycle.State.STARTED) {
        final ClusterState clusterState = clusterService.state();
        if (clusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) == false
&&
            clusterState.nodes().getMasterNode() != null &&
XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
            final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
            boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
            if (clusterState.getNodes().isLocalNodeElectedMaster() &&
                (noLicense || LicenseUtils.licenseNeedsExtended(currentMetaData.getLicense()))) {
                // triggers a cluster changed event eventually notifying the current licensee

```

```

        registerOrUpdateSelfGeneratedLicense();
    }
}
}
}

@Override
protected void doStop() throws ElasticsearchException {
    clusterService.removeListener(this);
    scheduler.stop();
    // clear current license
    currentLicense.set(null);
}

@Override
protected void doClose() throws ElasticsearchException {
}

/**
 * When there is no global block on {@link
org.elasticsearch.gateway.GatewayService#STATE_NOT_RECOVERED_BLOCK}
 * notify licensees and issue auto-generated license if no license has been installed/issued yet.
 */
@Override
public void clusterChanged(ClusterChangedEvent event) {
    final ClusterState previousClusterState = event.previousState();
    final ClusterState currentClusterState = event.state();
    if (!currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
        if (XPackPlugin.isReadyForXPackCustomMetadata(currentClusterState) == false) {
            logger.debug("cannot add license to cluster as the following nodes might not understand the license
metadata: {}",
                () -> XPackPlugin.nodesNotReadyForXPackCustomMetadata(currentClusterState));
            return;
        }

        final LicensesMetaData prevLicensesMetaData =
previousClusterState.getMetaData().custom(LicensesMetaData.TYPE);
        final LicensesMetaData currentLicensesMetaData =
currentClusterState.getMetaData().custom(LicensesMetaData.TYPE);
        if (logger.isDebugEnabled()) {
            logger.debug("previous [{}]", prevLicensesMetaData);
            logger.debug("current [{}]", currentLicensesMetaData);
        }
        // notify all interested plugins
        if (previousClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)
            || prevLicensesMetaData == null) {
            if (currentLicensesMetaData != null) {
                onUpdate(currentLicensesMetaData);
            }
        }
    }
}

```

```

    }
    } else if (!prevLicensesMetaData.equals(currentLicensesMetaData)) {
        onUpdate(currentLicensesMetaData);
    }

    License currentLicense = null;
    boolean noLicenseInPrevMetadata = prevLicensesMetaData == null || prevLicensesMetaData.getLicense()
    == null;
    if (noLicenseInPrevMetadata == false) {
        currentLicense = prevLicensesMetaData.getLicense();
    }
    boolean noLicenseInCurrentMetadata = (currentLicensesMetaData == null ||
currentLicensesMetaData.getLicense() == null);
    if (noLicenseInCurrentMetadata == false) {
        currentLicense = currentLicensesMetaData.getLicense();
    }

    boolean noLicense = noLicenseInPrevMetadata && noLicenseInCurrentMetadata;
    // auto-generate license if no licenses ever existed or if the current license is basic and
    // needs extended. this will trigger a subsequent cluster changed event
    if (currentClusterState.getNodes().isLocalNodeElectedMaster()
        && (noLicense || LicenseUtils.licenseNeedsExtended(currentLicense))) {
        registerOrUpdateSelfGeneratedLicense();
    }
    } else if (logger.isDebugEnabled()) {
        logger.debug("skipped license notifications reason: [{}]",
GatewayService.STATE_NOT_RECOVERED_BLOCK);
    }
}

protected void updateLicenseState(final License license) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false);
        return;
    }
    if (license != null) {
        long time = clock.millis();
        boolean active;
        if (license.expiryDate() == BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
            active = true;
        } else {
            // We subtract the grace period from the current time to avoid overflowing on an expiration
            // date that is near Long.MAX_VALUE
            active = time >= license.issueDate() && time - GRACE_PERIOD_DURATION.getMillis() <
license.expiryDate();
        }
        licenseState.update(license.operationMode(), active);
    }
}

```

```

    if (active) {
        if (time < license.expiryDate()) {
            logger.debug("license [{}] - valid", license.uid());
        } else {
            logger.warn("license [{}] - grace", license.uid());
        }
    } else {
        logger.warn("license [{}] - expired", license.uid());
    }
}

/**
 * Notifies registered licensees of license state change and/or new active license
 * based on the license in <code>currentLicensesMetaData</code>.
 * Additionally schedules license expiry notifications and event callbacks
 * relative to the current license's expiry
 */
private void onUpdate(final LicensesMetaData currentLicensesMetaData) {
    final License license = getLicense(currentLicensesMetaData);
    // license can be null if the trial license is yet to be auto-generated
    // in this case, it is a no-op
    if (license != null) {
        final License previousLicense = currentLicense.get();
        if (license.equals(previousLicense) == false) {
            currentLicense.set(license);
            license.setOperationModeFileWatcher(operationModeFileWatcher);
            scheduler.add(new SchedulerEngine.Job(LICENSE_JOB, nextLicenseCheck(license)));
            for (ExpirationCallback expirationCallback : expirationCallbacks) {
                scheduler.add(new SchedulerEngine.Job(expirationCallback.getId(),
                    (startTime, now) ->
                        expirationCallback.nextScheduledTimeForExpiry(license.expiryDate(), startTime, now)));
            }
            if (previousLicense != null) {
                // remove operationModeFileWatcher to gc the old license object
                previousLicense.removeOperationModeFileWatcher();
            }
            logger.info("license [{}] mode [{}] - valid", license.uid(),
                license.operationMode().name().toLowerCase(Locale.ROOT));
        }
        updateLicenseState(license);
    }
}

// pkg private for tests
static SchedulerEngine.Schedule nextLicenseCheck(License license) {
    return (startTime, time) -> {

```

```

    if (time < license.issueDate()) {
        // when we encounter a license with a future issue date
        // which can happen with autogenerated license,
        // we want to schedule a notification on the license issue date
        // so the license is notified once it is valid
        // see https://github.com/elastic/x-plugins/issues/983
        return license.issueDate();
    } else if (time < license.expiryDate()) {
        return license.expiryDate();
    } else if (time < license.expiryDate() + GRACE_PERIOD_DURATION.getMillis()) {
        return license.expiryDate() + GRACE_PERIOD_DURATION.getMillis();
    }
    return -1; // license is expired, no need to check again
};
}

public static License getLicense(final MetaData metaData) {
    final LicensesMetaData licensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    return getLicense(licensesMetaData);
}

static License getLicense(final LicensesMetaData metaData) {
    if (metaData != null) {
        License license = metaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            if ((autoGeneratedLicense && SelfGeneratedLicense.verify(license))
                || (!autoGeneratedLicense && LicenseVerifier.verifyLicense(license))) {
                return license;
            }
        }
    }
    return null;
}

private static boolean isProductionMode(Settings settings, DiscoveryNode localNode) {
    final boolean singleNodeDisco = "single-
node".equals(DiscoveryModule.DISCOVERY_TYPE_SETTING.get(settings));
    return singleNodeDisco == false && isBoundToLoopback(localNode) == false;
}

private static boolean isBoundToLoopback(DiscoveryNode localNode) {
    return localNode.getAddress().address().isLoopbackAddress();
}
}

```

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The build produces two sets of binaries - one set that falls under the Elastic License and another set that falls under Apache License Version 2.0. The binaries that contain `-oss` in the artifact name are licensed under the Apache License Version 2.0.

```
name,version,revision,url,license,copyright
```

```
GCC Runtime Library,6.2.0,6ac74a62ba7258299cf85fbef9bf45333ddf10c0,https://gcc.gnu.org,GPL-3.0 WITH  
GCC-exception-3.1,"Copyright (C) 2016 Free Software Foundation, Inc."
```

```
/*
```

```
* Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
```

```
* or more contributor license agreements. Licensed under the Elastic License;
```

```
* you may not use this file except in compliance with the Elastic License.
```

```
*/
```

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.client.Response;
```

```
import org.elasticsearch.client.ResponseException;
```

```
import org.elasticsearch.client.RestClient;
```

```
import org.elasticsearch.common.io.Streams;
```

```
import org.elasticsearch.common.network.NetworkModule;
```

```
import org.elasticsearch.common.settings.Settings;
```

```
import org.elasticsearch.plugins.Plugin;
```

```
import org.elasticsearch.test.ESIntegTestCase;
```

```
import org.elasticsearch.transport.Netty4Plugin;
```

```
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
```

```
import org.elasticsearch.xpack.core.XPackClientPlugin;
```

```
import java.io.InputStreamReader;
```

```
import java.nio.charset.StandardCharsets;
```

```
import java.util.Arrays;
```

```
import java.util.Collection;
```

```
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;
```

```
@ESIntegTestCase.ClusterScope(scope = SUITE)
```

```
public class StartTrialLicenseTests extends AbstractLicensesIntegrationTestCase {
```

```
    @Override
```

```
    protected Settings nodeSettings(int nodeOrdinal) {
```

```
        return Settings.builder()
```

```

        .put(super.nodeSettings(nodeOrdinal))
        .put("node.data", true)
        .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
        .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartTrial() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        ensureStartingWithBasic();

        RestClient restClient = getRestClient();
        Response response = restClient.performRequest("GET", "/_xpack/license/trial_status");
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
StandardCharsets.UTF_8));
        assertEquals(200, response.getStatusLine().getStatusCode());
        assertEquals("{\"eligible_to_start_trial\":true}", body);

        // Test that starting will fail without acknowledgement
        Response response2 = restClient.performRequest("POST", "/_xpack/license/start_trial");
        String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
        assertEquals(200, response2.getStatusLine().getStatusCode());
        assertTrue(body2.contains("\"trial_was_started\":false"));
        assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\""));
        assertTrue(body2.contains("\"acknowledged\":false"));

        assertBusy(() -> {
            GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
            assertEquals("basic", getLicenseResponse.license().type());
        });

        String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);

        Response response3 = restClient.performRequest("POST",
"/_xpack/license/start_trial?acknowledge=true&type=" + type);
        String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
StandardCharsets.UTF_8));
        assertEquals(200, response3.getStatusLine().getStatusCode());
    }

```

```

assertTrue(body3.contains("\"trial_was_started\":true"));
assertTrue(body3.contains("\"type\": \"" + type + "\""));
assertTrue(body3.contains("\"acknowledged\":true"));

assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals(type, postTrialLicenseResponse.license().type());
});

Response response4 = restClient.performRequest("GET", "/_xpack/license/trial_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
assertEquals("{\"eligible_to_start_trial\":false}", body4);

String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);

ResponseException ex = expectThrows(ResponseException.class,
    () -> restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" +
secondAttemptType));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("\"trial_was_started\":false"));
assertTrue(body5.contains("\"error_message\": \"Operation failed: Trial was already activated.\""));
}

public void testInvalidType() throws Exception {
    ensureStartingWithBasic();

    ResponseException ex = expectThrows(ResponseException.class, () ->
        getRestClient().performRequest("POST", "/_xpack/license/start_trial?type=basic"));
    Response response = ex.getResponse();
    String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
StandardCharsets.UTF_8));
    assertEquals(400, response.getStatusLine().getStatusCode());
    assertTrue(body.contains("\"type\": \"illegal_argument_exception\""));
    assertTrue(body.contains("\"reason\": \"Cannot start trial of type [basic]. Valid trial types are [\""));
}

private void ensureStartingWithBasic() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();

    if ("basic".equals(getLicenseResponse.license().type()) == false) {
        licensingClient.preparePostStartBasic().setAcknowledge(true).get();
    }
}

```

```

    assertBusy(() -> {
        GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("basic", postTrialLicenseResponse.license().type());
    });
}
}
/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import javax.crypto.BadPaddingException;
import javax.crypto.Cipher;
import javax.crypto.IllegalBlockSizeException;
import javax.crypto.NoSuchPaddingException;
import javax.crypto.SecretKey;
import javax.crypto.SecretKeyFactory;
import javax.crypto.spec.PBEKeySpec;
import javax.crypto.spec.SecretKeySpec;
import java.nio.charset.StandardCharsets;
import java.security.InvalidKeyException;
import java.security.KeyFactory;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.PKCS8EncodedKeySpec;
import java.security.spec.X509EncodedKeySpec;
import java.util.Base64;

public class CryptUtils {
    private static final int minimumPadding = 20;
    private static final byte[] salt = {
        (byte) 0xA9, (byte) 0xA2, (byte) 0xB5, (byte) 0xDE,
        (byte) 0x2A, (byte) 0x8A, (byte) 0x9A, (byte) 0xE6
    };
    private static final int iterationCount = 1024;
    private static final int aesKeyLength = 128;
    private static final String keyAlgorithm = "RSA";
    private static final String passHashAlgorithm = "SHA-512";
    private static final String DEFAULT_PASS_PHRASE = "elasticsearch-license";

```

```

private static final SecureRandom random = new SecureRandom();

/**
 * Read encrypted private key file content with default pass phrase
 */
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents) {
    try {
        return readEncryptedPrivateKey(fileContents, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Read encrypted public key file content with default pass phrase
 */
public static PublicKey readEncryptedPublicKey(byte[] fileContents) {
    try {
        return readEncryptedPublicKey(fileContents, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Returns encrypted public key file content with default pass phrase
 */
public static byte[] writeEncryptedPublicKey(PublicKey publicKey) {
    try {
        return writeEncryptedPublicKey(publicKey, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Returns encrypted private key file content with default pass phrase
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey) {
    try {
        return writeEncryptedPrivateKey(privateKey, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Read encrypted private key file content with provided <code>passPhrase</code>

```

```

*/
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents, char[] passPhrase) {
    PKCS8EncodedKeySpec privateKeySpec = new PKCS8EncodedKeySpec(decrypt(fileContents, passPhrase));
    try {
        return KeyFactory.getInstance(keyAlgorithm).generatePrivate(privateKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Read encrypted public key file content with provided <code>passPhrase</code>
 */
public static PublicKey readEncryptedPublicKey(byte[] fileContents, char[] passPhrase) {
    X509EncodedKeySpec publicKeySpec = new X509EncodedKeySpec(decrypt(fileContents, passPhrase));
    try {
        return KeyFactory.getInstance(CryptUtils.keyAlgorithm).generatePublic(publicKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Returns encrypted public key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPublicKey(PublicKey publicKey, char[] passPhrase) {
    X509EncodedKeySpec encodedKeySpec = new X509EncodedKeySpec(publicKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
 * Returns encrypted private key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey, char[] passPhrase) {
    PKCS8EncodedKeySpec encodedKeySpec = new PKCS8EncodedKeySpec(privateKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
 * Encrypts provided <code>data</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
public static byte[] encrypt(byte[] data) {
    try {
        return encrypt(data, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

```

```

/**
 * Decrypts provided <code>encryptedData</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
public static byte[] decrypt(byte[] encryptedData) {
    try {
        return decrypt(encryptedData, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Encrypts provided <code>data</code> with <code>passPhrase</code>
 */
public static byte[] encrypt(byte[] data, char[] passPhrase) {
    try {
        final Cipher encryptionCipher = getEncryptionCipher(getSecretKey(passPhrase));
        return encryptionCipher.doFinal(pad(data, minimumPadding));
    } catch (InvalidKeySpecException | IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>passPhrase</code>
 */
private static byte[] decrypt(byte[] encryptedData, char[] passPhrase) {
    try {
        final Cipher cipher = getDecryptionCipher(getSecretKey(passPhrase));
        return unPad(cipher.doFinal(encryptedData));
    } catch (IllegalBlockSizeException | BadPaddingException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

private static SecretKey getSecretKey(char[] passPhrase) throws InvalidKeySpecException {
    try {
        PBEKeySpec keySpec = new PBEKeySpec(passPhrase, salt, iterationCount, aesKeyLength);

        byte[] shortKey = SecretKeyFactory.getInstance("PBESWithSHA1AndDESede").
            generateSecret(keySpec).getEncoded();

        byte[] intermediaryKey = new byte[aesKeyLength / 8];
        for (int i = 0, j = 0; i < aesKeyLength / 8; i++) {
            intermediaryKey[i] = shortKey[j];
            if (++j == shortKey.length)

```

```

        j = 0;
    }

    return new SecretKeySpec(intermediaryKey, "AES");
} catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
    throw new IllegalStateException(e);
}
}

private static Cipher getEncryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.ENCRYPT_MODE, secretKey);
}

private static Cipher getDecryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.DECRYPT_MODE, secretKey);
}

private static Cipher getCipher(int mode, SecretKey secretKey) {
    try {
        Cipher cipher = Cipher.getInstance(secretKey.getAlgorithm());
        cipher.init(mode, secretKey, random);
        return cipher;
    } catch (NoSuchAlgorithmException | InvalidKeyException | NoSuchPaddingException e) {
        throw new IllegalStateException(e);
    }
}

private static byte[] pad(byte[] bytes, int length) {
    if (bytes.length >= length) {
        byte[] out = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0, out, 0, bytes.length);
        out[bytes.length] = (byte) 1;
        return out;
    }

    byte[] out = new byte[length + 1];

    int i = 0;
    for (; i < bytes.length; i++)
        out[i] = bytes[i];

    int padded = length - i;

    // fill the rest with random bytes
    byte[] fill = new byte[padded - 1];
    random.nextBytes(fill);
    System.arraycopy(fill, 0, out, i, padded - 1);
}

```

```

        out[length] = (byte) (padded + 1);

        return out;
    }

    private static byte[] unPad(byte[] bytes) {
        int padded = (int) bytes[bytes.length - 1];
        int targetLength = bytes.length - padded;

        byte[] out = new byte[targetLength];

        System.arraycopy(bytes, 0, out, 0, targetLength);

        return out;
    }

    private static char[] hashPassPhrase(String passPhrase) throws NoSuchAlgorithmException {
        final byte[] passBytes = passPhrase.getBytes(StandardCharsets.UTF_8);
        final byte[] digest = MessageDigest.getInstance(passHashAlgorithm).digest(passBytes);
        return Base64.getEncoder().encodeToString(digest).toCharArray();
    }
}

```

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*/

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;

import org.elasticsearch.common.network.NetworkModule;

import org.elasticsearch.common.settings.Settings;

import org.elasticsearch.common.unit.TimeValue;

import org.elasticsearch.env.Environment;

import org.elasticsearch.plugins.Plugin;

import org.elasticsearch.test.ESIntegTestCase.ClusterScope;

import org.elasticsearch.transport.Netty4Plugin;

import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

import org.elasticsearch.xpack.core.XPackPlugin;

import java.nio.charset.StandardCharsets;

import java.nio.file.Files;

import java.nio.file.Path;

import java.util.Arrays;

import java.util.Collection;

import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;

import static org.hamcrest.CoreMatchers.equalTo;

import static org.hamcrest.CoreMatchers.nullValue;

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,

transportClientRatio = 0)

```

public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return nodeSettingsBuilder(nodeOrdinal).build();
    }

    private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
        return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put("node.data", true)
            .put("resource.reload.interval.high", "500ms") // for license mode file watcher
            .put(NetworkModule.HTTP_ENABLED.getKey(), true);
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return nodePlugins();
    }

    public void testClusterRestartWithLicense() throws Exception {
        wipeAllLicenses();

        int numNodes = randomIntBetween(1, 5);
        logger.info("--> starting { } node(s)", numNodes);
        internalCluster().startNodes(numNodes);
        ensureGreen();

        logger.info("--> put signed license");
        LicensingClient licensingClient = new LicensingClient(client());
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(1));
        putLicense(license);
        assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
        assertOperationMode(license.operationMode());

        logger.info("--> restart all nodes");
        internalCluster().fullRestart();
        ensureYellow();
        licensingClient = new LicensingClient(client());
        logger.info("--> get and check signed license");
        assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
        logger.info("--> remove licenses");
    }
}

```

```

licensingClient.prepareDeleteLicense().get();
assertOperationMode(License.OperationMode.MISSING);

logger.info("--> restart all nodes");
internalCluster().fullRestart();
licensingClient = new LicensingClient(client());
ensureYellow();
assertThat(licensingClient.prepareGetLicense().get().license(), nullValue());
assertOperationMode(License.OperationMode.MISSING);

wipeAllLicenses();
}

public void testCloudInternalLicense() throws Exception {
    wipeAllLicenses();

    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting { } node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();

    logger.info("--> put signed license");
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("cloud_internal", License.VERSION_CURRENT,
System.currentTimeMillis(),
        TimeValue.timeValueMinutes(1));
    putLicense(license);
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    assertOperationMode(License.OperationMode.PLATINUM);
    writeCloudInternalMode("gold");
    assertOperationMode(License.OperationMode.GOLD);
    writeCloudInternalMode("basic");
    assertOperationMode(License.OperationMode.BASIC);
}

public void testClusterRestartWhileEnabled() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
}

```

```

public void testClusterRestartWhileGrace() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    assertLicenseActive(true);
    putLicense(TestUtils.generateSignedLicense(TimeValue.timeValueMillis(0)));
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for grace_period");
    assertLicenseActive(true);
}

public void testClusterRestartWhileExpired() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    putLicense(TestUtils.generateExpiredNonBasicLicense(System.currentTimeMillis() -
LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    assertLicenseActive(false);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for disabled");
    assertLicenseActive(false);
}

private void assertOperationMode(License.OperationMode operationMode) throws InterruptedException {
    boolean success = awaitBusy() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.getOperationMode() == operationMode) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

private void writeCloudInternalMode(String mode) throws Exception {
    for (Environment environment : internalCluster().getDataOrMasterNodeInstances(Environment.class)) {
        Path licenseModePath = XPackPlugin.resolveConfigFile(environment, "license_mode");
        Files.createDirectories(licenseModePath.getParent());
        Files.write(licenseModePath, mode.getBytes(StandardCharsets.UTF_8));
    }
}

```

```

}
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.rest.RestStatus;

import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

class PostStartTrialResponse extends ActionResponse {

    // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
    enum Pre63Status {
        UPGRADED_TO_TRIAL,
        TRIAL_ALREADY_ACTIVATED;
    }
    enum Status {
        UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
        TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.",
RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);

        private final boolean isTrialStarted;

        private final String errorMessage;
        private final RestStatus restStatus;
        Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
            this.isTrialStarted = isTrialStarted;
            this.errorMessage = errorMessage;
            this.restStatus = restStatus;
        }
    }

    boolean isTrialStarted() {
        return isTrialStarted;
    }

    String getErrorMessage() {

```

```

        return errorMessage;
    }

    RestStatus getRestStatus() {
        return restStatus;
    }

}

private Status status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

PostStartTrialResponse() {
}

PostStartTrialResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartTrialResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage)
{
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    status = in.readEnum(Status.class);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        acknowledgeMessage = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
        this.acknowledgeMessages = acknowledgeMessages;
    }
}

```

```

    } else {
        this.acknowledgeMessages = Collections.emptyMap();
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        out.writeEnum(status);
        out.writeOptionalString(acknowledgeMessage);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        }
    } else {
        if (status == Status.UPGRADED_TO_TRIAL) {
            out.writeEnum(Pre63Status.UPGRADED_TO_TRIAL);
        } else if (status == Status.TRIAL_ALREADY_ACTIVATED) {
            out.writeEnum(Pre63Status.TRIAL_ALREADY_ACTIVATED);
        } else {
            throw new IllegalArgumentException("Starting trial on node with version [" + Version.CURRENT + "]
requires " +
                "acknowledgement parameter.");
        }
    }
}

Map<String, String[]> getAcknowledgementMessages() {
    return acknowledgeMessages;
}

String getAcknowledgementMessage() {
    return acknowledgeMessage;
}
}

```

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*/

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.test.ESTestCase;

```

import java.util.Arrays;

import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasSize;

public class LicenseUtilsTests extends ESTestCase {

    public void testNewExpirationException() {
        for (String feature : Arrays.asList("feature", randomAlphaOfLength(5), null, "")) {
            ElasticsearchSecurityException exception = LicenseUtils.newComplianceException(feature);
            assertNotNull(exception);
            assertThat(exception.getMetadataKeys(), contains(LicenseUtils.EXPIRED_FEATURE_METADATA));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasSize(1));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA).iterator().next(),
                equalTo(feature));
        }
    }

    public void testIsLicenseExpiredException() {
        ElasticsearchSecurityException exception = LicenseUtils.newComplianceException("feature");
        assertTrue(LicenseUtils.isLicenseExpiredException(exception));

        exception = new ElasticsearchSecurityException("msg");
        assertFalse(LicenseUtils.isLicenseExpiredException(exception));
    }
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writable;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.xpack.core.XPackBuild;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;

```

```

import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

public class XPackInfoResponse extends ActionResponse {

    @Nullable private BuildInfo buildInfo;
    @Nullable private LicenseInfo licenseInfo;
    @Nullable private FeatureSetsInfo featureSetsInfo;

    public XPackInfoResponse() {}

    public XPackInfoResponse(@Nullable BuildInfo buildInfo, @Nullable LicenseInfo licenseInfo, @Nullable
FeatureSetsInfo featureSetsInfo) {
        this.buildInfo = buildInfo;
        this.licenseInfo = licenseInfo;
        this.featureSetsInfo = featureSetsInfo;
    }

    /**
     * @return The build info (incl. build hash and timestamp)
     */
    public BuildInfo getBuildInfo() {
        return buildInfo;
    }

    /**
     * @return The current license info (incl. UID, type/mode. status and expiry date). May return { @code null}
when no
     *     license is currently installed.
     */
    public LicenseInfo getLicenseInfo() {
        return licenseInfo;
    }

    /**
     * @return The current status of the feature sets in X-Pack. Feature sets describe the features available/enabled in
X-Pack.
     */
    public FeatureSetsInfo getFeatureSetsInfo() {
        return featureSetsInfo;
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
    }
}

```

```

        out.writeOptionalWriteable(buildInfo);
        out.writeOptionalWriteable(licenseInfo);
        out.writeOptionalWriteable(featureSetsInfo);
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        this.buildInfo = in.readOptionalWriteable(BuildInfo::new);
        this.licenseInfo = in.readOptionalWriteable(LicenseInfo::new);
        this.featureSetsInfo = in.readOptionalWriteable(FeatureSetsInfo::new);
    }

    public static class LicenseInfo implements ToXContentObject, Writeable {

        private final String uid;
        private final String type;
        private final String mode;
        private final long expiryDate;
        private final License.Status status;

        public LicenseInfo(License license) {
            this(license.uid(), license.type(), license.operationMode().name().toLowerCase(Locale.ROOT),
                license.status(), license.expiryDate());
        }

        public LicenseInfo(StreamInput in) throws IOException {
            this(in.readString(), in.readString(), in.readString(), License.Status.readFrom(in), in.readLong());
        }

        public LicenseInfo(String uid, String type, String mode, License.Status status, long expiryDate) {
            this.uid = uid;
            this.type = type;
            this.mode = mode;
            this.status = status;
            this.expiryDate = expiryDate;
        }

        public String getUid() {
            return uid;
        }

        public String getType() {
            return type;
        }

        public String getMode() {
            return mode;
        }
    }

```

```

public long getExpiryDate() {
    return expiryDate;
}

public License.Status getStatus() {
    return status;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject()
        .field("uid", uid)
        .field("type", type)
        .field("mode", mode)
        .field("status", status.label());
    if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        builder.timeField("expiry_date_in_millis", "expiry_date", expiryDate);
    }
    return builder.endObject();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeString(uid);
    out.writeString(type);
    out.writeString(mode);
    status.writeTo(out);
    out.writeLong(expiryDate);
}
}

public static class BuildInfo implements ToXContentObject, Writable {

    private final String hash;
    private final String timestamp;

    public BuildInfo(XPackBuild build) {
        this(build.shortHash(), build.date());
    }

    public BuildInfo(StreamInput input) throws IOException {
        this(input.readString(), input.readString());
    }

    public BuildInfo(String hash, String timestamp) {
        this.hash = hash;
        this.timestamp = timestamp;
    }
}

```

```

public String getHash() {
    return hash;
}

public String getTimestamp() {
    return timestamp;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    return builder.startObject()
        .field("hash", hash)
        .field("date", timestamp)
        .endObject();
}

public void writeTo(StreamOutput output) throws IOException {
    output.writeString(hash);
    output.writeString(timestamp);
}
}

public static class FeatureSetsInfo implements ToXContentObject, Writable {

    private final Map<String, FeatureSet> featureSets;

    public FeatureSetsInfo(StreamInput in) throws IOException {
        int size = in.readVInt();
        Map<String, FeatureSet> featureSets = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            FeatureSet featureSet = new FeatureSet(in);
            featureSets.put(featureSet.name, featureSet);
        }
        this.featureSets = Collections.unmodifiableMap(featureSets);
    }

    public FeatureSetsInfo(Set<FeatureSet> featureSets) {
        Map<String, FeatureSet> map = new HashMap<>(featureSets.size());
        for (FeatureSet featureSet : featureSets) {
            map.put(featureSet.name, featureSet);
        }
        this.featureSets = Collections.unmodifiableMap(map);
    }

    public Map<String, FeatureSet> getFeatureSets() {
        return featureSets;
    }
}

```

```

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    List<String> names = new
ArrayList<>(this.featureSets.keySet()).stream().sorted().collect(Collectors.toList());
    for (String name : names) {
        builder.field(name, featureSets.get(name), params);
    }
    return builder.endObject();
}

```

```

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(featureSets.size());
    for (FeatureSet featureSet : featureSets.values()) {
        featureSet.writeTo(out);
    }
}

```

```

public static class FeatureSet implements ToXContentObject, Writeable {

```

```

    private final String name;
    @Nullable private final String description;
    private final boolean available;
    private final boolean enabled;
    @Nullable private final Map<String, Object> nativeCodeInfo;

```

```

    public FeatureSet(StreamInput in) throws IOException {
        this(in.readString(), in.readOptionalString(), in.readBoolean(), in.readBoolean(),
            in.getVersion().onOrAfter(Version.V_5_4_0) ? in.readMap() : null);
    }

```

```

    public FeatureSet(String name, @Nullable String description, boolean available, boolean enabled,
        @Nullable Map<String, Object> nativeCodeInfo) {
        this.name = name;
        this.description = description;
        this.available = available;
        this.enabled = enabled;
        this.nativeCodeInfo = nativeCodeInfo;
    }

```

```

    public String name() {
        return name;
    }

```

```

    @Nullable
    public String description() {
        return description;
    }

```

```

    }

    public boolean available() {
        return available;
    }

    public boolean enabled() {
        return enabled;
    }

    @Nullable
    public Map<String, Object> nativeCodeInfo() {
        return nativeCodeInfo;
    }

    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        builder.startObject();
        if (description != null) {
            builder.field("description", description);
        }
        builder.field("available", available);
        builder.field("enabled", enabled);
        if (nativeCodeInfo != null) {
            builder.field("native_code_info", nativeCodeInfo);
        }
        return builder.endObject();
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeString(name);
        out.writeOptionalString(description);
        out.writeBoolean(available);
        out.writeBoolean(enabled);
        if (out.getVersion().onOrAfter(Version.V_5_4_0)) {
            out.writeMap(nativeCodeInfo);
        }
    }
}
}
}

```

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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.test.ESTestCase;
```

```
import org.elasticsearch.watcher.FileWatcher;
```

```
import org.elasticsearch.watcher.ResourceWatcherService;
```

```
import org.junit.Before;
```

```
import java.nio.file.Path;
```

```
import static org.hamcrest.Matchers.equalTo;
```

```
import static org.mockito.Matchers.any;
```

```
import static org.mockito.Matchers.eq;
```

```
import static org.mockito.Mockito.mock;
```

```
import static org.mockito.Mockito.times;
```

```
import static org.mockito.Mockito.verify;
```

```
import static org.mockito.Mockito.verifyZeroInteractions;
```

```
public class LicenseOperationModeUpdateTests extends ESTestCase {
```

```
    private OperationModeFileWatcher operationModeFileWatcher;
```

```
    private Path licenseModeFile;
```

```
    private ResourceWatcherService resourceWatcherService;
```

```
    @Before
```

```
    public void init() throws Exception {
```

```
        licenseModeFile = createTempFile();
```

```
        resourceWatcherService = mock(ResourceWatcherService.class);
```

```
        operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, licenseModeFile,
```

```
logger, () -> {});
```

```
    }
```

```
    public void testLicenseOperationModeUpdate() throws Exception {
```

```
        String type = randomFrom("trial", "basic", "standard", "gold", "platinum");
```

```
        License license = License.builder()
```

```

        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type(type)
        .maxNodes(1)
        .build();

    assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
    OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
    license.setOperationModeFileWatcher(operationModeFileWatcher);
    verifyZeroInteractions(resourceWatcherService);
    assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
}

public void testCloudInternalLicenseOperationModeUpdate() throws Exception {
    License license = License.builder()
        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type("cloud_internal")
        .maxNodes(1)
        .build();

    assertThat(license.operationMode(), equalTo(License.OperationMode.PLATINUM));
    OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
    license.setOperationModeFileWatcher(operationModeFileWatcher);
    verify(resourceWatcherService, times(1)).add(any(FileWatcher.class),
    eq(ResourceWatcherService.Frequency.HIGH));
    assertThat(license.operationMode(), equalTo(License.OperationMode.GOLD));
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartBasicAction extends Action<PostStartBasicRequest, PostStartBasicResponse,
PostStartBasicRequestBuilder> {

```

```

public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();
public static final String NAME = "cluster:admin/xpack/license/start_basic";

private PostStartBasicAction() {
    super(NAME);
}

@Override
public PostStartBasicRequestBuilder newRequestBuilder(ElasticsearchClient client) {
    return new PostStartBasicRequestBuilder(client, this);
}

@Override
public PostStartBasicResponse newResponse() {
    return new PostStartBasicResponse();
}
}

```

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=====

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*/

package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;

public class FieldPermissionsCacheTests extends ESTestCase {

```
    public void testFieldPermissionsCaching() {  
        FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);  
        String[] allowed = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*",  
randomAlphaOfLength(5) + "*"};  
        String[] denied = new String[]{allowed[0] + randomAlphaOfLength(5), allowed[1] +  
randomAlphaOfLength(5),  
        allowed[2] + randomAlphaOfLength(5)};  
        FieldPermissions fieldPermissions = fieldPermissionsCache.getFieldPermissions(allowed, denied);
```

```

assertNotNull(fieldPermissions);
final String[] allowed2 = randomBoolean() ? allowed : Arrays.copyOf(allowed, allowed.length);
final String[] denied2 = randomBoolean() ? denied : Arrays.copyOf(denied, denied.length);
assertSame(fieldPermissions, fieldPermissionsCache.getFieldPermissions(allowed2, denied2));
}

public void testMergeFieldPermissions() {
    FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
    String allowedPrefix1 = randomAlphaOfLength(5);
    String allowedPrefix2 = randomAlphaOfLength(5);
    String[] allowed1 = new String[]{allowedPrefix1 + "*"};
    String[] allowed2 = new String[]{allowedPrefix2 + "*"};
    String[] denied1 = new String[]{allowedPrefix1 + "a"};
    String[] denied2 = new String[]{allowedPrefix2 + "a"};
    FieldPermissions fieldPermissions1 = randomBoolean() ?
fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
        new FieldPermissions(fieldPermissionDef(allowed1, denied1));
    FieldPermissions fieldPermissions2 = randomBoolean() ?
fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
        new FieldPermissions(fieldPermissionDef(allowed2, denied2));
    FieldPermissions mergedFieldPermissions =
        fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
    assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix1 + "b"));
    assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix2 + "b"));
    assertFalse(mergedFieldPermissions.grantsAccessTo(denied1[0]));
    assertFalse(mergedFieldPermissions.grantsAccessTo(denied2[0]));

    allowed1 = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
    allowed2 = null;
    denied1 = new String[]{allowed1[0] + "a", allowed1[1] + "a"};
    denied2 = null;
    fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
        new FieldPermissions(fieldPermissionDef(allowed1, denied1));
    fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
        new FieldPermissions(fieldPermissionDef(allowed2, denied2));
    mergedFieldPermissions =
        fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
    assertFalse(mergedFieldPermissions.hasFieldLevelSecurity());

    allowed1 = new String[]{};
    allowed2 = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
    denied1 = new String[]{};
    denied2 = new String[]{allowed2[0] + "a", allowed2[1] + "a"};
    fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
        new FieldPermissions(fieldPermissionDef(allowed1, denied1));
    fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
        new FieldPermissions(fieldPermissionDef(allowed2, denied2));
    mergedFieldPermissions =

```

```

        fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
    for (String field : allowed2) {
        assertTrue(mergedFieldPermissions.grantsAccessTo(field));
    }
    for (String field : denied2) {
        assertFalse(mergedFieldPermissions.grantsAccessTo(field));
    }

    allowed1 = randomBoolean() ? null : new String[]{"*"};
    allowed2 = randomBoolean() ? null : new String[]{"*"};
    denied1 = new String[]{"a"};
    denied2 = new String[]{"b"};
    fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
        new FieldPermissions(fieldPermissionDef(allowed1, denied1));
    fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
        new FieldPermissions(fieldPermissionDef(allowed2, denied2));
    mergedFieldPermissions =
        fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
    assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
    assertTrue(mergedFieldPermissions.grantsAccessTo("b"));

    // test merge does not remove _all
    allowed1 = new String[]{"_all"};
    allowed2 = new String[]{};
    denied1 = null;
    denied2 = null;
    fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
        new FieldPermissions(fieldPermissionDef(allowed1, denied1));
    fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
        new FieldPermissions(fieldPermissionDef(allowed2, denied2));
    mergedFieldPermissions =
        fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
    assertTrue(fieldPermissions1.grantsAccessTo("_all"));
    assertFalse(fieldPermissions2.grantsAccessTo("_all"));
    assertTrue(mergedFieldPermissions.grantsAccessTo("_all"));

    allowed1 = new String[] { "a*" };
    allowed2 = new String[] { "b*" };
    denied1 = new String[] { "aa*" };
    denied2 = null;
    fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
        new FieldPermissions(fieldPermissionDef(allowed1, denied1));
    fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
        new FieldPermissions(fieldPermissionDef(allowed2, denied2));
    mergedFieldPermissions =
        fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
    assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
    assertTrue(mergedFieldPermissions.grantsAccessTo("b"));

```

```

    assertFalse(mergedFieldPermissions.grantsAccessTo("aa"));
    assertFalse(mergedFieldPermissions.grantsAccessTo("aa1"));
    assertTrue(mergedFieldPermissions.grantsAccessTo("a1"));
}

public void testNonFlsAndFlsMerging() {
    List<FieldPermissions> permissionsList = new ArrayList<>();
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1"}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field2", "query*"}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1", "field2"}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {}, null)));
    permissionsList.add(new FieldPermissions(fieldPermissionDef(null, null)));

    FieldPermissionsCache cache = new FieldPermissionsCache(Settings.EMPTY);
    for (int i = 0; i < scaledRandomIntBetween(1, 12); i++) {
        Collections.shuffle(permissionsList, random());
        FieldPermissions result = cache.getFieldPermissions(permissionsList);
        assertFalse(result.hasFieldLevelSecurity());
    }
}

private static FieldPermissionsDefinition fieldPermissionDef(String[] granted, String[] denied) {
    return new FieldPermissionsDefinition(granted, denied);
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.XContentType;

/**
 * Register license request builder
 */
public class PutLicenseRequestBuilder extends AcknowledgedRequestBuilder<PutLicenseRequest,
PutLicenseResponse, PutLicenseRequestBuilder> {

    public PutLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, PutLicenseAction.INSTANCE);
    }
}

/**

```

```

* Constructs register license request
*
* @param client elasticsearch client
*/
public PutLicenseRequestBuilder(ElasticsearchClient client, PutLicenseAction action) {
    super(client, action, new PutLicenseRequest());
}

/**
* Sets the license
*
* @param license license
* @return this builder
*/
public PutLicenseRequestBuilder setLicense(License license) {
    request.license(license);
    return this;
}

public PutLicenseRequestBuilder setLicense(BytesReference licenseSource, XContentType xContentType) {
    request.license(licenseSource, xContentType);
    return this;
}

public PutLicenseRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}
}

```

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May 22, 2015

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package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackSettings;

import java.util.Arrays;
import java.util.Collection;
import java.util.concurrent.CountDownLatch;

public abstract class AbstractLicensesIntegrationTestCase extends ESIntegTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), false).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, CommonAnalysisPlugin.class);
    }
}

```

```

@Override
protected Settings transportClientSettings() {
    // Plugin should be loaded on the transport client as well
    return nodeSettings(0);
}

protected void putLicense(final License license) throws InterruptedException {
    final CountdownLatch latch = new CountdownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        Metadata.Builder mdBuilder = Metadata.builder(currentState.metadata());
        mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
        return ClusterState.builder(currentState).metadata(mdBuilder).build();
    }

    @Override
    public void onFailure(String source, @Nullable Exception e) {
        logger.error("error on metaData cleanup after test", e);
    }
});
latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountdownLatch latch = new CountdownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        Metadata.Builder mdBuilder = Metadata.builder(currentState.metadata());

```

```

        mdBuilder.removeCustom(LicensesMetaData.TYPE);
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    }

    @Override
    public void onFailure(String source, @Nullable Exception e) {
        logger.error("error on metaData cleanup after test", e);
    }
});
latch.await();
}

protected void assertLicenseActive(boolean active) throws InterruptedException {
    boolean success = awaitBusy() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.isActive() == active) {
                return true;
            }
        }
        return false;
    };
    assertTrue(success);
}

}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetBasicStatusAction extends Action<GetBasicStatusRequest, GetBasicStatusResponse,
GetBasicStatusRequestBuilder> {

    public static final GetBasicStatusAction INSTANCE = new GetBasicStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/basic_status";

    private GetBasicStatusAction() {
        super(NAME);
    }

    @Override
    public GetBasicStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetBasicStatusRequestBuilder(client, this);
    }
}

```

```
}

@Override
public GetBasicStatusResponse newResponse() {
    return new GetBasicStatusResponse();
}
}
// -----
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// -----

Apache Extras for Apache log4j.
```

From: 'an unknown organization'
- geronimo-jms_1.1_spec org.apache.geronimo.specs:geronimo-jms_1.1_spec:jar:1.0

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```

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.Metadata;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.junit.After;
import org.junit.Before;
import org.mockito.ArgumentCaptor;

import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseClusterChangeTests extends AbstractLicenseServiceTestCase {

    private TestUtils.AssertingLicenseState licenseState;

    @Before
    public void setup() {
        licenseState = new TestUtils.AssertingLicenseState();
        setInitialState(null, licenseState, Settings.EMPTY);
        licenseService.start();
    }

    @After
    public void teardown() {
        licenseService.stop();
    }

    public void testNotificationOnNewLicense() throws Exception {
        ClusterState oldState = ClusterState.builder(new ClusterName("a")).build();

```

```

        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        Metadata metaData = Metadata.builder().putCustom(LicensesMetaData.TYPE, new
LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(1));
        assertTrue(licenseState.activeUpdates.get(0));
    }

    public void testNoNotificationOnExistingLicense() throws Exception {
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        Metadata metaData = Metadata.builder().putCustom(LicensesMetaData.TYPE, new
LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        ClusterState oldState = ClusterState.builder(newState).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(0));
    }

    public void testSelfGeneratedLicenseGeneration() throws Exception {
        DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(),
Version.CURRENT);
        ClusterState oldState = ClusterState.builder(new ClusterName("a"))
            .nodes(DiscoveryNodes.builder().masterNodeId(master.getId()).add(master)).build();
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        ClusterState newState = ClusterState.builder(oldState).nodes(discoveryNodes).build();

        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(newState);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertEquals(licenseType, licenseMetaData.getLicense().type());
        long expiration;
        if (licenseType.equals("basic")) {
            expiration = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
        } else {
            expiration = LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis() +
clock.millis();
        }
        assertEquals(expiration, licenseMetaData.getLicense().expiryDate());
    }
}
/*
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```

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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.ElasticsearchSecurityException;
```

```
import org.elasticsearch.rest.RestStatus;
```

```
public class LicenseUtils {
```

```
    public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";
```

```
    /**
```

```
     * Exception to be thrown when a feature action requires a valid license, but license
```

```
     * has expired
```

```
     *
```

```
     * <code>feature</code> accessible through { @link #EXPIRED_FEATURE_METADATA } in the
```

```
     * exception's rest header
```

```
     */
```

```
    public static ElasticsearchSecurityException newComplianceException(String feature) {
```

```
        ElasticsearchSecurityException e = new ElasticsearchSecurityException("current license is non-compliant for  
[{}]",
```

```
            RestStatus.FORBIDDEN, feature);
```

```
        e.addMetadata(EXPIRED_FEATURE_METADATA, feature);
```

```
        return e;
```

```
    }
```

```
    /**
```

```
     * Checks if a given { @link ElasticsearchSecurityException } refers to a feature that
```

```
     * requires a valid license, but the license has expired.
```

```
     */
```

```
    public static boolean isLicenseExpiredException(ElasticsearchSecurityException exception) {
```

```
        return (exception != null) && (exception.getMetadata(EXPIRED_FEATURE_METADATA) != null);
```

```
    }
```

```
    public static boolean licenseNeedsExtended(License license) {
```

```
        return "basic".equals(license.type()) && license.expiryDate() !=
```

```
LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
```

```
    }
```

```
}
```

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*/

```

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;

import java.util.Arrays;
import java.util.function.Predicate;
import java.util.stream.Collectors;

import static org.elasticsearch.license.License.OperationMode.BASIC;
import static org.elasticsearch.license.License.OperationMode.GOLD;
import static org.elasticsearch.license.License.OperationMode.MISSING;
import static org.elasticsearch.license.License.OperationMode.PLATINUM;
import static org.elasticsearch.license.License.OperationMode.STANDARD;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.hamcrest.Matchers.is;

/**
 * Unit tests for the {@link XPackLicenseState}
 */
public class XPackLicenseStateTests extends ESTestCase {

    /** Creates a license state with the given license type and active state, and checks the given method returns
    expected. */
    void assertAllowed(OperationMode mode, boolean active, Predicate<XPackLicenseState> predicate, boolean
    expected) {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        licenseState.update(mode, active);
        assertEquals(expected, predicate.test(licenseState));
    }

    /**
     * Checks the ack message going from the {@code from} license type to {@code to} license type.
     * TODO: check the actual messages, not just the number of them! This was copied from previous license tests...
     */
    void assertAckMessages(String feature, OperationMode from, OperationMode to, int expectedMessages) {
        String[] gotMessages = XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.get(feature).apply(from, to);
        assertEquals(expectedMessages, gotMessages.length);
    }

    static <T> T randomFrom(T[] values, Predicate<T> filter) {
        return randomFrom(Arrays.stream(values).filter(filter).collect(Collectors.toList()));
    }

    static OperationMode randomMode() {

```

```

    return randomFrom(OperationMode.values());
}

public static OperationMode randomTrialStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomTrialOrPlatinumMode() {
    return randomFrom(TRIAL, PLATINUM);
}

public static OperationMode randomTrialBasicStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, BASIC, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomBasicStandardOrGold() {
    return randomFrom(BASIC, STANDARD, GOLD);
}

public void testSecurityDefaults() {
    XPackLicenseState licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(),
true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.TRANSPORT_SSL_ENABLED.getKey(),
true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
}

```

```

    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, true);

    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(BASIC, false);

    assertThat(licenseState.isAuthAllowed(), is(false));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(STANDARD, true);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(false));
    assertThat(licenseState.isAuditingAllowed(), is(false));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,

```

```

        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build());
licenseState.update(STANDARD, false);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(GOLD, true);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(GOLD, false);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(PLATINUM, true);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));

```

```

    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
        Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, false);

    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode !=
STANDARD);
    assertAckMessages(XPackField.SECURITY, BASIC, toMode, 0);
}

public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSecurityAckTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}

public void testSecurityAckAnyToStandard() {
    OperationMode from = randomFrom(BASIC, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.SECURITY, from, STANDARD, 4);
}

public void testSecurityAckBasicStandardTrialOrPlatinumToGold() {
    OperationMode from = randomFrom(BASIC, PLATINUM, TRIAL, STANDARD);
    assertAckMessages(XPackField.SECURITY, from, GOLD, 2);
}

public void testMonitoringAckBasicToAny() {
    assertAckMessages(XPackField.MONITORING, BASIC, randomMode(), 0);
}

```

```

public void testMonitoringAckAnyToTrialGoldOrPlatinum() {
    assertAckMessages(XPackField.MONITORING, randomMode(),
randomTrialStandardGoldOrPlatinumMode(), 0);
}

public void testMonitoringAckNotBasicToBasic() {
    OperationMode from = randomFrom(STANDARD, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.MONITORING, from, BASIC, 2);
}

public void testMonitoringAllowed() {
    assertAllowed(randomMode(), true, XPackLicenseState::isMonitoringAllowed, true);
    assertAllowed(randomMode(), false, XPackLicenseState::isMonitoringAllowed, false);
}

public void testMonitoringUpdateRetention() {
    assertAllowed(STANDARD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(TRIAL, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(BASIC, true, XPackLicenseState::isUpdateRetentionAllowed, false);
    assertAllowed(MISSING, false, XPackLicenseState::isUpdateRetentionAllowed, false);
}

public void testWatcherPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isWatcherAllowed, true);
}

public void testWatcherBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testGraphPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isGraphAllowed, true);
}

```

```

    assertAllowed(PLATINUM, true, XPackLicenseState::isGraphAllowed, true);
}

public void testGraphBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isMachineLearningAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testLogstashPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isLogstashAllowed, true);
}

```

```

public void testLogstashBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isLogstashAllowed, false);
}

public void testLogstashInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(TRIAL, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isLogstashAllowed, false);
}

public void testSqlDefaults() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
}

```

```

    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlAckAnyToTrialOrPlatinum() {
    assertThatAckMessages(XPackField.SQL, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSqlAckTrialOrPlatinumToNotTrialOrPlatinum() {
    assertThatAckMessages(XPackField.SQL, randomTrialOrPlatinumMode(), randomBasicStandardOrGold(), 1);
}
}
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```

```

*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequest;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.settings.ClusterSettings;
import org.elasticsearch.common.settings.IndexScopedSettings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.SettingsFilter;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.plugins.ActionPlugin;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestController;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;

import static org.elasticsearch.xpack.core.XPackClientActionPlugin.isTribeNode;
import static org.elasticsearch.xpack.core.XPackPlugin.transportClientMode;

public class Licensing implements ActionPlugin {

    public static final String NAME = "license";
    protected final Settings settings;
    private final boolean isTransportClient;
    private final boolean isTribeNode;

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
    to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedWriteableRegistry.Entry> getNamedWriteables() {
        List<NamedWriteableRegistry.Entry> entries = new ArrayList<>();
        entries.add(new NamedWriteableRegistry.Entry(MetaData.Custom.class, LicensesMetaData.TYPE,
LicensesMetaData::new));
        entries.add(new NamedWriteableRegistry.Entry(NamedDiff.class, LicensesMetaData.TYPE,
LicensesMetaData::readDiffFrom));
        return entries;
    }
}

```

```

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
// are also carried out in XPackClientPlugin.java
public List<NamedXContentRegistry.Entry> getNamedXContent() {
    List<NamedXContentRegistry.Entry> entries = new ArrayList<>();
    // Metadata
    entries.add(new NamedXContentRegistry.Entry(MetaData.Custom.class, new
ParseField(LicensesMetaData.TYPE),
        LicensesMetaData::fromXContent));
    return entries;
}

public Licensing(Settings settings) {
    this.settings = settings;
    isTransportClient = transportClientMode(settings);
    isTribeNode = isTribeNode(settings);
}

@Override
public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
    if (isTribeNode) {
        return Collections.singletonList(new ActionHandler<>(GetLicenseAction.INSTANCE,
TransportGetLicenseAction.class));
    }
    return Arrays.asList(new ActionHandler<>(PutLicenseAction.INSTANCE, TransportPutLicenseAction.class),
        new ActionHandler<>(GetLicenseAction.INSTANCE, TransportGetLicenseAction.class),
        new ActionHandler<>(DeleteLicenseAction.INSTANCE, TransportDeleteLicenseAction.class),
        new ActionHandler<>(PostStartTrialAction.INSTANCE, TransportPostStartTrialAction.class),
        new ActionHandler<>(GetTrialStatusAction.INSTANCE, TransportGetTrialStatusAction.class),
        new ActionHandler<>(PostStartBasicAction.INSTANCE, TransportPostStartBasicAction.class),
        new ActionHandler<>(GetBasicStatusAction.INSTANCE, TransportGetBasicStatusAction.class));
}

@Override
public List<RestHandler> getRestHandlers(Settings settings, RestController restController, ClusterSettings
clusterSettings,
    IndexScopedSettings indexScopedSettings, SettingsFilter settingsFilter, IndexNameExpressionResolver
indexNameExpressionResolver,
    Supplier<DiscoveryNodes> nodesInCluster) {
    List<RestHandler> handlers = new ArrayList<>();
    handlers.add(new RestGetLicenseAction(settings, restController));
    if (false == isTribeNode) {
        handlers.add(new RestPutLicenseAction(settings, restController));
        handlers.add(new RestDeleteLicenseAction(settings, restController));
        handlers.add(new RestGetTrialStatus(settings, restController));
        handlers.add(new RestGetBasicStatus(settings, restController));
        handlers.add(new RestPostStartTrialLicense(settings, restController));
    }
}

```

```

        handlers.add(new RestPostStartBasicLicense(settings, restController));
    }
    return handlers;
}

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
// are also carried out in XPackClientPlugin.java
public List<Setting<?>> getSettings() {
    // TODO convert this wildcard to a real setting
    return Collections.singletonList(Setting.groupSetting("license.", Setting.Property.NodeScope));
}
}

```

The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (<https://github.com/jpountz>)
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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
```

```
import org.elasticsearch.client.ElasticsearchClient;
```

```
public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest, GetLicenseResponse,
```

```
    GetLicenseRequestBuilder> {
```

```
    public GetLicenseRequestBuilder(ElasticsearchClient client) {
```

```
        this(client, GetLicenseAction.INSTANCE);
```

```
    }
```

```
/**
```

```
 * Creates new get licenses request builder
```

```
 *
```

```
 * @param client elasticsearch client
```

```
 */
```

```
public GetLicenseRequestBuilder(ElasticsearchClient client, GetLicenseAction action) {
```

```
    super(client, action, new GetLicenseRequest());
```

```
}
```

```
}
```

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`src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java`

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*/

`package org.elasticsearch.license;`

`import org.elasticsearch.action.ActionRequestValidationException;`

`import org.elasticsearch.action.support.master.MasterNodeReadRequest;`

`public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {`

`public GetLicenseRequest() {`
 `}`

`@Override`

`public ActionRequestValidationException validate() {`

```
    return null;
  }
}
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```

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*/

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import org.elasticsearch.action.ActionListener;

import org.elasticsearch.action.support.ActionFilters;

import org.elasticsearch.action.support.master.TransportMasterNodeAction;

import org.elasticsearch.cluster.ClusterState;

import org.elasticsearch.cluster.block.ClusterBlockException;

import org.elasticsearch.cluster.block.ClusterBlockLevel;

import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;

import org.elasticsearch.cluster.service.ClusterService;

import org.elasticsearch.common.inject.Inject;

import org.elasticsearch.common.settings.Settings;

import org.elasticsearch.threadpool.ThreadPool;

import org.elasticsearch.transport.TransportService;

public class TransportPostStartTrialAction extends TransportMasterNodeAction<PostStartTrialRequest,
PostStartTrialResponse> {

private final LicenseService licenseService;

@Inject

public TransportPostStartTrialAction(Settings settings, TransportService transportService, ClusterService
clusterService,

LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,

IndexNameExpressionResolver indexNameExpressionResolver) {

super(settings, PostStartTrialAction.NAME, transportService, clusterService, threadPool, actionFilters,

indexNameExpressionResolver, PostStartTrialRequest::new);

this.licenseService = licenseService;

}

@Override

protected String executor() {

return ThreadPool.Names.SAME;

}

@Override

protected PostStartTrialResponse newResponse() {

return new PostStartTrialResponse();

}

@Override

```

protected void masterOperation(PostStartTrialRequest request, ClusterState state,
    ActionListener<PostStartTrialResponse> listener) throws Exception {
    licenseService.startTrialLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartTrialRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}
}
/*

```

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*/

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```
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
```

```
import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
```

```
import static org.elasticsearch.rest.RestRequest.Method.GET;
import static org.elasticsearch.rest.RestStatus.NOT_FOUND;
```

```

import static org.elasticsearch.rest.RestStatus.OK;

public class RestGetLicenseAction extends XPackRestHandler {

    @Inject
    public RestGetLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(GET, URI_BASE + "/license", this,
            GET, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(GET, "/_licenses", this,
            "[GET /_licenses] is deprecated! Use " +
            "[GET /_xpack/license] instead.",
            deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_get_license_action";
    }

    /**
     * There will be only one license displayed per feature, the selected license will have the latest expiry_date
     * out of all other licenses for the feature.
     * <p>
     * The licenses are sorted by latest issue_date
     */
    @Override
    public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
    IOException {
        final Map<String, String> overrideParams = new HashMap<>(2);
        overrideParams.put(License.REST_VIEW_MODE, "true");
        overrideParams.put(License.LICENSE_VERSION_MODE, String.valueOf(License.VERSION_CURRENT));
        final ToXContent.Params params = new ToXContent.DelegatingMapParams(overrideParams, request);
        GetLicenseRequest getLicenseRequest = new GetLicenseRequest();
        getLicenseRequest.local(request.paramAsBoolean("local", getLicenseRequest.local()));
        return channel -> client.es().admin().cluster().execute(GetLicenseAction.INSTANCE, getLicenseRequest,
            new RestBuilderListener<GetLicenseResponse>(channel) {
                @Override
                public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws
                Exception {
                    // Default to pretty printing, but allow ?pretty=false to disable
                    if (!request.hasParam("pretty")) {
                        builder.prettyPrint().IfAtEnd();
                    }
                    boolean hasLicense = response.license() != null;
                }
            });
    }
}

```


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```
/*
```

```
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```

```
*/
```

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.common.settings.Settings;  
import org.elasticsearch.common.xcontent.ToXContent;  
import org.elasticsearch.common.xcontent.XContentBuilder;  
import org.elasticsearch.rest.BytesRestResponse;  
import org.elasticsearch.rest.RestController;  
import org.elasticsearch.rest.RestRequest;  
import org.elasticsearch.rest.RestResponse;  
import org.elasticsearch.rest.action.RestBuilderListener;  
import org.elasticsearch.xpack.core.XPackClient;  
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
```

```
import java.io.IOException;
```

```
import static org.elasticsearch.rest.RestRequest.Method.POST;
```

```
public class RestPostStartBasicLicense extends XPackRestHandler {
```

```

RestPostStartBasicLicense(Settings settings, RestController controller) {
    super(settings);
    controller.registerHandler(POST, URI_BASE + "/license/start_basic", this);
}

@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
{
    PostStartBasicRequest startBasicRequest = new PostStartBasicRequest();
    startBasicRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
    startBasicRequest.timeout(request.paramAsTime("timeout", startBasicRequest.timeout()));
    startBasicRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
startBasicRequest.masterNodeTimeout()));
    return channel -> client.licensing().postStartBasic(startBasicRequest, new
RestBuilderListener<PostStartBasicResponse>(channel) {
        @Override
        public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws
Exception {
            PostStartBasicResponse.Status status = response.getStatus();
            response.toXContent(builder, ToXContent.EMPTY_PARAMS);
            return new BytesRestResponse(status.getRestStatus(), builder);
        }
    });
}

@Override
public String getName() {
    return "xpack_start_basic_action";
}
}
[role="xpack"]
[testenv="basic"]
[[get-license]]
=== Get License API

```

This API enables you to retrieve licensing information.

```

[float]
===== Request

```

```

`GET /_xpack/license`

```

```

[float]
===== Description

```

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see <https://www.elastic.co/subscriptions>.

[float]

==== Query Parameters

``local`::`

(boolean) Specifies whether to retrieve local information. The default value is ``false``, which means the information is retrieved from the master node.

[float]

==== Authorization

You must have ``monitor`` cluster privileges to use this API.

For more information, see

[{xpack-ref}/security-privileges.html\[Security Privileges\]](#).

[float]

==== Examples

The following example provides information about a basic license:

[source,js]

GET _xpack/license

// CONSOLE

[source,js]

{
 "license" : {
 "status" : "active",
 "uid" : "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
 "type" : "basic",
 "issue_date" : "2018-02-22T23:12:05.550Z",
 "issue_date_in_millis" : 1519341125550,
 "max_nodes" : 1000,
 "issued_to" : "test",
 "issuer" : "elasticsearch",
 "start_date_in_millis" : -1
 }
}

// TESTRESPONSE[s/"cbff45e7-c553-41f7-ae4f-9205eabd80xx"/\$body.license.uid/]
// TESTRESPONSE[s/"basic"/\$body.license.type/]
// TESTRESPONSE[s/"2018-02-22T23:12:05.550Z"/\$body.license.issue_date/]
// TESTRESPONSE[s/1519341125550/\$body.license.issue_date_in_millis/]
// TESTRESPONSE[s/1000/\$body.license.max_nodes/]
// TESTRESPONSE[s/"test"/\$body.license.issued_to/]
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/*

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*/

package org.elasticsearch.license;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Base64;
import java.util.Comparator;
import java.util.List;
import java.util.Locale;

import org.apache.lucene.util.CollectionUtil;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;

/**

* Data structure for license. Use {@link Builder} to build a license.
* Provides serialization/deserialization & validation methods for license object

*/

```
public class License implements ToXContentObject {  
    public static final int VERSION_START = 1;
```

```

public static final int VERSION_NO_FEATURE_TYPE = 2;
public static final int VERSION_START_DATE = 3;
public static final int VERSION_CURRENT = VERSION_START_DATE;

/**
 * XContent param name to deserialize license(s) with
 * an additional <code>status</code> field, indicating whether a
 * particular license is 'active' or 'expired' and no signature
 * and in a human readable format
 */
public static final String REST_VIEW_MODE = "rest_view";
/**
 * XContent param name to deserialize license(s) with
 * no signature
 */
public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";
/**
 * XContent param name to deserialize licenses according
 * to a specific license version
 */
public static final String LICENSE_VERSION_MODE = "license_version";

public static final Comparator<License> LATEST_ISSUE_DATE_FIRST =
Comparator.comparing(License::issueDate).reversed();

private final int version;
private final String uid;
private final String issuer;
private final String issuedTo;
private final long issueDate;
private final String type;
private final String subscriptionType;
private final String feature;
private final String signature;
private final long expiryDate;
private final long startDate;
private final int maxNodes;
private final OperationMode operationMode;

/**
 * Decouples operation mode of a license from the license type value.
 * <p>
 * Note: The mode indicates features that should be made available, but it does not indicate whether the license is
active!
 *
 * The id byte is used for ordering operation modes (used for merging license md in tribe node)
 */
public enum OperationMode {

```

```

MISSING((byte) 0),
TRIAL((byte) 1),
BASIC((byte) 2),
STANDARD((byte) 3),
GOLD((byte) 4),
PLATINUM((byte) 5);

private final byte id;

OperationMode(byte id) {
    this.id = id;
}

/** Returns non-zero positive number when <code>opMode1</code> is greater than <code>opMode2</code>
*/
public static int compare(OperationMode opMode1, OperationMode opMode2) {
    return Integer.compare(opMode1.id, opMode2.id);
}

public static OperationMode resolve(String type) {
    switch (type.toLowerCase(Locale.ROOT)) {
        case "missing":
            return MISSING;
        case "trial":
        case "none": // bwc for 1.x subscription_type field
        case "dev": // bwc for 1.x subscription_type field
        case "development": // bwc for 1.x subscription_type field
            return TRIAL;
        case "basic":
            return BASIC;
        case "standard":
            return STANDARD;
        case "silver":
        case "gold":
            return GOLD;
        case "platinum":
        case "cloud_internal":
        case "internal": // bwc for 1.x subscription_type field
            return PLATINUM;
        default:
            throw new IllegalArgumentException("unknown type [" + type + "]");
    }
}

private License(int version, String uid, String issuer, String issuedTo, long issueDate, String type,
                String subscriptionType, String feature, String signature, long expiryDate, int maxNodes, long startDate)
{

```

```

this.version = version;
this.uid = uid;
this.issuer = issuer;
this.issuedTo = issuedTo;
this.issueDate = issueDate;
this.type = type;
this.subscriptionType = subscriptionType;
this.feature = feature;
this.signature = signature;
// We will validate that only a basic license can have the
BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
// in the validate() method.
if (expiryDate == -1) {
    this.expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    this.expiryDate = expiryDate;
}
this.maxNodes = maxNodes;
this.startDate = startDate;
if (version == VERSION_START) {
    // in 1.x: the acceptable values for 'subscription_type': none | dev | silver | gold | platinum
    this.operationMode = OperationMode.resolve(subscriptionType);
} else {
    // in 2.x: the acceptable values for 'type': trial | basic | silver | dev | gold | platinum
    this.operationMode = OperationMode.resolve(type);
}
validate();
}

/**
 * @return version of the license
 */
public int version() {
    return version;
}

/**
 * @return a unique identifier for a license
 */
public String uid() {
    return uid;
}

/**
 * @return type of the license [trial, subscription, internal]
 */
public String type() {
    return type;
}

```

```

}

/**
 * @return the issueDate in milliseconds
 */
public long issueDate() {
    return issueDate;
}

/**
 * @return the startDate in milliseconds
 */
public long startDate() {
    return startDate;
}

/**
 * @return the expiry date in milliseconds
 */
public long expiryDate() {
    return expiryDate;
}

/**
 * @return the maximum number of nodes this license has been issued for
 */
public int maxNodes() {
    return maxNodes;
}

/**
 * @return a string representing the entity this licenses has been issued to
 */
public String issuedTo() {
    return issuedTo;
}

/**
 * @return a string representing the entity responsible for issuing this license (internal)
 */
public String issuer() {
    return issuer;
}

/**
 * @return a string representing the signature of the license used for license verification
 */
public String signature() {

```

```

    return signature;
}

/**
 * @return the operation mode of the license as computed from the license type or from
 * the license mode file
 */
public OperationMode operationMode() {
    synchronized (this) {
        if (canReadOperationModeFromFile() && operationModeFileWatcher != null) {
            return operationModeFileWatcher.getCurrentOperationMode();
        }
    }
    return operationMode;
}

private boolean canReadOperationModeFromFile() {
    return type.equals("cloud_internal");
}

private volatile OperationModeFileWatcher operationModeFileWatcher;

/**
 * Sets the operation mode file watcher for the license and initializes the
 * file watcher when the license type allows to override operation mode from file
 */
public synchronized void setOperationModeFileWatcher(final OperationModeFileWatcher
operationModeFileWatcher) {
    this.operationModeFileWatcher = operationModeFileWatcher;
    if (canReadOperationModeFromFile()) {
        this.operationModeFileWatcher.init();
    }
}

/**
 * Removes operation mode file watcher, so unused license objects can be gc'ed
 */
public synchronized void removeOperationModeFileWatcher() {
    this.operationModeFileWatcher = null;
}

/**
 * @return the current license's status
 */
public Status status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return Status.INVALID;
    }
}

```

```

    } else if (expiryDate < now) {
        return Status.EXPIRED;
    }
    return Status.ACTIVE;
}

private void validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (subscriptionType == null && version == VERSION_START) {
        throw new IllegalStateException("subscriptionType can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (feature == null && version == VERSION_START) {
        throw new IllegalStateException("feature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    } else if (expiryDate == LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
&& "basic".equals(type) == false) {
        throw new IllegalStateException("only basic licenses are allowed to have no expiration");
    }
}

public static License readLicense(StreamInput in) throws IOException {
    int version = in.readVInt(); // Version for future extensibility
    if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
elasticsearch-license" +
        " plugin");
    }
    Builder builder = builder();
    builder.version(version);
    builder.uid(in.readString());
    builder.type(in.readString());
    if (version == VERSION_START) {
        builder.subscriptionType(in.readString());
    }
    builder.issueDate(in.readLong());
    if (version == VERSION_START) {
        builder.feature(in.readString());
    }
}

```

```

    }
    builder.expiryDate(in.readLong());
    builder.maxNodes(in.readInt());
    builder.issuedTo(in.readString());
    builder.issuer(in.readString());
    builder.signature(in.readOptionalString());
    if (version >= VERSION_START_DATE) {
        builder.startDate(in.readLong());
    }
    return builder.build();
}

```

```

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(version);
    out.writeString(uid);
    out.writeString(type);
    if (version == VERSION_START) {
        out.writeString(subscriptionType);
    }
    out.writeLong(issueDate);
    if (version == VERSION_START) {
        out.writeString(feature);
    }
    out.writeLong(expiryDate);
    out.writeInt(maxNodes);
    out.writeString(issuedTo);
    out.writeString(issuer);
    out.writeOptionalString(signature);
    if (version >= VERSION_START_DATE) {
        out.writeLong(startDate);
    }
}

```

```

@Override
public String toString() {
    try {
        final XContentBuilder builder = XContentFactory.jsonBuilder();
        toXContent(builder, ToXContent.EMPTY_PARAMS);
        return Strings.toString(builder);
    } catch (IOException e) {
        return "";
    }
}

```

```

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    toInnerXContent(builder, params);
}

```

```

builder.endObject();
return builder;
}

public XContentBuilder toInnerXContent(XContentBuilder builder, Params params) throws IOException {
    boolean licenseSpecMode = params.paramAsBoolean(LICENSE_SPEC_VIEW_MODE, false);
    boolean restViewMode = params.paramAsBoolean(REST_VIEW_MODE, false);
    boolean previouslyHumanReadable = builder.humanReadable();
    if (licenseSpecMode && restViewMode) {
        throw new IllegalArgumentException("can have either " + REST_VIEW_MODE + " or " +
LICENSE_SPEC_VIEW_MODE);
    } else if (restViewMode) {
        if (!previouslyHumanReadable) {
            builder.humanReadable(true);
        }
    }
    final int version;
    if (params.param(LICENSE_VERSION_MODE) != null && restViewMode) {
        version = Integer.parseInt(params.param(LICENSE_VERSION_MODE));
    } else {
        version = this.version;
    }
    if (restViewMode) {
        builder.field(Fields.STATUS, status().label());
    }
    builder.field(Fields.UID, uid);
    builder.field(Fields.TYPE, type);
    if (version == VERSION_START) {
        builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
    }
    builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
    if (version == VERSION_START) {
        builder.field(Fields.FEATURE, feature);
    }

    if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
    }
    builder.field(Fields.MAX_NODES, maxNodes);
    builder.field(Fields.ISSUED_TO, issuedTo);
    builder.field(Fields.ISSUER, issuer);
    if (!licenseSpecMode && !restViewMode && signature != null) {
        builder.field(Fields.SIGNATURE, signature);
    }
    if (restViewMode) {
        builder.humanReadable(previouslyHumanReadable);
    }
    if (version >= VERSION_START_DATE) {

```

```

        builder.timeField(Fields.START_DATE_IN_MILLIS, Fields.START_DATE, startDate);
    }
    return builder;
}

```

```

public static License fromXContent(XContentParser parser) throws IOException {
    Builder builder = new Builder();
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String currentFieldName = parser.currentName();
            token = parser.nextToken();
            if (token.isValue()) {
                if (Fields.UID.equals(currentFieldName)) {
                    builder.uid(parser.text());
                } else if (Fields.TYPE.equals(currentFieldName)) {
                    builder.type(parser.text());
                } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                    builder.subscriptionType(parser.text());
                } else if (Fields.ISSUE_DATE.equals(currentFieldName)) {
                    builder.issueDate(parseDate(parser, "issue", false));
                } else if (Fields.ISSUE_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.issueDate(parser.longValue());
                } else if (Fields.FEATURE.equals(currentFieldName)) {
                    builder.feature(parser.text());
                } else if (Fields.EXPIRY_DATE.equals(currentFieldName)) {
                    builder.expiryDate(parseDate(parser, "expiration", true));
                } else if (Fields.EXPIRY_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.expiryDate(parser.longValue());
                } else if (Fields.START_DATE.equals(currentFieldName)) {
                    builder.startDate(parseDate(parser, "start", false));
                } else if (Fields.START_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.startDate(parser.longValue());
                } else if (Fields.MAX_NODES.equals(currentFieldName)) {
                    builder.maxNodes(parser.intValue());
                } else if (Fields.ISSUED_TO.equals(currentFieldName)) {
                    builder.issuedTo(parser.text());
                } else if (Fields.ISSUER.equals(currentFieldName)) {
                    builder.issuer(parser.text());
                } else if (Fields.SIGNATURE.equals(currentFieldName)) {
                    builder.signature(parser.text());
                } else if (Fields.VERSION.equals(currentFieldName)) {
                    builder.version(parser.intValue());
                }
                // Ignore unknown elements - might be new version of license
            } else if (token == XContentParser.Token.START_ARRAY) {
                // It was probably created by newer version - ignoring
                parser.skipChildren();
            }
        }
    }
}

```

```

        } else if (token == XContentParser.Token.START_OBJECT) {
            // It was probably created by newer version - ignoring
            parser.skipChildren();
        }
    }
}
// not a license spec
if (builder.signature != null) {
    byte[] signatureBytes = Base64.getDecoder().decode(builder.signature);
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    // we take the absolute version, because negative versions
    // mean that the license was generated by the cluster (see TrialLicense)
    // and positive version means that the license was signed
    if (version < 0) {
        version *= -1;
    }
    if (version == 0) {
        throw new ElasticsearchException("malformed signature for license [" + builder.uid + "]");
    } else if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
" +
            "elasticsearch-license plugin");
    }
    // signature version is the source of truth
    builder.version(version);
}
return builder.build();
}

/**
 * Returns true if the license was auto-generated (by license plugin),
 * false otherwise
 */
public static boolean isAutoGeneratedLicense(String signature) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(signature);
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        return byteBuffer.getInt() < 0;
    } catch (IllegalArgumentException e) {
        throw new IllegalStateException(e);
    }
}

public static License fromSource(BytesReference bytes, XContentType xContentType) throws IOException {
    if (bytes == null || bytes.length() == 0) {
        throw new ElasticsearchParseException("failed to parse license - no content provided");
    }
}

```

```

if (xContentType == null) {
    throw new ElasticsearchParseException("failed to parse license - no content-type provided");
}
// EMPTY is safe here because we don't call namedObject
try (InputStream byteStream = bytes.streamInput());
    XContentParser parser = xContentType.xContent()
        .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE, byteStream)
    {
        License license = null;
        if (parser.nextToken() == XContentParser.Token.START_OBJECT) {
            if (parser.nextToken() == XContentParser.Token.FIELD_NAME) {
                String currentFieldName = parser.currentName();
                if (Fields.LICENSES.equals(currentFieldName)) {
                    final List<License> pre20Licenses = new ArrayList<>();
                    if (parser.nextToken() == XContentParser.Token.START_ARRAY) {
                        while (parser.nextToken() != XContentParser.Token.END_ARRAY) {
                            pre20Licenses.add(License.fromXContent(parser));
                        }
                        // take the latest issued unexpired license
                        CollectionUtil.timSort(pre20Licenses, LATEST_ISSUE_DATE_FIRST);
                        long now = System.currentTimeMillis();
                        for (License oldLicense : pre20Licenses) {
                            if (oldLicense.expiryDate() > now) {
                                license = oldLicense;
                                break;
                            }
                        }
                        if (license == null && !pre20Licenses.isEmpty()) {
                            license = pre20Licenses.get(0);
                        }
                    } else {
                        throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
                    }
                } else if (Fields.LICENSE.equals(currentFieldName)) {
                    license = License.fromXContent(parser);
                }
                // Ignore all other fields - might be created with new version
            } else {
                throw new ElasticsearchParseException("failed to parse licenses expected field");
            }
        } else {
            throw new ElasticsearchParseException("failed to parse licenses expected start object");
        }
        return license;
    }
}

```

@Override

```

public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    License license = (License) o;

    if (issueDate != license.issueDate) return false;
    if (expiryDate != license.expiryDate) return false;
    if (startDate != license.startDate) return false;
    if (maxNodes != license.maxNodes) return false;
    if (version != license.version) return false;
    if (uid != null ? !uid.equals(license.uid) : license.uid != null) return false;
    if (issuer != null ? !issuer.equals(license.issuer) : license.issuer != null) return false;
    if (issuedTo != null ? !issuedTo.equals(license.issuedTo) : license.issuedTo != null) return false;
    if (type != null ? !type.equals(license.type) : license.type != null) return false;
    if (subscriptionType != null ? !subscriptionType.equals(license.subscriptionType) : license.subscriptionType !=
null)
        return false;
    if (feature != null ? !feature.equals(license.feature) : license.feature != null) return false;
    return !(signature != null ? !signature.equals(license.signature) : license.signature != null);
}

```

@Override

```

public int hashCode() {
    int result = uid != null ? uid.hashCode() : 0;
    result = 31 * result + (issuer != null ? issuer.hashCode() : 0);
    result = 31 * result + (issuedTo != null ? issuedTo.hashCode() : 0);
    result = 31 * result + (int) (issueDate ^ (issueDate >>> 32));
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + (subscriptionType != null ? subscriptionType.hashCode() : 0);
    result = 31 * result + (feature != null ? feature.hashCode() : 0);
    result = 31 * result + (signature != null ? signature.hashCode() : 0);
    result = 31 * result + (int) (expiryDate ^ (expiryDate >>> 32));
    result = 31 * result + (int) (startDate ^ (startDate >>>> 32));
    result = 31 * result + maxNodes;
    result = 31 * result + version;
    return result;
}

```

```

public static final class Fields {
    public static final String STATUS = "status";
    public static final String UID = "uid";
    public static final String TYPE = "type";
    public static final String SUBSCRIPTION_TYPE = "subscription_type";
    public static final String ISSUE_DATE_IN_MILLIS = "issue_date_in_millis";
    public static final String ISSUE_DATE = "issue_date";
    public static final String FEATURE = "feature";
}

```

```

public static final String EXPIRY_DATE_IN_MILLIS = "expiry_date_in_millis";
public static final String EXPIRY_DATE = "expiry_date";
public static final String START_DATE_IN_MILLIS = "start_date_in_millis";
public static final String START_DATE = "start_date";
public static final String MAX_NODES = "max_nodes";
public static final String ISSUED_TO = "issued_to";
public static final String ISSUER = "issuer";
public static final String VERSION = "version";
public static final String SIGNATURE = "signature";

public static final String LICENSES = "licenses";
public static final String LICENSE = "license";

}

private static long parseDate(XContentParser parser, String description, boolean endOfDay) throws
IOException {
    if (parser.currentToken() == XContentParser.Token.VALUE_NUMBER) {
        return parser.longValue();
    } else {
        try {
            if (endOfDay) {
                return DateUtils.endOfDay(parser.text());
            } else {
                return DateUtils.beginningOfDay(parser.text());
            }
        } catch (IllegalArgumentException ex) {
            throw new ElasticsearchParseException("invalid " + description + " date format " + parser.text());
        }
    }
}

public static Builder builder() {
    return new Builder();
}

public static class Builder {
    private int version = License.VERSION_CURRENT;
    private String uid;
    private String issuer;
    private String issuedTo;
    private long issueDate = -1;
    private String type;
    private String subscriptionType;
    private String feature;
    private String signature;
    private long expiryDate = -1;
    private long startDate = -1;
}

```

```
private int maxNodes = -1;

public Builder uid(String uid) {
    this.uid = uid;
    return this;
}

public Builder version(int version) {
    this.version = version;
    return this;
}

public Builder issuer(String issuer) {
    this.issuer = issuer;
    return this;
}

public Builder issuedTo(String issuedTo) {
    this.issuedTo = issuedTo;
    return this;
}

public Builder issueDate(long issueDate) {
    this.issueDate = issueDate;
    return this;
}

public Builder type(String type) {
    this.type = type;
    return this;
}

public Builder subscriptionType(String subscriptionType) {
    this.subscriptionType = subscriptionType;
    return this;
}

public Builder feature(String feature) {
    this.feature = feature;
    return this;
}

public Builder expiryDate(long expiryDate) {
    this.expiryDate = expiryDate;
    return this;
}

public Builder maxNodes(int maxNodes) {
```

```

        this.maxNodes = maxNodes;
        return this;
    }

    public Builder signature(String signature) {
        if (signature != null) {
            this.signature = signature;
        }
        return this;
    }

    public Builder startDate(long startDate) {
        this.startDate = startDate;
        return this;
    }

    public Builder fromLicenseSpec(License license, String signature) {
        return uid(license.uid())
            .version(license.version())
            .issuedTo(license.issuedTo())
            .issueDate(license.issueDate())
            .startDate(license.startDate())
            .type(license.type())
            .subscriptionType(license.subscriptionType)
            .feature(license.feature)
            .maxNodes(license.maxNodes())
            .expiryDate(license.expiryDate())
            .issuer(license.issuer())
            .signature(signature);
    }

    /**
     * Returns a builder that converts pre 2.0 licenses
     * to the new license format
     */
    public Builder fromPre20LicenseSpec(License pre20License) {
        return uid(pre20License.uid())
            .issuedTo(pre20License.issuedTo())
            .issueDate(pre20License.issueDate())
            .maxNodes(pre20License.maxNodes())
            .expiryDate(pre20License.expiryDate());
    }

    public License build() {
        return new License(version, uid, issuer, issuedTo, issueDate, type,
            subscriptionType, feature, signature, expiryDate, maxNodes, startDate);
    }
}

```

```

public Builder validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (signature == null) {
        throw new IllegalStateException("signature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    }
    return this;
}
}

public enum Status {

    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    Status(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeString(label);
    }

    public static Status readFrom(StreamInput in) throws IOException {
        String value = in.readString();
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":

```

```

        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown license status [" + value + "]");
    }
}
}

/**
 * Returns <code>true</code> iff the license is a production licnese
 */
public boolean isProductionLicense() {
    switch (operationMode()) {
        case MISSING:
        case TRIAL:
        case BASIC:
            return false;
        case STANDARD:
        case GOLD:
        case PLATINUM:
            return true;
        default:
            throw new AssertionError("unknown operation mode: " + operationMode());
    }
}
}
}
[role="xpack"]
[testenv="basic"]
[[update-license]]
=== Update License API

```

This API enables you to update your license.

```

[float]
===== Request

```

```

`PUT _xpack/license`

```

```

[float]
===== Description

```

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see <https://www.elastic.co/subscriptions>.

[float]

==== Query Parameters

``acknowledge`::`

(boolean) Specifies whether you acknowledge the license changes. The default value is ``false``.

[float]

==== Request Body

``licenses`::`

(array) A sequence of one or more JSON documents containing the license information.

[float]

==== Authorization

If `{security}` is enabled, you need ``manage`` cluster privileges to install the license.

If `{security}` is enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

[float]

==== Examples

The following example updates to a basic license:

[source,js]

```
-----  
POST _xpack/license  
{  
  "licenses": [  
    {  
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",  
      "type": "basic",  
      "issue_date_in_millis": 1411948800000,  
      "expiry_date_in_millis": 1914278399999,  
      "max_nodes": 1,  
      "issued_to": "issuedTo",  
      "issuer": "issuer",  
      "signature": "xx"  
    }  
  ]  
}
```

```
}  
]  
}
```

```
-----  
// CONSOLE  
// TEST[skip:license testing issues]
```

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can alternatively use a `curl` command, for example:

```
[source,js]  
[source,shell]
```

```
-----  
curl -XPUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json  
-----  
// NOTCONSOLE
```

On Windows machine, use the following command:

```
[source,shell]
```

```
-----  
gc .\license.json | Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -  
ContentType "application/json"  
-----
```

In these examples,

- * ``<user>`` is a user ID with the appropriate authority.
- * ``<host>`` is the hostname of the {es} node (`localhost` if executing locally)
- * ``<port>`` is the http port (defaults to `9200`)
- * ``license.json`` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```
[source,js]
```

```
-----  
{  
  "acknowledged": false,  
  "license_status": "valid",  
  "acknowledge": {  
    "message": ""This license update requires acknowledgement. To acknowledge the license, please read the
```

following messages and update the license again, this time with the "acknowledge=true" parameter:"""

```
"watcher": [
  "Watcher will be disabled"
],
"logstash": [
  "Logstash will no longer poll for centrally-managed pipelines"
],
"security": [
  "The following X-Pack security functionality will be disabled: ..." ]
}
}
```

// NOTCONSOLE

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

[source,js]

```
-----
POST _xpack/license?acknowledge=true
{
  "licenses": [
    {
      "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type":"basic",
      "issue_date_in_millis":1411948800000,
      "expiry_date_in_millis":1914278399999,
      "max_nodes":1,
      "issued_to":"issuedTo",
      "issuer":"issuer",
      "signature":"xx"
    }
  ]
}
```

// CONSOLE
// TEST[skip:license testing issues]

Alternatively:

[source,sh]

```
-----
curl -XPUT -u elastic 'http://<host>:<port>/_xpack/license?acknowledge=true' -H "Content-Type: application/json"
-d @license.json
```

// NOTCONSOLE

For more information about the features that are disabled when you downgrade

your license, see {xpack-ref}/license-expiration.html[License Expiration].

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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.common.settings.Settings;
```

```
import org.elasticsearch.rest.RestController;
```

```
import org.elasticsearch.rest.RestController;
```

```
import org.elasticsearch.rest.action.RestToXContentListener;
```

```
import org.elasticsearch.xpack.core.XPackClient;
```

```
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
```

```
import java.io.IOException;
```

```
import static org.elasticsearch.rest.RestController.Method.POST;
```

```
import static org.elasticsearch.rest.RestController.Method.PUT;
```

```
public class RestPutLicenseAction extends XPackRestHandler {  
    public RestPutLicenseAction(Settings settings, RestController controller) {  
        super(settings);  
        // @deprecated Remove deprecations in 6.0  
        controller.registerWithDeprecatedHandler(POST, URI_BASE + "/license", this,  
            POST, "/_license", deprecationLogger);  
        controller.registerWithDeprecatedHandler(PUT, URI_BASE + "/license", this,  
            PUT, "/_license", deprecationLogger);  
  
        // Remove _licenses support entirely in 6.0  
        controller.registerAsDeprecatedHandler(POST, "/_licenses", this,  
            "[POST /_licenses] is deprecated! Use " +  
            "[POST /_xpack/license] instead.",  
            deprecationLogger);  
        controller.registerAsDeprecatedHandler(PUT, "/_licenses", this,  
            "[PUT /_licenses] is deprecated! Use " +  
            "[PUT /_xpack/license] instead.",  
            deprecationLogger);  
    }  
}
```

```
@Override
```

```

public String getName() {
    return "xpack_put_license_action";
}

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
IOException {
    if (request.hasContent() == false) {
        throw new IllegalArgumentException("The license must be provided in the request body");
    }
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest();
    putLicenseRequest.license(request.content(), request.getXContentType());
    putLicenseRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
    putLicenseRequest.timeout(request.paramAsTime("timeout", putLicenseRequest.timeout()));
    putLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
putLicenseRequest.masterNodeTimeout()));

    if ("basic".equals(putLicenseRequest.license().type())) {
        throw new IllegalArgumentException("Installing basic licenses is no longer allowed. Use the POST " +
            "/_xpack/license/start_basic API to install a basic license that does not expire.");
    }

    return channel -> client.es().admin().cluster().execute(PutLicenseAction.INSTANCE, putLicenseRequest,
        new RestToXContentListener<>(channel));
}
}
[role="xpack"]
[[license-settings]]
=== {xpack} License Settings
++++
<titleabbrev>License Settings</titleabbrev>
++++

```

You can configure this licensing setting in the `elasticsearch.yml` file.

For more information, see

[{xpack-ref}/license-management.html](#) [`{xpack}` License Management].

``xpack.license.self_generated.type`::`

Set to ``basic`` (default) to enable basic `{xpack}` features. +

+

--

If set to ``trial``, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.

--

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }

    public License license() {
        return license;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        if (in.readBoolean()) {
            license = License.readLicense(in);
        }
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        if (license == null) {
            out.writeBoolean(false);
        } else {
            out.writeBoolean(true);
            license.writeTo(out);
        }
    }
}

```

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package org.elasticsearch.license.licensor.tools;

```
import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;
```

```
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
```

```
public class LicenseVerificationToolTests extends CommandTestCase {
    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;
```

```
@Before
```

```

public void setup() throws Exception {
    logger.error("project.basedir [{}]", System.getProperty("project.basedir"));
    pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
    priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
}

@Override
protected Command newCommand() {
    return new LicenseVerificationTool();
}

public void testMissingKeyPath() throws Exception {
    Path pub = createTempDir().resolve("pub");
    UserException e = expectThrows(
        UserException.class,
        () -> execute("--publicKeyPath", pub.toString());
    assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(UserException.class, () -> {
        execute("--publicKeyPath", pubKeyPath.toString());
    });
    assertTrue(
        e.getMessage(),
        e.getMessage().contains("Must specify either --license or --licenseFile"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testBrokenLicense() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + randomIntBetween(1, 1000)).build();
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--license",
            TestUtils.dumpLicense(tamperedLicense)));
    assertEquals("Invalid License!", e.getMessage());
    assertEquals(ExitCodes.DATA_ERROR, e.exitCode);
}

public void testLicenseSpecString() throws Exception {

```

```

    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--license",
        TestUtils.dumpLicense(signedLicense));
    assertFalse(output, output.isEmpty());
}

public void testLicenseSpecFile() throws Exception {
    final TimeValue oneHour = TimeValue.timeValueHours(1);
    License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
    Path licenseSpecFile = createTempFile();
    Files.write(
        licenseSpecFile,
        TestUtils.dumpLicense(signedLicense).getBytes(StandardCharsets.UTF_8));
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--licenseFile",
        licenseSpecFile.toString());
    assertFalse(output, output.isEmpty());
}

}
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import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.ValidateActions;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentType;

import java.io.IOException;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private License license;
    private boolean acknowledge = false;

```

```

public PutLicenseRequest() {
}

@Override
public ActionRequestValidationException validate() {
    return (license == null) ? ValidateActions.addValidationError("license is missing", null) : null;
}

/**
 * Parses license from json format to an instance of { @link License}
 *
 * @param licenseDefinition licenses definition
 * @param xContentType the content type of the license
 */
public PutLicenseRequest license(BytesReference licenseDefinition, XContentType xContentType) {
    try {
        return license(License.fromSource(licenseDefinition, xContentType));
    } catch (IOException e) {
        throw new IllegalArgumentException("failed to parse license source", e);
    }
}

public PutLicenseRequest license(License license) {
    this.license = license;
    return this;
}

public License license() {
    return license;
}

public PutLicenseRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean acknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    license = License.readLicense(in);
    acknowledge = in.readBoolean();
}

```

```
@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    license.writeTo(out);
    out.writeBoolean(acknowledge);
}
}
```

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*/

package org.elasticsearch.license.licensor.tools;

```
import org.elasticsearch.cli.Command;  
import org.elasticsearch.cli.CommandTestCase;  
import org.elasticsearch.cli.ExitCodes;  
import org.elasticsearch.cli.UserException;  
import org.elasticsearch.common.bytes.ByteArray;  
import org.elasticsearch.common.xcontent.XContentType;  
import org.elasticsearch.license.License;  
import org.elasticsearch.license.licensor.TestUtils;  
import org.junit.Before;
```

```
import java.nio.charset.StandardCharsets;  
import java.nio.file.Files;  
import java.nio.file.Path;
```

```
public class LicenseGenerationToolTests extends CommandTestCase {
```

```
    protected Path pubKeyPath = null;  
    protected Path priKeyPath = null;
```

```

@Before
public void setup() throws Exception {
    pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
    priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
}

@Override
protected Command newCommand() {
    return new LicenseGeneratorTool();
}

public void testMissingKeyPaths() throws Exception {
    Path pub = createTempDir().resolve("pub");
    Path pri = createTempDir().resolve("pri");
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pub.toString(),
            "--privateKeyPath",
            pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pri does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);

    Files.createFile(pri);
    e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pub.toString(),
            "--privateKeyPath",
            pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--privateKeyPath",
            priKeyPath.toString()));
    assertTrue(
        e.getMessage(),
        e.getMessage().contains("Must specify either --license or --licenseFile"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

```

```

}

public void testLicenseSpecString() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--license",
        licenseSpecString);
    final ByteArray bytes = new ByteArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

public void testLicenseSpecFile() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    Path licenseSpecFile = createTempFile();
    Files.write(licenseSpecFile, licenseSpecString.getBytes(StandardCharsets.UTF_8));
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--licenseFile",
        licenseSpecFile.toString());
    final ByteArray bytes = new ByteArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;

```

```

import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;

import static org.elasticsearch.license.CryptUtils.decrypt;
import static org.elasticsearch.license.CryptUtils.encrypt;

class SelfGeneratedLicense {

    public static License create(License.Builder specBuilder) {
        License spec = specBuilder
            .issuer("elasticsearch")
            .version(License.VERSION_CURRENT)
            .build();
        final String signature;
        try {
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            spec.toXContent(contentBuilder, new
ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            byte[] encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            byte[] bytes = new byte[4 + 4 + encrypt.length];
            ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
            // always generate license version -VERSION_CURRENT
            byteBuffer.putInt(-License.VERSION_CURRENT)
                .putInt(encrypt.length)
                .put(encrypt);
            signature = Base64.getEncoder().encodeToString(bytes);
        } catch (IOException e) {
            throw new IllegalStateException(e);
        }
        return License.builder().fromLicenseSpec(spec, signature).build();
    }

    public static boolean verify(final License license) {
        try {
            byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
            ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
            int version = byteBuffer.getInt();
            int contentLen = byteBuffer.getInt();
            byte[] content = new byte[contentLen];
            byteBuffer.get(content);
            final License expectedLicense;

```

```

// EMPTY is safe here because we don't call namedObject
try (XContentParser parser = XContentFactory.xContent(XContentType.JSON)
    .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE,
decrypt(content))) {
    parser.nextToken();
    expectedLicense = License.builder().fromLicenseSpec(License.fromXContent(parser),
        license.signature().version(-version).build());
    }
    return license.equals(expectedLicense);
} catch (IOException e) {
    throw new IllegalStateException(e);
}
}

public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}
}

```

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*/

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```
import org.elasticsearch.cli.Command;  
import org.elasticsearch.cli.CommandTestCase;  
import org.elasticsearch.cli.ExitCodes;  
import org.elasticsearch.cli.UserException;
```

```
import java.nio.file.Files;  
import java.nio.file.Path;
```

```
import static org.hamcrest.CoreMatchers.containsString;
```

```

public class KeyPairGenerationToolTests extends CommandTestCase {

    @Override
    protected Command newCommand() {
        return new KeyPairGeneratorTool();
    }

    public void testMissingKeyPaths() throws Exception {
        Path exists = createTempFile("", "existing");
        Path dne = createTempDir().resolve("dne");
        UserException e = expectThrows(
            UserException.class,
            () -> execute(
                "--publicKeyPath",
                exists.toString(),
                "--privateKeyPath",
                dne.toString());
        assertThat(e.getMessage(), containsString("existing"));
        assertEquals(ExitCodes.USAGE, e.exitCode);
        e = expectThrows(
            UserException.class,
            () -> execute(
                "--publicKeyPath",
                dne.toString(),
                "--privateKeyPath",
                exists.toString());
        assertThat(e.getMessage(), containsString("existing"));
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testTool() throws Exception {
        Path keysDir = createTempDir();
        Path publicKeyFilePath = keysDir.resolve("public");
        Path privateKeyFilePath = keysDir.resolve("private");

        execute(
            "--publicKeyPath",
            publicKeyFilePath.toString(),
            "--privateKeyPath",
            privateKeyFilePath.toString());
        assertTrue(publicKeyFilePath.toString(), Files.exists(publicKeyFilePath));
        assertTrue(privateKeyFilePath.toString(), Files.exists(privateKeyFilePath));
    }
}
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package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import java.util.Map;

import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartTrialLicense extends XPackRestHandler {

    RestPostStartTrialLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_trial", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
    {
        PostStartTrialRequest startTrialRequest = new PostStartTrialRequest();
        startTrialRequest.setType(request.param("type", "trial"));
        startTrialRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        return channel -> client.licensing().postStartTrial(startTrialRequest,
            new RestBuilderListener<PostStartTrialResponse>(channel) {
                @Override
                public RestResponse buildResponse(PostStartTrialResponse response, XContentBuilder builder) throws
                Exception {
                    PostStartTrialResponse.Status status = response.getStatus();
                    builder.startObject();
                    builder.field("acknowledged", startTrialRequest.isAcknowledged());
                    if (status.isTrialStarted()) {
                        builder.field("trial_was_started", true);
                        builder.field("type", startTrialRequest.getType());
                    } else {
                        builder.field("trial_was_started", false);
                        builder.field("error_message", status.getErrorMessage());
                    }
                }
            }
        );
    }
}

```

```

        Map<String, String[]> acknowledgementMessages = response.getAcknowledgementMessages();
        if (acknowledgementMessages.isEmpty() == false) {
            builder.startObject("acknowledge");
            builder.field("message", response.getAcknowledgementMessage());
            for (Map.Entry<String, String[]> entry : acknowledgementMessages.entrySet()) {
                builder.startArray(entry.getKey());
                for (String message : entry.getValue()) {
                    builder.value(message);
                }
                builder.endArray();
            }
            builder.endObject();
        }
        builder.endObject();
        return new BytesRestResponse(status.getRestStatus(), builder);
    }
});
}

```

```

@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}
}

```

Apache log4j

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package org.elasticsearch.license.licensor;
```

```

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;

```

```

import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;

    private final Path publicKeyPath;

    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    /**
     * Generates a signature for the {@code licenseSpec}. Signature structure:
     * <code>
     * | VERSION | MAGIC | PUB_KEY_DIGEST | SIGNED_LICENSE_CONTENT |
     * </code>
     *
     * @return a signed License
     */
    public License sign(License licenseSpec) throws IOException {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        final Map<String, String> licenseSpecViewMode =
            Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true");
        licenseSpec.toXContent(contentBuilder, new ToXContent.MapParams(licenseSpecViewMode));
        final byte[] signedContent;
        try {
            final Signature rsa = Signature.getInstance("SHA512withRSA");
            rsa.initSign(CryptUtils.readEncryptedPrivateKey(Files.readAllBytes(privateKeyPath)));

```

```

    final BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
    BytesRef ref;
    while((ref = iterator.next()) != null) {
        rsa.update(ref.bytes, ref.offset, ref.length);
    }
    signedContent = rsa.sign();
} catch (InvalidKeyException
        | IOException
        | NoSuchAlgorithmException
        | SignatureException e) {
    throw new IllegalStateException(e);
}
final byte[] magic = new byte[MAGIC_LENGTH];
SecureRandom random = new SecureRandom();
random.nextBytes(magic);
final byte[] hash = Base64.getEncoder().encode(Files.readAllBytes(publicKeyPath));
assert hash != null;
byte[] bytes = new byte[4 + 4 + MAGIC_LENGTH + 4 + hash.length + 4 + signedContent.length];
ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
byteBuffer.putInt(licenseSpec.version())
    .putInt(magic.length)
    .put(magic)
    .putInt(hash.length)
    .put(hash)
    .putInt(signedContent.length)
    .put(signedContent);

return License.builder()
    .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToString(bytes))
    .build();
}
}
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 */
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import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;

```

```

import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetLicenseAction extends TransportMasterNodeReadAction<GetLicenseRequest,
GetLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportGetLicenseAction(Settings settings, TransportService transportService, ClusterService
clusterService,
                                   LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
                                   IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver,
              GetLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected GetLicenseResponse newResponse() {
        return new GetLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(GetLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
    }

    @Override
    protected void masterOperation(final GetLicenseRequest request, ClusterState state,
                                   final ActionListener<GetLicenseResponse> listener) throws ElasticsearchException {
        listener.onResponse(new GetLicenseResponse(licenseService.getLicense()));
    }
}
[role="xpack"]
[testenv="basic"]
[[delete-license]]
=== Delete License API

```

This API enables you to delete licensing information.

[float]

==== Request

```
`DELETE /_xpack/license`
```

[float]

==== Description

When your license expires, {xpack} operates in a degraded mode. For more information, see {xpack-ref}/license-expiration.html[License Expiration].

[float]

==== Authorization

You must have `manage` cluster privileges to use this API.`

For more information, see

{xpack-ref}/security-privileges.html[Security Privileges].

[float]

==== Examples

The following example queries the info API:

[source.js]

```
-----  
DELETE _xpack/license  
-----
```

```
// CONSOLE
```

```
// TEST[skip:license testing issues]
```

When the license is successfully deleted, the API returns the following response:

[source.js]

```
-----  
{  
  "acknowledged": true  
}  
-----
```

```
// NOTCONSOLE
```

```
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```

```
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```

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```
es.logger.level=INFO
```

```
log4j.rootLogger=${es.logger.level}, out
```

```
log4j.logger.org.apache.http=INFO, out
```

```
log4j.additivity.org.apache.http=false
```

```
log4j.logger.org.elasticsearch.license=TRACE
```

```
log4j.appender.out=org.apache.log4j.ConsoleAppender
```

```
log4j.appender.out.layout=org.apache.log4j.PatternLayout
```

```
log4j.appender.out.layout.conversionPattern=[%d{ISO8601}][%-5p][%-25c] %m%n
```

```
/*
```

```
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```

```
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```

```
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```

```
*/
```

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.action.ActionRequestBuilder;
```

```
import org.elasticsearch.client.ElasticsearchClient;
```

```
class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest,  
    PostStartTrialResponse, PostStartTrialRequestBuilder> {
```

```
    PostStartTrialRequestBuilder(ElasticsearchClient client, PostStartTrialAction action) {  
        super(client, action, new PostStartTrialRequest());
```

```
    }
```

```
    public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
```

```
    request.acknowledge(acknowledge);
    return this;
}
}
```

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Bart Hanssens from FedICT

```
sSfY0; I6xR5z}z{t.H9a\>qp4Z^j
!| :R0~4py#]|BKT\ux\cm3Uk!pdt4c_j @h5TZQa+'c)+F&P(.PD^+dyeQcN Gs*eLH HO-K@qzr.{Qr-
uf]@P+)|IVX??rNGF?R$N'C[p^u);?O?K/I4PkRj|e<e3dZZGXPj=
Pi;<4+$}"Fha/XQV$j.Ub7w/2W.C-v'1Cna3#zv{)Iw}j@~xw&aK3Oye&e&xhTJbpCvK4
bfmAd8k?%t,qUGHQ#spDspO 69{k;&%4D3^Em/p01!c
9K%i/3(~GTOQV)|m$8BhUqYu,Y~(t#Ea%H5Jw?#o)T0=~H%mGga+7<-,d)Ef9cESk0<<m+
,A\niZj[y^%RDjg[;wrT2n>U{/XvC>!>.5
```

```
6!dxcG)ZiOC2]zT-\`YA*R/p
=7kCl
$!5TE3a1bQ8z]q}U+
waKiE@C8OAH=dM/PYe
P=dti<H)p
/*
```

```
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*/
```

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;
```

```

public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest,
DeleteLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportDeleteLicenseAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, DeleteLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, DeleteLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected DeleteLicenseResponse newResponse() {
        return new DeleteLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(DeleteLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

    @Override
    protected void masterOperation(final DeleteLicenseRequest request, ClusterState state, final
ActionListener<DeleteLicenseResponse>
        listener) throws ElasticsearchException {
        licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
            @Override
            public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
                listener.onResponse(new DeleteLicenseResponse(clusterStateUpdateResponse.isAcknowledged()));
            }
        });
    }

    @Override
    public void onFailure(Exception e) {
        listener.onFailure(e);
    }
}

```

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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*/

package org.elasticsearch.license.licensor;

```

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicenseVerifier;
import org.elasticsearch.test.ESTestCase;
import org.junit.After;
import org.junit.Before;

import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationTests extends ESTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath("/public.key");
        priKeyPath = getDataPath("/private.key");
    }

    @After
    public void cleanUp() {
        pubKeyPath = null;
        priKeyPath = null;
    }

    public void testGeneratedLicenses() throws Exception {
        final TimeValue fortyEightHours = TimeValue.timeValueHours(2 * 24);
        final License license =
            TestUtils.generateSignedLicense(fortyEightHours, pubKeyPath, priKeyPath);
        assertTrue(LicenseVerifier.verifyLicense(license, Files.readAllBytes(pubKeyPath)));
    }

    public void testLicenseTampering() throws Exception {
        final TimeValue twoHours = TimeValue.timeValueHours(2);
        License license = TestUtils.generateSignedLicense(twoHours, pubKeyPath, priKeyPath);

        final License tamperedLicense = License.builder()
            .fromLicenseSpec(license, license.signature())
            .expiryDate(license.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
            .validate()
            .build();

        assertFalse(LicenseVerifier.verifyLicense(tamperedLicense, Files.readAllBytes(pubKeyPath)));
    }
}

```

```

public void testRandomLicenseVerification() throws Exception {
    TestUtils.LicenseSpec licenseSpec = TestUtils.generateRandomLicenseSpec(
        randomIntBetween(License.VERSION_START, License.VERSION_CURRENT));
    License generatedLicense = generateSignedLicense(licenseSpec, pubKeyPath, priKeyPath);
    assertTrue(LicenseVerifier.verifyLicense(generatedLicense, Files.readAllBytes(pubKeyPath)));
}

private static License generateSignedLicense(
    TestUtils.LicenseSpec spec, Path pubKeyPath, Path priKeyPath) throws Exception {
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }

    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }

    builder.version(spec.version);
    return signer.sign(builder.build());
}

}
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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.apache.lucene.util.BytesRef;
import org.elasticsearch.common.bytes.BytesReference;

```

```

import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.watcher.FileChangesListener;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;

import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.concurrent.atomic.AtomicBoolean;

/**
 * File based watcher for license {@link OperationMode}
 * Watches for changes in <code>licenseModePath</code>, use
 * {@link #getCurrentOperationMode()} to access the latest mode
 *
 * In case of failure to read a valid operation mode from <code>licenseModePath</code>,
 * the operation mode will default to PLATINUM
 */
public final class OperationModeFileWatcher implements FileChangesListener {
    private final ResourceWatcherService resourceWatcherService;
    private final Path licenseModePath;
    private final AtomicBoolean initialized = new AtomicBoolean();
    private final OperationMode defaultOperationMode = OperationMode.PLATINUM;
    private volatile OperationMode currentOperationMode = defaultOperationMode;
    private final Logger logger;
    private final Runnable onChange;

    public OperationModeFileWatcher(ResourceWatcherService resourceWatcherService, Path licenseModePath,
        Logger logger, Runnable onChange) {
        this.resourceWatcherService = resourceWatcherService;
        this.licenseModePath = licenseModePath;
        this.logger = logger;
        this.onChange = onChange;
    }

    public void init() {
        if (initialized.compareAndSet(false, true)) {
            final FileWatcher watcher = new FileWatcher(licenseModePath);
            watcher.addListener(this);
            try {
                resourceWatcherService.add(watcher, ResourceWatcherService.Frequency.HIGH);
                if (Files.exists(licenseModePath)) {
                    onChange(licenseModePath);
                }
            } catch (IOException e) {
                logger.error("couldn't initialize watching license mode file", e);
            }
        }
    }
}

```

```

    }
}

/**
 * Returns the current operation mode based on license mode file.
 * Defaults to {@link OperationMode#PLATINUM}
 */
public OperationMode getCurrentOperationMode() {
    return currentOperationMode;
}

@Override
public void onFileInit(Path file) {
    onChange(file);
}

@Override
public void onFileCreated(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

@Override
public void onFileChanged(Path file) {
    onChange(file);
}

private synchronized void onChange(Path file) {
    if (file.equals(licenseModePath)) {
        OperationMode newOperationMode = defaultOperationMode;
        try {
            if (Files.exists(licenseModePath)
                && Files.isReadable(licenseModePath)) {
                final byte[] content;
                try {
                    content = Files.readAllBytes(licenseModePath);
                } catch (IOException e) {
                    logger.error(
                        (Supplier<?>) () -> new ParameterizedMessage(
                            "couldn't read operation mode from [{}]", licenseModePath.toAbsolutePath()), e);
                }
                return;
            }
            // this UTF-8 conversion is much pickier than java String
            final String operationMode = new BytesRef(content).utf8ToString();

```

```

    try {
        newOperationMode = OperationMode.resolve(operationMode);
    } catch (IllegalArgumentException e) {
        logger.error(
            (Supplier<?>) () -> new ParameterizedMessage(
                "invalid operation mode in [{}]", licenseModePath.toAbsolutePath()), e);
        return;
    }
} finally {
    // set this after the fact to prevent that we are jumping back and forth first setting to default and then
reading the
    // actual op mode resetting it.
    this.currentOperationMode = newOperationMode;
}
onChange.run();
}
}
}
}

```

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Adobe Font Metrics (AFM) for PDF Core 14 Fonts

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OSXAdapter

Version: 2.0

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*/

package org.elasticsearch.license.licensor;

```
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
```

```

import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.test.ESTestCase;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;

import java.io.IOException;
import java.nio.file.Path;
import java.util.UUID;

import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomIntBetween;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.hamcrest.core.IsEqual.equalTo;

public class TestUtils {

    public static final String PUBLIC_KEY_RESOURCE = "/public.key";
    public static final String PRIVATE_KEY_RESOURCE = "/private.key";

    private static final FormatDateTimeFormatter formatDateTimeFormatter =
        Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser =
        new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dumpLicense(License license) throws Exception {
        XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
        builder.startObject();
        builder.startObject("license");
        license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        return Strings.toString(builder);
    }

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }
}

```

```

public static LicenseSpec generateRandomLicenseSpec(int version) {
    boolean datesInMillis = randomBoolean();
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    String issuer = "issuer__" + randomInt();
    String issuedTo = "issuedTo__" + randomInt();
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("basic", "silver", "dev", "gold", "platinum");
    final String subscriptionType;
    final String feature;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        subscriptionType = randomFrom("gold", "silver", "platinum");
        feature = "feature__" + randomInt();
    } else {
        subscriptionType = null;
        feature = null;
    }
    int maxNodes = randomIntBetween(5, 100);
    if (datesInMillis) {
        long issueDateInMillis = dateMath("now", now);
        long expiryDateInMillis = dateMath("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
            feature,
            issueDateInMillis,
            expiryDateInMillis,
            type,
            subscriptionType,
            issuedTo,
            issuer,
            maxNodes);
    } else {
        String issueDate = dateMathString("now", now);
        String expiryDate = dateMathString("now+10d/d", now);
        return new LicenseSpec(
            version,
            uid,
            feature,
            issueDate,
            expiryDate, type,
            subscriptionType,
            issuedTo,
            issuer,
            maxNodes);
    }
}

```

```

}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startObject("license")
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);

    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endObject();
    return Strings.toString(licenses);
}

```

```

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(
            license.issueDate(),
            equalTo(DateUtils.beginningOfDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(
            license.expiryDate(),
            equalTo(DateUtils.endOfDay(spec.expiryDate)));
    } else {

```

```

        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}

public static License generateSignedLicense(
    TimeValue expiryDuration, Path pubKeyPath, Path priKeyPath) throws Exception {
    long issue = System.currentTimeMillis();
    int version = ESTestCase.randomIntBetween(License.VERSION_START, License.VERSION_CURRENT);
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("trial", "basic", "silver", "dev", "gold", "platinum");
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .expiryDate(issue + expiryDuration.getMillis())
        .issueDate(issue)
        .version(version)
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType(randomFrom("dev", "gold", "platinum", "silver"));
        builder.feature(ESTestCase.randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    return signer.sign(builder.build());
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(
        int version,
        String uid,
        String feature,
        long issueDateInMillis,
        long expiryDateInMillis,

```

```

        String type,
        String subscriptionType,
        String issuedTo,
        String issuer,
        int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDateInMillis = issueDateInMillis;
    this.issueDate = null;
    this.expiryDateInMillis = expiryDateInMillis;
    this.expiryDate = null;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

public LicenseSpec(
    int version,
    String uid,
    String feature,
    String issueDate,
    String expiryDate,
    String type,
    String subscriptionType,
    String issuedTo,
    String issuer,
    int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}
}
}
/*
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```

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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.action.ActionRequestBuilder;
```

```
import org.elasticsearch.client.ElasticsearchClient;
```

```
class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest,  
    GetTrialStatusResponse, GetTrialStatusRequestBuilder> {
```

```
    GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {  
        super(client, action, new GetTrialStatusRequest());
```

```
    }
```

```
}
```

```
=====
```

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```
=====
```

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The build produces two sets of binaries - one set that falls under the Elastic License and another set that falls under Apache License Version 2.0. The binaries that contain ` -oss ` in the artifact name are licensed under the Apache License Version 2.0.

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*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.client.Client;
```

```
import org.elasticsearch.common.unit.TimeValue;
```

```

import static org.elasticsearch.license.TestUtils.generateSignedLicense;

public class LicenseTribeTests extends TribeTransportTestCase {

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertLicenseTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
        assertLicenseTransportActionsWorks(masterClient);
    }

    @Override
    protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
        assertLicenseTransportActionsWorks(dataNodeClient);
    }

    private static void assertLicenseTransportActionsWorks(Client client) throws Exception {
        client.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest().get());
        client.execute(PutLicenseAction.INSTANCE, new PutLicenseRequest()
            .license(generateSignedLicense(TimeValue.timeValueHours(1))));
        client.execute>DeleteLicenseAction.INSTANCE, new>DeleteLicenseRequest());
    }

    @Override
    protected void verifyActionOnTribeNode(Client tribeClient) throws Exception {
        // The get licence action should work, but everything else should fail
        tribeClient.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest().get());
        failAction(tribeClient, PutLicenseAction.INSTANCE);
        failAction(tribeClient,>DeleteLicenseAction.INSTANCE);
    }
}
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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.Metadata;

```

```

import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;

import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicReference;

public class StartBasicClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement.
To acknowledge the license, " +
        "please read the following messages and call /start_basic again, this time with the \"acknowledge=true\"
parameter:";

    private final Logger logger;
    private final String clusterName;
    private final PostStartBasicRequest request;
    private final ActionListener<PostStartBasicResponse> listener;
    private final Clock clock;
    private AtomicReference<Map<String, String[]>> ackMessages = new
AtomicReference<>(Collections.emptyMap());

    StartBasicClusterTask(Logger logger, String clusterName, Clock clock, PostStartBasicRequest request,
        ActionListener<PostStartBasicResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
        logger.debug("license prior to starting basic license: {}", oldLicensesMetaData);
        License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
        Map<String, String[]> acknowledgeMessages = ackMessages.get();
        if (acknowledgeMessages.isEmpty() == false) {
            listener.onResponse(new
PostStartBasicResponse(PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT, acknowledgeMessages,
                ACKNOWLEDGEMENT_HEADER));
        } else if (oldLicense != null && oldLicense.type().equals("basic")) {
            listener.onResponse(new
PostStartBasicResponse(PostStartBasicResponse.Status.ALREADY_USING_BASIC));
        } else {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.GENERATED_BASIC));
        }
    }
}

```

```

    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
    License currentLicense = LicensesMetaData.extractLicense(licensesMetaData);
    if (currentLicense == null || currentLicense.type().equals("basic") == false) {
        long issueDate = clock.millis();
        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo(clusterName)
            .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
            .issueDate(issueDate)
            .type("basic")
            .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
        License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
        if (request.isAcknowledged() == false && currentLicense != null) {
            Map<String, String[]> ackMessages = LicenseService.getAckMessages(selfGeneratedLicense,
currentLicense);
            if (ackMessages.isEmpty() == false) {
                this.ackMessages.set(ackMessages);
                return currentState;
            }
        }
        Version trialVersion = null;
        if (licensesMetaData != null) {
            trialVersion = licensesMetaData.getMostRecentTrialVersion();
        }
        LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, trialVersion);
        mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    } else {
        return currentState;
    }
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{}]", source), e);
    listener.onFailure(e);
}
}

```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <link rel="dns-prefetch" href="https://assets-cdn.github.com">
  <link rel="dns-prefetch" href="https://avatars0.githubusercontent.com">
  <link rel="dns-prefetch" href="https://avatars1.githubusercontent.com">
  <link rel="dns-prefetch" href="https://avatars2.githubusercontent.com">
  <link rel="dns-prefetch" href="https://avatars3.githubusercontent.com">
  <link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
  <link rel="dns-prefetch" href="https://user-images.githubusercontent.com/">

  <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/frameworks-
2d2d4c150f7000385741c6b992b302689ecd172246c6428904e0813be9bceca6.css" media="all" rel="stylesheet" />
  <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/github-
0522ae8d3b3bdc841d2f91f90efd5f1fd9040d910905674cd134ced43a6dfea6.css" media="all" rel="stylesheet" />

  <link crossorigin="anonymous" href="https://assets-cdn.github.com/assets/site-
cfab053e93f0e27f4c63d4ff6b7957bd25f711667fe678e747f8a4d88c47b38d.css" media="all" rel="stylesheet" />

  <meta name="viewport" content="width=device-width">

  <title>cryptacular/NOTICE at master · vt-middlewre/cryptacular · GitHub</title>
  <link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
  <link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
  <meta property="fb:app_id" content="1401488693436528">

  <meta content="https://avatars7.githubusercontent.com/u/6122907?v=4&s=400" property="og:image" /><meta
content="GitHub" property="og:site_name" /><meta content="object" property="og:type" /><meta content="vt-
middlewre/cryptacular" property="og:title" /><meta content="https://github.com/vt-middlewre/cryptacular"
property="og:url" /><meta content="cryptacular - The friendly complement to the BouncyCastle crypto API for
Java." property="og:description" />

  <link rel="assets" href="https://assets-cdn.github.com/">

  <meta name="pjax-timeout" content="1000">

  <meta name="request-id" content="E0E4:26F16:12A5AE6:1D11801:596C7978" data-pjax-transient>
```

<meta name="selected-link" value="repo_source" data-pjax-transient>

<meta name="google-site-verification" content="KT5gs8h0wvaagLKAVWq8bbeNwnZZK1r1XQysX3xurLU">
<meta name="google-site-verification" content="ZzhVyEFwb7w3e0-uOTlrm8Jsck2F5StVihD0exw2fsA">
<meta name="google-analytics" content="UA-3769691-2">

<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-id" /><meta content="https://collector.githubapp.com/github-external/browser_event" name="octolytics-event-url" /><meta content="E0E4:26F16:12A5AE6:1D11801:596C7978" name="octolytics-dimension-request_id" /><meta content="sea" name="octolytics-dimension-region_edge" /><meta content="iad" name="octolytics-dimension-region_render" />
<meta content="/<user-name>/<repo-name>/blob/show" data-pjax-transient="true" name="analytics-location" />

<meta class="js-ga-set" name="dimension1" content="Logged Out">

<meta name="hostname" content="github.com">
<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">
<meta name="js-proxy-site-detection-payload" content="N2ZhMjk0NTA4MjI1NmZhYTVINzM5NzVjZmFkOWY2NGFkNmMxYzcyMGViNzAzZGQxMGMzZmJhZDQ3YWZiZTI0OHx7InJlbW90ZV9hZGRyZXNzIjoiMTEwLjIwLjIyMC4xMzUiLCJyZXF1ZXN0X2lkIjoiRTBFNDoyNkYxNjoxMkE1QUU2OjFEMTE4MDE6NTk2Qzc5NzgiLCJ0aW1lc3RhbnXAiOjE1MDAyODEyMDgsImhvc3QiOiJnaXRodWIuY29tIn0=">

<meta name="html-safe-nonce" content="5aa226b80a18dc40894e1d405e4eb31cfca7d616">

<meta http-equiv="x-pjax-version" content="f682644ce1bb9629b9d9d9bedf64801b">

<link href="https://github.com/vt-middlewre/cryptacular/commits/master.atom" rel="alternate" title="Recent Commits to cryptacular:master" type="application/atom+xml">

<meta name="description" content="cryptacular - The friendly complement to the BouncyCastle crypto API for Java.">

<meta name="go-import" content="github.com/vt-middlewre/cryptacular git https://github.com/vt-middlewre/cryptacular.git">

<meta content="6122907" name="octolytics-dimension-user_id" /><meta content="vt-middlewre" name="octolytics-dimension-user_login" /><meta content="15714989" name="octolytics-dimension-repository_id" /><meta content="vt-middlewre/cryptacular" name="octolytics-dimension-repository_nwo" /><meta

content="true" name="octolytics-dimension-repository_public" /><meta content="false" name="octolytics-dimension-repository_is_fork" /><meta content="15714989" name="octolytics-dimension-repository_network_root_id" /><meta content="vt-middlewre/cryptacular" name="octolytics-dimension-repository_network_root_nwo" /><meta content="false" name="octolytics-dimension-repository_explore_github_marketplace_ci_cta_shown" />

<link rel="canonical" href="https://github.com/vt-middlewre/cryptacular/blob/master/NOTICE" data-pjax-transient>

<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">

<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">

<link rel="mask-icon" href="https://assets-cdn.github.com/pinned-octocat.svg" color="#000000">

<link rel="icon" type="image/x-icon" href="https://assets-cdn.github.com/favicon.ico">

<meta name="theme-color" content="#1e2327">

</head>

<body class="logged-out env-production page-blob">

<div class="position-relative js-header-wrapper ">

Skip to content

<div id="js-pjax-loader-bar" class="pjax-loader-bar"><div class="progress"></div></div>

<header class="site-header js-details-container Details" role="banner">

<div class="site-nav-container">

<svg aria-hidden="true" class="octicon octicon-mark-github" height="32" version="1.1" viewBox="0 0 16 16" width="32"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 4.07 5.55 10.55 1.19 11.82-.01 1.49-2.01 3.72-5.53 4.92-6.94.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53 6.33-.01 1.08 5.8 1.23 8.72 1.21 1.87 8.72 3.36 6.07-.52 2.88-.87 5.1-1.07 1.78-.2 3.64-.89 3.64-3.95 0-.87 3.1-1.59 8.2-2.15-.08-.2-.36-1.02 0.8-2.12 0 0-.67-.21 2.28 6.4-.18 1.32-.27 2-.27 6.8 0 1.36 0.2 2.7 1.53 1.04 2.2-.82 2.2-.82 4 1.16 1.92 0.8

2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0

.21.15.46.55.38A8.013 8.013 0 0 0 16 8c0-4.42-3.58-8-8-8z"/></svg>

<button class="btn-link float-right site-header-toggle js-details-target" type="button" aria-label="Toggle navigation" aria-expanded="false">

<svg aria-hidden="true" class="octicon octicon-three-bars" height="24" version="1.1" viewBox="0 0 12 16" width="18"><path fill-rule="evenodd" d="M11.41 9H.59C0 9 0 8.59 0 8c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zm0-4H.59C0 5 0 4.59 0 4c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zM.59 11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1H.59C0 13 0 12.59 0 12c0-.59 0-1 .59-1z"/></svg>

</button>

<div class="site-header-menu">

<nav class="site-header-nav">

Features

Business

Explore

Marketplace

Pricing

 </nav>

<div class="site-header-actions">

<div class="header-search scoped-search site-scoped-search js-site-search" role="search">

<!-- "" --><!-- </textarea></xmp> --></option></form><form accept-charset="UTF-8" action="/vt-middleware/cryptacular/search" class="js-site-search-form" data-scoped-search-url="/vt-middleware/cryptacular/search" data-unscoped-search-url="/search" method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="✓" /></div>

<label class="form-control header-search-wrapper js-chromeless-input-container">

This repository

<input type="text"

class="form-control header-search-input js-site-search-focus js-site-search-field is-clearable"

data-hotkey="s"

name="q"

```
value=""
placeholder="Search"
aria-label="Search this repository"
data-unscooped-placeholder="Search GitHub"
data-scoped-placeholder="Search"
autocapitalize="off">
  <input type="hidden" class="js-site-search-type-field" name="type" >
</label>
</form></div>
```

```
  <a class="text-bold site-header-link" href="/login?return_to=%2Fvt-
middleware%2Fcryptacular%2Fblob%2Fmaster%2FNOTICE" data-ga-click="(Logged out) Header, clicked Sign
in, text:sign-in">Sign in</a>
  <span class="text-gray">or</span>
  <a class="text-bold site-header-link" href="/join?source=header-repo" data-ga-click="(Logged out) Header,
clicked Sign up, text:sign-up">Sign up</a>
</div>
</div>
</div>
</header>
```

```
</div>
```

```
<div id="start-of-content" class="show-on-focus"></div>
```

```
<div id="js-flash-container">
</div>
```

```
<div role="main">
  <div itemscope itemtype="http://schema.org/SoftwareSourceCode">
  <div id="js-repo-pjax-container" data-pjax-container>
```

```
<div class="pagehead repohead instapaper_ignore readability-menu experiment-repo-nav">
  <div class="container repohead-details-container">
```

```
    <ul class="pagehead-actions">
  <li>
    <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
```

```
class="btn btn-sm btn-with-count tooltiped tooltiped-n"
aria-label="You must be signed in to watch a repository" rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-eye" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M8.06 2C3 2 0 8 0 8s3 6 8.06 6C13 14 16 8 16 8s-3-6-7.94-6zM8 12c-
2.2 0-4-1.78-4-4 0-2.2 1.8-4 4-4 2.22 0 4 1.8 4 4 0 2.22-1.78 4-4 4zm2-4c0 1.11-.89 2-2 2-1.11 0-2-.89-2-2 0-
1.11.89-2 2-2 1.11 0 2 .89 2 2z"/></svg>
  Watch
</a>
<a class="social-count" href="/vt-middleware/cryptacular/watchers"
  aria-label="9 users are watching this repository">
  9
</a>

</li>

<li>
  <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
  class="btn btn-sm btn-with-count tooltiped tooltiped-n"
  aria-label="You must be signed in to star a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-star" height="16" version="1.1" viewBox="0 0 14 16"
    width="14"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 4.9 5.36 0 6l3.6 3.26L2.67 14 7 11.67 11.33 14l-.93-
4.74z"/></svg>
    Star
  </a>

  <a class="social-count js-social-count" href="/vt-middleware/cryptacular/stargazers"
  aria-label="15 users starred this repository">
    15
  </a>

</li>

<li>
  <a href="/login?return_to=%2Fvt-middleware%2Fcryptacular"
  class="btn btn-sm btn-with-count tooltiped tooltiped-n"
  aria-label="You must be signed in to fork a repository" rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-repo-forked" height="16" version="1.1" viewBox="0 0 10 16"
    width="10"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 0 0-1 3.72V6L5 8 3 6V4.72A1.993 1.993 0 0 0 2
1a1.993 1.993 0 0 0-1 3.72V6.5l3 3v1.78A1.993 1.993 0 0 0 5 15a1.993 1.993 0 0 0 1-3.72V9.5l3-3V4.72A1.993
1.993 0 0 0 8 1zM2 4.2C1.34 4.2 8 3.65 8 3c0-.65-.55-1.2 1.2-1.2.65 0 1.25 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3 10c-
.66 0-1.2-.55-1.2-1.2 0-.65-.55-1.2 1.2-1.2.65 0 1.25 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-10c-.66 0-1.2-.55-1.2-1.2 0-
.65-.55-1.2 1.2-1.2.65 0 1.25 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
    Fork
  </a>

  <a href="/vt-middleware/cryptacular/network" class="social-count"
  aria-label="1 user forked this repository">
    1
```


<h1 class="public ">

<svg aria-hidden="true" class="octicon octicon-repo" height="16" version="1.1" viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>

vt-middleware<!--

--><!--

--><strong itemprop="name">cryptacular

</h1>

</div>

<div class="container">

<nav class="reponav js-repo-nav js-sidenav-container-pjax"

itemscope

itemtype="http://schema.org/BreadcrumbList"

role="navigation"

data-pjax="#js-repo-pjax-container">

<svg aria-hidden="true" class="octicon octicon-code" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path fill-rule="evenodd" d="M9.5 3L8 4.5 11.5 8 8 11.5 9.5 13 14 8 9.5 3zm-5 0L0 8l4.5 5L6 11.5 2.5 8 6 4.5 4.5 3z"/></svg>

Code

<meta itemprop="position" content="1">

<svg aria-hidden="true" class="octicon octicon-issue-opened" height="16" version="1.1" viewBox="0 0 14 16" width="14"><path fill-rule="evenodd" d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7s-2.56 5.7-5.7 5.7 5.7 5.7 5.7 5.7 0 0 1 1.3 8c0-3.14 2.56-5.7 5.7-5.7zm7 1c3.14 1 0 4.14 0 8s3.14 7 7 7-3.14 7-7 7zm1 3H6v5h2V4zm0 6H6v2h2v-2z"/></svg>

Issues

4

<meta itemprop="position" content="2">


```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
  <a href="/vt-middleware/cryptacular/pulls" class="js-selected-navigation-item reponav-item" data-hotkey="g p"
data-selected-links="repo_pulls /vt-middleware/cryptacular/pulls" itemprop="url">
    <svg aria-hidden="true" class="octicon octicon-git-pull-request" height="16" version="1.1" viewBox="0 0 12
16" width="12"><path fill-rule="evenodd" d="M11 11.28V5c-.03-.78-.34-1.47-.94-2.06C9.46 2.35 8.78 2.03 8
2H7V0L4 3l3 3V4h1c.27.02.48.11.69.31.21.23.42.31.69v6.28A1.993 1.993 0 0 0 10 15a1.993 1.993 0 0 0 1-
3.72zm-1 2.92c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zM4 3c0-1.11-
.89-2-2a1.993 1.993 0 0 0-1 3.72v6.56A1.993 1.993 0 0 0 2 15a1.993 1.993 0 0 0 1-3.72V4.72c.59-.34 1-.98 1-
1.72zm-.8 10c0 .66-.55 1.2-1.2 1.2-.65 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2zM2 4.2C1.34 4.2.8
3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>
    <span itemprop="name">Pull requests</span>
    <span class="Counter">1</span>
    <meta itemprop="position" content="3">
  </a> </span>
```

```
<a href="/vt-middleware/cryptacular/projects" class="js-selected-navigation-item reponav-item" data-selected-
links="repo_projects new_repo_project repo_project /vt-middleware/cryptacular/projects">
  <svg aria-hidden="true" class="octicon octicon-project" height="16" version="1.1" viewBox="0 0 15 16"
width="15"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1
1h13V1H1v14zM14 0H1a1 1 0 0 0-1 1v14a1 1 0 0 0 1 1h13a1 1 0 0 0 1-1V1a1 1 0 0 0-1-1z"/></svg>
  Projects
  <span class="Counter" >0</span>
</a>
```

```
<div class="reponav-dropdown js-menu-container">
  <button type="button" class="btn-link reponav-item reponav-dropdown js-menu-target " data-no-toggle aria-
expanded="false" aria-haspopup="true">
    Insights
    <svg aria-hidden="true" class="octicon octicon-triangle-down v-align-middle text-gray" height="11"
version="1.1" viewBox="0 0 12 16" width="8"><path fill-rule="evenodd" d="M0 5l6 6 6-6z"/></svg>
  </button>
  <div class="dropdown-menu-content js-menu-content">
    <div class="dropdown-menu dropdown-menu-sw">
      <a class="dropdown-item" href="/vt-middleware/cryptacular/pulse" data-skip-pjax>
        <svg aria-hidden="true" class="octicon octicon-pulse" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M11.5 8L8.8 5.4 6.6 8.5 5.5 1.6 2.38 8H0v2h3.6l9-1.8.9 5.4L9 8.511.6
1.5H14V8z"/></svg>
        Pulse
      </a>
      <a class="dropdown-item" href="/vt-middleware/cryptacular/graphs" data-skip-pjax>
        <svg aria-hidden="true" class="octicon octicon-graph" height="16" version="1.1" viewBox="0 0 16 16"
width="16"><path fill-rule="evenodd" d="M16 14v1H0V0h1v14h15zM5 13H3V8h2v5zm4 0H7V3h2v10zm4 0h-
2V6h2v7z"/></svg>
        Graphs
      </a>
    </div>
  </div>
```

```
</div>
</div>
</nav>
```

```
</div>
</div>
```

```
<div class="container new-discussion-timeline experiment-repo-nav">
  <div class="repository-content">
```

```
<a href="/vt-middleware/cryptacular/blob/c26911e3cd28497ce9daa3ce682e09cb2d1d8688/NOTICE" class="d-
none js-permalink-shortcut" data-hotkey="y">Permalink</a>
```

```
<!-- blob contrib key: blob_contributors:v21:f5054b9e46039e0ad937c69e6151b7d4 -->
```

```
<div class="file-navigation js-zeroclipboard-container">
```

```
<div class="select-menu branch-select-menu js-menu-container js-select-menu float-left">
  <button class=" btn btn-sm select-menu-button js-menu-target css-truncate" data-hotkey="w"
```

```
  type="button" aria-label="Switch branches or tags" aria-expanded="false" aria-haspopup="true">
```

```
    <i>Branch:</i>
```

```
    <span class="js-select-button css-truncate-target">master</span>
```

```
</button>
```

```
<div class="select-menu-modal-holder js-menu-content js-navigation-container" data-pjax>
```

```
<div class="select-menu-modal">
```

```
<div class="select-menu-header">
```

```
  <svg aria-label="Close" class="octicon octicon-x js-menu-close" height="16" role="img" version="1.1"
  viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M7.48 8l3.75-1.48 1.48L6 9.48l-3.75 3.75-
  1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 5.52l3.75-3.75 1.48 1.48z"/></svg>
```

```
  <span class="select-menu-title">Switch branches/tags</span>
```

```
</div>
```

```
<div class="select-menu-filters">
```

```
<div class="select-menu-text-filter">
```

```
  <input type="text" aria-label="Filter branches/tags" id="context-commitish-filter-field" class="form-control
  js-filterable-field js-navigation-enable" placeholder="Filter branches/tags">
```

```
</div>
```

```
<div class="select-menu-tabs">
```

```
<ul>
```

```
<li class="select-menu-tab">
```

```
  <a href="#" data-tab-filter="branches" data-filter-placeholder="Filter branches/tags" class="js-select-menu-
  tab" role="tab">Branches</a>
```

```
</li>
```

```
<li class="select-menu-tab">
```

```
<a href="#" data-tab-filter="tags" data-filter-placeholder="Find a tag" class="js-select-menu-tab"
role="tab">Tags</a>
</li>
</ul>
</div>
</div>
```

```
<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="branches"
role="menu">
```

```
<div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">
```

```
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middlewre/cryptacular/blob/ISSUE-31+32/NOTICE"
data-name="ISSUE-31+32"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text">
ISSUE-31+32
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middlewre/cryptacular/blob/gh-pages/NOTICE"
data-name="gh-pages"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text">
gh-pages
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open selected"
href="/vt-middlewre/cryptacular/blob/master/NOTICE"
data-name="master"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target js-select-menu-filter-text">
master
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middlewre/cryptacular/blob/v1.1/NOTICE"
```

```
    data-name="v1.1"
    data-skip-pjax="true"
    rel="nofollow">
    <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
    <span class="select-menu-item-text css-truncate-target js-select-menu-filter-text">
      v1.1
    </span>
  </a>
</div>
```

```
<div class="select-menu-no-results">Nothing to show</div>
</div>
```

```
<div class="select-menu-list select-menu-tab-bucket js-select-menu-tab-bucket" data-tab-filter="tags">
  <div data-filterable-for="context-commitish-filter-field" data-filterable-type="substring">
```

```
    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/vt-middleware/cryptacular/tree/v1.2.1/NOTICE"
      data-name="v1.2.1"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
      <span class="select-menu-item-text css-truncate-target" title="v1.2.1">
        v1.2.1
      </span>
    </a>
```

```
    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/vt-middleware/cryptacular/tree/v1.2.0/NOTICE"
      data-name="v1.2.0"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
      <span class="select-menu-item-text css-truncate-target" title="v1.2.0">
        v1.2.0
      </span>
    </a>
```

```
    <a class="select-menu-item js-navigation-item js-navigation-open "
      href="/vt-middleware/cryptacular/tree/v1.1.2/NOTICE"
      data-name="v1.1.2"
      data-skip-pjax="true"
      rel="nofollow">
      <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
      <span class="select-menu-item-text css-truncate-target" title="v1.1.2">
```

```

    v1.1.2
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/vt-middleware/cryptacular/tree/v1.1.1/NOTICE"
  data-name="v1.1.1"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
  <span class="select-menu-item-text css-truncate-target" title="v1.1.1">
    v1.1.1
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/vt-middleware/cryptacular/tree/v1.1.0/NOTICE"
  data-name="v1.1.0"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
  <span class="select-menu-item-text css-truncate-target" title="v1.1.0">
    v1.1.0
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/vt-middleware/cryptacular/tree/v1.0/NOTICE"
  data-name="v1.0"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
  <span class="select-menu-item-text css-truncate-target" title="v1.0">
    v1.0
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
  href="/vt-middleware/cryptacular/tree/v1.0-RC6/NOTICE"
  data-name="v1.0-RC6"
  data-skip-pjax="true"
  rel="nofollow">
  <svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4-4 1.5-1.5L4 10l6.5-6.5z"/></svg>
  <span class="select-menu-item-text css-truncate-target" title="v1.0-RC6">
    v1.0-RC6
  </span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "

```

```
href="/vt-middleware/cryptacular/tree/v1.0-RC4/NOTICE"
data-name="v1.0-RC4"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4 4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target" title="v1.0-RC4">
v1.0-RC4
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC3/NOTICE"
data-name="v1.0-RC3"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4 4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target" title="v1.0-RC3">
v1.0-RC3
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC2/NOTICE"
data-name="v1.0-RC2"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4 4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target" title="v1.0-RC2">
v1.0-RC2
</span>
</a>
<a class="select-menu-item js-navigation-item js-navigation-open "
href="/vt-middleware/cryptacular/tree/v1.0-RC1/NOTICE"
data-name="v1.0-RC1"
data-skip-pjax="true"
rel="nofollow">
<svg aria-hidden="true" class="octicon octicon-check select-menu-item-icon" height="16" version="1.1"
viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M12 5l-8 8-4 4 1.5-1.5L4 10l6.5-6.5z"/></svg>
<span class="select-menu-item-text css-truncate-target" title="v1.0-RC1">
v1.0-RC1
</span>
</a>
</div>

<div class="select-menu-no-results">Nothing to show</div>
</div>
```

</div>

</div>

</div>

<div class="BtnGroup float-right">

<a href="/vt-middlewre/cryptacular/find/master"
class="js-pjax-capture-input btn btn-sm BtnGroup-item"
data-pjax
data-hotkey="t">

Find file

<button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm BtnGroup-item tooltip
tooltip-s" data-copied-hint="Copied!" type="button">Copy path</button>

</div>

<div class="breadcrumb js-zeroclipboard-target">

<a href="/vt-
middleware/cryptacular">cryptacular<strong
class="final-path">NOTICE

</div>

</div>

<div class="commit-tease">

<a class="commit-tease-sha" href="/vt-
middleware/cryptacular/commit/6dd6f199ac3ecc3b4c5aef9e04be3bbe265a30a1" data-pjax>
6dd6f19

<relative-time datetime="2017-07-06T22:28:36Z">Jul 7, 2017</relative-time>

<div>

dfish3r

<a href="/vt-middlewre/cryptacular/commit/6dd6f199ac3ecc3b4c5aef9e04be3bbe265a30a1"
class="message" data-pjax="true" title="Update year in notice.">Update year in notice.

</div>

<div class="commit-tease-contributors">

<button type="button" class="btn-link muted-link contributors-toggle" data-facebox="#blob_contributors_box">
1

contributor

</button>

</div>

<div id="blob_contributors_box" style="display:none">

```

<h2 class="facebox-header" data-facebox-id="facebox-header">Users who have contributed to this file</h2>
<ul class="facebox-user-list" data-facebox-id="facebox-description">
  <li class="facebox-user-list-item">
    
    <a href="/dfish3r">dfish3r</a>
  </li>
</ul>
</div>
</div>

<div class="file">
  <div class="file-header">
  <div class="file-actions">

    <div class="BtnGroup">
      <a href="/vt-middleware/cryptacular/raw/master/NOTICE" class="btn btn-sm BtnGroup-item" id="raw-
url">Raw</a>
      <a href="/vt-middleware/cryptacular/blame/master/NOTICE" class="btn btn-sm js-update-url-with-hash
BtnGroup-item" data-hotkey="b">Blame</a>
      <a href="/vt-middleware/cryptacular/commits/master/NOTICE" class="btn btn-sm BtnGroup-item"
rel="nofollow">History</a>
    </div>

    <button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
      <svg aria-hidden="true" class="octicon octicon-pencil" height="16" version="1.1" viewBox="0 0 14 16"
width="14"><path fill-rule="evenodd" d="M0 12v3h3l8-8-3-3-8 8zm3 2H1v-2h1v1h1v1zm10.3-9.3L12 6 9 3l1.3-
1.3a.996.996 0 0 1 1.41 0l1.59 1.59c.39.39 1.02 0 1.41z"/></svg>
    </button>
    <button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
      <svg aria-hidden="true" class="octicon octicon-trashcan" height="16" version="1.1" viewBox="0 0 12 16"
width="12"><path fill-rule="evenodd" d="M11 2H9c0-.55-.45-1-1-1H5c-.55 0-1 .45-1 1H2c-.55 0-1 .45-1 1v1c0
.55.45 1 1 1v9c0 .55.45 1 1 1h7c.55 0 1-.45 1-1V5c.55 0 1-.45 1-1V3c0-.55-.45-1-1zm-1
12H3V5h1v8h1V5h1v8h1V5h1v8h1V5h1v9zm1-10H2V3h9v1z"/></svg>
    </button>
  </div>

  <div class="file-info">
    7 lines (5 sloc)
    <span class="file-info-divider"></span>
    165 Bytes
  </div>
</div>

```

```

<div itemprop="text" class="blob-wrapper data type-text">
  <table class="highlight tab-size js-file-line-container" data-tab-size="8">
    <tr>
      <td id="L1" class="blob-num js-line-number" data-line-number="1"></td>
      <td id="LC1" class="blob-code blob-code-inner js-file-line">Cryptacular Java Library</td>
    </tr>
    <tr>
      <td id="L2" class="blob-num js-line-number" data-line-number="2"></td>
      <td id="LC2" class="blob-code blob-code-inner js-file-line">Copyright (C) 2003-2017 Virginia Tech.</td>
    </tr>
    <tr>
      <td id="L3" class="blob-num js-line-number" data-line-number="3"></td>
      <td id="LC3" class="blob-code blob-code-inner js-file-line">All rights reserved.</td>
    </tr>
    <tr>
      <td id="L4" class="blob-num js-line-number" data-line-number="4"></td>
      <td id="LC4" class="blob-code blob-code-inner js-file-line">
</td>
    </tr>
    <tr>
      <td id="L5" class="blob-num js-line-number" data-line-number="5"></td>
      <td id="LC5" class="blob-code blob-code-inner js-file-line">This product includes software developed at</td>
    </tr>
    <tr>
      <td id="L6" class="blob-num js-line-number" data-line-number="6"></td>
      <td id="LC6" class="blob-code blob-code-inner js-file-line">Virginia Tech (http://www.vt.edu).</td>
    </tr>
  </table>

</div>

</div>

<button type="button" data-facebox="#jump-to-line" data-facebox-class="linejump" data-hotkey="l" class="d-
none">Jump to Line</button>
<div id="jump-to-line" style="display:none">
  <!-- "" --><!-- </textarea></xmp> --></option></form><form accept-charset="UTF-8" action="" class="js-jump-
to-line-form" method="get"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden"
value="&#x2713;" /></div>
  <input class="form-control linejump-input js-jump-to-line-field" type="text" placeholder="Jump to line&hellip;"
aria-label="Jump to line" autofocus>
  <button type="submit" class="btn">Go</button>
</form> </div>

</div>
<div class="modal-backdrop js-touch-events"></div>

```

</div>

</div>

</div>

</div>

<div class="container site-footer-container">

<div class="site-footer " role="contentinfo">

<ul class="site-footer-links float-right">

Contact
GitHub

API

Training

Shop

Blog

About

<svg aria-hidden="true" class="octicon octicon-mark-github" height="24" version="1.1" viewBox="0 0 16 16" width="24"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 4.07 5.55-17.55-.38 0-.19-.01-.82-.01-1.49-2.01-3.7-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53 6.3-.01 1.08 5.8 1.23 8.72 1.21 1.87 8.72 2.33 6.67-.52 2.8-.87 5.1-1.07 1.78-.2 3.64-.89 3.64-3.95 0-.87 3.1-1.59 8.2-2.15-.08-.2-.36-1.02 0.8-2.12 0 0-.67-.21 2.82-.64 1.8 1.32-.27 2.27 6.8 0 1.36 0.9 2.27 1.53-1.04 2.2-.82 2.2-.82 44 1.1 1.6 1.92 0.8 2.12 5.1 5.6 8.2 1.27 8.2 2.15 0 3.07-1.87 3.75-3.65 3.95 29.25 54.73 54 1.48 0 1.07-.01 1.93-.01 2.2 0 .21 1.5 46.55 38 8.013 8.013 0 0 16 8c0-4.42-3.58-8-8z"/></svg>

<ul class="site-footer-links">

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Status

Help

</div>

</div>

<div id="ajax-error-message" class="ajax-error-message flash flash-error">

<svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16" width="16"><path fill-rule="evenodd" d="M8.865 1.52c-.18-.31-.51-.5-.87-.5s-.69 19-.87 5L2.75 13.5c-.18 31-

.18.69 0 1 .19.31.52.5.87.5h13.7c.36 0 .69-.19.86-.5.17-.31.18-.69.01-1L8.865 1.52zM8.995 13h-2v-2h2v2zm0-3h-2V6h2v4z"/></svg>

<button type="button" class="flash-close js-flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
<svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>

</button>

You can't perform that action at this time.

</div>

<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/compat-91f98c37fc84eac24836eec2567e9912742094369a04c4eba6e3cd1fa18902d9.js"></script>

<script crossorigin="anonymous" src="https://assets-cdn.github.com/assets/frameworks-f84bb87b149685d1e6c6f057ee324f2cd496e677f5a359a8b5db853313bb83e6.js"></script>

<script async="async" crossorigin="anonymous" src="https://assets-cdn.github.com/assets/github-13fa3aa50ac8f9fa9a7d198f0cd13b0905775d39446ad076d17d8f74a998438a.js"></script>

<div class="js-stale-session-flash stale-session-flash flash flash-warn flash-banner d-none">

<svg aria-hidden="true" class="octicon octicon-alert" height="16" version="1.1" viewBox="0 0 16 16" width="16"><path fill-rule="evenodd" d="M8.865 1.52c-.18-.31-.51-.5-.87-.5s-.69.19-.87.5L2.75 13.5c-.18.31-.18.69 0 1 .19.31.52.5.87.5h13.7c.36 0 .69-.19.86-.5.17-.31.18-.69.01-1L8.865 1.52zM8.995 13h-2v-2h2v2zm0-3h-2V6h2v4z"/></svg>

You signed in with another tab or window. Reload to refresh your session.

You signed out in another tab or window. Reload to refresh your session.

</div>

<div class="facebox" id="facebox" style="display:none;">

<div class="facebox-popup">

<div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-description">

</div>

<button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">

<svg aria-hidden="true" class="octicon octicon-x" height="16" version="1.1" viewBox="0 0 12 16" width="12"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77 4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48z"/></svg>

</button>

</div>

</div>

</body>

</html>

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Version 1.1

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*/

package org.elasticsearch.license;

```
import org.elasticsearch.action.Action;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
```

```
import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Requests;
import org.elasticsearch.cluster.health.ClusterHealthStatus;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.Priority;
import org.elasticsearch.common.UUIDs;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.discovery.zen.UnicastZenPing;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.ESIntegTestCase.Scope;
import org.elasticsearch.test.InternalTestCluster;
import org.elasticsearch.test.NodeConfigurationSource;
import org.elasticsearch.test.TestCluster;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.CompositeTestingXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.core.ml.MachineLearningField;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.upgrade.Upgrade;
import org.elasticsearch.xpack.watcher.Watcher;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.function.Function;

import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertAcked;
```

```

import static org.hamcrest.Matchers.anyOf;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = Scope.TEST, transportClientRatio = 0, numClientNodes = 1, numDataNodes = 2)
public abstract class TribeTransportTestCase extends ESIntegTestCase {

    protected List<String> enabledFeatures() {
        return Collections.emptyList();
    }

    @Override
    protected final Settings nodeSettings(int nodeOrdinal) {
        final Settings.Builder builder = Settings.builder()
            .put(NetworkModule.HTTP_ENABLED.getKey(), false)
            .put("transport.type", getTestTransportType());
        List<String> enabledFeatures = enabledFeatures();
        builder.put(XPackSettings.SECURITY_ENABLED.getKey(),
enabledFeatures.contains(XPackField.SECURITY));
        builder.put(XPackSettings.MONITORING_ENABLED.getKey(),
enabledFeatures.contains(XPackField.MONITORING));
        builder.put(XPackSettings.WATCHER_ENABLED.getKey(),
enabledFeatures.contains(XPackField.WATCHER));
        builder.put(XPackSettings.GRAPH_ENABLED.getKey(), enabledFeatures.contains(XPackField.GRAPH));
        builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(),
enabledFeatures.contains(XPackField.MACHINE_LEARNING));
        builder.put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false);
        return builder.build();
    }

    @Override
    protected boolean ignoreExternalCluster() {
        return true;
    }

    @Override
    protected boolean addTestZenDiscovery() {
        return false;
    }

    public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

        public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
            super(settings);
        }

        @Override
        public Settings additionalSettings() {

```

```

    if (settings.getGroups("tribe", true).isEmpty()) {
        return super.additionalSettings();
    } else {
        return Settings.EMPTY;
    }
}
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }

}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    plugins.add(CompositeTestingXPackPlugin.class);
    plugins.add(CommonAnalysisPlugin.class);
    return plugins;
}

@Override
protected final Collection<Class<? extends Plugin>> transportClientPlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    plugins.add(XPackClientPlugin.class);
    plugins.add(CommonAnalysisPlugin.class);
    return plugins;
}

public void testTribeSetup() throws Exception {
    NodeConfigurationSource nodeConfigurationSource = new NodeConfigurationSource() {
        @Override
        public Settings nodeSettings(int nodeOrdinal) {
            return TribeTransportTestCase.this.nodeSettings(nodeOrdinal);
        }
    }

    @Override
    public Path nodeConfigPath(int nodeOrdinal) {

```

```

        return null;
    }

    @Override
    public Collection<Class<? extends Plugin>> nodePlugins() {
        return TribeTransportTestCase.this.nodePlugins();
    }

    @Override
    public Settings transportClientSettings() {
        return TribeTransportTestCase.this.transportClientSettings();
    }

    @Override
    public Collection<Class<? extends Plugin>> transportClientPlugins() {
        return TribeTransportTestCase.this.transportClientPlugins();
    }
};
final InternalTestCluster cluster2 = new InternalTestCluster(
    randomLong(), createTempDir(), true, true, 2, 2,
    UUIDs.randomBase64UUID(random()), nodeConfigurationSource, 1, false, "tribe_node2",
    getMockPlugins(), getClientWrapper());

cluster2.beforeTest(random(), 0.0);

logger.info("create 2 indices, test1 on t1, and test2 on t2");
assertAcked(internalCluster().client().admin().indices().prepareCreate("test1").get());
assertAcked(cluster2.client().admin().indices().prepareCreate("test2").get());
ensureYellow(internalCluster());
ensureYellow(cluster2);
// Map<String,String> asMap = internalCluster().getDefaultSettings().getAsMap();
Settings.Builder tribe1Defaults = Settings.builder();
Settings.Builder tribe2Defaults = Settings.builder();
internalCluster().getDefaultSettings().keySet().forEach(k -> {
    if (k.startsWith("path.") == false) {
        tribe1Defaults.copy(k, internalCluster().getDefaultSettings());
        tribe2Defaults.copy(k, internalCluster().getDefaultSettings());
    }
});
tribe1Defaults.normalizePrefix("tribe.t1.");
tribe2Defaults.normalizePrefix("tribe.t2.");
// give each tribe it's unicast hosts to connect to
tribe1Defaults.putList("tribe.t1." +
UnicastZenPing.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(internalCluster().client()));
tribe1Defaults.putList("tribe.t2." +
UnicastZenPing.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(cluster2.client()));

```

```

Settings merged = Settings.builder()
    .put("tribe.t1.cluster.name", internalCluster().getClusterName())
    .put("tribe.t2.cluster.name", cluster2.getClusterName())
    .put("tribe.t1.transport.tcp.port", 0)
    .put("tribe.t2.transport.tcp.port", 0)
    .put("tribe.t1.transport.type", getTestTransportType())
    .put("tribe.t2.transport.type", getTestTransportType())
    .put("tribe.blocks.write", false)
    .put(tribe1Defaults.build())
    .put(tribe2Defaults.build())
    .put(NetworkModule.HTTP_ENABLED.getKey(), false)
    .put(internalCluster().getDefaultSettings())
    .put(XPackSettings.SECURITY_ENABLED.getKey(), false) // otherwise it conflicts with mock transport
    .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
    .put("tribe.t1." + XPackSettings.SECURITY_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.SECURITY_ENABLED.getKey(), false)
    .put("tribe.t1." + XPackSettings.WATCHER_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.WATCHER_ENABLED.getKey(), false)
    .put("tribe.t1." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t1." + MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
    .put("tribe.t2." + MachineLearningField.AUTODETECT_PROCESS.getKey(), false)
    .put("node.name", "tribe_node") // make sure we can identify threads from this node
    .put("transport.type", getTestTransportType())
    .build();

```

```

final List<Class<? extends Plugin>> mockPlugins = Arrays.asList(MockTribePlugin.class,
TribeAwareTestZenDiscoveryPlugin.class,
    getTestTransportPlugin(), Deprecation.class, Graph.class, Logstash.class, MachineLearning.class,
Monitoring.class,
    Security.class, Upgrade.class, Watcher.class, XPackPlugin.class);
final Node tribeNode = new MockNode(merged, mockPlugins).start();
Client tribeClient = tribeNode.client();

```

```

logger.info("wait till tribe has the same nodes as the 2 clusters");
assertBusy() -> {
    DiscoveryNodes tribeNodes = tribeNode.client().admin().cluster().prepareState().get().getState().getNodes();
    assertThat(countDataNodesForTribe("t1", tribeNodes),
        equalTo(internalCluster().client().admin().cluster().prepareState().get().getState()
            .getNodes().getDataNodes().size()));
    assertThat(countDataNodesForTribe("t2", tribeNodes),
        equalTo(cluster2.client().admin().cluster().prepareState().get().getState()
            .getNodes().getDataNodes().size()));
});
logger.info("--> verify transport actions for tribe node");
verifyActionOnTribeNode(tribeClient);

```

```

logger.info(" --> verify transport actions for data node");
verifyActionOnDataNode((randomBoolean() ? internalCluster() : cluster2).dataNodeClient());
logger.info(" --> verify transport actions for master node");
verifyActionOnMasterNode((randomBoolean() ? internalCluster() : cluster2).masterClient());
logger.info(" --> verify transport actions for client node");
verifyActionOnClientNode((randomBoolean() ? internalCluster() : cluster2).coordOnlyNodeClient());
try {
    cluster2.wipe(Collections.<String>emptySet());
} finally {
    cluster2.afterTest();
}
tribeNode.close();
cluster2.close();
}

/**
 * Verify transport action behaviour on client node
 */
protected abstract void verifyActionOnClientNode(Client client) throws Exception;

/**
 * Verify transport action behaviour on master node
 */
protected abstract void verifyActionOnMasterNode(Client masterClient) throws Exception;

/**
 * Verify transport action behaviour on data node
 */
protected abstract void verifyActionOnDataNode(Client dataNodeClient) throws Exception;

/**
 * Verify transport action behaviour on tribe node
 */
protected abstract void verifyActionOnTribeNode(Client tribeClient) throws Exception;

protected void failAction(Client client, Action action) {
    try {
        client.execute(action, action.newRequestBuilder(client).request());
        fail("expected [" + action.name() + "] to fail");
    } catch (IllegalStateException e) {
        assertThat(e.getMessage(), containsString("failed to find action"));
    }
}

private void ensureYellow(TestCluster testCluster) {
    ClusterHealthResponse actionGet = testCluster.client().admin().cluster()
        .health(Requests.clusterHealthRequest().waitForYellowStatus()
            .waitForEvents(Priority.LANGUID).waitForNoRelocatingShards(true)).actionGet();
}

```

```

    if (actionGet.isTimedOut()) {
        logger.info("ensureGreen timed out, cluster state:\n{}\n{}", testCluster.client().admin().cluster()
            .prepareState().get().getState(),
            testCluster.client().admin().cluster().preparePendingClusterTasks().get());
        assertThat("timed out waiting for yellow state", actionGet.isTimedOut(), equalTo(false));
    }
    assertThat(actionGet.getStatus(), anyOf(equalTo(ClusterHealthStatus.YELLOW),
equalTo(ClusterHealthStatus.GREEN)));
}

private int countDataNodesForTribe(String tribeName, DiscoveryNodes nodes) {
    int count = 0;
    for (DiscoveryNode node : nodes) {
        if (!node.isDataNode()) {
            continue;
        }
        if (tribeName.equals(node.getAttributes().get("tribe.name"))) {
            count++;
        }
    }
    return count;
}

private static String[] getUnicastHosts(Client client) {
    ArrayList<String> unicastHosts = new ArrayList<>();
    NodesInfoResponse nodeInfos = client.admin().cluster().prepareNodesInfo().clear().setTransport(true).get();
    for (NodeInfo info : nodeInfos.getNodes()) {
        TransportAddress address = info.getTransport().getAddress().publishAddress();
        unicastHosts.add(address.getAddress() + ":" + address.getPort());
    }
    return unicastHosts.toArray(new String[unicastHosts.size()]);
}

}
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 */
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import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.monitoring.MonitoringField;

```

```

import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.function.BiFunction;

/**
 * A holder for the current state of the license for all xpack features.
 */
public class XPackLicenseState {

    /** Messages for each feature which are printed when the license expires. */
    static final Map<String, String[]> EXPIRATION_MESSAGES;
    static {
        Map<String, String[]> messages = new LinkedHashMap<>();
        messages.put(XPackField.SECURITY, new String[] {
            "Cluster health, cluster stats and indices stats operations are blocked",
            "All data operations (read and write) continue to work"
        });
        messages.put(XPackField.WATCHER, new String[] {
            "PUT / GET watch APIs are disabled, DELETE watch API continues to work",
            "Watches execute and write to the history",
            "The actions of the watches don't execute"
        });
        messages.put(XPackField.MONITORING, new String[] {
            "The agent will stop collecting cluster and indices metrics",
            "The agent will stop automatically cleaning indices older than [xpack.monitoring.history.duration]"
        });
        messages.put(XPackField.GRAPH, new String[] {
            "Graph explore APIs are disabled"
        });
        messages.put(XPackField.MACHINE_LEARNING, new String[] {
            "Machine learning APIs are disabled"
        });
        messages.put(XPackField.LOGSTASH, new String[] {
            "Logstash will continue to poll centrally-managed pipelines"
        });
        messages.put(XPackField.DEPRECACTION, new String[] {
            "Deprecation APIs are disabled"
        });
        messages.put(XPackField.UPGRADE, new String[] {
            "Upgrade API is disabled"
        });
        messages.put(XPackField.SQL, new String[] {
            "SQL support is disabled"
        });
    }
}

```

```

    });
    messages.put(XPackField.ROLLUP, new String[] {
        "Creating and Starting rollup jobs will no longer be allowed.",
        "Stopping/Deleting existing jobs, RollupCaps API and RollupSearch continue to function."
    });
    EXPIRATION_MESSAGES = Collections.unmodifiableMap(messages);
}

/**
 * Messages for each feature which are printed when the license type changes.
 * The value is a function taking the old and new license type, and returns the messages for that feature.
 */
static final Map<String, BiFunction<OperationMode, OperationMode, String[]>>
ACKNOWLEDGMENT_MESSAGES;
static {
    Map<String, BiFunction<OperationMode, OperationMode, String[]>> messages = new LinkedHashMap<>();
    messages.put(XPackField.SECURITY, XPackLicenseState::securityAcknowledgementMessages);
    messages.put(XPackField.WATCHER, XPackLicenseState::watcherAcknowledgementMessages);
    messages.put(XPackField.MONITORING, XPackLicenseState::monitoringAcknowledgementMessages);
    messages.put(XPackField.GRAPH, XPackLicenseState::graphAcknowledgementMessages);
    messages.put(XPackField.MACHINE_LEARNING,
XPackLicenseState::machineLearningAcknowledgementMessages);
    messages.put(XPackField.LOGSTASH, XPackLicenseState::logstashAcknowledgementMessages);
    messages.put(XPackField.SQL, XPackLicenseState::sqlAcknowledgementMessages);
    ACKNOWLEDGMENT_MESSAGES = Collections.unmodifiableMap(messages);
}

private static String[] securityAcknowledgementMessages(OperationMode currentMode, OperationMode
newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                            "ip filtering, and auditing. Please restart your node after applying the license.",
                        "Field and document level access control will be disabled.",
                        "Custom realms will be ignored."
                    };
            }
            break;
        case GOLD:
            switch (currentMode) {
                case BASIC:
                case STANDARD:

```

```

        // ^^ though technically it was already disabled, it's not bad to remind them
    case TRIAL:
    case PLATINUM:
        return new String[] {
            "Field and document level access control will be disabled.",
            "Custom realms will be ignored."
        };
    }
    break;
case STANDARD:
    switch (currentMode) {
        case BASIC:
            // ^^ though technically it was already disabled, it's not bad to remind them
        case GOLD:
        case PLATINUM:
        case TRIAL:
            return new String[] {
                "Authentication will be limited to the native realms.",
                "IP filtering and auditing will be disabled.",
                "Field and document level access control will be disabled.",
                "Custom realms will be ignored."
            };
        }
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode
newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Watcher will be disabled" };
            }
        break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] monitoringAcknowledgementMessages(OperationMode currentMode, OperationMode
newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {

```

```

    case TRIAL:
    case STANDARD:
    case GOLD:
    case PLATINUM:
        return new String[] {
            LoggerMessageFormat.format(
                "Multi-cluster support is disabled for clusters with [{}] license. If you are\n" +
                "running multiple clusters, users won't be able to access the clusters with\n" +
                "[{}] licenses from within a single X-Pack Kibana instance. You will have to deploy a\n" +
                "separate and dedicated X-pack Kibana instance for each [{}] cluster you wish to monitor.",
                newMode, newMode, newMode),
            LoggerMessageFormat.format(
                "Automatic index cleanup is locked to {} days for clusters with [{}] license.",
                MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
        };
    }
    break;
}
return Strings.EMPTY_ARRAY;
}

private static String[] graphAcknowledgementMessages(OperationMode currentMode, OperationMode newMode)
{
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "Graph will be disabled" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] machineLearningAcknowledgementMessages(OperationMode currentMode,
OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "Machine learning will be disabled" };
            }
    }
}

```

```

        break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] logstashAcknowledgementMessages(OperationMode currentMode, OperationMode
newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Logstash will no longer poll for centrally-managed pipelines" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "JDBC support will be disabled, but you can continue to use SQL CLI and
REST endpoint" };
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

/** A wrapper for the license mode and state, to allow atomically swapping. */
private static class Status {

    /** The current "mode" of the license (ie license type). */
    final OperationMode mode;

    /** True if the license is active, or false if it is expired. */
    final boolean active;

    Status(OperationMode mode, boolean active) {
        this.mode = mode;
    }
}

```

```

        this.active = active;
    }
}

private volatile Status status = new Status(OperationMode.TRIAL, true);
private final List<Runnable> listeners = new CopyOnWriteArrayList<>();
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;

public XPackLicenseState(Settings settings) {
    this.isSecurityEnabled = XPackSettings.SECURITY_ENABLED.get(settings);
    // 6.0+ requires TLS for production licenses, so if TLS is enabled and security is enabled
    // we can interpret this as an explicit enabling of security if the security enabled
    // setting is not explicitly set
    this.isSecurityExplicitlyEnabled = isSecurityEnabled &&
        (settings.hasValue(XPackSettings.SECURITY_ENABLED.getKey()) ||
XPackSettings.TRANSPORT_SSL_ENABLED.get(settings));
}

/** Updates the current state of the license, which will change what features are available. */
void update(OperationMode mode, boolean active) {
    status = new Status(mode, active);
    listeners.forEach(Runnable::run);
}

/** Add a listener to be notified on license change */
public void addListener(Runnable runnable) {
    listeners.add(Objects.requireNonNull(runnable));
}

/** Remove a listener */
public void removeListener(Runnable runnable) {
    listeners.remove(runnable);
}

/** Return the current license type. */
public OperationMode getOperationMode() {
    return status.mode;
}

/** Return true if the license is currently within its time boundaries, false otherwise. */
public boolean isActive() {
    return status.active;
}

/**
 * @return true if authentication and authorization should be enabled. this does not indicate what realms are
available

```

```

* @see #allowedRealmType() for the enabled realms
*/
public boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.STANDARD || mode == OperationMode.GOLD || mode ==
OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
* @return true if IP filtering should be enabled
*/
public boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
* @return true if auditing should be enabled
*/
public boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
* Indicates whether the stats and health API calls should be allowed. If a license is expired and past the grace
* period then we deny these calls.
*
* @return true if the license allows for the stats and health APIs to be used.
*/
public boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
* Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
* <p>
* DLS and FLS are only disabled when the mode is not:
* <ul>
* <li>{@link OperationMode#PLATINUM}</li>
* <li>{@link OperationMode#TRIAL}</li>
* </ul>
* Note: This does not consider the <em>state</em> of the license so that Security does not suddenly leak
information!
*

```

```

* @return {@code true} to enable DLS and FLS. Otherwise {@code false}.
*/
public boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL || mode == OperationMode.PLATINUM;
}

/** Classes of realms that may be available based on the license type. */
public enum AllowedRealmType {
    NONE,
    NATIVE,
    DEFAULT,
    ALL
}

/**
* @return the type of realms that are enabled based on the license {@link OperationMode}
*/
public AllowedRealmType allowedRealmType() {
    switch (status.mode) {
        case PLATINUM:
        case TRIAL:
            return AllowedRealmType.ALL;
        case GOLD:
            return AllowedRealmType.DEFAULT;
        case STANDARD:
            return AllowedRealmType.NATIVE;
        default:
            return AllowedRealmType.NONE;
    }
}

/**
* @return whether custom role providers are allowed based on the license {@link OperationMode}
*/
public boolean isCustomRoleProvidersAllowed() {
    final Status localStatus = status;
    return (localStatus.mode == OperationMode.PLATINUM || localStatus.mode == OperationMode.TRIAL )
        && localStatus.active;
}

/**
* Determine if Watcher is available based on the current license.
* <p>
* Watcher is available if the license is active (hasn't expired) and of one of the following types:
* <ul>
* <li>{@link OperationMode#STANDARD}</li>
* <li>{@link OperationMode#PLATINUM}</li>

```

```

* <li>{ @link OperationMode#GOLD}</li>
* <li>{ @link OperationMode#TRIAL}</li>
* </ul>
*
* @return { @code true} as long as the license is valid. Otherwise { @code false}.
*/
public boolean isWatcherAllowed() {
    // status is volatile, so a local variable is used for a consistent view
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}

/**
 * Monitoring is always available as long as there is a valid license
 *
 * @return true if the license is active
 */
public boolean isMonitoringAllowed() {
    return status.active;
}

/**
 * Monitoring Cluster Alerts requires the equivalent license to use Watcher.
 *
 * @return { @link #isWatcherAllowed()}
 * @see #isWatcherAllowed()
 */
public boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}

/**
 * Determine if the current license allows the retention of indices to be modified.
 * <p>
 * Only users with a non-{@link OperationMode#BASIC} license can update the retention period.

```

```

* <p>
* Note: This does not consider the <em>state</em> of the license so that any change is remembered for when
they fix their license.
*
* @return {@code true} if the user is allowed to modify the retention. Otherwise {@code false}.
*/
public boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}

/**
* Determine if Graph Exploration should be enabled.
* <p>
* Exploration is only disabled when the license has expired or if the mode is not:
* <ul>
* <li>{@link OperationMode#PLATINUM}</li>
* <li>{@link OperationMode#TRIAL}</li>
* </ul>
*
* @return {@code true} as long as the license is valid. Otherwise {@code false}.
*/
public boolean isGraphAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
* Determine if Machine Learning should be enabled.
* <p>
* Machine Learning is only disabled when the license has expired or if the
* mode is not:
* <ul>
* <li>{@link OperationMode#PLATINUM}</li>
* <li>{@link OperationMode#TRIAL}</li>
* </ul>
*
* @return {@code true} as long as the license is valid. Otherwise
*     {@code false}.
*/
public boolean isMachineLearningAllowed() {
    // status is volatile

```

```

    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
 * Rollup is always available as long as there is a valid license
 *
 * @return true if the license is active
 */
public boolean isRollupAllowed() {
    return status.active;
}

/**
 * Logstash is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return { @code true } as long as there is a valid license
 */
public boolean isLogstashAllowed() {
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}

/**
 * Deprecation APIs are always allowed as long as there is an active license
 * @return { @code true } as long as there is a valid license
 */
public boolean isDeprecationAllowed() {
    return status.active;
}

```

```

/**
 * Determine if Upgrade API should be enabled.
 * <p>
 * Upgrade API is not available in for all license types except { @link OperationMode#MISSING}
 *
 * @return { @code true} as long as the license is valid. Otherwise
 *         { @code false}.
 */
public boolean isUpgradeAllowed() {
    // status is volatile
    Status localStatus = status;
    // Should work on all active licenses
    return localStatus.active;
}

/**
 * Determine if SQL support should be enabled.
 * <p>
 * SQL is available for all license types except { @link OperationMode#MISSING}
 */
public boolean isSqlAllowed() {
    return status.active;
}

/**
 * Determine if JDBC support should be enabled.
 * <p>
 * JDBC is available only in for { @link OperationMode#PLATINUM} and { @link OperationMode#TRIAL}
licences
 */
public boolean isJdbcAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

public boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
}

public boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode ==

```

```

OperationMode.STANDARD ||
    mode == OperationMode.TRIAL;
}

public boolean isSecurityEnabled() {
    final OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL ? isSecurityExplicitlyEnabled : isSecurityEnabled;
}
}
/*
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 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import org.junit.Before;

import java.util.function.Predicate;

import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.MONITOR;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.READ;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

public class PermissionTests extends ESTestCase {
    private Role permission;

    @Before
    public void init() {
        Role.Builder builder = Role.builder("test");
        builder.add(MONITOR, "test_*", "/foo.*/*");
        builder.add(READ, "baz_*foo", "/fool.*bar/*");
        builder.add(MONITOR, "/bar.*/*");
        permission = builder.build();
    }

    public void testAllowedIndicesMatcherAction() throws Exception {
        testAllowedIndicesMatcher(permission.indices().allowedIndicesMatcher(GetAction.NAME));
    }

    public void testAllowedIndicesMatcherActionCaching() throws Exception {
        Predicate<String> matcher1 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        Predicate<String> matcher2 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
    }
}

```

```

    assertThat(matcher1, is(matcher2));
}

public void testBuildEmptyRole() {
    Role.Builder permission = Role.builder(new String[] { "some_role" });
    Role role = permission.build();
    assertThat(role, notNullValue());
    assertThat(role.cluster(), notNullValue());
    assertThat(role.indices(), notNullValue());
    assertThat(role.runAs(), notNullValue());
}

public void testRunAs() {
    Role permission = Role.builder("some_role")
        .runAs(new Privilege("name", "user1", "run*"))
        .build();
    assertThat(permission.runAs().check("user1"), is(true));
    assertThat(permission.runAs().check("user"), is(false));
    assertThat(permission.runAs().check("run" + randomAlphaOfLengthBetween(1, 10)), is(true));
}

// "baz_*foo", "/fool.*bar/"
private void testAllowedIndicesMatcher(Predicate<String> indicesMatcher) {
    assertThat(indicesMatcher.test("foobar"), is(false));
    assertThat(indicesMatcher.test("fool"), is(false));
    assertThat(indicesMatcher.test("fool2bar"), is(true));
    assertThat(indicesMatcher.test("baz_foo"), is(true));
    assertThat(indicesMatcher.test("barbapapa"), is(false));
}
}

```

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Elasticsearch

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apply plugin: 'elasticsearch.build'

```
dependencies {
    compile project(xpackModule('core'))
    compile "org.elasticsearch:elasticsearch:${version}"
    testCompile "org.elasticsearch.test:framework:${version}"
}
```

```
project.forbiddenPatterns {
    exclude '**/*.key'
}
```

```
dependencyLicenses.enabled = false
```

```
task buildZip(type: Zip, dependsOn: jar) {
    String parentDir = "license-tools-${version}"
    into(parentDir + '/lib') {
        from jar
        from configurations.runtime
    }
    into(parentDir + '/bin') {
        from 'bin'
    }
}
```

```
assemble.dependsOn buildZip
```

```
/*
```

```
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
```

```
*/
```

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.action.support.master.AcknowledgedResponse;
```

```
import org.elasticsearch.common.io.stream.StreamInput;
```

```
import org.elasticsearch.common.io.stream.StreamOutput;
```

```

import java.io.IOException;

public class DeleteLicenseResponse extends AcknowledgedResponse {

    DeleteLicenseResponse() {
    }

    DeleteLicenseResponse(boolean acknowledged) {
        super(acknowledged);
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        readAcknowledged(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        writeAcknowledged(out);
    }

}
/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissions;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReferenceArray;

import static org.hamcrest.Matchers.containsString;

```

```

public class FieldPermissionsTests extends ESTestCase {

    public void testParseFieldPermissions() throws Exception {
        String q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], \" +
            \"field_security\": { \" +
            \"grant\": [\"f1\", \"f2\", \"f3\", \"f4\"],\" +
            \"except\": [\"f3\", \"f4\"]\" +
            \"}}}]";
        RoleDescriptor rd =
            RoleDescriptor.parse("test", new ByteArray(q), false, XContentType.JSON);
        assertEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2", "f3", "f4" });
        assertEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
            new String[] { "f3", "f4" });

        q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], \" +
            \"field_security\": { \" +
            \"except\": [\"f3\", \"f4\"],\" +
            \"grant\": [\"f1\", \"f2\", \"f3\", \"f4\"]\" +
            \"}}}]";
        rd = RoleDescriptor.parse("test", new ByteArray(q), false, XContentType.JSON);
        assertEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2", "f3", "f4" });
        assertEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
            new String[] { "f3", "f4" });

        q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], \" +
            \"field_security\": { \" +
            \"grant\": [\"f1\", \"f2\"]\" +
            \"}}}]";
        rd = RoleDescriptor.parse("test", new ByteArray(q), false, XContentType.JSON);
        assertEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
            new String[] { "f1", "f2" });
        assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

        q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], \" +
            \"field_security\": { \" +
            \"grant\": []\" +
            \"}}}]";
        rd = RoleDescriptor.parse("test", new ByteArray(q), false, XContentType.JSON);
        assertEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
        assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

        q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], \" +
            \"field_security\": { \" +
            \"except\": [],\" +
            \"grant\": []\" +

```

```

    }}}}";
rd = RoleDescriptor.parse("test", new ByteArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(), new String[] {});

final String exceptWithoutGrant = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": \" +
    \" [\"p3\", \"field_security\": {\" +
    \"except\": [\"f1\"]\" +
    }]}]";
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new ByteArray(exceptWithoutGrant), false,
        XContentType.JSON));
assertThat(e.getDetailedMessage(),
    containsString("failed to parse indices privileges for role [test]. field_security"
        + " requires grant if except is given"));

final String grantNull = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\", \" +
    \"field_security\": {\" +
    \"grant\": null\" +
    }]}]";
e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new ByteArray(grantNull), false,
        XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for" +
    " role [test]. grant must not be null.));

final String exceptNull = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": \" +
    \" [\"p3\", \"field_security\": {\" +
    \"grant\": [\"*\"]\", \" +
    \"except\": null\" +
    }]}]";
e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new ByteArray(exceptNull), false,
        XContentType.JSON));
assertThat(e.getDetailedMessage(),
    containsString("failed to parse indices privileges for role [test]. except must" +
        " not be null.));

final String exceptGrantNull = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": \" +
    \" [\"p3\", \"field_security\": {\" +
    \"grant\": null, \" +
    \"except\": null\" +
    }]}]";
e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new ByteArray(exceptGrantNull), false,
        XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges " +
    "for role [test]. grant must not be null.));

```

```

final String bothFieldsMissing = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": \" +
    \"p3\", \"field_security\": { \" +
    \"}}]\"";
e = expectThrows(ElasticsearchParseException.class,
    () -> RoleDescriptor.parse("test", new ByteArray(bothFieldsMissing), false,
        XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges \" +
    \"for role [test]. \"field_security\" must not be empty."));

// try with two indices and mix order a little
q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\", \" +
    \"field_security\": { \" +
    \"grant\": []\" +
    \"}}, \" +
    {\"names\": \"idx3\", \"n\" +
    \"field_security\": { \"n\" +
    \"grant\": [\"*\"]\", \"n\" +
    \"except\": [\"f2\"]}], \" +
    \"privileges\": [\"p3\"]} ]}";
rd = RoleDescriptor.parse("test", new ByteArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
assertArrayEquals(rd.getIndicesPrivileges()[1].getGrantedFields(), new String[] { "*" });
assertArrayEquals(rd.getIndicesPrivileges()[1].getDeniedFields(), new String[] { "f2" });
}

// test old syntax for field permissions
public void testBWCFIELDPermissions() throws Exception {
    String q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\", \" +
        \"fields\": [\"f1\", \"f2\"]\" +
        \"}}]\"";
    RoleDescriptor rd = RoleDescriptor.parse("test", new ByteArray(q), true,
        XContentType.JSON);
    assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
        new String[] { "f1", "f2" });
    assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

    final String failingQuery = q;
    ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
        () -> RoleDescriptor.parse("test", new ByteArray(failingQuery), false,
            XContentType.JSON));
    assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has \" +
        \"changed for field permissions in role [test]\" +
        \", use [\"field_security\": {\"grant\": [...], \"except\": [...]}] instead"));

    q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\", \" +
        \"fields\": []\" +

```

```

    "}}}";
    rd = RoleDescriptor.parse("test", new ByteArray(q), true, XContentType.JSON);
    assertEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{});
    assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
    final String failingQuery2 = q;
    e = expectThrows(ElasticsearchParseException.class,
        () -> RoleDescriptor.parse("test", new ByteArray(failingQuery2), false,
            XContentType.JSON));
    assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has " +
        "changed for field permissions in role [test]" +
        ", use [\"field_security\": {\"grant\":[...],\"except\":[...]}} instead"));

    q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], " +
        "\"fields\": null" +
        "}] }";
    rd = RoleDescriptor.parse("test", new ByteArray(q), true, XContentType.JSON);
    assertNull(rd.getIndicesPrivileges()[0].getGrantedFields());
    assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
    final String failingQuery3 = q;
    e = expectThrows(ElasticsearchParseException.class,
        () -> RoleDescriptor.parse("test", new ByteArray(failingQuery3), false,
            XContentType.JSON));
    assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has " +
        "changed for field permissions in role [test]" +
        ", use [\"field_security\": {\"grant\":[...],\"except\":[...]}} instead"));
}

public void testFieldPermissionsHashCodeThreadSafe() throws Exception {
    final int numThreads = scaledRandomIntBetween(4, 16);
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[] { "*" }, new String[] { "foo" }));
    final CountDownLatch latch = new CountDownLatch(numThreads + 1);
    final AtomicReferenceArray<Integer> hashCodes = new AtomicReferenceArray<>(numThreads);
    List<Thread> threads = new ArrayList<>(numThreads);
    for (int i = 0; i < numThreads; i++) {
        final int threadNum = i;
        threads.add(new Thread(() -> {
            latch.countDown();
            try {
                latch.await();
            } catch (InterruptedException e) {
                Thread.currentThread().interrupt();
            }
            final int hashCode = fieldPermissions.hashCode();
            hashCodes.set(threadNum, hashCode);
        }));
    }
}

```

```

    for (Thread thread : threads) {
        thread.start();
    }
    latch.countDown();
    for (Thread thread : threads) {
        thread.join();
    }

    final int hashCode = fieldPermissions.hashCode();
    for (int i = 0; i < numThreads; i++) {
        assertEquals((Integer) hashCode, hashCodes.get(i));
    }
}

public void testAllFieldIsAutomaticallyExcludedIfNotExplicitlyGranted() throws Exception {
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[] { "_a*" }, new String[0]));
    assertTrue(fieldPermissions.grantsAccessTo("_animal"));
    assertFalse(fieldPermissions.grantsAccessTo("_all"));
}

public void testAllFieldIsNotExcludedIfExplicitlyGranted() throws Exception {
    final String[] grant = { "foo", "bar", "baz", "_all" };
    Collections.shuffle(Arrays.asList(grant), random());

    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(grant, new String[0]));

    assertTrue(fieldPermissions.grantsAccessTo("_all"));
    assertTrue(fieldPermissions.grantsAccessTo("foo"));
    assertTrue(fieldPermissions.grantsAccessTo("bar"));
    assertTrue(fieldPermissions.grantsAccessTo("baz"));
    assertFalse(fieldPermissions.grantsAccessTo(randomAlphaOfLengthBetween(5, 8)));
}
}
}

```

Apache Commons Compress

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This product includes software developed at
The Apache Software Foundation (<http://www.apache.org/>).

The files in the package `org.apache.commons.compress.archivers.sevenz`
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (<http://www.7-zip.org/sdk.html>)

qngwM}UiK0b2q]c+I &f~]d}oOId
5A(^WDJ}-O?uN5vp{t7#Vqktwm]Lz"| QlQs><}[2Z|57%D

Yxn:ILH2HvEEW\H:6h9 [!+;.w7C_]*D`?xU/3>xU+

/*

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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.

*/

```
package org.elasticsearch.license;
```

```
import org.elasticsearch.action.support.master.AcknowledgedResponse;
```

```
import org.elasticsearch.common.Strings;
```

```
import org.elasticsearch.common.io.stream.StreamInput;
```

```
import org.elasticsearch.common.io.stream.StreamOutput;
```

```
import org.elasticsearch.common.xcontent.XContentBuilder;
```

```
import java.io.IOException;
```

```
import java.util.Collections;
```

```
import java.util.HashMap;
```

```
import java.util.Map;
```

```
public class PutLicenseResponse extends AcknowledgedResponse {
```

```
    private LicensesStatus status;
```

```
    private Map<String, String[]> acknowledgeMessages;
```

```
    private String acknowledgeHeader;
```

```
    PutLicenseResponse() {
```

```
    }
```

```
    public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
```

```
        this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
```

```
    }
```

```
    public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
```

```
        Map<String, String[]> acknowledgeMessages) {
```

```
        super(acknowledged);
```

```
        this.status = status;
```

```
        this.acknowledgeHeader = acknowledgeHeader;
```

```
        this.acknowledgeMessages = acknowledgeMessages;
```

```
    }
```

```
    public LicensesStatus status() {
```

```
        return status;
```

```
    }
```

```
    public Map<String, String[]> acknowledgeMessages() {
```

```
        return acknowledgeMessages;
```

```
    }
```

```
public String acknowledgeHeader() {
    return acknowledgeHeader;
}
```

@Override

```
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    readAcknowledged(in);
    status = LicensesStatus.fromId(in.readVInt());
    acknowledgeHeader = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}
```

@Override

```
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    writeAcknowledged(out);
    out.writeVInt(status.id());
    out.writeOptionalString(acknowledgeHeader);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}
```

@Override

```
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    switch (status) {
        case VALID:
            builder.field("license_status", "valid");
            break;
        case INVALID:
            builder.field("license_status", "invalid");
    }
}
```

```

        break;
    case EXPIRED:
        builder.field("license_status", "expired");
        break;
    default:
        throw new IllegalArgumentException("unknown status [" + status + "] found");
    }
    if (!acknowledgeMessages.isEmpty()) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeHeader);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}

@Override
public String toString() {
    return Strings.toString(this, true, true);
}
}
/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.apache.http.message.BasicHeader;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.stats.NodesStatsResponse;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsIndices;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsResponse;
import org.elasticsearch.action.admin.indices.stats.IndicesStatsResponse;
import org.elasticsearch.action.index.IndexResponse;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.transport.NoNodeAvailableException;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.routing.ShardRoutingState;

```

```

import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.SecureString;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.SecurityIntegTestCase;
import org.elasticsearch.test.SecuritySettingsSource;
import org.elasticsearch.test.SecuritySettingsSourceField;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.security.SecurityField;
import org.elasticsearch.xpack.core.security.action.user.GetUsersResponse;
import org.elasticsearch.xpack.core.security.authc.support.UsernamePasswordToken;
import org.elasticsearch.xpack.core.security.client.SecurityClient;
import org.elasticsearch.xpack.security.LocalStateSecurity;
import org.junit.After;
import org.junit.Before;

```

```

import java.nio.file.Files;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;

```

```

import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.greaterThanOrEqualTo;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

```

```

@TestLogging("org.elasticsearch.cluster.service:TRACE,org.elasticsearch.discovery.zen:TRACE,org.elasticsearch.
action.search:TRACE," +

```

```

    "org.elasticsearch.search:TRACE")

```

```

public class LicensingTests extends SecurityIntegTestCase {

```

```

    public static final String ROLES =

```

```

        SecuritySettingsSource.TEST_ROLE + ":\n" +

```

```

            " cluster: [ all ]\n" +

```

```

            " indices:\n" +

```

```

" - names: "*" +
"   privileges: [manage]" +
" - names: "/*/" +
"   privileges: [write]" +
" - names: 'test'" +
"   privileges: [read]" +
" - names: 'test1'" +
"   privileges: [read]" +
"\"" +
"role_a:" +
" indices:" +
" - names: 'a'" +
"   privileges: [all]" +
"\"" +
"role_b:" +
" indices:" +
" - names: 'b'" +
"   privileges: [all]";

public static final String USERS =
    SecuritySettingsSource.CONFIG_STANDARD_USER +
    "user_a:{plain}passwd" +
    "user_b:{plain}passwd";

public static final String USERS_ROLES =
    SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
    "role_a:user_a,user_b" +
    "role_b:user_b";

@Override
protected String configRoles() {
    return ROLES;
}

@Override
protected String configUsers() {
    return USERS;
}

@Override
protected String configUsersRoles() {
    return USERS_ROLES;
}

@Override
public Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(super.nodeSettings(nodeOrdinal))
        .put(NetworkModule.HTTP_ENABLED.getKey(), true)

```

```

        .put(TestZenDiscovery.USE MOCK_PINGS.getKey(), false)
        .build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
        plugins.add(Netty4Plugin.class); // for http
        return plugins;
    }

    @Override
    protected int maxNumberOfNodes() {
        return super.maxNumberOfNodes() + 1;
    }

    @Before
    public void resetLicensing() {
        enableLicensing();
    }

    @After
    public void cleanupSecurityIndex() {
        deleteSecurityIndex();
    }

    public void testEnableDisableBehaviour() throws Exception {
        IndexResponse indexResponse = index("test", "type", jsonBuilder()
            .startObject()
            .field("name", "value")
            .endObject());
        assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

        indexResponse = index("test1", "type", jsonBuilder()
            .startObject()
            .field("name", "value1")
            .endObject());
        assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

        refresh();
        // wait for all replicas to be started (to make sure that there are no more cluster state updates when we disable
        licensing)
        assertBusy(() -> assertTrue(client().admin().cluster().prepareState().get().getState().routingTable()
            .shardsWithState(ShardRoutingState.INITIALIZING).isEmpty()));

        Client client = internalCluster().transportClient();

```

```

disableLicensing();

assertElasticsearchSecurityException(() -> client.admin().indices().prepareStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareClusterStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareHealth().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareNodesStats().get());

enableLicensing(randomFrom(License.OperationMode.values()));

IndicesStatsResponse indicesStatsResponse = client.admin().indices().prepareStats().get();
assertNoFailures(indicesStatsResponse);

ClusterStatsResponse clusterStatsNodeResponse = client.admin().cluster().prepareClusterStats().get();
assertThat(clusterStatsNodeResponse, notNullValue());
ClusterStatsIndices indices = clusterStatsNodeResponse.getIndicesStats();
assertThat(indices, notNullValue());
assertThat(indices.getIndexCount(), greaterThanOrEqualTo(2));

ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
assertThat(clusterIndexHealth, notNullValue());

NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
assertThat(nodeStats, notNullValue());
}

public void testRestAuthenticationByLicenseType() throws Exception {
    Response response = getRestClient().performRequest("GET", "/");
    // the default of the licensing tests is basic
    assertThat(response.getStatusLine().getStatusCode(), is(200));
    ResponseException e = expectThrows(ResponseException.class,
        () -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate"));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(403));

    // generate a new license with a mode that enables auth
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
        License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    e = expectThrows(ResponseException.class, () -> getRestClient().performRequest("GET", "/"));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
    e = expectThrows(ResponseException.class,
        () -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate"));
    assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

    final String basicAuthValue =
UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
        new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray()));
    response = getRestClient().performRequest("GET", "/", new BasicHeader("Authorization", basicAuthValue));
}

```

```

    assertThat(response.getStatusLine().getStatusCode(), is(200));
    response = getRestClient().performRequest("GET", "/_xpack/security/_authenticate",
        new BasicHeader("Authorization", basicAuthValue));
    assertThat(response.getStatusLine().getStatusCode(), is(200));

}

public void testSecurityActionsByLicenseType() throws Exception {
    // security actions should not work!
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        new SecurityClient(client).prepareGetUsers().get();
        fail("security actions should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
    }

    // enable a license that enables security
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
        License.OperationMode.TRIAL,
        License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    // security actions should not work!
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        GetUsersResponse response = new SecurityClient(client).prepareGetUsers().get();
        assertNotNull(response);
    }
}

public void testTransportClientAuthenticationByLicenseType() throws Exception {
    Settings.Builder builder = Settings.builder()
        .put(internalCluster().transportClient().settings());
    // remove user info
    builder.remove(SecurityField.USER_SETTING.getKey());
    builder.remove(ThreadContext.PREFIX + "." + UsernamePasswordToken.BASIC_AUTH_HEADER);

    // basic has no auth
    try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        assertGreenClusterState(client);
    }
}

```

```

// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
    License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    client.admin().cluster().prepareHealth().get();
    fail("should not have been able to connect to a node!");
} catch (NoNodeAvailableException e) {
    // expected
}
}

public void testNodeJoinWithoutSecurityExplicitlyEnabled() throws Exception {
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    ensureGreen();

    Path home = createTempDir();
    Path conf = home.resolve("config");
    Files.createDirectories(conf);
    Settings nodeSettings = Settings.builder()
        .put(nodeSettings(maxNumberOfNodes() - 1).filter(s -> "xpack.security.enabled".equals(s) == false))
        .put("node.name", "my-test-node")
        .put("network.host", "localhost")
        .put("cluster.name", internalCluster().getClusterName())
        .put("discovery.zen.minimum_master_nodes",
            internalCluster().getInstance(Settings.class).get("discovery.zen.minimum_master_nodes"))
        .put("path.home", home)
        .put(TestZenDiscovery.USE MOCK PINGS.getKey(), false)
        .put(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
        .put(DiscoveryModule.DISCOVERY_HOSTS_PROVIDER_SETTING.getKey(), "test-zen")
        .build();
    Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
TestZenDiscovery.TestPlugin.class);
    try (Node node = new MockNode(nodeSettings, mockPlugins)) {
        node.start();
        ensureStableCluster(cluster().size() + 1);
    }
}

private static void assertElasticsearchSecurityException(ThrowingRunnable runnable) {
    ElasticsearchSecurityException ee = expectThrows(ElasticsearchSecurityException.class, runnable);
    assertThat(ee.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),

```

```

hasItem(XPackField.SECURITY));
    assertThat(ee.status(), is(RestStatus.FORBIDDEN));
}

public static void disableLicensing() {
    disableLicensing(License.OperationMode.BASIC);
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false);
    }
}

public static void enableLicensing() {
    enableLicensing(License.OperationMode.BASIC);
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true);
    }
}
}

```

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Charset detection code from ICU4J (<http://site.icu-project.org/>)

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JUnRAR (<https://github.com/edmund-wagner/junrar/>)

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```
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~~~~~
```

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```
/*
```

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```

```
*/
```

```
package org.elasticsearch.test;
```

```
import org.elasticsearch.Build;
import org.elasticsearch.common.bytes.ByteArray;
import org.elasticsearch.common.settings.Settings;
```

```

import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.GetLicenseResponse;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicensesStatus;
import org.elasticsearch.license.LicensingClient;
import org.elasticsearch.license.PutLicenseResponse;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.AfterClass;

import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.URL;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;

import static org.hamcrest.CoreMatchers.equalTo;

public class LicensingTribeIT extends ESIntegTestCase {
    private static TestCluster cluster2;
    private static TestCluster tribeNode;

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Collections.singletonList(XPackPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    public void setUp() throws Exception {
        super.setUp();
        if (cluster2 == null) {
            cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
        }
        if (tribeNode == null) {
            tribeNode = buildExternalCluster(System.getProperty("tests.tribe"));
        }
    }
}

```

```

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    Settings.Builder builder = Settings.builder();
    builder.put(super.nodeSettings(nodeOrdinal));
    return builder.build();
}

@AfterClass
public static void tearDownExternalClusters() throws IOException {
    if (cluster2 != null) {
        try {
            cluster2.close();
        } finally {
            cluster2 = null;
        }
    }
    if (tribeNode != null) {
        try {
            tribeNode.close();
        } finally {
            tribeNode = null;
        }
    }
}

@Override
protected Settings externalClusterClientSettings() {
    Settings.Builder builder = Settings.builder();
    builder.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
    builder.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
    builder.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
    builder.put(XPackSettings.GRAPH_ENABLED.getKey(), false);
    builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false);
    return builder.build();
}

private ExternalTestCluster buildExternalCluster(String clusterAddresses) throws IOException {
    String[] stringAddresses = clusterAddresses.split(",");
    TransportAddress[] transportAddresses = new TransportAddress[stringAddresses.length];
    int i = 0;
    for (String stringAddress : stringAddresses) {
        URL url = new URL("http://" + stringAddress);
        InetAddress inetAddress = InetAddress.getByName(url.getHost());
        transportAddresses[i++] = new TransportAddress(new InetSocketAddress(inetAddress, url.getPort()));
    }
    return new ExternalTestCluster(createTempDir(), externalClusterClientSettings(), transportClientPlugins(),
    transportAddresses);
}

```

```

public void testLicensePropagateToTribeNode() throws Exception {
    assumeTrue("License is only valid when tested against snapshot/test keys", Build.CURRENT.isSnapshot());
    // test that auto-generated basic license propagates to tribe
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new
LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertEquals(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
    });

    // test that signed license with higher operation mode takes precedence
    LicensingClient cluster2Client = new LicensingClient(cluster2.client());
    PutLicenseResponse licenseResponse = cluster2Client
        .preparePutLicense(License.fromSource(new
ByteArray(PLATINUM_LICENSE.getBytes(StandardCharsets.UTF_8)), XContentType.JSON))
        .setAcknowledge(true).get();
    assertEquals(licenseResponse.isAcknowledged(), equalTo(true));
    assertEquals(licenseResponse.status(), equalTo(LicensesStatus.VALID));
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new
LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertEquals(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.PLATINUM));
    });

    // test removing signed license falls back works
    assertTrue(cluster2Client.prepareDeleteLicense().get().isAcknowledged());
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new
LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertEquals(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
    });
}

```

```

public void testDummy() throws Exception {
    // this test is here so that testLicensePropagateToTribeNode's assumption
    // doesn't result in this test suite to have no tests run and trigger a build failure
}

```

```

private static final String PLATINUM_LICENSE = "{\"license\":{\"uid\":\"1\",\"type\":\"platinum\"," +
    "\"issue_date_in_millis\":1411948800000,\"expiry_date_in_millis\":1914278399999,\"max_nodes\":1,\" +
    "\"issued_to\":\"issuedTo\",\"issuer\":\"issuer\"}," +
    "\"signature\":\"AAAAAwAAAA2hWlkvKcxQIpdVWdCtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxO" +
    "WpSbTVoMVZwUzRxVk1\" +
    \"PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZ" +
    "SQi9iNmRQNkw1SlpLN0I\" +

```

```

"DalZCS095MXRGN1IIZlpYcVVTTnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0MXZ0dDJHSERiZTVLOHNzSDBY
WnpoZEphZHBEZjUrTVB" +
"xRENNsXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pSOEhQaVB2azhmU
k9QVzhFeTFoM1Q0RnJXSG5" +
"3MWk2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZI
WEtaSU9wTTJENDVvT1NCYkla" +
"cUYyK2FwRW9xa0t6ldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdEN
GWFRreXNKNkE9PQAAAQBWg" +
"u3yZp0KOBG//92X4YVmau3P5asvx0FAPDX2Ze734Tap/nc30X6Rt4yEEem+6bCQr/ibBOqWboJKRbbTZLBQfY
FmL1ZqvAY3bJJ1/Xs" +
"8NyDfxKGztlUt/IIOzHPzxs0f8Bv4OJeK48vjovWaDc1Vmo4n1SGyyL0JcEbOWC6A3U3mBsWn7wLUe+hW9+
akVAYOO5TIcm60ub7k" +
"H/LIZNOhvGglSVDbl3p8EBknMy0CV7urQ0wdG1nLCnfv8/Bit15lC5nLrM9Dt5w3pziPIASzw4iksW/CzyYy5
tjOoWKENxi2EZOB" +
    "9dKyT4mTdvbyBOrTHLdgr4lmHd3qYAEgcTCaQ\", \"start_date_in_millis\":-1}}";
}
/*
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;

import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetTrialStatus extends XPackRestHandler {

    RestGetTrialStatus(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "/license/trial_status", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
    {

```

```

return channel -> client.licensing().prepareGetStartTrial().execute(
    new RestBuilderListener<GetTrialStatusResponse>(channel) {
        @Override
        public RestResponse buildResponse(GetTrialStatusResponse response, XContentBuilder builder) throws
Exception {
            builder.startObject();
            builder.field("eligible_to_start_trial", response.isEligibleToStartTrial());
            builder.endObject();
            return new BytesRestResponse(RestStatus.OK, builder);
        }
    });
}

@Override
public String getName() {
    return "xpack_trial_status_action";
}
}

```

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*/

```
package org.elasticsearch.xpack.monitoring;
```

```
import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.PluginInfo;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.monitoring.test.MonitoringIntegTestCase;
```

```
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;
```

```
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.Matchers.equalTo;
```

```
@ClusterScope(scope = TEST, transportClientRatio = 0, numClientNodes = 0, numDataNodes = 0)
public class MonitoringPluginTests extends MonitoringIntegTestCase {
```

```
    public MonitoringPluginTests() throws Exception {
        super();
    }
```

```
    @Override
    protected void startMonitoringService() {
        // do nothing as monitoring is sometime unbound
    }
```

```

}

@Override
protected void stopMonitoringService() {
    // do nothing as monitoring is sometime unbound
}

@Override
protected boolean addTestZenDiscovery() {
    return false;
}

public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
        if (settings.getGroups("tribe", true).isEmpty()) {
            return super.additionalSettings();
        } else {
            return Settings.EMPTY;
        }
    }
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(MockTribePlugin.class);
    plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
    return plugins;
}

```

```

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder()
        .put(super.nodeSettings(nodeOrdinal))
        .put(MonitoringService.INTERVAL.getKey(), "-1")
        .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
        .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
        .build();
}

@Override
protected Settings transportClientSettings() {
    return Settings.builder()
        .put(super.transportClientSettings())
        .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
        .build();
}

public void testMonitoringEnabled() {
    internalCluster().startNode(Settings.builder()
        .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
        .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}

public void testMonitoringDisabled() {
    internalCluster().startNode(Settings.builder()
        .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
        .build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

public void testMonitoringEnabledOnTribeNode() {
    internalCluster().startNode(Settings.builder()
        .put(XPackSettings.MONITORING_ENABLED.getKey(), true)
        .put("tribe.name", "t1")
        .build());
    assertPluginIsLoaded();
    assertServiceIsBound(MonitoringService.class);
}

public void testMonitoringDisabledOnTribeNode() {
    internalCluster().startNode(Settings.builder().put("tribe.name", "t1").build());
    assertPluginIsLoaded();
    assertServiceIsNotBound(MonitoringService.class);
}

```

```

private void assertPluginIsLoaded() {
    NodesInfoResponse response = client().admin().cluster().prepareNodesInfo().setPlugins(true).get();
    for (NodeInfo nodeInfo : response.getNodes()) {
        assertNotNull(nodeInfo.getPlugins());

        boolean found = false;
        for (PluginInfo plugin : nodeInfo.getPlugins().getPluginInfos()) {
            assertNotNull(plugin);

            if (LocalStateMonitoring.class.getName().equals(plugin.getName())) {
                found = true;
                break;
            }
        }
        assertThat("xpack plugin not found", found, equalTo(true));
    }
}

private void assertServiceIsBound(Class<?> klass) {
    try {
        Object binding = internalCluster().getDataNodeInstance(klass);
        assertNotNull(binding);
        assertTrue(klass.isInstance(binding));
    } catch (Exception e) {
        fail("no service bound for class " + klass.getSimpleName());
    }
}

private void assertServiceIsNotBound(Class<?> klass) {
    try {
        // it should be bound, but directly as null
        assertNull(internalCluster().getDataNodeInstance(klass));
    } catch (Exception ce) {
        assertThat("message contains error about missing implementation: " + ce.getMessage(),
            ce.getMessage().contains("Could not find a suitable constructor"), equalTo(true));
    }
}
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

```

```

public class DeleteLicenseAction extends Action<DeleteLicenseRequest, DeleteLicenseResponse,
DeleteLicenseRequestBuilder> {

    public static final DeleteLicenseAction INSTANCE = new DeleteLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/delete";

    private DeleteLicenseAction() {
        super(NAME);
    }

    @Override
    public DeleteLicenseResponse newResponse() {
        return new DeleteLicenseResponse();
    }

    @Override
    public DeleteLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new DeleteLicenseRequestBuilder(client, this);
    }
}

```

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*/

```
package org.elasticsearch.xpack.monitoring;
```

```
import org.elasticsearch.client.Client;
```

```
import org.elasticsearch.license.TribeTransportTestCase;
```

```
import org.elasticsearch.xpack.core.XPackField;
```

```
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkAction;
```

```
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkRequest;
```

```
import java.util.Collections;
```

```
import java.util.List;
```

```
public class MonitoringTribeTests extends TribeTransportTestCase {
```

```

@Override
protected List<String> enabledFeatures() {
    return Collections.singletonList(XPackField.MONITORING);
}

@Override
protected void verifyActionOnClientNode(Client client) throws Exception {
    assertMonitoringTransportActionsWorks(client);
}

@Override
protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
    assertMonitoringTransportActionsWorks(masterClient);
}

@Override
protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
    assertMonitoringTransportActionsWorks(dataNodeClient);
}

private static void assertMonitoringTransportActionsWorks(Client client) throws Exception {
    client.execute(MonitoringBulkAction.INSTANCE, new MonitoringBulkRequest());
}

@Override
protected void verifyActionOnTribeNode(Client tribeClient) {
    failAction(tribeClient, MonitoringBulkAction.INSTANCE);
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
import org.elasticsearch.common.io.stream.StreamInput;

import java.io.IOException;

public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {

    public GetTrialStatusRequest() {
    }

    @Override

```

```
public ActionRequestValidationException validate() {
    return null;
}
}
```

Apache Log4j SLF4J Binding

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```
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package org.elasticsearch.xpack;
```

```
import org.elasticsearch.common.settings.Settings;
```

```
import org.elasticsearch.license.LicenseService;
```

```
import org.elasticsearch.license.XPackLicenseState;
```

```
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
```

```
import org.elasticsearch.xpack.core.ssl.SSLService;
```

```
import org.elasticsearch.xpack.deprecation.Deprecation;
```

```
import org.elasticsearch.xpack.graph.Graph;
```

```
import org.elasticsearch.xpack.logstash.Logstash;
```

```
import org.elasticsearch.xpack.ml.MachineLearning;
```

```
import org.elasticsearch.xpack.monitoring.Monitoring;
```

```
import org.elasticsearch.xpack.security.Security;
```

```
import org.elasticsearch.xpack.watcher.Watcher;
```

```
import java.nio.file.Path;
```

```
public class CompositeTestingXPackPlugin extends LocalStateCompositeXPackPlugin {
```

```
    public CompositeTestingXPackPlugin(final Settings settings, final Path configPath) throws Exception {
```

```
        super(settings, configPath);
```

```

CompositeTestingXPackPlugin thisVar = this;
plugins.add(new Deprecation());
plugins.add(new Graph(settings));
plugins.add(new Logstash(settings));
plugins.add(new MachineLearning(settings, configPath) {
    @Override
    protected XPackLicenseState getLicenseState() {
        return super.getLicenseState();
    }
});
plugins.add(new Monitoring(settings) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }

    @Override
    protected LicenseService getLicenseService() {
        return thisVar.getLicenseService();
    }

    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    }
});
plugins.add(new Watcher(settings) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }

    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    }
});
plugins.add(new Security(settings, configPath) {
    @Override
    protected SSLService getSslService() { return thisVar.getSslService(); }

    @Override
    protected XPackLicenseState getLicenseState() { return thisVar.getLicenseState(); }
});
}
}
/*

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*/

```
package org.elasticsearch.license;
```

```
import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.io.Streams;
```

```
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Arrays;
import java.util.Base64;
import java.util.Collections;
```

```
/**
```

```
 * Responsible for verifying signed licenses
```

```
*/
```

```
public class LicenseVerifier {
```

```
    /**
```

```
     * verifies the license content with the signature using the packaged
```

```
     * public key
```

```
     * @param license to verify
```

```
     * @return true if valid, false otherwise
```

```
     */
```

```
    public static boolean verifyLicense(final License license, byte[] encryptedPublicKeyData) {
```

```
        byte[] signedContent = null;
```

```
        byte[] signatureHash = null;
```

```
        try {
```

```
            byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
```

```
            ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
```

```
            int version = byteBuffer.getInt();
```

```
            int magicLen = byteBuffer.getInt();
```

```
            byte[] magic = new byte[magicLen];
```

```
            byteBuffer.get(magic);
```

```
            int hashLen = byteBuffer.getInt();
```

```

signatureHash = new byte[hashLen];
byteBuffer.get(signatureHash);
int signedContentLen = byteBuffer.getInt();
signedContent = new byte[signedContentLen];
byteBuffer.get(signedContent);
XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(contentBuilder, new
ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
Signature rsa = Signature.getInstance("SHA512withRSA");
rsa.initVerify(CryptUtils.readEncryptedPublicKey(encryptedPublicKeyData));
BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
BytesRef ref;
while((ref = iterator.next()) != null) {
    rsa.update(ref.bytes, ref.offset, ref.length);
}
return rsa.verify(signedContent)
    && Arrays.equals(Base64.getEncoder().encode(encryptedPublicKeyData), signatureHash);
} catch (IOException | NoSuchAlgorithmException | SignatureException | InvalidKeyException e) {
    throw new IllegalStateException(e);
} finally {
    Arrays.fill(encryptedPublicKeyData, (byte) 0);
    if (signedContent != null) {
        Arrays.fill(signedContent, (byte) 0);
    }
    if (signatureHash != null) {
        Arrays.fill(signatureHash, (byte) 0);
    }
}
}
}

public static boolean verifyLicense(final License license) {
    final byte[] publicKeyBytes;
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key")) {
        ByteArrayOutputStream out = new ByteArrayOutputStream();
        Streams.copy(is, out);
        publicKeyBytes = out.toByteArray();
    } catch (IOException ex) {
        throw new IllegalStateException(ex);
    }
    return verifyLicense(license, publicKeyBytes);
}
}
}

```

Apache XML Security for Java

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`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt`
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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=====
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
=====

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
import org.elasticsearch.common.io.stream.StreamInput;

import java.io.IOException;

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {

public GetBasicStatusRequest() {
}

@Override

public ActionRequestValidationException validate() {
return null;
}

}

{

"xpack.license.get_trial_status": {

"documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",

```
"methods": ["GET"],
"url": {
  "path": "/_xpack/license/trial_status",
  "paths": ["/_xpack/license/trial_status"],
  "parts": {
  },
  "params": {
  }
},
"body": null
}
}
```

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[3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

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ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf
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 */
```

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```

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import org.elasticsearch.client.ElasticsearchClient;

public class GetTrialStatusAction extends Action<GetTrialStatusRequest, GetTrialStatusResponse,
GetTrialStatusRequestBuilder> {

    public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/trial_status";

    private GetTrialStatusAction() {
        super(NAME);
    }

    @Override
    public GetTrialStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetTrialStatusRequestBuilder(client, this);
    }

    @Override
    public GetTrialStatusResponse newResponse() {
        return new GetTrialStatusResponse();
    }
}
{
"xpack.license.post": {
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",
  "methods": ["PUT", "POST"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": {
    },
    "params": {
      "acknowledge": {
        "type": "boolean",
        "description": "whether the user has acknowledged acknowledge messages (default: false)"
      }
    }
  },
  "body": {
    "description": "licenses to be installed"
  }
}
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import org.elasticsearch.action.support.ActionFilters;

import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;

import org.elasticsearch.cluster.ClusterState;

import org.elasticsearch.cluster.block.ClusterBlockException;

import org.elasticsearch.cluster.block.ClusterBlockLevel;

import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;

import org.elasticsearch.cluster.service.ClusterService;

import org.elasticsearch.common.inject.Inject;

import org.elasticsearch.common.settings.Settings;

import org.elasticsearch.threadpool.ThreadPool;

import org.elasticsearch.transport.TransportService;

```
public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest,
GetBasicStatusResponse> {
```

```
    @Inject
```

```
    public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,
```

```
        ThreadPool threadPool, ActionFilters actionFilters,
```

```
        IndexNameExpressionResolver indexNameExpressionResolver) {
```

```

        super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, GetBasicStatusRequest::new);
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }

    @Override
    protected void masterOperation(GetBasicStatusRequest request, ClusterState state,
        ActionListener<GetBasicStatusResponse> listener) throws Exception {
        LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
        if (licensesMetaData == null) {
            listener.onResponse(new GetBasicStatusResponse(true));
        } else {
            License license = licensesMetaData.getLicense();
            listener.onResponse(new GetBasicStatusResponse(license == null || license.type().equals("basic") == false));
        }
    }

    @Override
    protected ClusterBlockException checkBlock(GetBasicStatusRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
    }
}
{
    "xpack.license.post_start_trial": {
        "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",
        "methods": ["POST"],
        "url": {
            "path": "/_xpack/license/start_trial",
            "paths": ["/_xpack/license/start_trial"],
            "parts": {
            },
            "params": {
                "type": {
                    "type": "string",
                    "description": "The type of trial license to generate (default: \"trial\")"
                },
            },
            "acknowledge": {
                "type": "boolean",
            }
        }
    }
}

```

```
"description" : "whether the user has acknowledged acknowledge messages (default: false)"
}
}
},
"body": null
}
}
```

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Test messages from the Perl-MIME-Tools project,

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The End

```
import org.elasticsearch.gradle.test.ClusterConfiguration
import org.elasticsearch.gradle.test.ClusterFormationTasks
import org.elasticsearch.gradle.test.NodeInfo
```

```
apply plugin: 'elasticsearch.standalone-test'
apply plugin: 'elasticsearch.standalone-rest-test'
apply plugin: 'elasticsearch.rest-test'
```

```
dependencies {
    testCompile project(path: ':modules:tribe', configuration: 'runtime')
    testCompile project(path: xpackProject('plugin').path, configuration: 'testArtifacts')
```

```
// TODO: remove all these test deps, this is completely bogus, guava is being force upgraded
testCompile project(path: xpackModule('deprecation'), configuration: 'runtime')
testCompile project(path: xpackModule('graph'), configuration: 'runtime')
testCompile project(path: xpackModule('logstash'), configuration: 'runtime')
testCompile project(path: xpackModule('ml'), configuration: 'runtime')
testCompile project(path: xpackModule('monitoring'), configuration: 'runtime')
```

```

testCompile project(path: xpackModule('security'), configuration: 'runtime')
testCompile project(path: xpackModule('upgrade'), configuration: 'runtime')
testCompile project(path: xpackModule('watcher'), configuration: 'runtime')
testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
testCompile project(path: xpackModule('monitoring'), configuration: 'testArtifacts')
}

compileTestJava.options.compilerArgs << "-Xlint:-rawtypes,-unchecked"
namingConventions.skipIntegTestInDisguise = true

test {
    /*
    * We have to disable setting the number of available processors as tests in the same JVM randomize processors and
    will step on each
    * other if we allow them to set the number of available processors as it's set-once in Netty.
    */
    systemProperty 'es.set.netty.runtime.available.processors', 'false'
    include '**/*Tests.class'
}

String licensePath = xpackProject('license-tools').projectDir.toPath().resolve('src/test/resources').toString()
sourceSets {
    test {
        resources {
            srcDirs += [licensePath]
        }
    }
}

project.forbiddenPatterns {
    exclude '**/*.key'
}

task setupClusterOne {}
ClusterConfiguration cluster1Config = new ClusterConfiguration(project)
cluster1Config.clusterName = 'cluster1'
cluster1Config.setting('node.name', 'cluster1-node1')
// x-pack
cluster1Config.setting('xpack.monitoring.enabled', false)
cluster1Config.setting('xpack.security.enabled', false)
cluster1Config.setting('xpack.watcher.enabled', false)
cluster1Config.setting('xpack.graph.enabled', false)
cluster1Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster1Nodes = ClusterFormationTasks.setup(project, 'clusterOne', setupClusterOne,
cluster1Config)

task setupClusterTwo {}

```

```

ClusterConfiguration cluster2Config = new ClusterConfiguration(project)
cluster2Config.clusterName = 'cluster2'
cluster2Config.setting('node.name', 'cluster2-node1')
// x-pack
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.security.enabled', false)
cluster2Config.setting('xpack.watcher.enabled', false)
cluster2Config.setting('xpack.graph.enabled', false)
cluster2Config.setting('xpack.ml.enabled', false)

```

```

List<NodeInfo> cluster2Nodes = ClusterFormationTasks.setup(project, 'clusterTwo', setupClusterTwo,
cluster2Config)

```

```

integTestCluster {
    dependsOn setupClusterOne, setupClusterTwo
    setting 'node.name', 'tribe-node'
    setting 'tribe.on_conflict', 'prefer_cluster1'
    setting 'tribe.cluster1.cluster.name', 'cluster1'
    setting 'tribe.cluster1.discovery.zen.ping.unicast.hosts', "'${-> cluster1Nodes.get(0).transportUri()}'"
    setting 'tribe.cluster1.http.enabled', 'true'
    setting 'tribe.cluster1.http.port', '0'
    setting 'tribe.cluster1.transport.tcp.port', '0'
    setting 'tribe.cluster1.xpack.monitoring.enabled', false
    setting 'tribe.cluster1.xpack.monitoring.enabled', false
    setting 'tribe.cluster1.xpack.security.enabled', false
    setting 'tribe.cluster1.xpack.watcher.enabled', false
    setting 'tribe.cluster1.xpack.graph.enabled', false
    setting 'tribe.cluster1.xpack.ml.enabled', false
    setting 'tribe.cluster1.xpack.license.self_generated.type', 'trial'
    setting 'tribe.cluster2.cluster.name', 'cluster2'
    setting 'tribe.cluster2.discovery.zen.ping.unicast.hosts', "'${-> cluster2Nodes.get(0).transportUri()}'"
    setting 'tribe.cluster2.http.enabled', 'true'
    setting 'tribe.cluster1.http.port', '0'
    setting 'tribe.cluster1.transport.tcp.port', '0'
    setting 'tribe.cluster2.xpack.monitoring.enabled', false
    setting 'tribe.cluster2.xpack.monitoring.enabled', false
    setting 'tribe.cluster2.xpack.security.enabled', false
    setting 'tribe.cluster2.xpack.watcher.enabled', false
    setting 'tribe.cluster2.xpack.graph.enabled', false
    setting 'tribe.cluster2.xpack.ml.enabled', false
    setting 'tribe.cluster2.xpack.license.self_generated.type', 'trial'
    // x-pack
    setting 'xpack.monitoring.enabled', false
    setting 'xpack.monitoring.enabled', false
    setting 'xpack.security.enabled', false
    setting 'xpack.watcher.enabled', false
    setting 'xpack.graph.enabled', false

```

```

setting 'xpack.ml.enabled', false
setting 'xpack.license.self_generated.type', 'trial'
waitCondition = { node, ant ->
    File tmpFile = new File(node.cwd, 'wait.success')
    // 5 nodes: tribe + clusterOne (1 node + tribe internal node) + clusterTwo (1 node + tribe internal node)
    ant.get(src: "http://${node.httpUri()}/_cluster/health?wait_for_nodes=>=5&wait_for_status=yellow",
        dest: tmpFile.toString(),
        ignoreerrors: true,
        retries: 10)
    return tmpFile.exists()
}
}

integTestRunner {
    /*
    * We have to disable setting the number of available processors as tests in the same JVM randomize processors and
    will step on each
    * other if we allow them to set the number of available processors as it's set-once in Netty.
    */
    systemProperty 'es.set.netty.runtime.available.processors', 'false'
    systemProperty 'tests.cluster', "${-> cluster1Nodes.get(0).transportUri()}"
    systemProperty 'tests.cluster2', "${-> cluster2Nodes.get(0).transportUri()}"
    systemProperty 'tests.tribe', "${-> integTest.nodes.get(0).transportUri()}"
    finalizedBy 'clusterOne#stop'
    finalizedBy 'clusterTwo#stop'
}
/*
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartBasicAction extends TransportMasterNodeAction<PostStartBasicRequest,
PostStartBasicResponse> {

```

```

private final LicenseService licenseService;

@Inject
public TransportPostStartBasicAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, PostStartBasicAction.NAME, transportService, clusterService, threadPool, actionFilters,
        indexNameExpressionResolver, PostStartBasicRequest::new);
    this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected PostStartBasicResponse newResponse() {
    return new PostStartBasicResponse();
}

@Override
protected void masterOperation(PostStartBasicRequest request, ClusterState state,
        ActionListener<PostStartBasicResponse> listener) throws Exception {
    licenseService.startBasicLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}
}
{
"xpack.license.get_basic_status": {
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",
    "methods": ["GET"],
    "url": {
        "path": "/_xpack/license/basic_status",
        "paths": ["/_xpack/license/basic_status"],
        "parts" : {
        },
    },
    "params": {
    }
},
"body": null
}
}

```

}

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replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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/*

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*/

package org.elasticsearch.license;

import org.elasticsearch.action.Action;

import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseAction extends Action<GetLicenseRequest, GetLicenseResponse,
GetLicenseRequestBuilder> {

public static final GetLicenseAction INSTANCE = new GetLicenseAction();

public static final String NAME = "cluster:monitor/xpack/license/get";

private GetLicenseAction() {

super(NAME);

}

@Override

public GetLicenseResponse newResponse() {

return new GetLicenseResponse();

}

@Override

public GetLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {

return new GetLicenseRequestBuilder(client, this);

```
}
}
---
teardown:
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"894371dc-9t49-4997-93cb-
8o2e3r7fa6a8","type":"trial","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1916956799999,"max
_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0FWh0T9njItjQ2qammAAABmC
9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXM
vRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095M
XRGn1IIZlpYcVVTnFrcTE2dzhJZmZrdFQRn3JQeGwxboU0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZH
BEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNul0pSOEhQa
VB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1q
bVNQS2lxOHN5bUErZINIWkZSVmZIWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQ
c3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQBZhvozA0
trrxhUZ1QbaTsKTna9C5KVQ6pv8yg1pnsBpZXC18kX1SrgoFn1bXq61IvJwfw5qnmYNiH3hRhTO9EyaCBqaLk8
NXZQ6TrRkQSpEnnBwAYUkZeKXsIuBoOk4B4mzwc/r8aMAkzrTiEBtBbog+57cSaU9y37Gkdd+1jXCQrxP+jO
EUf7gnXWZvE6oeRroLvCt1fYn09k0CF8kKTbrPTSjC6igZR3uvTHyee74XQ9PRavvHax73T4UOEdQZX/P1ibS
QIWkbBRD5YQ1POYVjTayoltTnWLMxfEcAkkATJZLhpBEHST7kZWjrTS6J1dCREJc7a8Vsj/78HXvOIy"}]}
---
```

"Installing and getting license works":

```
## current license version
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"894371dc-9t49-4997-93cb-
8o2e3r7fa6a8","type":"trial","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1916956799999,"max
_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0FWh0T9njItjQ2qammAAABmC
9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXM
vRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095M
XRGn1IIZlpYcVVTnFrcTE2dzhJZmZrdFQRn3JQeGwxboU0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZH
BEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNul0pSOEhQa
VB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1q
bVNQS2lxOHN5bUErZINIWkZSVmZIWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQ
c3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQBZhvozA0
trrxhUZ1QbaTsKTna9C5KVQ6pv8yg1pnsBpZXC18kX1SrgoFn1bXq61IvJwfw5qnmYNiH3hRhTO9EyaCBqaLk8
NXZQ6TrRkQSpEnnBwAYUkZeKXsIuBoOk4B4mzwc/r8aMAkzrTiEBtBbog+57cSaU9y37Gkdd+1jXCQrxP+jO
EUf7gnXWZvE6oeRroLvCt1fYn09k0CF8kKTbrPTSjC6igZR3uvTHyee74XQ9PRavvHax73T4UOEdQZX/P1ibS
QIWkbBRD5YQ1POYVjTayoltTnWLMxfEcAkkATJZLhpBEHST7kZWjrTS6J1dCREJc7a8Vsj/78HXvOIy"}]}

- match: { license_status: "valid" }

- do:
```

```

xpack.license.get: { }

## a license object has 11 attributes
- length: { license: 11 }

## bwc for licenses format
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAwAAAA2T3vqdBBetKQaBgxipAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTTnFrcTE2dzhJZmZrdFQRn3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pSOEHqQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbmMzSGtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNkE9PQAAAQB7pGFYgawfLm9zzT80LvcLHjy1t/v2uSzCQWKdXXhrwSy4WrAH2uK/+PEiQ7aEpW5erLsyJ5KLA6OEZJDaP7r+mjOPuLt0++I5j4DMn7ybMzOPHXWbc6LETE3+pp0GZPyOmwsDkZSRUegTtcir2R6z+mdnGrhOYM80y08KVWwhdU/DHw41MK7ePo6tq73Nz49y9lDgt9fxA0t4ggEBPbnTDDbVQ25AjauY8sa0M5eg9rDDRayw1KamYWwra8PIGX+2YjhtUeQhmlCPdlxc9wECJ7/knPss5bI3ZoXQR3fyXhjcXNnHEIsblqLrMCa13pLxs7II+KPYMa2ZYL/am4P"}]}

- match: { license_status: "valid" }

- do:
  xpack.license.get: { }

- length: { license: 11 }

## license version: 1.x
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"subscription","subscription_type":"gold","issue_date_in_millis":1411948800000,"feature":"shield","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAQAAAA0LVAYwWpSH94cyXr4zAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1lIZlpYcVVTTnFrcTE2dzhJZmZrdFQRn3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDBYwnpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pSOEHqQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6ldMbmMzSGtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2

```

```
bDRWUzh6UG5pdENGWFRreXNKNke9PQAAAQA4qsc/URRZVdFoLwgy9dqybYEQlW8YLkiAyPV5XHHH  
dtk+dtZiEpiNEDkUXhSX2waVJlsNRF8/4kqplDfwNoD2TUM8fTgiIfiSiZYGDTGST+yW/5eAveEU5J5v1liBN27b  
wkqL+V4YAa0Tcm7NKKwjScWKAHiTU3vF8chPkGfCHE0kQgVwPC9RE82pTw0s6/uR4PflGNFfqPM0uiE5n  
ucfVrtj89JQiO/KA/7ZyFbo7VTNXxZQt7T7rZWBCP9KIjptXzcWuk08Q5S+rSoJNYbFo3HGKtrCVsRz/55rceNtd  
wKKXu1IwnSeir4I1/KLduQTtFLy0+1th87VS8T88UT" }}}
```

```
- match: { license_status: "valid" }
```

```
- do:
```

```
  xpack.license.get: { }
```

```
- length: { license: 11 }
```

```
## multiple licenses version: 1.x
```

```
- do:
```

```
  xpack.license.post:
```

```
    acknowledge: true
```

```
    body: |
```

```
      {"licenses":[{"uid":"893361dc-9749-4997-93cb-
```

```
802e3d7fa4a8","type":"internal","subscription_type":"none","issue_date_in_millis":1411948800000,"feature":"shiel  
d","expiry_date_in_millis":1440892799999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"A  
AAAAQAAAA04Q4ky3rFyyWLFkytEAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZw  
UzRxVklPSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkV  
kprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0  
MXZ0dDJHSERiZTVLOHNzSDBYwNpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNW  
GM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MwK2K055c28z  
SmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJEND  
VvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUz  
h6UG5pdENGWFRreXNKNke9PQAAAQBxMvUMn4h2E4R4TQMijahTxQj4LPQO4f1M79UxX/XkDIgCh+J5p  
RHx08OtTRPsFL1IED+h+PIXx307Vo+PNDsOxrWvoYZeYBkOLAO3ny9vhQga+52jYhMxIuFrT9xbcSCSNpMh  
GogjOIPU2WgiopVdVcimo1+Gk8VtkIPB1wPwFzfOjOnPgp/Icx3WYpfkeAUUOyWUYiFIBAE4bnz84iF+XwLKb  
gYk6aHF25ECBtdb/Uruhcm9+jEFpOIEUtCouvVk9C+NJZ4OickV4xpRgaRG2x9PONH8ZN0QGHgYhJGbisocXu  
DmlLsyVxqxfMu3n/r7/jdsEJScjAlSrsLDOu6H"},{"uid":"893361dc-9749-4997-93cb-
```

```
802e3dofh7aa","type":"internal","subscription_type":"none","issue_date_in_millis":1443484800000,"feature":"wate  
her","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"  
AAAAQAAAA0Sc90guRIaQEEmgLvMnAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMV  
ZwUzRxVklPSmkxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHB  
kWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwx0  
U0MXZ0dDJHSERiZTVLOHNzSDBYwNpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktN  
WGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MwK2K055c2  
8zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJEN  
DVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRW  
Uzh6UG5pdENGWFRreXNKNke9PQAAAQC94dju0pnDZR3Uuyipi0ic3aQJ+nvVqe+U8u79Dga5n1qJqjHDh7H  
vIBJEkF+tnVPlo/PXV/x7BZSwVY1PVERit+6rYix1yuHEgqwxmx/VdRICjCaZM6tk0Ob4dZCPv6Ebn2Mmk89KH  
C/PwiLPqF6QfwV/Pkpa8k2A3ORJmvYSDvXhe6tCs8dq4ebrsFxqrZjwWh5CZSpzqqZBFXIngDv2N0hHhpGlueR  
szD0JJ5dfEL5ZA1DDOrgO9OJvejSHyRqe1L5QRUNdXPVfs+EAG0Dd1cNdJ/sMpYCPnVjbw6iq2/Ygm3cuztsX  
VBY7ij4WnoP3ce7Zjs9TwHn+IqzftC6"}]}
```

```
- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3dofh7aa" }
```

"Should throw 404 after license deletion":

```
- do:
  xpack.license.delete: {}

- match: { acknowledged: true }

- do:
  xpack.license.get: {}
  catch: missing
```

"Should install a feature type license":

```
# VERSION_NO_FEATURE_TYPE license version
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      {"license": {"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8", "type":"gold", "issue_date_in_millis":1411948800000, "expiry_date_in_millis":1914278399999, "max_x_nodes":1, "issued_to":"issued_to", "issuer":"issuer", "signature":"AAAAAaGAAAA3U8+YmnmvWC+CWsV/mRAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmkxakxZdW5IMlhITHNoN1N2MXMvRFk4d3JTZE3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0IDalZCS095MXRGN1IIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSERiZTVLOHNzSDByWnpoZEphZHBEZjUrTVBxRENNSXNsWWJzIlaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUm14MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkf1b2JSQkFLV2VXUmVHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZIWETA9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtQc3FWOTgzZ3ZUCXmVQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNke9PQAAAQB e8GfzDm6T537Iuuvjetb3xK5dvg0K5NQapv+rczWcQFxfGuzbF8plkgetP1aAGZP4uRESDQPMIOCSx4d0UqqAm9f7GbbQ3193P+PogInPFfeEH9NvOmaAQovmxVM9SE6DsDqlX4cXSO+bgWpXPTd2LmpoQc1fXd6BZ8GeuyYpVHVkp9hVU0tAYjw6HzYOE7+zuO1oJYOxElqy66AnIfkvHrvni+flym3tE7tDTgsDRaz7W3iBhaqiSntEqabEkvHdPHQdSR99XGaEvnHO1paK01/35iZF6OXHsF7CCj+558GRXiVxzueOe7TsGSS8g7YjZwV9bRCyU7oB4B/nidgI"} }

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
```

"Cannot start basic":

- do:

```
catch: bad_request
xpack.license.post:
  acknowledge: true
  body: |
```

```
    { "license": { "uid": "893361dc-9749-4997-93cb-802e3d7fa4a8", "type": "basic", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "AAAAAgAAAA0IKPZ0a7aZquUltho/AAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpSbTVoMVZwUzRxVk1PSmKxakxZdW5IMlhlTHNoN1N2MXMvRFk4d3JTZEx3R3RRZ0pzU3lobWJKZnQvSEFva0ppTHBkWkprZWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYcVVTtnFrcTE2dzhJZmZrdFQrN3JQeGwx0U0MXZ0dDJHSERiZTVLOHNzSDBYwNpoZEphZHBEZjUrTVBxRENNSXNsWWJjZllaODdzVmEzUjNiWktNWGM5TUhQV2plaUo4Q1JOUml4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkF1b2JSQkFLV2VXUml4MHNDZ2R3o2VE1qbVNQS2lxOHN5bUErZINIWkZSVmZiWEtaSU9wTTJENDVvT1NCYklacUYyK2FwRW9xa0t6dldMbmMzSGtc3FWOTgzZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5pdENGWFRreXNKNke9PQAAAQAALuQ44S3IG6SzolcXVJ6Z4CIXORDrYQ+wdLceey0XdujTslAOj+k+vNgo6wauc7Uswi01esHu4lb5IgpvKy7RRCbh5bj/z2ubu2qMJqopp9BQyD7VQjVfqmG6seUMJwJ1a5Avvm9r41YPSPrCii3bKK2e1l6jK6N8ibCvnTyY/XkYGCJrBWTsJePDbg6ErbyodrZ37x1StLbPWcNAkmweyHjDJnvYnbeZZO7A3NmubXZjW7Ttf8/YwQyE00PqMcl7fVPY3hkKpAeHf8aaJbqkKYbqZuER3EWJX7ZvLVb1dNdNg8aXRn7YrkQcYwWgptYQpfV+D7yEJ4j5muAEoler" } }
```

```
- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_xpack/license/start_basic API to install a basic license that does not expire.' }
```

"Should fail gracefully when body content is not provided":

- do:

```
catch: bad_request
xpack.license.post:
  acknowledge: true
```

```
- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }
```

"Current license is trial means not eligible to start trial":

- do:

```
xpack.license.get_trial_status: { }
```

```
- match: { eligible_to_start_trial: false }
```

- do:

```
xpack.license.post_start_basic:
  acknowledge: true
```

```
- match: { basic_was_started: true }
```

```

- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  catch: forbidden
  xpack.license.post_start_trial:
    acknowledge: true

- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }
---
"Trial license cannot be basic":
- do:
  catch: bad_request
  xpack.license.post_start_trial:
    type: "basic"
    acknowledge: true
---
"Can start basic license if do not already have basic":
- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  catch: forbidden
  xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }
---
"Must acknowledge to start basic":
- do:

```

```
xpack.license.post_start_basic: { }
```

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

AWS SDK for Java

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package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.AbstractNamedDiffable;
import org.elasticsearch.cluster.MergableCustomMetaData;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackPlugin;

import java.io.IOException;
import java.util.EnumSet;

/**
 * Contains metadata about registered licenses
 */
public class LicensesMetaData extends AbstractNamedDiffable<MetaData.Custom> implements
XPackPlugin.XPackMetaDataCustom,
    MergableCustomMetaData<LicensesMetaData> {

    public static final String TYPE = "licenses";

    /**
     * When license is explicitly removed by a user, LICENSE_TOMBSTONE
     * is used as a placeholder in the license metadata. This enables
     * us to distinguish between the scenario when a cluster never
     * had a license (null) and when a license was removed explicitly
     * (LICENSE_TOMBSTONE).
     * We rely on this to decide whether to generate a unsigned trial
     * license or not. we should only generate a license if no license
     * ever existed in the cluster state
     */
    public static final License LICENSE_TOMBSTONE = License.builder()
        .type("trial")
        .issuer("elasticsearch")
        .uid("TOMBSTONE")
        .issuedTo("")
        .maxNodes(0)

```

```

        .issueDate(0)
        .expiryDate(0)
        .build();

private License license;

// This field describes the version of x-pack for which this cluster has exercised a trial. If the field
// is null, then no trial has been exercised. We keep the version to leave open the possibility that we
// may eventually allow a cluster to exercise a trial every time they upgrade to a new major version.
@Nullable
private Version trialVersion;

LicensesMetaData(License license, Version trialVersion) {
    this.license = license;
    this.trialVersion = trialVersion;
}

public License getLicense() {
    return license;
}

boolean isEligibleForTrial() {
    if (trialVersion == null) {
        return true;
    }
    return Version.CURRENT.major > trialVersion.major;
}

Version getMostRecentTrialVersion() {
    return trialVersion;
}

@Override
public String toString() {
    return "LicensesMetaData{" +
        "license=" + license +
        ", trialVersion=" + trialVersion +
        '}';
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    LicensesMetaData that = (LicensesMetaData) o;

    if (license != null ? !license.equals(that.license) : that.license != null) return false;

```

```

    return trialVersion != null ? trialVersion.equals(that.trialVersion) : that.trialVersion == null;
}

@Override
public int hashCode() {
    int result = license != null ? license.hashCode() : 0;
    result = 31 * result + (trialVersion != null ? trialVersion.hashCode() : 0);
    return result;
}

@Override
public String getWriteableName() {
    return TYPE;
}

@Override
public Version getMinimalSupportedVersion() {
    return Version.CURRENT.minimumCompatibilityVersion();
}

@Override
public EnumSet<MetaData.XContentContext> context() {
    return EnumSet.of(MetaData.XContentContext.GATEWAY);
}

public static LicensesMetaData fromXContent(XContentParser parser) throws IOException {
    License license = LICENSE_TOMBSTONE;
    Version trialLicense = null;
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String fieldName = parser.currentName();
            if (fieldName != null) {
                if (fieldName.equals(Fields.LICENSE)) {
                    token = parser.nextToken();
                    if (token == XContentParser.Token.START_OBJECT) {
                        license = License.fromXContent(parser);
                    } else if (token == XContentParser.Token.VALUE_NULL) {
                        license = LICENSE_TOMBSTONE;
                    }
                } else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
                    parser.nextToken();
                    trialLicense = Version.fromString(parser.text());
                }
            }
        }
    }
    return new LicensesMetaData(license, trialLicense);
}

```

```

}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
        builder.startObject(Fields.LICENSE);
        license.toInnerXContent(builder, params);
        builder.endObject();
    }
    if (trialVersion != null) {
        builder.field(Fields.TRIAL_LICENSE, trialVersion.toString());
    }
    return builder;
}

```

```

@Override
public void writeTo(StreamOutput streamOutput) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        streamOutput.writeBoolean(false); // no license
    } else {
        streamOutput.writeBoolean(true); // has a license
        license.writeTo(streamOutput);
    }
    if (streamOutput.getVersion().onOrAfter(Version.V_6_1_0)) {
        if (trialVersion == null) {
            streamOutput.writeBoolean(false);
        } else {
            streamOutput.writeBoolean(true);
            Version.writeVersion(trialVersion, streamOutput);
        }
    }
}

```

```

public LicensesMetaData(StreamInput streamInput) throws IOException {
    if (streamInput.readBoolean()) {
        license = License.readLicense(streamInput);
    } else {
        license = LICENSE_TOMBSTONE;
    }
    if (streamInput.getVersion().onOrAfter(Version.V_6_1_0)) {
        boolean hasExercisedTrial = streamInput.readBoolean();
        if (hasExercisedTrial) {
            this.trialVersion = Version.readVersion(streamInput);
        }
    }
}

```

```

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        License license = licensesMetaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return null;
        } else {
            return license;
        }
    }
    return null;
}

@Override
public LicensesMetaData merge(LicensesMetaData other) {
    if (other.license == null) {
        return this;
    } else if (license == null
        || OperationMode.compare(other.license.operationMode(), license.operationMode()) > 0) {
        return other;
    }
    return this;
}

private static final class Fields {
    private static final String LICENSE = "license";
    private static final String TRIAL_LICENSE = "trial_license";
}
}
{
"xpack.license.delete": {
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",
  "methods": ["DELETE"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": {}
  },
  "body": null
}
}

```

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```

*/
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;

import static org.elasticsearch.rest.RestRequest.Method.DELETE;

public class RestDeleteLicenseAction extends XPackRestHandler {
    public RestDeleteLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(DELETE, URI_BASE + "/license", this,
            DELETE, "/_license", deprecationLogger);

        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(DELETE, "/_licenses", this,
            "[DELETE /_licenses] is deprecated! Use " +
            "[DELETE /_xpack/license] instead.",
            deprecationLogger);
    }

    @Override
    public String getName() {
        return "xpack_delete_license_action";
    }

    @Override
    public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
    IOException {
        DeleteLicenseRequest deleteLicenseRequest = new DeleteLicenseRequest();
        deleteLicenseRequest.timeout(request.paramAsTime("timeout", deleteLicenseRequest.timeout()));
        deleteLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
        deleteLicenseRequest.masterNodeTimeout()));

        return channel -> client.es().admin().cluster().execute(DeleteLicenseAction.INSTANCE, deleteLicenseRequest,
            new RestToXContentListener<>(channel));
    }
}
{
"xpack.license.get": {
"documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",

```

```
"methods": ["GET"],
"url": {
  "path": "/_xpack/license",
  "paths": ["/_xpack/license"],
  "parts": {
  },
  "params": {
    "local": {
      "type": "boolean",
      "description": "Return local information, do not retrieve the state from master node (default: false)"
    }
  }
},
"body": null
}
```

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*/

package org.elasticsearch.license;

```

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PutLicenseAction extends Action<PutLicenseRequest, PutLicenseResponse,
PutLicenseRequestBuilder> {

    public static final PutLicenseAction INSTANCE = new PutLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/put";

    private PutLicenseAction() {
        super(NAME);
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    public PutLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PutLicenseRequestBuilder(client, this);
    }
}
{
    "xpack.license.post_start_basic": {
        "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html",
        "methods": ["POST"],
        "url": {
            "path": "/_xpack/license/start_basic",
            "paths": ["/_xpack/license/start_basic"],
            "parts": {
            },
            "params": {
                "acknowledge": {
                    "type": "boolean",
                    "description": "whether the user has acknowledged acknowledge messages (default: false)"
                }
            }
        },
        "body": null
    }
}

```

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package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.TooComplexToDeterminizeException;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.cluster.metadata.AliasOrIndex;
import org.elasticsearch.cluster.metadata.IndexMetaData;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;

import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**

* A permission that is based on privileges for index related actions executed
* on specific indices

*/

public final class IndicesPermission implements Iterable<IndicesPermission.Group> {

```

public static final IndicesPermission NONE = new IndicesPermission();

private final Function<String, Predicate<String>> loadingFunction;

private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new
ConcurrentHashMap<>();

private final Group[] groups;

public IndicesPermission(Group... groups) {
    this.groups = groups;
    loadingFunction = (action) -> {
        List<String> indices = new ArrayList<>();
        for (Group group : groups) {
            if (group.actionMatcher.test(action)) {
                indices.addAll(Arrays.asList(group.indices));
            }
        }
        return indexMatcher(indices);
    };
}

static Predicate<String> indexMatcher(List<String> indices) {
    try {
        return Automaton.predicate(indices);
    } catch (TooComplexToDeterminizeException e) {
        Loggers.getLogger(IndicesPermission.class).debug("Index pattern automaton [{}] is too complex", indices);
        String description = Strings.collectionToCommaDelimitedString(indices);
        if (description.length() > 80) {
            description = Strings.cleanTruncate(description, 80) + "...";
        }
        throw new ElasticsearchSecurityException("The set of permitted index patterns [{}] is too complex to
evaluate", e, description);
    }
}

@Override
public Iterator<Group> iterator() {
    return Arrays.asList(groups).iterator();
}

public Group[] groups() {
    return groups;
}

/**
 * @return A predicate that will match all the indices that this permission
 * has the privilege for executing the given action on.

```

```

*/
public Predicate<String> allowedIndicesMatcher(String action) {
    return allowedIndicesMatchersForAction.computeIfAbsent(action, loadingFunction);
}

/**
 * Checks if the permission matches the provided action, without looking at indices.
 * To be used in very specific cases where indices actions need to be authorized regardless of their indices.
 * The usecase for this is composite actions that are initially only authorized based on the action name (indices are
not
 * checked on the coordinating node), and properly authorized later at the shard level checking their indices as
well.
 */
public boolean check(String action) {
    for (Group group : groups) {
        if (group.check(action)) {
            return true;
        }
    }
    return false;
}

public Automaton allowedActionsMatcher(String index) {
    List<Automaton> automatonList = new ArrayList<>();
    for (Group group : groups) {
        if (group.indexNameMatcher.test(index)) {
            automatonList.add(group.privilege.getAutomaton());
        }
    }
    return automatonList.isEmpty() ? Automaton.EMPTY : Automaton.unionAndMinimize(automatonList);
}

/**
 * Authorizes the provided action against the provided indices, given the current cluster metadata
 */
public Map<String, IndicesAccessControl.IndexAccessControl> authorize(String action, Set<String>
requestedIndicesOrAliases,
                                Metadata metaData, FieldPermissionsCache fieldPermissionsCache) {
    // now... every index that is associated with the request, must be granted
    // by at least one indices permission group

    SortedMap<String, AliasOrIndex> allAliasesAndIndices = metaData.getAliasAndIndexLookup();
    Map<String, Set<FieldPermissions>> fieldPermissionsByIndex = new HashMap<>();
    Map<String, DocumentLevelPermissions> roleQueriesByIndex = new HashMap<>();
    Map<String, Boolean> grantedBuilder = new HashMap<>();

    for (String indexOrAlias : requestedIndicesOrAliases) {
        boolean granted = false;

```

```

Set<String> concreteIndices = new HashSet<>();
AliasOrIndex aliasOrIndex = allAliasesAndIndices.get(indexOrAlias);
if (aliasOrIndex != null) {
    for (IndexMetaData indexMetaData : aliasOrIndex.getIndices()) {
        concreteIndices.add(indexMetaData.getIndex().getName());
    }
}

for (Group group : groups) {
    if (group.check(action, indexOrAlias)) {
        granted = true;
        for (String index : concreteIndices) {
            Set<FieldPermissions> fieldPermissions = fieldPermissionsByIndex.computeIfAbsent(index, (k) ->
new HashSet<>());
            fieldPermissionsByIndex.put(indexOrAlias, fieldPermissions);
            fieldPermissions.add(group.getFieldPermissions());
            DocumentLevelPermissions permissions =
                roleQueriesByIndex.computeIfAbsent(index, (k) -> new DocumentLevelPermissions());
            roleQueriesByIndex.putIfAbsent(indexOrAlias, permissions);
            if (group.hasQuery()) {
                permissions.addAll(group.getQuery());
            } else {
                // if more than one permission matches for a concrete index here and if
                // a single permission doesn't have a role query then DLS will not be
                // applied even when other permissions do have a role query
                permissions.setAllowAll(true);
            }
        }
    }
}

if (concreteIndices.isEmpty()) {
    grantedBuilder.put(indexOrAlias, granted);
} else {
    grantedBuilder.put(indexOrAlias, granted);
    for (String concreteIndex : concreteIndices) {
        grantedBuilder.put(concreteIndex, granted);
    }
}
}

```

```

Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
    String index = entry.getKey();
    DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
    final Set<BytesReference> roleQueries;
    if (permissions != null && permissions.isAllowAll() == false) {
        roleQueries = unmodifiableSet(permissions.queries);
    }
}

```

```

    } else {
        roleQueries = null;
    }

    final FieldPermissions fieldPermissions;
    final Set<FieldPermissions> indexFieldPermissions = fieldPermissionsByIndex.get(index);
    if (indexFieldPermissions != null && indexFieldPermissions.isEmpty() == false) {
        fieldPermissions = indexFieldPermissions.size() == 1 ? indexFieldPermissions.iterator().next() :
            fieldPermissionsCache.getFieldPermissions(indexFieldPermissions);
    } else {
        fieldPermissions = FieldPermissions.DEFAULT;
    }
    indexPermissions.put(index, new IndicesAccessControl.IndexAccessControl(entry.getValue(),
fieldPermissions, roleQueries));
    }
    return unmodifiableMap(indexPermissions);
}

public static class Group {
    private final IndexPrivilege privilege;
    private final Predicate<String> actionMatcher;
    private final String[] indices;
    private final Predicate<String> indexNameMatcher;

    public FieldPermissions getFieldPermissions() {
        return fieldPermissions;
    }

    private final FieldPermissions fieldPermissions;
    private final Set<BytesReference> query;

    public Group(IndexPrivilege privilege, FieldPermissions fieldPermissions, @Nullable Set<BytesReference>
query, String... indices) {
        assert indices.length != 0;
        this.privilege = privilege;
        this.actionMatcher = privilege.predicate();
        this.indices = indices;
        this.indexNameMatcher = indexMatcher(Arrays.asList(indices));
        this.fieldPermissions = Objects.requireNonNull(fieldPermissions);
        this.query = query;
    }

    public IndexPrivilege privilege() {
        return privilege;
    }

    public String[] indices() {
        return indices;
    }
}

```

```

    }

    @Nullable
    public Set<BytesReference> getQuery() {
        return query;
    }

    private boolean check(String action) {
        return actionMatcher.test(action);
    }

    private boolean check(String action, String index) {
        assert index != null;
        return check(action) && indexNameMatcher.test(index);
    }

    boolean hasQuery() {
        return query != null;
    }
}

private static class DocumentLevelPermissions {

    private Set<BytesReference> queries = null;
    private boolean allowAll = false;

    private void addAll(Set<BytesReference> query) {
        if (allowAll == false) {
            if (queries == null) {
                queries = new HashSet<>();
            }
            queries.addAll(query);
        }
    }

    private boolean isAllowAll() {
        return allowAll;
    }

    private void setAllowAll(boolean allowAll) {
        this.allowAll = allowAll;
    }
}
}
/*
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```

```

*/
package org.elasticsearch.license;

import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;

import java.util.UUID;

abstract class ExpirationCallback {

    static final String EXPIRATION_JOB_PREFIX = ".license_expiration_job_";

    public enum Orientation {PRE, POST}

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>max</code> and <code>min</code>
     * before license expiry.
     */
    public abstract static class Pre extends ExpirationCallback {

        /**
         * Callback schedule prior to license expiry
         *
         * @param min    latest relative time to execute before license expiry
         * @param max    earliest relative time to execute before license expiry
         * @param frequency interval between execution
         */
        Pre(TimeValue min, TimeValue max, TimeValue frequency) {
            super(Orientation.PRE, min, max, frequency);
        }
    }

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>min</code> and <code>max</code>
     * after license expiry.
     */
    public abstract static class Post extends ExpirationCallback {

        /**
         * Callback schedule after license expiry
         *
         * @param min    earliest relative time to execute after license expiry
         * @param max    latest relative time to execute after license expiry
         * @param frequency interval between execution
         */
    }
}

```

```

    Post(TimeValue min, TimeValue max, TimeValue frequency) {
        super(Orientation.POST, min, max, frequency);
    }
}

private final String id;
private final Orientation orientation;
private final long min;
private final long max;
private final long frequency;

private ExpirationCallback(Orientation orientation, TimeValue min, TimeValue max, TimeValue frequency) {
    this.orientation = orientation;
    this.min = (min == null) ? 0 : min.getMillis();
    this.max = (max == null) ? Long.MAX_VALUE : max.getMillis();
    this.frequency = frequency.getMillis();
    this.id = String.join("", EXPIRATION_JOB_PREFIX, UUID.randomUUID().toString());
}

public final String getId() {
    return id;
}

public final long getFrequency() {
    return frequency;
}

/**
 * Calculates the delay for the next trigger time. When <code>now</code> is in a
 * valid time bracket with respect to <code>expirationDate</code>, the delay is 0.
 * When <code>now</code> is before the time bracket, than delay to the start of the
 * time bracket and when <code>now</code> is passed the valid time bracket, the delay
 * is <code>null</code>
 * @param expirationDate license expiry date in milliseconds
 * @param now current time in milliseconds
 * @return time delay
 */
final TimeValue delay(long expirationDate, long now) {
    final TimeValue delay;
    switch (orientation) {
        case PRE:
            if (expirationDate >= now) {
                // license not yet expired
                long preExpiryDuration = expirationDate - now;
                if (preExpiryDuration > max) {
                    // license duration is longer than maximum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(preExpiryDuration - max);
                } else if (preExpiryDuration <= max && preExpiryDuration >= min) {

```

```

        // no delay in valid time bracket
        delay = TimeValue.timeValueMillis(0);
    } else {
        // passed last match time
        delay = null;
    }
} else {
    // invalid after license expiry
    delay = null;
}
break;
case POST:
    if (expirationDate >= now) {
        // license not yet expired, delay it to the first match time
        delay = TimeValue.timeValueMillis(expirationDate - now + min);
    } else {
        // license has expired
        long expiredDuration = now - expirationDate;
        if (expiredDuration < min) {
            // license expiry duration is shorter than minimum duration, delay it to the first match time
            delay = TimeValue.timeValueMillis(min - expiredDuration);
        } else if (expiredDuration >= min && expiredDuration <= max) {
            // no delay in valid time bracket
            delay = TimeValue.timeValueMillis(0);
        } else {
            // passed last match time
            delay = null;
        }
    }
    break;
default:
    throw new IllegalStateException("orientation [" + orientation + "] unknown");
}
return delay;
}

```

```
/**
```

```

 * {@link SchedulerEngine.Schedule#nextScheduledTimeAfter(long, long)} with respect to
 * license expiry date
 */

```

```

public final long nextScheduledTimeForExpiry(long expiryDate, long startTime, long time) {
    TimeValue delay = delay(expiryDate, time);
    if (delay != null) {
        long delayInMillis = delay.getMillis();
        if (delayInMillis == 0L) {
            if (startTime == time) {
                // initial trigger and in time bracket, schedule immediately
                return time;
            }
        }
    }
}

```

```

        } else {
            // in time bracket, add frequency
            return time + frequency;
        }
    } else {
        // not in time bracket
        return time + delayInMillis;
    }
}
return -1;
}

/**
 * Code to execute when the expiry callback is triggered in a valid
 * time bracket
 * @param license license to operate on
 */
public abstract void on(License license);

public final String toString() {
    return LoggerMessageFormat.format(null, "ExpirationCallback:(orientation [{}], min [{}], max [{}], freq
[{}])",
        orientation.name(), TimeValue.timeValueMillis(min), TimeValue.timeValueMillis(max),
        TimeValue.timeValueMillis(frequency));
}
}

```

Apache HttpComponents Core

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```
/*
```

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```

```
*/
```

```
package org.elasticsearch.xpack.core.security.authz.permission;
```

```
import org.apache.lucene.index.DirectoryReader;  
import org.apache.lucene.util.Accountable;  
import org.apache.lucene.util.RamUsageEstimator;  
import org.apache.lucene.util.automaton.Automata;  
import org.apache.lucene.util.automaton.Automaton;  
import org.apache.lucene.util.automaton.CharacterRunAutomaton;  
import org.apache.lucene.util.automaton.MinimizationOperations;  
import org.apache.lucene.util.automaton.Operations;  
import org.elasticsearch.ElasticsearchSecurityException;  
import org.elasticsearch.common.Strings;  
import org.elasticsearch.common.regex.Regex;  
import org.elasticsearch.index.mapper.AllFieldMapper;  
import org.elasticsearch.xpack.core.security.authz.accesscontrol.FieldSubsetReader;  
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;  
import org.elasticsearch.xpack.core.security.support.Automatons;
```

```
import java.io.IOException;  
import java.util.Arrays;  
import java.util.HashMap;  
import java.util.HashSet;  
import java.util.List;  
import java.util.Set;  
import java.util.stream.Collectors;
```

```
import static org.apache.lucene.util.automaton.Operations.subsetOf;
```

```
/**
```

```
* Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check  
if permission is
```

```
* allowed for a specific field.
```

```
* Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine
```

```

whether or
* not a field is granted access to:
* 1. It has to match the patterns in grantedFieldsArray
* 2. it must not match the patterns in deniedFieldsArray
*/
public final class FieldPermissions implements Accountable {

    public static final FieldPermissions DEFAULT = new FieldPermissions();

    private static final long BASE_FIELD_PERM_DEF_BYTES = RamUsageEstimator.shallowSizeOf(new
FieldPermissionsDefinition(null, null));
    private static final long BASE_FIELD_GROUP_BYTES = RamUsageEstimator.shallowSizeOf(new
FieldGrantExcludeGroup(null, null));
    private static final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeOfInstance(HashSet.class);
    private static final long BASE_HASHSET_ENTRY_SIZE;
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%
        // for each entry, we need two object refs, one for the entry itself
        // and one for the free space that is due to the fact hash tables can
        // not be fully loaded
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 *
RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;

    private final long ramBytesUsed;

    /** Constructor that does not enable field-level security: all fields are accepted. */
    public FieldPermissions() {
        this(new FieldPermissionsDefinition(null, null), Automaton.MATCH_ALL);
    }

    /** Constructor that enables field-level security based on include/exclude rules. Exclude rules
    * have precedence over include rules. */
    public FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
        this(fieldPermissionsDefinition, initializePermittedFieldsAutomaton(fieldPermissionsDefinition));
    }

    /** Constructor that enables field-level security based on include/exclude rules. Exclude rules
    * have precedence over include rules. */

```

```

FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition, Automaton permittedFieldsAutomaton)
{
    if (permittedFieldsAutomaton.isDeterministic() == false && permittedFieldsAutomaton.getNumStates() > 1) {
        // we only accept deterministic automata so that the CharacterRunAutomaton constructor
        // directly wraps the provided automaton
        throw new IllegalArgumentException("Only accepts deterministic automata");
    }
    this.fieldPermissionsDefinition = fieldPermissionsDefinition;
    this.originalAutomaton = permittedFieldsAutomaton;
    this.permittedFieldsAutomaton = new CharacterRunAutomaton(permittedFieldsAutomaton);
    // we cache the result of isTotal since this might be a costly operation
    this.permittedFieldsAutomatonIsTotal = Operations.isTotal(permittedFieldsAutomaton);

    long ramBytesUsed = BASE_FIELD_PERM_DEF_BYTES;

    for (FieldGrantExcludeGroup group : fieldPermissionsDefinition.getFieldGrantExcludeGroups()) {
        ramBytesUsed += BASE_FIELD_GROUP_BYTES + BASE_HASHSET_ENTRY_SIZE;
        if (group.getGrantedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getGrantedFields());
        }
        if (group.getExcludedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getExcludedFields());
        }
    }
    ramBytesUsed += permittedFieldsAutomaton.ramBytesUsed();
    ramBytesUsed += runAutomatonRamBytesUsed(permittedFieldsAutomaton);
    this.ramBytesUsed = ramBytesUsed;
}

/**
 * Return an estimation of the ram bytes used by a {@link CharacterRunAutomaton}
 * that wraps the given automaton.
 */
private static long runAutomatonRamBytesUsed(Automaton a) {
    return a.getNumStates() * 5; // wild guess, better than 0
}

public static Automaton initializePermittedFieldsAutomaton(FieldPermissionsDefinition
fieldPermissionsDefinition) {
    Set<FieldGrantExcludeGroup> groups = fieldPermissionsDefinition.getFieldGrantExcludeGroups();
    assert groups.size() > 0 : "there must always be a single group for field inclusion/exclusion";
    List<Automaton> automatonList =
        groups.stream()
            .map(g -> FieldPermissions.initializePermittedFieldsAutomaton(g.getGrantedFields(),
g.getExcludedFields()))
            .collect(Collectors.toList());
    return Automatons.unionAndMinimize(automatonList);
}

```

```

private static Automaton initializePermittedFieldsAutomaton(final String[] grantedFields, final String[]
deniedFields) {
    Automaton grantedFieldsAutomaton;
    if (grantedFields == null || Arrays.stream(grantedFields).anyMatch(Regex::isMatchAllPattern)) {
        grantedFieldsAutomaton = Automatons.MATCH_ALL;
    } else {
        // an automaton that includes metadata fields, including join fields created by the _parent field such
        // as _parent#type
        Automaton metaFieldsAutomaton = Operations.concatenate(Automata.makeChar('_'),
Automata.makeAnyString());
        grantedFieldsAutomaton = Operations.union(Automatons.patterns(grantedFields), metaFieldsAutomaton);
    }

    Automaton deniedFieldsAutomaton;
    if (deniedFields == null || deniedFields.length == 0) {
        deniedFieldsAutomaton = Automatons.EMPTY;
    } else {
        deniedFieldsAutomaton = Automatons.patterns(deniedFields);
    }

    grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
Operations.DEFAULT_MAX_DETERMINIZED_STATES);
    deniedFieldsAutomaton = MinimizationOperations.minimize(deniedFieldsAutomaton,
Operations.DEFAULT_MAX_DETERMINIZED_STATES);

    if (subsetOf(deniedFieldsAutomaton, grantedFieldsAutomaton) == false) {
        throw new ElasticsearchSecurityException("Exceptions for field permissions must be a subset of the " +
            "granted fields but " + Strings.arrayToCommaDelimitedString(deniedFields) + " is not a subset of " +
            Strings.arrayToCommaDelimitedString(grantedFields));
    }

    if (!containsAllField(grantedFields) && !containsAllField(deniedFields)) {
        // It is not explicitly stated whether _all should be allowed/denied
        // In that case we automatically disable _all, unless all fields would match
        if (Operations.isTotal(grantedFieldsAutomaton) && Operations.isEmpty(deniedFieldsAutomaton)) {
            // all fields are accepted, so using _all is fine
        } else {
            deniedFieldsAutomaton = Operations.union(deniedFieldsAutomaton,
Automata.makeString(AllFieldMapper.NAME));
        }
    }

    grantedFieldsAutomaton = Automatons.minusAndMinimize(grantedFieldsAutomaton,
deniedFieldsAutomaton);
    return grantedFieldsAutomaton;
}

```

```

private static boolean containsAllField(String[] fields) {
    return fields != null && Arrays.stream(fields).anyMatch(AllFieldMapper.NAME::equals);
}

/**
 * Returns true if this field permission policy allows access to the field and false if not.
 * fieldName can be a wildcard.
 */
public boolean grantsAccessTo(String fieldName) {
    return permittedFieldsAutomatonIsTotal || permittedFieldsAutomaton.run(fieldName);
}

FieldPermissionsDefinition getFieldPermissionsDefinition() {
    return fieldPermissionsDefinition;
}

/** Return whether field-level security is enabled, ie. whether any field might be filtered out. */
public boolean hasFieldLevelSecurity() {
    return permittedFieldsAutomatonIsTotal == false;
}

/** Return a wrapped reader that only exposes allowed fields. */
public DirectoryReader filter(DirectoryReader reader) throws IOException {
    if (hasFieldLevelSecurity() == false) {
        return reader;
    }
    return FieldSubsetReader.wrap(reader, permittedFieldsAutomaton);
}

// for testing only
Automaton getIncludeAutomaton() {
    return originalAutomaton;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;

    FieldPermissions that = (FieldPermissions) o;

    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    return fieldPermissionsDefinition != null ?
        fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : that.fieldPermissionsDefinition ==
null;
}

@Override

```

```

public int hashCode() {
    int result = fieldPermissionsDefinition != null ? fieldPermissionsDefinition.hashCode() : 0;
    result = 31 * result + (permittedFieldsAutomatonIsTotal ? 1 : 0);
    return result;
}

@Override
public long ramBytesUsed() {
    return ramBytesUsed;
}
}
{
"metadata": {
    "name": "X-Pack Monitoring: License Expiration",
    "xpack": {
        "link": "license",
        "expires_days": [ 60, 30, 14, 7 ],
        "severity": 0,
        "alert_index": ".monitoring-alerts-6",
        "cluster_uuid": "${monitoring.watch.cluster_uuid}",
        "type": "monitoring",
        "version_created": 6020099,
        "watch": "${monitoring.watch.id}"
    }
},
"trigger": {
    "schedule": {
        "interval": "1m"
    }
},
"input": {
    "chain": {
        "inputs": [
            {
                "check": {
                    "search": {
                        "request": {
                            "indices": [
                                ".monitoring-es-*"
                            ],
                            "body": {
                                "size": 1,
                                "sort": [
                                    {
                                        "timestamp": {
                                            "order": "desc"
                                        }
                                    }
                                ]
                            }
                        }
                    }
                }
            }
        ]
    }
}
}

```

```

],
"_source": [
  "license.*"
],
"query": {
  "bool": {
    "filter": [
      {
        "term": {
          "cluster_uuid": "{{ctx.metadata.xpack.cluster_uuid}}"
        }
      },
      {
        "term": {
          "type": "cluster_stats"
        }
      },
      {
        "range": {
          "timestamp": {
            "gte": "now-2m"
          }
        }
      }
    ]
  }
}
},
{
  "alert": {
    "search": {
      "request": {
        "indices": [
          ".monitoring-alerts-6"
        ],
        "body": {
          "size": 1,
          "terminate_after": 1,
          "query": {
            "bool": {
              "filter": {
                "term": {
                  "_id": "{{ctx.watch_id}}"
                }
              }
            }
          }
        }
      }
    }
  }
}

```

```

    }
  }
},
"sort": [
  { "timestamp": { "order": "desc" } }
]
}
}
},
{
  "kibana_settings": {
    "search": {
      "request": {
        "indices": [
          ".monitoring-kibana-6-*"
        ],
        "body": {
          "size": 1,
          "query": {
            "bool": {
              "filter": {
                "term": {
                  "type": "kibana_settings"
                }
              }
            }
          },
          "sort": [
            {
              "timestamp": {
                "order": "desc"
              }
            }
          ]
        }
      }
    }
  }
},
"condition": {
  "script": {
    "source": "if (ctx.payload.check.hits.total == 0) {return false;}def license =
ctx.payload.check.hits.hits[0]._source.license;if (license == null) {return false;}ctx.vars.fails_check = false;Instant

```

```

expiry = Instant.ofEpochMilli(license.expiry_date_in_millis);ctx.vars.expiry = expiry;if (license.status != 'active')
{ctx.vars.expired = true;ctx.vars.fails_check = true;ctx.metadata.xpack.severity = 2001;} else {Instant now =
Instant.ofEpochMilli(new Date().getTime());ctx.vars.now = now;for (int i = ctx.metadata.xpack.expires_days.length
- 1;i > -1;--i) {if (license.type == 'trial' && i < 2) {break;}Instant fromNow =
now.plusSeconds(ctx.metadata.xpack.expires_days[i] * 24 * 60 * 60);if (fromNow.isAfter(expiry))
{ctx.vars.fails_check = true;ctx.metadata.xpack.severity = i * 1000;break;}} }ctx.vars.not_resolved =
(ctx.payload.alert.hits.total == 1 && ctx.payload.alert.hits.hits[0]._source.resolved_timestamp ==
null);ctx.vars.update = ctx.vars.fails_check || ctx.vars.not_resolved;"
}
},
"transform": {
"script": {
"source": "ctx.vars.email_recipient = (ctx.payload.kibana_settings.hits.total > 0) ?
ctx.payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack.default_admin_email : null;ctx.vars.is_new =
ctx.vars.fails_check && !ctx.vars.not_resolved;ctx.vars.is_resolved = !ctx.vars.fails_check &&
ctx.vars.not_resolved;def alertMessage = null;if (ctx.vars.fails_check) { alertMessage = 'Update your license.'; } if
(ctx.vars.not_resolved) { ctx.payload = ctx.payload.alert.hits.hits[0]._source;ctx.payload.metadata =
ctx.metadata.xpack;if (ctx.vars.fails_check == false) { ctx.payload.resolved_timestamp = ctx.execution_time; } }
else { ctx.payload = [ 'timestamp': ctx.execution_time, 'prefix': 'This cluster\\\'s license is going to expire in
{{#relativeTime}}metadata.time{{/relativeTime}} at {{#absoluteTime}}metadata.time{{/absoluteTime}}.',
'message': alertMessage, 'metadata': ctx.metadata.xpack ]; } if (ctx.vars.fails_check) { ctx.payload.metadata.time =
ctx.vars.expiry.toString(); } ctx.payload.update_timestamp = ctx.execution_time;return ctx.payload;"
}
},
"actions": {
"add_to_alerts_index": {
"index": {
"index": ".monitoring-alerts-6",
"doc_type": "doc",
"doc_id": "${monitoring.watch.unique_id}"
}
},
"send_email_to_admin": {
"condition": {
"script": "return ctx.vars.email_recipient != null && (ctx.vars.is_new || ctx.vars.is_resolved)"
},
"email": {
"to": "X-Pack Admin <{{ctx.vars.email_recipient}}>",
"from": "X-Pack Admin <{{ctx.vars.email_recipient}}>",
"subject":
"[[{{#ctx.vars.is_new}}NEW{{/ctx.vars.is_new}}]{{#ctx.vars.is_resolved}}RESOLVED{{/ctx.vars.is_resolved}}]
[{{ctx.metadata.name}}]",
"body": {
"text": "[{{#ctx.vars.is_resolved}}This cluster alert has been resolved: {{/ctx.vars.is_resolved}} This cluster's
license [{{#ctx.vars.is_new}}]is going to expire on
[{{ctx.payload.metadata.time}}]{{/ctx.vars.is_new}}]{{#ctx.vars.is_resolved}}was going to
expire[{{ctx.payload.metadata.time}}]{{/ctx.vars.is_resolved}}.
[{{#ctx.vars.is_new}}]{{ctx.payload.message}}]{{/ctx.vars.is_new}}]"
}
}
}
}

```

```
}  
}  
}  
}  
}
```

Apache HttpComponents Client

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*/

```
package org.elasticsearch.xpack.core.security.authz.permission;
```

```
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
```

```
import java.util.function.Predicate;
```

/**

- * A permission that is based on privileges for cluster wide actions

*/

```
public final class ClusterPermission {
```

```
    public static final ClusterPermission NONE = new ClusterPermission(ClusterPrivilege.NONE);
```

```
    private final ClusterPrivilege privilege;
```

```
    private final Predicate<String> predicate;
```

```
    ClusterPermission(ClusterPrivilege privilege) {
```

```
        this.privilege = privilege;
```

```
        this.predicate = privilege.predicate();
```

```
    }
```

```
    public ClusterPrivilege privilege() {
```

```
        return privilege;
```

```
    }
```

```
    public boolean check(String action) {
```

```
        return predicate.test(action);
```

```
    }
```

```
}
```

/*

*

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*

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*/

package org.elasticsearch.xpack.core.security.authz.permission;

```
import java.util.Arrays;  
import java.util.Collections;  
import java.util.Set;
```

/**

* Represents the definition of a {@link FieldPermissions}. Field permissions are defined as a
* collections of grant and exclude definitions where the exclude definition must be a subset of
* the grant definition.

*/

```
public final class FieldPermissionsDefinition {
```

```
    private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;
```

```
    public FieldPermissionsDefinition(String[] grant, String[] exclude) {  
        this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));  
    }
```

```
public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
    this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
}
```

```
public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
    return fieldGrantExcludeGroups;
}
```

@Override

```
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
```

```
    FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;
```

```
    return fieldGrantExcludeGroups != null ?
        fieldGrantExcludeGroups.equals(that.fieldGrantExcludeGroups) :
        that.fieldGrantExcludeGroups == null;
}
```

@Override

```
public int hashCode() {
    return fieldGrantExcludeGroups != null ? fieldGrantExcludeGroups.hashCode() : 0;
}
```

```
public static final class FieldGrantExcludeGroup {
    private final String[] grantedFields;
    private final String[] excludedFields;
```

```
    public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
        this.grantedFields = grantedFields;
        this.excludedFields = excludedFields;
    }
```

```
    public String[] getGrantedFields() {
        return grantedFields;
    }
```

```
    public String[] getExcludedFields() {
        return excludedFields;
    }
```

@Override

```
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
```

```

        FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;

        if (!Arrays.equals(GrantedFields, that.GrantedFields)) return false;
        return Arrays.equals(excludedFields, that.excludedFields);
    }

    @Override
    public int hashCode() {
        int result = Arrays.hashCode(GrantedFields);
        result = 31 * result + Arrays.hashCode(excludedFields);
        return result;
    }
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.ml.action.CloseJobAction;
import org.elasticsearch.xpack.core.ml.action.DeleteDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.DeleteJobAction;
import org.elasticsearch.xpack.core.ml.action.GetDatafeedsStatsAction;
import org.elasticsearch.xpack.core.ml.action.GetJobsStatsAction;
import org.elasticsearch.xpack.core.ml.action.OpenJobAction;
import org.elasticsearch.xpack.core.ml.action.PutDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.PutJobAction;
import org.elasticsearch.xpack.core.ml.action.StartDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.StopDatafeedAction;
import org.elasticsearch.xpack.core.ml.client.MachineLearningClient;
import org.elasticsearch.xpack.core.ml.datafeed.DatafeedState;
import org.elasticsearch.xpack.core.ml.job.config.JobState;
import org.elasticsearch.persistent.PersistentTasksCustomMetaData;

```

```

import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpack.ml.support.BaseMlIntegTestCase;
import org.junit.Before;

import java.util.Collections;

import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;

@TestLogging("org.elasticsearch.xpack.ml.action:DEBUG")
public class MachineLearningLicensingTests extends BaseMlIntegTestCase {

    @Before
    public void resetLicensing() {
        enableLicensing();

        ensureStableCluster(1);
        ensureYellow();
    }

    public void testMachineLearningPutJobActionRestricted() throws Exception {
        String jobId = "testmachinelearningputjobactionrestricted";
        // Pick a license that does not allow machine learning
        License.OperationMode mode = randomInvalidLicenseType();
        enableLicensing(mode);
        assertMLAllowed(false);
        // test that license restricted apis do not work
        Settings settings = internalCluster().transportClient().settings();
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        }
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        listener.actionGet();
        fail("put job action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
            hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work

```

```

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
    ());
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        PutJobAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}

public void testMachineLearningOpenJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningopenjobactionrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
    ());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response response = putJobListener.actionGet();
        assertNotNull(response);
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
    ());
        PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
        listener.actionGet();
        fail("open job action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
}

```

```

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
});

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    OpenJobAction.Response response = listener.actionGet();
    assertNotNull(response);
}
}

public void testMachineLearningPutDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningputdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId)),
listener);
        listener.actionGet();
        fail("put datafeed action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
    }
}

```

```

        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
hasItem(XPackField.MACHINE_LEARNING));
    }

    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
listener);
        PutDatafeedAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}

public void testAutoCloseJobWithDatafeed() throws Exception {
    String jobId = "testautoclosejobwithdatafeed";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}",
        XContentType.JSON).get();
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        // put job
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        // put datafeed
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
                Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        // open job
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    }
}

```

```

    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    // start datafeed
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
    listener.actionGet();
}

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

enableLicensing(randomValidLicenseType());
assertMLAllowed(true);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    // open job
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    // start datafeed
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
    listener.actionGet();
}

assertBusy() -> {

```

```

    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.OPENED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STARTED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(2, tasks.taskMap().size());
});

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});
}

public void testMachineLearningStartDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningstartdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}",
        XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    }
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
}

```

```

PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putDatafeed(
    new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
        Collections.singletonList(datafeedIndex))), putDatafeedListener);
PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
assertNotNull(putDatafeedResponse);
PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
OpenJobAction.Response openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
    listener.actionGet();
    fail("start datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {

```

```

client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    // re-open job now that the license is valid again
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);

    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
    StartDatafeedAction.Response response = listener.actionGet();
    assertNotNull(response);
}
}

public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}",
        XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());

        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);

        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
                Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);

        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);

        PlainActionFuture<StartDatafeedAction.Response> startDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(
            new StartDatafeedAction.Request(datafeedId, 0L), startDatafeedListener);
        StartDatafeedAction.Response startDatafeedResponse = startDatafeedListener.actionGet();
        assertNotNull(startDatafeedResponse);
    }
}

```

```

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    PlainActionFuture<StopDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).stopDatafeed(new StopDatafeedAction.Request(datafeedId), listener);
    if (invalidLicense) {
        // the stop datafeed due to invalid license happens async, so check if the datafeed turns into stopped state:
        assertBusy(() -> {
            GetDatafeedsStatsAction.Response response =
                new MachineLearningClient(client)
                    .getDatafeedsStats(new GetDatafeedsStatsAction.Request(datafeedId)).actionGet();
            assertEquals(DatafeedState.STOPPED, response.getResponse().results().get(0).getDatafeedState());
        });
    } else {
        listener.actionGet();
    }

    if (invalidLicense) {
        // the close due to invalid license happens async, so check if the job turns into closed state:
        assertBusy(() -> {
            GetJobsStatsAction.Response response =
                new MachineLearningClient(client).getJobsStats(new
GetJobsStatsAction.Request(jobId)).actionGet();
            assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
        });
    }
}

public void testMachineLearningCloseJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
    }
}

```

```

    assertNotNull(putJobResponse);
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    PlainActionFuture<CloseJobAction.Response> listener = PlainActionFuture.newFuture();
    CloseJobAction.Request request = new CloseJobAction.Request(jobId);
    request.setCloseTimeout(TimeValue.timeValueSeconds(20));
    if (invalidLicense) {
        // the close due to invalid license happens async, so check if the job turns into closed state:
        assertBusy(() -> {
            GetJobsStatsAction.Response response =
                new MachineLearningClient(client).getJobsStats(new
GetJobsStatsAction.Request(jobId)).actionGet();
            assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
        });
    } else {
        new MachineLearningClient(client).closeJob(request, listener);
        listener.actionGet();
    }
}
}

public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }
}

```

```

// Pick a random license
License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
    PlainActionFuture<DeleteJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
    listener.actionGet();
}
}

public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningdeletedatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
                Collections.singletonList(jobId))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
    }

    // Pick a random license
    License.OperationMode mode = randomLicenseType();
    enableLicensing(mode);

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress
());
        PlainActionFuture<DeleteDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId),
listener);
        listener.actionGet();
    }
}

```

```

private static OperationMode randomInvalidLicenseType() {
    return randomFrom(License.OperationMode.GOLD, License.OperationMode.STANDARD,
License.OperationMode.BASIC);
}

private static OperationMode randomValidLicenseType() {
    return randomFrom(License.OperationMode.TRIAL, License.OperationMode.PLATINUM);
}

private static OperationMode randomLicenseType() {
    return randomFrom(License.OperationMode.values());
}

private static void assertMLAllowed(boolean expected) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        assertEquals(licenseState.isMachineLearningAllowed(), expected);
    }
}

public static void disableLicensing() {
    disableLicensing(randomValidLicenseType());
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true);
    }
}
}

```

Apache License

Version 2.0, January 2004

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* <http://anonsvn.jboss.org/repos/common/common-logging-spi/>

This product optionally depends on 'Apache Felix', an open source OSGi framework implementation, which can be obtained at:

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* HOMEPAGE:

* <http://felix.apache.org/>

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*/

package org.elasticsearch.license;

import org.elasticsearch.Version;

import org.elasticsearch.cluster.ClusterName;

import org.elasticsearch.cluster.ClusterState;

import org.elasticsearch.cluster.block.ClusterBlocks;

import org.elasticsearch.cluster.metadata.MetaData;

import org.elasticsearch.cluster.node.DiscoveryNode;

import org.elasticsearch.cluster.node.DiscoveryNodes;

import org.elasticsearch.cluster.service.ClusterService;

import org.elasticsearch.common.component.Lifecycle;

import org.elasticsearch.common.settings.Settings;

import org.elasticsearch.env.Environment;

import org.elasticsearch.test.ESTestCase;

import org.elasticsearch.watcher.ResourceWatcherService;

import org.elasticsearch.xpack.core.XPackPlugin;

import org.elasticsearch.xpack.core.watcher.watch.ClockMock;

import org.junit.After;

import org.junit.Before;

import java.nio.file.Path;

import java.util.Arrays;

import static java.util.Collections.emptySet;

import static java.util.Collections.singletonMap;

import static org.mockito.Mockito.mock;

import static org.mockito.Mockito.when;

public abstract class AbstractLicenseServiceTestCase extends ESTestCase {

protected LicenseService licenseService;

protected ClusterService clusterService;

protected ResourceWatcherService resourceWatcherService;

protected ClockMock clock;

```

protected DiscoveryNodes discoveryNodes;
protected Environment environment;
protected String licenseType;

@Before
public void init() throws Exception {
    clusterService = mock(ClusterService.class);
    clock = ClockMock.frozen();
    discoveryNodes = mock(DiscoveryNodes.class);
    resourceWatcherService = mock(ResourceWatcherService.class);
    environment = mock(Environment.class);
}

protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings) {
    setInitialState(license, licenseState, settings, randomBoolean() ? "trial" : "basic");
}

protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings, String
selfGeneratedType) {
    Path tempDir = createTempDir();
    when(environment.configFile()).thenReturn(tempDir);
    licenseType = selfGeneratedType;
    settings =
Settings.builder().put(settings).put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(),
licenseType).build();
    licenseService = new LicenseService(settings, clusterService, clock, environment, resourceWatcherService,
licenseState);
    ClusterState state = mock(ClusterState.class);
    final ClusterBlocks noBlock = ClusterBlocks.builder().build();
    when(state.blocks()).thenReturn(noBlock);
    Metadata metaData = mock(Metadata.class);
    when(metaData.custom(LicensesMetaData.TYPE)).thenReturn(new LicensesMetaData(license, null));
    when(state.metaData()).thenReturn(metaData);
    final DiscoveryNode mockNode = getLocalNode();
    when(discoveryNodes.getMasterNode()).thenReturn(mockNode);
    when(discoveryNodes.spliterator()).thenReturn(Arrays.asList(mockNode).spliterator());
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(false);
    when(state.nodes()).thenReturn(discoveryNodes);
    when(state.getNodes()).thenReturn(discoveryNodes); // it is really ridiculous we have nodes() and getNodes()...
    when(clusterService.state()).thenReturn(state);
    when(clusterService.lifecycleState()).thenReturn(Lifecycle.State.STARTED);
    when(clusterService.getClusterName()).thenReturn(new ClusterName("a"));
    when(clusterService.localNode()).thenReturn(mockNode);
}

protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("b", buildNewFakeTransportAddress(),
singletonMap(XPackPlugin.XPACK_INSTALLED_NODE_ATTR, "true"),

```

```

        emptySet(), Version.CURRENT);
    }

    @After
    public void tearDown() throws Exception {
        super.tearDown();
        licenseService.stop();
    }
}
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import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

class GetTrialStatusResponse extends ActionResponse {

    private boolean eligibleToStartTrial;

    GetTrialStatusResponse() {
    }

    GetTrialStatusResponse(boolean eligibleToStartTrial) {
        this.eligibleToStartTrial = eligibleToStartTrial;
    }

    boolean isEligibleToStartTrial() {
        return eligibleToStartTrial;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        eligibleToStartTrial = in.readBoolean();
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        out.writeBoolean(eligibleToStartTrial);
    }
}

```

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from <http://aspell.net/test/orig/batch0.tab>.
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package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;

import java.util.function.Predicate;

/**

* A permissions that is based on a general privilege that contains patterns of users that this
* user can execute a request as

*/

public final class RunAsPermission {

public static final RunAsPermission NONE = new RunAsPermission(Privilege.NONE);

private final Predicate<String> predicate;

RunAsPermission(Privilege privilege) {
this.predicate = privilege.predicate();
}

/**

* Checks if this permission grants run as to the specified user

*/

public boolean check(String username) {

```

        return predicate.test(username);
    }
}
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import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.Metadata;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;

import java.time.Clock;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.atomic.AtomicReference;

public class StartTrialClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all
    platinum features. " +
        "By starting this trial, you agree that it is subject to the terms and conditions at" +
        " https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify " +
        "the \"acknowledge=true\" parameter.";

    private static final Map<String, String[]> ACK_MESSAGES = Collections.singletonMap("security",
        new String[] { "With a trial license, X-Pack security features are available, but are not enabled by default." });

    private final Logger logger;
    private final String clusterName;
    private final PostStartTrialRequest request;
    private final ActionListener<PostStartTrialResponse> listener;
    private final Clock clock;

    StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request,
        ActionListener<PostStartTrialResponse> listener) {
        this.logger = logger;

```

```

    this.clusterName = clusterName;
    this.request = request;
    this.listener = listener;
    this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
    logger.debug("started self generated trial license: {}", oldLicensesMetaData);

    if (request.isAcknowledged() == false) {
        listener.onResponse(new
PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT,
        ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
    } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
        listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
    } else {
        listener.onResponse(new
PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);

    if (request.isAcknowledged() == false) {
        return currentState;
    } else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
        long issueDate = clock.millis();
        Metadata.Builder mdBuilder = Metadata.builder(currentState.metaData());
        long expiryDate = issueDate +
LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();

        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo(clusterName)
            .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
            .issueDate(issueDate)
            .type(request.getType())
            .expiryDate(expiryDate);

        License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
        LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense,
Version.CURRENT);
        mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    }
}

```

```

    } else {
        return currentState;
    }
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{}]", source), e);
    listener.onFailure(e);
}
}

```

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*/

package org.elasticsearch.xpack.core.security.authz.permission;

```

import org.elasticsearch.cluster.metadata.Metadata;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;

```

```

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

public final class Role {

    public static final Role EMPTY = Role.builder("__empty").build();

    private final String[] names;
    private final ClusterPermission cluster;
    private final IndicesPermission indices;
    private final RunAsPermission runAs;

    Role(String[] names, ClusterPermission cluster, IndicesPermission indices, RunAsPermission runAs) {
        this.names = names;
        this.cluster = Objects.requireNonNull(cluster);
        this.indices = Objects.requireNonNull(indices);
        this.runAs = Objects.requireNonNull(runAs);
    }

    public String[] names() {
        return names;
    }

    public ClusterPermission cluster() {
        return cluster;
    }

    public IndicesPermission indices() {
        return indices;
    }

    public RunAsPermission runAs() {
        return runAs;
    }

    public static Builder builder(String... names) {
        return new Builder(names, null);
    }

    public static Builder builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
        return new Builder(names, fieldPermissionsCache);
    }

    public static Builder builder(RoleDescriptor rd, FieldPermissionsCache fieldPermissionsCache) {

```

```

    return new Builder(rd, fieldPermissionsCache);
}

/**
 * Returns whether at least one group encapsulated by this indices permissions is authorized to execute the
 * specified action with the requested indices/aliases. At the same time if field and/or document level security
 * is configured for any group also the allowed fields and role queries are resolved.
 */
public IndicesAccessControl authorize(String action, Set<String> requestedIndicesOrAliases, MetaData
metaData,
                                   FieldPermissionsCache fieldPermissionsCache) {
    Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = indices.authorize(
        action, requestedIndicesOrAliases, metaData, fieldPermissionsCache
    );

    // At least one role / indices permission set need to match with all the requested indices/aliases:
    boolean granted = true;
    for (Map.Entry<String, IndicesAccessControl.IndexAccessControl> entry : indexPermissions.entrySet()) {
        if (!entry.getValue().isGranted()) {
            granted = false;
            break;
        }
    }
    return new IndicesAccessControl(granted, indexPermissions);
}

public static class Builder {

    private final String[] names;
    private ClusterPermission cluster = ClusterPermission.NONE;
    private RunAsPermission runAs = RunAsPermission.NONE;
    private List<IndicesPermission.Group> groups = new ArrayList<>();
    private FieldPermissionsCache fieldPermissionsCache = null;

    private Builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
        this.names = names;
        this.fieldPermissionsCache = fieldPermissionsCache;
    }

    private Builder(RoleDescriptor rd, @Nullable FieldPermissionsCache fieldPermissionsCache) {
        this.names = new String[] { rd.getName() };
        this.fieldPermissionsCache = fieldPermissionsCache;
        if (rd.getClusterPrivileges().length == 0) {
            cluster = ClusterPermission.NONE;
        } else {
            this.cluster(ClusterPrivilege.get(Sets.newHashSet(rd.getClusterPrivileges())));
        }
        groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));
    }
}

```

```

String[] rdRunAs = rd.getRunAs();
if (rdRunAs != null && rdRunAs.length > 0) {
    this.runAs(new Privilege(Sets.newHashSet(rdRunAs), rdRunAs));
}
}

public Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission(privilege);
    return this;
}

public Builder runAs(Privilege privilege) {
    runAs = new RunAsPermission(privilege);
    return this;
}

public Builder add(IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, FieldPermissions.DEFAULT, null, indices));
    return this;
}

public Builder add(FieldPermissions fieldPermissions, Set<BytesReference> query, IndexPrivilege privilege,
String... indices) {
    groups.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    return this;
}

public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
        new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
    return new Role(names, cluster, indices, runAs);
}

static List<IndicesPermission.Group> convertFromIndicesPrivileges(RoleDescriptor.IndicesPrivileges[]
indicesPrivileges,
                                @Nullable FieldPermissionsCache fieldPermissionsCache) {
    List<IndicesPermission.Group> list = new ArrayList<>(indicesPrivileges.length);
    for (RoleDescriptor.IndicesPrivileges privilege : indicesPrivileges) {
        final FieldPermissions fieldPermissions;
        if (fieldPermissionsCache != null) {
            fieldPermissions = fieldPermissionsCache.getFieldPermissions(privilege.getGrantedFields(),
privilege.getDeniedFields());
        } else {
            fieldPermissions = new FieldPermissions(
                new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()));
        }
        final Set<BytesReference> query = privilege.getQuery() == null ? null :
Collections.singleton(privilege.getQuery());

```

```

        list.add(new IndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())),
            fieldPermissions,
            query,
            privilege.getIndices()));

    }
    return list;
}
}
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    public boolean isAcknowledged() {
        return acknowledge;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        acknowledge = in.readBoolean();
    }
}

```

```
@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeBoolean(acknowledge);
}
}
```

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```
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package org.elasticsearch.xpack.core.security.authz.permission;

```

import org.apache.lucene.util.automaton.Automaton;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.common.cache.Cache;
import org.elasticsearch.common.cache.CacheBuilder;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;

import static org.elasticsearch.xpack.core.security.SecurityField.setting;

/**
 * A service for managing the caching of { @link FieldPermissions } as these may often need to be combined or
 * created and internally they
 * use an { @link org.apache.lucene.util.automaton.Automaton }, which can be costly to create once you account for
 * minimization
 */
public final class FieldPermissionsCache {

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
        setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L,
        Property.NodeScope);
    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
            .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
            .weigher((key, fieldPermissions) -> fieldPermissions.ramBytesUsed())
            .build();
    }

    /**
     * Gets a { @link FieldPermissions } instance that corresponds to the granted and denied parameters. The instance
     * may come from the cache
     * or if it gets created, the instance will be cached
     */
    FieldPermissions getFieldPermissions(String[] granted, String[] denied) {
        return getFieldPermissions(new FieldPermissionsDefinition(granted, denied));
    }
}

```

```

/**
 * Gets a {@link FieldPermissions} instance that corresponds to the granted and denied parameters. The instance
may come from the cache
 * or if it gets created, the instance will be cached
 */
public FieldPermissions getFieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
    try {
        return cache.computeIfAbsent(fieldPermissionsDefinition,
            (key) -> new FieldPermissions(key, FieldPermissions.initializePermittedFieldsAutomaton(key)));
    } catch (ExecutionException e) {
        throw new ElasticsearchException("unable to compute field permissions", e);
    }
}

/**
 * Returns a field permissions object that corresponds to the merging of the given field permissions and caches the
instance if one was
 * not found in the cache.
 */
FieldPermissions getFieldPermissions(Collection<FieldPermissions> fieldPermissionsCollection) {
    Optional<FieldPermissions> allowAllFieldPermissions = fieldPermissionsCollection.stream()
        .filter(((Predicate<FieldPermissions>) (FieldPermissions::hasFieldLevelSecurity)).negate())
        .findFirst();
    return allowAllFieldPermissions.orElseGet(() -> {
        final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups = fieldPermissionsCollection.stream()
            .flatMap(fieldPermission ->
fieldPermission.getFieldPermissionsDefinition().getFieldGrantExcludeGroups().stream())
            .collect(Collectors.toSet());
        final FieldPermissionsDefinition combined = new FieldPermissionsDefinition(fieldGrantExcludeGroups);
        try {
            return cache.computeIfAbsent(combined, (key) -> {
                List<Automaton> automatonList = fieldPermissionsCollection.stream()
                    .map(FieldPermissions::getIncludeAutomaton)
                    .collect(Collectors.toList());
                return new FieldPermissions(key, Automatons.unionAndMinimize(automatonList));
            });
        } catch (ExecutionException e) {
            throw new ElasticsearchException("unable to compute field permissions", e);
        }
    });
}

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 */

```

```

package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

class GetBasicStatusResponse extends ActionResponse {

    private boolean eligibleToStartBasic;

    GetBasicStatusResponse() {
    }

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    boolean isEligibleToStartBasic() {
        return eligibleToStartBasic;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        eligibleToStartBasic = in.readBoolean();
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        out.writeBoolean(eligibleToStartBasic);
    }
}

```

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*/

package org.elasticsearch.license;

```
import org.elasticsearch.Version;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.unit.TimeValue;
```

```
import java.net.InetAddress;
```

```
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
```

```

public class LicenseTLSTests extends AbstractLicenseServiceTestCase {

    private InetAddress inetAddress;

    public void testApplyLicenseInDevMode() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "platinum"),
TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        inetAddress = InetAddress.getLoopbackAddress();

        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

        inetAddress = TransportAddress.META_ADDRESS;
        settings = Settings.builder()
            .put("xpack.security.enabled", true)
            .put("discovery.type", "single-node")
            .build();
        licenseService.stop();
        licenseState = new XPackLicenseState(settings);
        setInitialState(null, licenseState, settings);
        licenseService.start();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testApplyLicenseInProdMode() throws Exception {
        final String licenseType = randomFrom("GOLD", "PLATINUM");
        License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        inetAddress = TransportAddress.META_ADDRESS;

        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        IllegalStateException e = expectThrows(IllegalStateException.class, () ->

```

```

licenseService.registerLicense(request, responseFuture));
    assertThat(e.getMessage(),
        containsString("Cannot install a [" + licenseType + "] license unless TLS is configured or security is
disabled"));

    settings = Settings.builder().put("xpack.security.enabled", false).build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true)
        .build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

@Override
protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("localnode", new TransportAddress(inetAddress, randomIntBetween(9300, 9399)),
        emptyMap(), emptySet(), Version.CURRENT);
}
}
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 */
package org.elasticsearch.license;

public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }
}

```

```

public int id() {
    return id;
}

public static LicensesStatus fromId(int id) {
    if (id == 0) {
        return VALID;
    } else if (id == 1) {
        return INVALID;
    } else if (id == 2) {
        return EXPIRED;
    } else {
        throw new IllegalStateException("no valid LicensesStatus for id=" + id);
    }
}
}
}

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package org.elasticsearch.license;

import org.elasticsearch.common.bytes.ByteArray;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;

import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;

import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
    public void testSimpleIssueExpiryDate() throws Exception {
        long now = System.currentTimeMillis();

```

```

String issueDate = TestUtils.dateMathString("now", now);
String expiryDate = TestUtils.dateMathString("now+10d/d", now);
String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
License generatedLicense = License.fromSource(new
ByteArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
    assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfDay(issueDate)));
    assertThat(generatedLicense.expiryDate(), equalTo(DateUtils.endOfDay(expiryDate)));
}

public void testLicensesFields() throws Exception {
    TestUtils.LicenseSpec randomLicenseSpec =
TestUtils.generateRandomLicenseSpec(License.VERSION_START);
    String licenseSpecsSource = TestUtils.generateLicenseSpecString(randomLicenseSpec);
    final License fromSource =
        License.fromSource(new ByteArray(licenseSpecsSource.getBytes(StandardCharsets.UTF_8)),
XContentType.JSON);
    TestUtils.assertLicenseSpec(randomLicenseSpec, fromSource);
}

public void testLicenseRestView() throws Exception {
    long now = System.currentTimeMillis();
    String expiredLicenseExpiryDate = TestUtils.dateMathString("now-1d/d", now);
    String validLicenseIssueDate = TestUtils.dateMathString("now-10d/d", now);
    String invalidLicenseIssueDate = TestUtils.dateMathString("now+1d/d", now);
    String validLicenseExpiryDate = TestUtils.dateMathString("now+2d/d", now);

    License license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate,
expiredLicenseExpiryDate));
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType().v2());

    // should have an extra status field, human readable issue_date and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), notNullValue());
    assertThat(map.get("status"), equalTo("expired"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType().v2());
    assertThat(map.get("status"), nullValue());

    license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate,
validLicenseExpiryDate));

```

```

    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType().v2());

    // should have an extra status field, human readable issue_data and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), notNullValue());
    assertThat(map.get("status"), equalTo("active"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType().v2());
    assertThat(map.get("status"), nullValue());

    license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(invalidLicenseIssueDate,
validLicenseExpiryDate));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType().v2());

    // should have an extra status field, human readable issue_data and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), notNullValue());
    assertThat(map.get("status"), equalTo("invalid"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType().v2());
    assertThat(map.get("status"), nullValue());
}

```

```

public void testLicenseRestViewNonExpiringBasic() throws Exception {
    long now = System.currentTimeMillis();

```

```

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder);

```

```

    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType().v2());

    // should have an extra status field, human readable issue_data and no expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("type"), equalTo("basic"));
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), nullValue());
    assertThat(map.get("expiry_date_in_millis"), nullValue());
    assertThat(map.get("status"), equalTo("active"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType().v2());
    assertThat(map.get("status"), nullValue());
}
}
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```

```

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import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;

import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;

import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put("node.data", true)
            .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
            .put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartBasicLicense() throws Exception {

```

```

LicensingClient licensingClient = new LicensingClient(client());
License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
TimeValue.timeValueHours(24));
licensingClient.preparePutLicense(license).get();

assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("trial", getLicenseResponse.license().type());
});

// Testing that you can start a basic license when you have no license
if (randomBoolean()) {
    licensingClient.prepareDeleteLicense().get();
    assertNull(licensingClient.prepareGetLicense().get().license());
}

RestClient restClient = getRestClient();
Response response = restClient.performRequest("GET", "/_xpack/license/basic_status");
String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response.getStatusLine().getStatusCode());
assertEquals("{\"eligible_to_start_basic\":true}", body);

Response response2 = restClient.performRequest("POST", "/_xpack/license/start_basic?acknowledge=true");
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains("\"acknowledged\":true"));
assertTrue(body2.contains("\"basic_was_started\":true"));

assertBusy(() -> {
    GetLicenseResponse currentLicense = licensingClient.prepareGetLicense().get();
    assertEquals("basic", currentLicense.license().type());
});

long expirationMillis = licensingClient.prepareGetLicense().get().license().expiryDate();
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
expirationMillis);

Response response3 = restClient.performRequest("GET", "/_xpack/license");
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
StandardCharsets.UTF_8));
assertTrue(body3.contains("\"type\" : \"basic\""));
assertFalse(body3.contains("expiry_date"));
assertFalse(body3.contains("expiry_date_in_millis"));

Response response4 = restClient.performRequest("GET", "/_xpack/license/basic_status");

```

```

String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertEquals("{\"eligible_to_start_basic\":false}", body4);

ResponseException ex = expectThrows(ResponseException.class,
    () -> restClient.performRequest("POST", "/_xpack/license/start_basic"));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("\"basic_was_started\":false"));
assertTrue(body5.contains("\"acknowledged\":true"));
assertTrue(body5.contains("\"error_message\": \"Operation failed: Current license is basic.\""));
}

public void testUnacknowledgedStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();

    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("trial", getLicenseResponse.license().type());
    });

    Response response2 = getRestClient().performRequest("POST", "/_xpack/license/start_basic");
    String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertTrue(body2.contains("\"acknowledged\":false"));
    assertTrue(body2.contains("\"basic_was_started\":false"));
    assertTrue(body2.contains("\"error_message\": \"Operation failed: Needs acknowledgement.\""));
    assertTrue(body2.contains("\"message\": \"This license update requires acknowledgement. To acknowledge the
license, " +
        "please read the following messages and call /start_basic again, this time with the
\\\"\\\"acknowledge=true\\\"\\\""));
    }
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;

```

```

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPutLicenseAction extends TransportMasterNodeAction<PutLicenseRequest,
PutLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPutLicenseAction(Settings settings, TransportService transportService, ClusterService
clusterService,
                                LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
                                IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PutLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
indexNameExpressionResolver,
            PutLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(PutLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

    @Override
    protected void masterOperation(final PutLicenseRequest request, ClusterState state, final
ActionListener<PutLicenseResponse>
        listener) throws ElasticsearchException {

```

```
licenseService.registerLicense(request, listener);  
}  
  
}
```

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*/

package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;

import org.elasticsearch.common.io.stream.OutputStream;

```

import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.test.ESTestCase;

import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;

import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.hamcrest.Matchers.sameInstance;

public class PutLicenseResponseTests extends ESTestCase {
    @SuppressWarnings("unchecked")
    public void testSerialization() throws Exception {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);

        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));

        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));

        assertThat(map.containsKey("acknowledge"), equalTo(true));
        Map<String, List<String>> actualAckMessages = (Map<String, List<String>>) map.get("acknowledge");
        assertTrue(actualAckMessages.containsKey("message"));
        actualAckMessages.remove("message");
        assertThat(actualAckMessages.keySet(), equalTo(ackMessages.keySet()));
        for (Map.Entry<String, List<String>> entry : actualAckMessages.entrySet()) {
            assertEquals(entry.getValue().toArray(), ackMessages.get(entry.getKey()));
        }
    }
}

```

```

}

public void testStreamSerialization() throws IOException {
    boolean acknowledged = randomBoolean();
    LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
LicensesStatus.EXPIRED);
    Map<String, String[]> ackMessages = randomAckMessages();

    // write the steam so that we can attempt to read it back
    ByteArrayOutputStream output = new ByteArrayOutputStream();

    PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);
    // write it out
    response.writeTo(output);

    StreamInput input = output.bytes().streamInput();

    // read it back in
    response.readFrom(input);

    assertThat(response.isAcknowledged(), equalTo(acknowledged));
    assertThat(response.status(), equalTo(status));
    assertThat(response.acknowledgeMessages(), not(sameInstance(ackMessages)));
    assertThat(response.acknowledgeMessages().size(), equalTo(ackMessages.size()));

    for (String key : ackMessages.keySet()) {
        assertThat(ackMessages.get(key), response.acknowledgeMessages().get(key));
    }
}

private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);

    Map<String, String[]> ackMessages = new HashMap<>();

    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }
        ackMessages.put(feature, messages);
    }

    return ackMessages;
}
}

```

```

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest,
    PostStartBasicResponse, PostStartBasicRequestBuilder> {

    PostStartBasicRequestBuilder(ElasticsearchClient client, PostStartBasicAction action) {
        super(client, action, new PostStartBasicRequest());
    }

    public PostStartBasicRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}

***The art of simplicity is a puzzle of complexity.***

## Overview ##
[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a complete [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##
* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##
* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at

```

```

[the mailing list](http://groups.google.com/group/snakeyaml-core).
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package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterModule;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.metadata.RepositoriesMetaData;
import org.elasticsearch.cluster.metadata.RepositoryMetaData;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContent.Params;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.ESTestCase;

import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;

import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.notNullValue;
import static org.hamcrest.Matchers.nullValue;

public class LicensesMetaDataSerializationTests extends ESTestCase {

    public void testXContentSerializationOneSignedLicense() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
            getLicensesMetaDataFromXContent(createParser(builder));
    }
}

```

```

    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
}

public void testXContentSerializationOneSignedLicenseWithUsedTrial() throws Exception {
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseMetadataParsingDoesNotSwallowOtherMetadata() throws Exception {
    new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom Metadata
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    RepositoryMetaData repositoryMetaData = new RepositoryMetaData("repo", "fs", Settings.EMPTY);
    RepositoriesMetaData repositoriesMetaData = new RepositoriesMetaData(repositoryMetaData);
    final Metadata.Builder metaDataBuilder = Metadata.builder();
    if (randomBoolean()) { // random order of insertion
        metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
        metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
    } else {
        metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
        metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
    }
    // serialize metadata
    XContentBuilder builder = XContentFactory.jsonBuilder();
    Params params = new
ToXContent.MapParams(Collections.singletonMap(Metadata.CONTEXT_MODE_PARAM,
Metadata.CONTEXT_MODE_GATEWAY));
    builder.startObject();
    builder = metaDataBuilder.build().toXContent(builder, params);
    builder.endObject();
    // deserialize metadata again
    Metadata metaData = Metadata.Builder.fromXContent(createParser(builder));
    // check that custom metadata still present
    assertThat(metaData.custom(licensesMetaData.getWriteableName()), notNullValue());
    assertThat(metaData.custom(repositoriesMetaData.getWriteableName()), notNullValue());
}

```

```

public void testXCContentSerializationOneTrial() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .type(randomBoolean() ? "trial" : "basic")
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    final License trialLicense = SelfGeneratedLicense.create(specBuilder);
    LicensesMetaData licensesMetaData = new LicensesMetaData(trialLicense, Version.CURRENT);
    XCContentBuilder builder = XCContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXCContent(builder, ToXCContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXCContent =
getLicensesMetaDataFromXCContent(createParser(builder));
    assertThat(licensesMetaDataFromXCContent.getLicense(), equalTo(trialLicense));
    assertEquals(licensesMetaDataFromXCContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseTombstoneFromXCContext() throws Exception {
    final XCContentBuilder builder = XCContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXCContent = getLicensesMetaDataFromXCContent(createParser(builder));
    assertThat(metaDataFromXCContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

public void testLicenseTombstoneWithUsedTrialFromXCContext() throws Exception {
    final XCContentBuilder builder = XCContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.field("trial_license", Version.CURRENT.toString());
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXCContent = getLicensesMetaDataFromXCContent(createParser(builder));
    assertThat(metaDataFromXCContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
    assertEquals(metaDataFromXCContent.getMostRecentTrialVersion(), Version.CURRENT);
}

private static LicensesMetaData getLicensesMetaDataFromXCContent(XCContentParser parser) throws Exception {

```

```

    parser.nextToken(); // consume null
    parser.nextToken(); // consume "licenses"
    LicensesMetaData licensesMetaDataFromXContent = LicensesMetaData.fromXContent(parser);
    parser.nextToken(); // consume endObject
    assertThat(parser.nextToken(), nullValue());
    return licensesMetaDataFromXContent;
}

@Override
protected NamedXContentRegistry xContentRegistry() {
    return new NamedXContentRegistry(Stream.concat(
        new Licensing(Settings.EMPTY).getNamedXContent().stream(),
        ClusterModule.getNamedXWriteables().stream()
    ).collect(Collectors.toList()));
}
}
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 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.XPackPlugin;

import java.time.Clock;
import java.util.UUID;

public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {

    /**
     * Max number of nodes licensed by generated trial license
     */
    private int selfGeneratedLicenseMaxNodes = 1000;

    private final Settings settings;
    private final Clock clock;

```

```

private final ClusterService clusterService;
private final Logger logger;

public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
    this.settings = settings;
    this.clock = clock;
    this.clusterService = clusterService;
    this.logger = Loggers.getLogger(getClass(), settings);
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
    if (logger.isDebugEnabled()) {
        logger.debug("registered self generated license: {}", licensesMetaData);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    final Metadata metaData = currentState.metaData();
    final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    // do not generate a license if any license is present
    if (currentLicensesMetaData == null) {
        String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
        if (SelfGeneratedLicense.validSelfGeneratedType(type) == false) {
            throw new IllegalArgumentException("Illegal self generated license type [" + type +
                "]. Must be trial or basic.");
        }

        return updateWithLicense(currentState, type);
    } else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
        return extendBasic(currentState, currentLicensesMetaData);
    } else {
        return currentState;
    }
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error((Supplier<?>) () -> new ParameterizedMessage("unexpected failure during [{}]", source), e);
}

private ClusterState extendBasic(ClusterState currentState, LicensesMetaData currentLicenseMetadata) {
    License license = currentLicenseMetadata.getLicense();
    Metadata.Builder mdBuilder = Metadata.builder(currentState.metaData());
    LicensesMetaData newLicenseMetadata = createBasicLicenseFromExistingLicense(currentLicenseMetadata);
}

```

```

mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
logger.info("Existing basic license has an expiration. Basic licenses no longer expire." +
    "Regenerating license.\n\nOld license:\n { }\n\n New license:\n{ }", license,
newLicenseMetadata.getLicense());
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

private LicensesMetaData createBasicLicenseFromExistingLicense(LicensesMetaData currentLicenseMetadata) {
    License currentLicense = currentLicenseMetadata.getLicense();
    License.Builder specBuilder = License.builder()
        .uid(currentLicense.uid())
        .issuedTo(currentLicense.issuedTo())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(currentLicense.issueDate())
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
    Version trialVersion = currentLicenseMetadata.getMostRecentTrialVersion();
    return new LicensesMetaData(selfGeneratedLicense, trialVersion);
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    long expiryDate;
    if ("basic".equals(type)) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        expiryDate = issueDate +
LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
    }
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo(clusterService.getClusterName().value())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(issueDate)
        .type(type)
        .expiryDate(expiryDate);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
    LicensesMetaData licensesMetadata;
    if ("trial".equals(type)) {
        licensesMetadata = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
    } else {
        licensesMetadata = new LicensesMetaData(selfGeneratedLicense, null);
    }
    mdBuilder.putCustom(LicensesMetaData.TYPE, licensesMetadata);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

```

```
}
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```

```
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*/
package org.elasticsearch.license;
```

```
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.settings.Settings;
import org.mockito.ArgumentCaptor;
import org.mockito.Mockito;
```

```
import java.util.UUID;
```

```
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;
```

```
public class LicenseRegistrationTests extends AbstractLicenseServiceTestCase {

    public void testSelfGeneratedTrialLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "trial");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metadata().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("trial", licenseMetaData.getLicense().type());
    }
}
```

```

    assertEquals(clock.millis() +
LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(),
        licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertTrue(licenseMetaData.isEligibleForTrial());
        assertEquals("basic", licenseMetaData.getLicense().type());
        assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expiryDate());
    }

    public void testNonSelfGeneratedBasicLicenseIsReplaced() throws Exception {
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        final License.Builder builder = License.builder()
            .uid(uid)
            .version(License.VERSION_CURRENT)
            .expiryDate(dateMath("now+2h", now))
            .startDate(now)
            .issueDate(now)
            .type("basic")
            .issuedTo("customer")
            .issuer("elasticsearch")
            .maxNodes(5);
        License license = TestUtils.generateSignedLicense(builder);

        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(license, licenseState, Settings.EMPTY);
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        Metadata.Builder mdBuilder = Metadata.builder();
        mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
        ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();

```

```

    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expiryDate());
    assertEquals(uid, licenseMetaData.getLicense().uid());
}

```

```

public void testExpiredSelfGeneratedBasicLicenseIsExtended() throws Exception {

```

```

    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    License.Builder builder = License.builder()
        .uid(uid)
        .issuedTo("name")
        .maxNodes(1000)
        .issueDate(dateMath("now-10h", now))
        .type("basic")
        .expiryDate(dateMath("now-2h", now));
    License license = SelfGeneratedLicense.create(builder);

```

```

    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();

```

```

    MetaData.Builder mdBuilder = MetaData.builder();
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expiryDate());
    assertEquals(uid, licenseMetaData.getLicense().uid());
}
}

```

```

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.RestStatus;

import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

class PostStartBasicResponse extends AcknowledgedResponse {

    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeMessage;

    enum Status {
        GENERATED_BASIC(true, null, RestStatus.OK),
        ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.", RestStatus.OK);

        private final boolean isBasicStarted;
        private final String errorMessage;
        private final RestStatus restStatus;

        Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
            this.isBasicStarted = isBasicStarted;
            this.errorMessage = errorMessage;
            this.restStatus = restStatus;
        }
    }

    boolean isBasicStarted() {
        return isBasicStarted;
    }

    String getErrorMessage() {
        return errorMessage;
    }
}

```

```

    RestStatus getRestStatus() {
        return restStatus;
    }
}

private Status status;

PostStartBasicResponse() {
}

PostStartBasicResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String
acknowledgeMessage) {
    super(status != NEED_ACKNOWLEDGEMENT);
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    readAcknowledged(in);
    status = in.readEnum(Status.class);
    acknowledgeMessage = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}

@Override
public void writeTo(StreamOutput out) throws IOException {

```

```

super.writeTo(out);
writeAcknowledged(out);
out.writeEnum(status);
out.writeOptionalString(acknowledgeMessage);
out.writeVInt(acknowledgeMessages.size());
for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
    out.writeString(entry.getKey());
    out.writeVInt(entry.getValue().length);
    for (String message : entry.getValue()) {
        out.writeString(message);
    }
}
}
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    if (status.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
        builder.field("basic_was_started", false);
        builder.field("error_message", status.getErrorMessage());
    }
    if (acknowledgeMessages.isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeMessage);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}
}
}

```

Apache HttpComponents Core

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*/

package org.elasticsearch.license;

```
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
```

```
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
```

```
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.hamcrest.Matchers.equalTo;
```

```
public class SelfGeneratedLicenseTests extends ESTestCase {
```

```
    public void testBasic() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issuedTo("customer")
```

```

        .maxNodes(5)
        .type(randomBoolean() ? "trial" : "basic")
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
License trialLicense = SelfGeneratedLicense.create(specBuilder);
assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
}

public void testTampered() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .type(randomBoolean() ? "trial" : "basic")
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
License trialLicense = SelfGeneratedLicense.create(specBuilder);
final String originalSignature = trialLicense.signature();
License tamperedLicense = License.builder().fromLicenseSpec(trialLicense, originalSignature)
    .expiryDate(System.currentTimeMillis() + TimeValue.timeValueHours(5).getMillis())
    .build();
assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
assertThat(SelfGeneratedLicense.verify(tamperedLicense), equalTo(false));
}

public void testFrom1x() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .type("subscription")
        .subscriptionType("trial")
        .issuer("elasticsearch")
        .feature("")
        .version(License.VERSION_START)
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
License pre20TrialLicense = specBuilder.build();
License license =
SelfGeneratedLicense.create(License.builder().fromPre20LicenseSpec(pre20TrialLicense).type("trial"));
assertThat(SelfGeneratedLicense.verify(license), equalTo(true));
}

public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()

```

```

        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis())
        .feature("")
        .subscriptionType("trial")
        .version(1);
License trialLicenseV1 = createTrialLicense(specBuilder);
assertThat(SelfGeneratedLicense.verify(trialLicenseV1), equalTo(true));
}

private static License createTrialLicense(License.Builder specBuilder) {
    License spec = specBuilder
        .type(randomBoolean() ? "trial" : "basic")
        .issuer("elasticsearch")
        .uid(UUID.randomUUID().toString())
        .build();
    final String signature;
    try {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        spec.toXContent(contentBuilder, new
ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
        byte[] encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
        byte[] bytes = new byte[4 + 4 + encrypt.length];
        ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
        byteBuffer.putInt(-spec.version())
            .putInt(encrypt.length)
            .put(encrypt);
        signature = Base64.getEncoder().encodeToString(bytes);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
    return License.builder().fromLicenseSpec(spec, signature).build();
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.joda.time.MutableDateTime;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;

```

```

public class DateUtils {

    private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");

    private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();

    private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();

    public static long endOfDay(String date) {
        try {
            // Try parsing using complete date/time format
            return dateTimeFormatter.parseDateTime(date).getMillis();
        } catch (IllegalArgumentException ex) {
            // Fall back to the date only format
            MutableDateTime dateTime = dateOnlyFormatter.parseMutableDateTime(date);
            dateTime.millisOfDay().set(dateTime.millisOfDay().getMaximumValue());
            return dateTime.getMillis();
        }
    }

    public static long beginningOfDay(String date) {
        try {
            // Try parsing using complete date/time format
            return dateTimeFormatter.parseDateTime(date).getMillis();
        } catch (IllegalArgumentException ex) {
            // Fall back to the date only format
            return dateOnlyFormatter.parseDateTime(date).getMillis();
        }
    }
}

```

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*/

package org.elasticsearch.license;

import org.elasticsearch.action.ActionFuture;

import org.elasticsearch.common.bytes.BytesArray;

import org.elasticsearch.common.settings.Settings;

import org.elasticsearch.common.unit.TimeValue;

import org.elasticsearch.common.xcontent.XContentType;

import org.elasticsearch.node.Node;

import org.elasticsearch.plugins.Plugin;

import org.elasticsearch.test.ESSingleNodeTestCase;

import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

import org.elasticsearch.xpack.core.XPackSettings;

import java.nio.charset.StandardCharsets;

import java.util.Collection;

import java.util.Collections;

import java.util.UUID;

import static org.elasticsearch.license.TestUtils.dateMath;

import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;

```

import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        Settings.Builder newSettings = Settings.builder();
        newSettings.put(super.nodeSettings());
        newSettings.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
        // newSettings.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
        // newSettings.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
        newSettings.put(Node.NODE_DATA_SETTING.getKey(), true);
        return newSettings.build();
    }

    public void testEmptyGetLicense() throws Exception {
        // basic license is added async, we should wait for it
        assertBusy(() -> {
            try {
                final ActionFuture<GetLicenseResponse> getLicenseFuture =
                    new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).execute();
                final GetLicenseResponse getLicenseResponse;
                getLicenseResponse = getLicenseFuture.get();
                assertNotNull(getLicenseResponse.license());
                assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
            } catch (Exception e) {
                throw new RuntimeException("unexpected exception", e);
            }
        });
    }

    public void testPutLicense() throws Exception {
        License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

        // put license
        PutLicenseRequestBuilder putLicenseRequestBuilder =

```

```

        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(signedLicense)
            .setAcknowledge(true);
        PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
        assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
        assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

        // get and check license
        GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
        assertThat(getLicenseResponse.license(), equalTo(signedLicense));
    }

    public void testPutLicenseFromString() throws Exception {
        License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
        String licenseString = TestUtils.dumpLicense(signedLicense);

        // put license source
        PutLicenseRequestBuilder putLicenseRequestBuilder =
            new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE)
                .setLicense(new ByteArray(licenseString.getBytes(StandardCharsets.UTF_8)),
XContentType.JSON)
                .setAcknowledge(true);
        PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
        assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
        assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

        // get and check license
        GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
        assertThat(getLicenseResponse.license(), equalTo(signedLicense));
    }

    public void testPutInvalidLicense() throws Exception {
        License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

        // modify content of signed license
        License tamperedLicense = License.builder()
            .fromLicenseSpec(signedLicense, signedLicense.signature())
            .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
            .validate()
            .build();

        PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
        builder.setLicense(tamperedLicense);

        // try to put license (should be invalid)

```

```

final PutLicenseResponse putLicenseResponse = builder.get();
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

// try to get invalid license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), not(tamperedLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
    License signedLicense = generateSignedLicense("basic", License.VERSION_CURRENT, -1,
TimeValue.timeValueMinutes(2));

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
    builder.setLicense(signedLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
    assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(signedLicense));
}

public void testPutExpiredLicense() throws Exception {
    License expiredLicense = generateExpiredNonBasicLicense();
    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
    builder.setLicense(expiredLicense);
    PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.EXPIRED));
    // get license should not return the expired license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutLicensesSimple() throws Exception {
    License goldSignedLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(goldSignedLicense)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}

```

```

    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldSignedLicense));

    License platinumSignedLicense = generateSignedLicense("platinum", TimeValue.timeValueMinutes(2));
    putLicenseRequestBuilder.setLicense(platinumSignedLicense);
    putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(platinumSignedLicense));
}

```

```

public void testRemoveLicensesSimple() throws Exception {
    License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(goldLicense)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldLicense));
    // delete all licenses
    DeleteLicenseRequestBuilder deleteLicenseRequestBuilder =
        new DeleteLicenseRequestBuilder(client().admin().cluster(), DeleteLicenseAction.INSTANCE);
    DeleteLicenseResponse deleteLicenseResponse = deleteLicenseRequestBuilder.get();
    assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));
    // get licenses (expected no licenses)
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertNull(getLicenseResponse.license());
}

```

```

public void testLicenseIsRejectWhenStartDateLaterThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(dateMath("now+1h", now))
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")

```

```

        .maxNodes(5);
License license = TestUtils.generateSignedLicense(builder);

PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(license)
        .setAcknowledged(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}

public void testLicenseIsAcceptedWhenStartDateBeforeThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
License license = TestUtils.generateSignedLicense(builder);

PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(license)
        .setAcknowledged(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest,
DeleteLicenseResponse,
DeleteLicenseRequestBuilder> {

```

```

public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
    this(client, DeleteLicenseAction.INSTANCE);
}

/**
 * Creates new get licenses request builder
 *
 * @param client elasticsearch client
 */
public DeleteLicenseRequestBuilder(ElasticsearchClient client, DeleteLicenseAction action) {
    super(client, action, new DeleteLicenseRequest());
}
}

```

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```

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 */
package org.elasticsearch.license;

```

```

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;

```

```

import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.Before;

import java.util.Collection;
import java.util.Collections;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicBoolean;

import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;

public class LicensesManagerServiceTests extends ESSingleNodeTestCase {

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        return Settings.builder()
            .put(super.nodeSettings())
            .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
            .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
            .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
            .put(XPackSettings.GRAPH_ENABLED.getKey(), false)
            .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
            .build();
    }

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Before
    public void waitForTrialLicenseToBeGenerated() throws Exception {
        assertBusy(() ->
            assertNotNull(getInstanceFromNode(ClusterService.class).state().metaData().custom(LicensesMetaData.TYPE)));
    }

    public void testStoreAndGetLicenses() throws Exception {
        LicenseService licenseService = getInstanceFromNode(LicenseService.class);
        ClusterService clusterService = getInstanceFromNode(ClusterService.class);
        License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
        TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
        License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueHours(2));
    }
}

```

```

TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), equalTo(platinumLicense));
final License getLicenses = licenseService.getLicense();
assertThat(getLicenses, equalTo(platinumLicense));
}

```

// TODO: Add test/feature blocking the registration of basic license

```

public void testEffectiveLicenses() throws Exception {
    final LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    final ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueSeconds(5));
    // put gold license
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(goldLicense));

    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueSeconds(3));
    // put platinum license
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(platinumLicense));
}

```

```

public void testInvalidLicenseStorage() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License signedLicense = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(2));

    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    TestUtils.registerAndAckSignedLicenses(licenseService, tamperedLicense, LicensesStatus.INVALID);

    // ensure that the invalid license never made it to cluster state
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(equalTo(tamperedLicense)));
}

```

```

public void testRemoveLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);

```

```

ClusterService clusterService = getInstanceFromNode(ClusterService.class);

// generate signed licenses
License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(1));
TestUtils.registerAndAckSignedLicenses(licenseService, license, LicensesStatus.VALID);
LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), not(LicensesMetaData.LICENSE_TOMBSTONE));

// remove signed licenses
removeAndAckSignedLicenses(licenseService);
licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
assertThat(licensesMetaData.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

private void removeAndAckSignedLicenses(final LicenseService licenseService) {
    final CountdownLatch latch = new CountdownLatch(1);
    final AtomicBoolean success = new AtomicBoolean(false);
    licenseService.removeLicense(new DeleteLicenseRequest(), new
ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            if (clusterStateUpdateResponse.isAcknowledged()) {
                success.set(true);
            }
            latch.countDown();
        }

        @Override
        public void onFailure(Exception throwable) {
            latch.countDown();
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        fail(e.getMessage());
    }
    assertThat("remove license(s) failed", success.get(), equalTo(true));
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;

```

```

import org.elasticsearch.client.ElasticsearchClient;

public class PostStartTrialAction extends Action<PostStartTrialRequest, PostStartTrialResponse,
PostStartTrialRequestBuilder> {

    public static final PostStartTrialAction INSTANCE = new PostStartTrialAction();
    public static final String NAME = "cluster:admin/xpack/license/start_trial";

    private PostStartTrialAction() {
        super(NAME);
    }

    @Override
    public PostStartTrialRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartTrialRequestBuilder(client, this);
    }

    @Override
    public PostStartTrialResponse newResponse() {
        return new PostStartTrialResponse();
    }
}

```

/*

```

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```

The msinttypes r29

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*/

package org.elasticsearch.license;

```
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.After;
import org.junit.Before;
```

```
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
```

```
import static org.hamcrest.Matchers.equalTo;
```

```
public class OperationModeFileWatcherTests extends ESTestCase {
    private ResourceWatcherService watcherService;
    private TestThreadPool threadPool;
```

```

private Path licenseModePath;
private OperationModeFileWatcher operationModeFileWatcher;
private AtomicReference<CountDownLatch> onChangeCounter;

@Before
public void setup() throws Exception {
    threadPool = new TestThreadPool("license mode file watcher tests");
    Settings settings = Settings.builder()
        .put("resource.reload.interval.high", "10ms")
        .build();
    watcherService = new ResourceWatcherService(settings,
        threadPool);
    watcherService.start();
    licenseModePath = createTempFile();
    onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
    operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
        () -> onChangeCounter.get().countDown());
}

@After
public void shutdown() throws InterruptedException {
    terminate(threadPool);
    watcherService.stop();
}

public void testInit() throws Exception {
    onChangeCounter.set(new CountDownLatch(2));
    writeMode("gold");
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.init();
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

public void testUpdateModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    writeMode("basic");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.BASIC));
}

```

```

public void testDeleteModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountdownLatch(1));

    Files.delete(licenseModePath);
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testInvalidModeFromFile() throws Exception {
    writeMode("invalid");
    operationModeFileWatcher.init();
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(),
equalTo(License.OperationMode.PLATINUM));
    onChangeCounter.set(new CountdownLatch(1));
    Path tempFile = createTempFile();
    writeMode("gold", tempFile);
    licenseModePath = tempFile;
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertEquals(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

```

```

private void writeMode(String mode) throws IOException {
    writeMode(mode, licenseModePath);
}

static void writeMode(String mode, Path file) throws IOException {
    Files.write(file, mode.getBytes(StandardCharsets.UTF_8), StandardOpenOption.CREATE);
}
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.rest.action.RestBuilderListener;

public class LicensingClient {

    private final ElasticsearchClient client;

    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
    }

    public PutLicenseRequestBuilder preparePutLicense(License license) {
        return new PutLicenseRequestBuilder(client).setLicense(license);
    }

    public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
        client.execute(PutLicenseAction.INSTANCE, request, listener);
    }

    public GetLicenseRequestBuilder prepareGetLicense() {
        return new GetLicenseRequestBuilder(client);
    }

    public void getLicense(GetLicenseRequest request, ActionListener<GetLicenseResponse> listener) {
        client.execute(GetLicenseAction.INSTANCE, request, listener);
    }

    public DeleteLicenseRequestBuilder prepareDeleteLicense() {
        return new DeleteLicenseRequestBuilder(client);
    }

    public void deleteLicense(DeleteLicenseRequest request, ActionListener<DeleteLicenseResponse> listener) {

```

```

        client.execute(DeleteLicenseAction.INSTANCE, request, listener);
    }

    public PostStartTrialRequestBuilder preparePostStartTrial() {
        return new PostStartTrialRequestBuilder(client, PostStartTrialAction.INSTANCE);
    }

    public GetTrialStatusRequestBuilder prepareGetStartTrial() {
        return new GetTrialStatusRequestBuilder(client, GetTrialStatusAction.INSTANCE);
    }

    public void postStartTrial(PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
        client.execute(PostStartTrialAction.INSTANCE, request, listener);
    }

    public void postStartBasic(PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
        client.execute(PostStartBasicAction.INSTANCE, request, listener);
    }

    public PostStartBasicRequestBuilder preparePostStartBasic() {
        return new PostStartBasicRequestBuilder(client, PostStartBasicAction.INSTANCE);
    }

    public GetBasicStatusRequestBuilder prepareGetStartBasic() {
        return new GetBasicStatusRequestBuilder(client, GetBasicStatusAction.INSTANCE);
    }
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;

import java.util.Locale;

import static org.elasticsearch.license.License.OperationMode;
import static org.hamcrest.Matchers.equalTo;

```

```

/**
 * Tests { @link License.OperationMode } for correctness.
 * <p>
 * If you change the behavior of these tests, then it means that licensing changes across the products!
 */
public class LicenseOperationModeTests extends ESTestCase {
    public void testResolveTrial() {
        // assert 1.x BWC
        assertResolve(OperationMode.TRIAL, "nONE", "DEv", "deveLopment");
        // assert expected (2.x+) variant
        assertResolve(OperationMode.TRIAL, "tRiAl", "trial");
    }

    public void testResolveBasic() {
        // assert expected (2.x+) variant (note: no 1.x variant of BASIC)
        assertResolve(OperationMode.BASIC, "bAsIc", "basic");
    }

    public void testResolveStandard() {
        // assert expected (2.x+) variant (note: no 1.x variant of STANDARD)
        assertResolve(OperationMode.STANDARD, "StAnDARd", "standard");
    }

    public void testResolveGold() {
        // assert expected (2.x+) variant (note: no different 1.x variant of GOLD)
        assertResolve(OperationMode.GOLD, "SiLvEr", "gOId", "silver", "gold");
    }

    public void testResolvePlatinum() {
        // assert 1.x BWC
        assertResolve(OperationMode.PLATINUM, "iNtErNaL");
        // assert expected (2.x+) variant
        assertResolve(OperationMode.PLATINUM, "PlAtINum", "platinum");
    }

    public void testResolveUnknown() {
        // 'enterprise' is a type that exists in cloud but should be rejected under normal operation
        // See https://github.com/elastic/x-plugins/issues/3371
        String[] types = { "unknown", "fake", "enterprise" };

        for (String type : types) {
            try {
                OperationMode.resolve(type);

                fail(String.format(Locale.ROOT, "[%s] should not be recognized as an operation mode", type));
            }
            catch (IllegalArgumentException e) {

```

```

        assertThat(e.getMessage(), equalTo("unknown type [" + type + "]"));
    }
}

private static void assertResolve(OperationMode expected, String... types) {
    for (String type : types) {
        assertThat(OperationMode.resolve(type), equalTo(expected));
    }
}
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;

import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetBasicStatus extends XPackRestHandler {

    RestGetBasicStatus(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(GET, URI_BASE + "/license/basic_status", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
    {
        return channel -> client.licensing().prepareGetStartBasic().execute(
            new RestBuilderListener<GetBasicStatusResponse>(channel) {
                @Override
                public RestResponse buildResponse(GetBasicStatusResponse response, XContentBuilder builder)
                throws Exception {

```

```

        builder.startObject();
        builder.field("eligible_to_start_basic", response.isEligibleToStartBasic());
        builder.endObject();
        return new BytesRestResponse(RestStatus.OK, builder);
    }
});
}

```

```

@Override
public String getName() {
    return "xpack_basic_status_action";
}
}

```

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*/

package org.elasticsearch.license;

```

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

```

```

import java.util.Arrays;

```

```

import java.util.Collection;

```

```

import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;

```

```

@ESIntegTestCase.ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes =
0, transportClientRatio = 0,

```

```

    autoMinMasterNodes = false)

```

```

public class LicenseServiceClusterNotRecoveredTests extends AbstractLicensesIntegrationTestCase {

```

```

    @Override

```

```

    protected Settings nodeSettings(int nodeOrdinal) {

```

```

        return nodeSettingsBuilder(nodeOrdinal).build();
    }
}

```

```

}

private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
    return Settings.builder()
        .put(super.nodeSettings(nodeOrdinal))
        .put("node.data", true)
        .put("resource.reload.interval.high", "500ms") // for license mode file watcher
        .put(NetworkModule.HTTP_ENABLED.getKey(), true);
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

public void testClusterNotRecovered() throws Exception {
    logger.info("--> start one master out of two [recovery state]");
    internalCluster().startNode(nodeSettingsBuilder(0).put("discovery.zen.minimum_master_nodes",
2).put("node.master", true));
    logger.info("--> start second master out of two [recovered state]");
    internalCluster().startNode(nodeSettingsBuilder(1).put("discovery.zen.minimum_master_nodes",
2).put("node.master", true));
    assertLicenseActive(true);
}
}
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

public class DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

```

```

public DeleteLicenseRequest() {
}

@Override
public ActionRequestValidationException validate() {
    return null;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
}
}

```

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1.135 jackson-dataformat-xml 2.9.10

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1.136 smack-sasl-javax 4.1.0

1.137 woodstox-core-asl 4.4.1

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1.138 javax-json-api 1.1.4

1.139 jedis 2.8.1

1.140 jsch 0.1.41

1.140.1 Available under license :

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1.141 commons-text 1.6

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1.145 shiro 1.2.2

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*/
package org.apache.shiro.authz.permission;

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * { @link #implies implies } method always returns <tt>true</tt>.
 *
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */
public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
     *
     * @param p the Permission to check for implies logic.
     * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }
}

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*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
* { @link org.apache.shiro.realm.Realm Realm } implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* { @link org.apache.shiro.authz.Permission Permission } instances.
*
* @since 0.9
*/
public interface PermissionResolverAware {

    /**
    * Sets the specified <tt>PermissionResolver</tt> on this instance.
    *
    * @param pr the <tt>PermissionResolver</tt> being set.
    */
    public void setPermissionResolver(PermissionResolver pr);
}

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*/
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertTrue;
import org.junit.Test;

/**
*/
public class AllPermissionTest {

    @Test
    public void testNullArgument() {
        assertTrue(new AllPermission().implies(null));
    }

    @Test
    public void testNonNullArgument() {
        assertTrue(new AllPermission().implies(new AllPermission()));
    }
}
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
* A { @code PermisisonResolver } resolves a String value and converts it into a

```

```

* { @link org.apache.shiro.authz.Permission Permission } instance.
* <p/>
* The default { @link WildcardPermissionResolver } should be
* suitable for most purposes, which constructs { @link WildcardPermission } objects.
* However, any resolver may be configured if an application wishes to use different
* { @link org.apache.shiro.authz.Permission } implementations.
* <p/>
* A { @code PermissionResolver } is used by many Shiro components such as annotations, property file
* configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
* and that String needs to be converted to a Permission instance before executing a security check.
* <p/>
* Shiro chooses to support { @link WildcardPermission Wildcardpermission }s by default in almost all components
and
* we do that in the form of the { @link WildcardPermissionResolver WildcardPermissionResolver }. One of the
nice
* things about { @code WildcardPermission }s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
*
* @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
ModularRealmAuthorizer.setPermissionResolver
* @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
AuthorizingRealm.setPermissionResolver
* @see PermissionResolverAware PermissionResolverAware
* @since 0.9
*/
public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     *
     * @param permissionString the String representation of a permission.
     * @return A Permission object that can be used internally to determine a subject's permissions.
     * @throws InvalidPermissionStringException
     *         if the permission string is not valid for this resolver.
     */
    Permission resolvePermission(String permissionString);

}
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*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured
<tt>RolePermissionResolver</tt> that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer} and
* { @link org.apache.shiro.realm.Realm Realm} implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* { @link org.apache.shiro.authz.Permission Permission} instances.
*
* @since 1.0
*/
public interface RolePermissionResolverAware {

    /**
    * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
    *
    * @param rpr the <tt>RolePermissionResolver</tt> being set.
    */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * { @link org.apache.shiro.authz.Permission } instances.
 * <p/>
 * In some cases a { @link org.apache.shiro.realm.Realm } may only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 *
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}

```

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*/
/**
* Support and default implementations for Shiro's { @link org.apache.shiro.authz.Permission Permission }
* interface.
* <p/>
* Also note the { @link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver } interface, as
* it plays an important part in many of Shiro's { @link org.apache.shiro.realm.Realm Realm } implementations
* and AOP support.
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
* Thrown by { @link PermissionResolver#resolvePermission(String) } when the String being parsed is not
* valid for that resolver.
*
* @since 0.9
*/
public class InvalidPermissionStringException extends ShiroException

```

```

{

private String permissionString;

/**
 * Constructs a new exception with the given message and permission string.
 *
 * @param message      the exception message.
 * @param permissionString the invalid permission string.
 */
public InvalidPermissionStringException(String message, String permissionString) {
    super(message);
    this.permissionString = permissionString;
}

/**
 * Returns the permission string that was invalid and caused this exception to
 * be thrown.
 *
 * @return the permission string.
 */
public String getPermissionString() {
    return this.permissionString;
}

}

```

Apache Shiro

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The implementation for `org.apache.shiro.util.SoftHashMap` is based
on initial ideas from Dr. Heinz Kabutz's publicly posted version
available at <http://www.javaspecialists.eu/archive/Issue015.html>,
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*/

package org.apache.shiro.authz;

/**

* A Permission represents the ability to perform an action or access a resource. A Permission is the most
* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
* models are built.

* <p/>

* It is important to understand a Permission instance only represents functionality or access - it does not grant it.
* Granting access to an application functionality or a particular resource is done by the application's security
* configuration, typically by assigning Permissions to users, roles and/or groups.

* <p/>

* Most typical systems are what the Shiro team calls role-based in nature, where a role represents
* common behavior for certain user types. For example, a system might have an Administrator role, a
* User or Guest roles, etc.

* <p/>

* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
* role names in your code. In this environment, roles themselves aren't very useful. What matters is what
* permissions are assigned to these roles.

* <p/>

* Under this paradigm, permissions are immutable and reflect an application's raw functionality
* (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
* to be dynamic: because Permissions represent raw functionality and only change when the application's
* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.

* <p/>

* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
* association, the user 'has' the permissions in their roles. There are numerous variations on this theme
* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
* have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,
* and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security
* model.

* <p/>

* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or
* dynamic role w/ permission schemes, it does not require a system to model their security data this way - all

* Permission checks are relegated to { @link org.apache.shiro.realm.Realm } implementations, and only those
 * implementations really determine how a user 'has' a permission or not. The Realm could use the semantics
 described
 * here, or it could utilize some other mechanism entirely - it is always up to the application developer.
 * <p/>
 * Shiro provides a very powerful default implementation of this interface in the form of the
 * { @link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission }. We highly recommend that
 you
 * investigate this class before trying to implement your own <code>Permission</code>s.
 *
 * @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission
 * @since 0.2
 */

```
public interface Permission {
```

```
/**
```

```
 * Returns { @code true } if this current instance <em>implies</em> all the functionality and/or resource access  

  * described by the specified { @code Permission } argument, { @code false } otherwise.
```

```
 * <p/>
```

```
 * <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality  

  * and/or resource access described by the given { @code Permission } argument. Yet another way of saying this  

  * would be:
```

```
 * <p/>
```

```
 * <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,  

  * then any Subject granted { @code permission1 } would have ability greater than or equal to that defined by  

  * { @code permission2 }.
```

```
 *
```

```
 * @param p the permission to check for behavior/functionality comparison.
```

```
 * @return { @code true } if this current instance <em>implies</em> all the functionality and/or resource access  

  * described by the specified { @code Permission } argument, { @code false } otherwise.
```

```
 */
```

```
 boolean implies(Permission p);
```

```
}
```

```
/**
```

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;

import java.io.Serializable;
import java.util.ArrayList;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;

/**
 * A WildcardPermission is a very flexible permission construct supporting multiple levels of
 * permission matching. However, most people will probably follow some standard conventions as explained below.
 * <p/>
 * <h3>Simple Usage</h3>
 * <p/>
 * In the simplest form, WildcardPermission can be used as a simple permission string. You could
 * grant a
 * user an "editNewsletter" permission and then check to see if the user has the editNewsletter
 * permission by calling
 * <p/>
 * <code>subject.isPermitted("editNewsletter")</code>
 * <p/>
 * This is (mostly) equivalent to
 * <p/>
 * <code>subject.isPermitted( new WildcardPermission("editNewsletter") )</code>
 * <p/>
 * but more on that later.
 * <p/>
 * The simple permission string may work for simple applications, but it requires you to have permissions like
 * <code>"viewNewsletter"</code>, <code>"deleteNewsletter"</code>,
 * <code>"createNewsletter"</code>, etc. You can also grant a user <code>"*"</code> permissions
 * using the wildcard character (giving this class its name), which means they have all permissions. But
 * using this approach there's no way to just say a user has "all newsletter permissions".
 * <p/>
 * For this reason, WildcardPermission supports multiple levels of permissioning.
 * <p/>
 * <h3>Multiple Levels</h3>
 * <p/>
 * WildcardPermission also supports the concept of multiple levels. For example, you could
 * restructure the previous simple example by granting a user the permission <code>"newsletter:edit"</code>.
 * The colon in this example is a special character used by the WildcardPermission that delimits the
 * next token in the permission.
 * <p/>

```

* In this example, the first token is the `domain` that is being operated on

* and the second token is the `action` being performed. Each level can contain multiple values. So you

* could simply grant a user the permission `<code>"newsletter:view,edit,create"</code>` which gives them

* access to perform `<code>view</code>`, `<code>edit</code>`, and `<code>create</code>` actions in the `<code>newsletter</code>`

* `domain`. Then you could check to see if the user has the `<code>"newsletter:create"</code>`

* permission by calling

```
* <p/>
* <code>subject.isPermitted("newsletter:create")</code>
* <p/>
```

* (which would return true).

```
* <p/>
```

* In addition to granting multiple permissions via a single string, you can grant all permission for a particular

* level. So if you wanted to grant a user all actions in the `<code>newsletter</code>` domain, you could simply give

* them `<code>"newsletter:*"</code>`. Now, any permission check for `<code>"newsletter:XXX"</code>`

* will return `<code>>true</code>`. It is also possible to use the wildcard token at the domain level (or both): so you

* could grant a user the `<code>"view"</code>` action across all domains `<code>"*:view"</code>`.

```
* <p/>
* <h3>Instance-level Access Control</h3>
* <p/>
```

* Another common usage of the `<code>WildcardPermission</code>` is to model instance-level Access Control Lists.

* In this scenario you use three tokens - the first is the `domain`, the second is the `action`, and

* the third is the `instance` you are acting on.

```
* <p/>
```

* So for example you could grant a user `<code>"newsletter:edit:12,13,18"</code>`. In this example, assume

* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters

* `<code>12</code>`, `<code>13</code>`, and `<code>18</code>`. This is an extremely powerful way to express

permissions,

* since you can now say things like `<code>"newsletter*:13"</code>` (grant a user all actions for newsletter

* `<code>13</code>`), `<code>"newsletter:view,create,edit:*"</code>` (allow the user to

* `<code>view</code>`, `<code>create</code>`, or `<code>edit</code>` `any` newsletter), or

* `<code>"newsletter:*:*"</code>` (allow the user to perform `any` action on `any` newsletter).

```
* <p/>
```

* To perform checks against these instance-level permissions, the application should include the instance ID in the

* permission check like so:

```
* <p/>
* <code>subject.isPermitted( "newsletter:edit:13" )</code>
* <p/>
```

* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that

* this could be used in your application. However, the Shiro team likes to standardize some common usages shown

* above to help people get started and provide consistency in the Shiro community.

*

* @since 0.9

*/

```
public class WildcardPermission implements Permission, Serializable {
```

```
//TODO - JavaDoc methods
```

```

/*-----
|   CONSTANTS   |
=====*/
protected static final String WILDCARD_TOKEN = "*";
protected static final String PART_DIVIDER_TOKEN = ":";
protected static final String SUBPART_DIVIDER_TOKEN = ",";
protected static final boolean DEFAULT_CASE_SENSITIVE = false;

/*-----
|  INSTANCE VARIABLES  |
=====*/
private List<Set<String>> parts;

/*-----
|   CONSTRUCTORS   |
=====*/
/**
 * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
 * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
 * <p/>
 * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
 * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
 * {@code UserPermission}, {@code SystemPermission}, {@code PrinterPermission}, etc. If you want such
type-safe
 * permission usage, consider subclassing the {@link DomainPermission DomainPermission} class for your
needs.
 */
protected WildcardPermission() {
}

public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}

public WildcardPermission(String wildcardString, boolean caseSensitive) {
    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    if (wildcardString == null || wildcardString.trim().length() == 0) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
    }
}

```

```

wildcardString = wildcardString.trim();

List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

this.parts = new ArrayList<Set<String>>();
for (String part : parts) {
    Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
    if (!caseSensitive) {
        subparts = lowercase(subparts);
    }
    if (subparts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
    }
    this.parts.add(subparts);
}

if (this.parts.isEmpty()) {
    throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission
strings are properly formatted.");
}

private Set<String> lowercase(Set<String> subparts) {
    Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());
    for (String subpart : subparts) {
        lowerCasedSubparts.add(subpart.toLowerCase());
    }
    return lowerCasedSubparts;
}

/*-----
| ACCESSORS / MODIFIERS |
=====*/
protected List<Set<String>> getParts() {
    return this.parts;
}

/*-----
|     METHODS     |
=====*/

public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }
}

```

```

WildcardPermission wp = (WildcardPermission) p;

List<Set<String>> otherParts = wp.getParts();

int i = 0;
for (Set<String> otherPart : otherParts) {
    // If this permission has less parts than the other permission, everything after the number of parts contained
    // in this permission is automatically implied, so return true
    if (getParts().size() - 1 < i) {
        return true;
    } else {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
            return false;
        }
        i++;
    }
}

// If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
for (; i < getParts().size(); i++) {
    Set<String> part = getParts().get(i);
    if (!part.contains(WILDCARD_TOKEN)) {
        return false;
    }
}

return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
        buffer.append(part);
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

```

```

    }

    public int hashCode() {
        return parts.hashCode();
    }

}

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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
 * <tt>PermissionResolver</tt> implementation that returns a new { @link WildcardPermission
 * WildcardPermission}
 * based on the input string.
 *
 * @since 0.9
 */
public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a { @link Permission Permission} instance.
     * @return a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>
     */
    public Permission resolvePermission(String permissionString) {

```

```

        return new WildcardPermission(permissionString);
    }
}
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 */
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import org.junit.Test;

/**
 * @since 0.9
 */
public class WildcardPermissionTest {

    @Test(expected = IllegalArgumentException.class)
    public void testNull() {
        new WildcardPermission(null);
    }

    @Test(expected = IllegalArgumentException.class)
    public void testEmpty() {
        new WildcardPermission("");
    }

    @Test(expected = IllegalArgumentException.class)
    public void testBlank() {
        new WildcardPermission(" ");
    }
}

```

```
@Test(expected = IllegalArgumentException.class)
public void testOnlyDelimiters() {
    new WildcardPermission("::,::,::");
}
```

```
@Test
public void testNamed() {
    WildcardPermission p1, p2;

    // Case insensitive, same
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("something");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different case
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("SOMETHING");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different word
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("else");
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));

    // Case sensitive same
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("BLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different case
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("bLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different word
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("whatwhat", false);
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));
}
```

```
@Test
```

```

public void testLists() {
    WildcardPermission p1, p2, p3;

    p1 = new WildcardPermission("one,two");
    p2 = new WildcardPermission("one");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two,three");
    p2 = new WildcardPermission("one,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two:one,two,three");
    p2 = new WildcardPermission("one:three");
    p3 = new WildcardPermission("one:two,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p3));
    assertTrue(p3.implies(p2));

    p1 = new WildcardPermission("one,two,three:one,two,three:one,two");
    p2 = new WildcardPermission("one:three:two");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one");
    p2 = new WildcardPermission("one:two,three,four");
    p3 = new WildcardPermission("one:two,three,four:five:six:seven");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p1));
    assertFalse(p3.implies(p1));
    assertTrue(p2.implies(p3));
}

@Test
public void testWildcards() {
    WildcardPermission p1, p2, p3, p4, p5, p6, p7, p8;

    p1 = new WildcardPermission("*");
    p2 = new WildcardPermission("one");
    p3 = new WildcardPermission("one:two");
    p4 = new WildcardPermission("one,two:three,four");
    p5 = new WildcardPermission("one,two:three,four,five:six:seven,eight");
    assertTrue(p1.implies(p2));

```

```
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
```

```
p1 = new WildcardPermission("newsletter:*");
p2 = new WildcardPermission("newsletter:read");
p3 = new WildcardPermission("newsletter:read,write");
p4 = new WildcardPermission("newsletter:*");
p5 = new WildcardPermission("newsletter:*:*");
p6 = new WildcardPermission("newsletter:*:read");
p7 = new WildcardPermission("newsletter:write:*");
p8 = new WildcardPermission("newsletter:read,write:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));
```

```
p1 = new WildcardPermission("newsletter:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));
```

```
p1 = new WildcardPermission("newsletter:*:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));
```

```
p1 = new WildcardPermission("newsletter:*:read");
p2 = new WildcardPermission("newsletter:123:read");
p3 = new WildcardPermission("newsletter:123,456:read,write");
p4 = new WildcardPermission("newsletter:read");
p5 = new WildcardPermission("newsletter:read,write");
p6 = new WildcardPermission("newsletter:123:read:write");
assertTrue(p1.implies(p2));
assertFalse(p1.implies(p3));
assertFalse(p1.implies(p4));
```

```
assertFalse(p1.implies(p5));
assertTrue(p1.implies(p6));

p1 = new WildcardPermission("newsletter:*:read:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p6));

}

}
```

1.146 commons-beanutils 1.9.3

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1.147 fst 2.54

1.148 commons-math 3.6.1

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1.151 jcabi-manifests 1.1

1.152 gremlin-core 2.3.0

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9: YESLegalInnerClassesALorg/apache/tinkerpop/gremlin/process/computer/GraphFilter$Legal;NOMAYBES$VAL
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1.153 jackson-datatype-hibernate 2.5.0

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1.154 jxpath 1.3

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1.155 jackson-annotations 2.7.0

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1.156 mqtt-client 1.3

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1.157 commons-jexl 1.1

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1.159 reindex-client 6.3.1

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1.160 animal-sniffer-annotation 1.14

1.161 jackson-dataformat-smile 2.8.10

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1.162 opentracing-util 0.31.0

1.163 ant 1.7.1

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- */

About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

1.170 xmlunit 1.2.0

1.171 bouncy-castle 1.52

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1.172 metrics-core 3.0.2

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1.182 google-http-client-xml 1.20.0

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1.183 opencensus-contrib-grpc-metrics 0.10.0

1.184 snmp-4j 2.1.0

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1.185 opentracing-web-servlet-filter 0.1.0

1.186 okio 1.12.0

1.187 jersey-media-multipart 2.5.1

1.188 spring-security-acl 3.2.4

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 */
package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    =====
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '!';
    String THIRTY_TWO_RESERVED_OFF = ".....";
}
```

```
//~ Methods
```

```
=====
=====

/**
 * Returns the bits that represents the permission.
 *
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern String representing this permission.
 * <p>
 * Implementations are free to format the pattern as they see fit, although under no circumstances may
 * { @link #RESERVED_OFF} or { @link #RESERVED_ON} be used within the pattern. An exemption is in the
case of
 * { @link #RESERVED_OFF} which is used to denote a bit that is off (clear).
 * Implementations may also elect to use { @link #RESERVED_ON} internally for computation purposes,
 * although this method may not return any String containing { @link #RESERVED_ON}.
 * <p>
 * The returned String must be 32 characters in length.
 * <p>
 * This method is only used for user interface and logging purposes. It is not used in any permission
 * calculations. Therefore, duplication of characters within the output is permitted.
 *
 * @return a 32-character bit pattern
 */
String getPattern();
}
```

1.189 jackson 2.9.9

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1.190 json-smart 1.0.6.3

1.191 proto-google-common-protos 1.0.0

1.192 jctools-core 1.2.1

1.193 gson 2.6.2

1.194 spring-aop 4.3.19

1.195 httpcore-nio 4.4.1

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1.203 bcel 2.7.2

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1.204 orgjson 0.0.20131108.vaadin1

1.205 javatuples 1.2

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1.208 spring-binding 2.5.1

1.209 snmp-4j 1.11

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1.214 spring-retry 1.0.3

1.215 commons-digester 1.8

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1.219 jackson-dataformat-yaml 2.1.2

1.220 java-jwt 2.2.1

1.221 apiguardian-api 1.0.0

1.222 httpasyncclient 4.1.2

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1.227 yang-parser-api 0.8.4

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1.231 spring-web 2.3.0

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1.238 cas-client-core 3.2.1

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1.239 jasypt 1.9.0

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1.240 jackson-jr-stree 2.9.9

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1.241 commons-lang 2.0

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1.242 jetty-security 9.3.27.v20190418

1.243 txw2 2.3.1

1.244 grpc-go 1.24.0

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1.247 stax 3.1.4

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1.248 smackjava 4.1.0

1.249 smack-tcp 4.1.0

1.250 metrics-jvm 3.1.0

1.251 byte-buddy 1.7.10

1.252 jaeger-core 0.23.0

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1.254 jtype 0.1.1

1.255 javax-el-api 2.2.4

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1.257 netty-tcnative 2.0.9

1.258 jetty-http-spi 9.3.27.v20190418

1.259 txw2 2.2.11

1.260 json-smart 2.3

1.261 websocket-server 9.3.27.v20190418

1.262 transport 6.3.1

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1.265 antlr-runtime 4.7.1

1.266 jersey-container-servlet-core 2.5.1

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1.267 stax-api 1.0.1

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1.276 jopt-simple 5.0.2

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1.278 swagger-springmvc 0.8.8

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1.279 javax-inject 2.2.0

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src/test/resources/CSVFileParser/test_rfc4180.txt

src/test/resources/CSVFileParser/test_rfc4180_trim.txt

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1.282 maven-artifact 3.0.3

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1.283 junixsocket-native-common 2.0.4

1.284 antlr 4.7.1

1.285 mongodb-driver 3.0.4

1.286 jackson-jaxrs-json-provider 2.9.10

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1.289 mongodb-driver 3.2.2

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1.290 mongodb-driver 3.9.0

1.291 bean-validation-api 1.0.0

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1.293 byte-buddy-dep 1.7.10

1.294 jersey-server 2.5.1

1.295 activemq-protobuf 1.1

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1.296 jackson-jr-objects 2.9.9

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1.297 spring-beans 4.3.19

1.298 apache-servicemix-specs-locator 1.2.0

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1.299 cas-server-core 3.5.2.1

1.300 jaxen 1.1.6

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1.301 metrics-servlets 3.1.0

1.302 jackson 2.9.10

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1.303 xmlschema 2.2.2

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1.309 spring-security-core 3.2.4

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1.312 spring-jdbc 4.3.19

1.313 xml-apis 1.4.01

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2000-05-05

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1.315 spring-context-support 4.3.19

1.316 commons-codec 1.6

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1.317 jackson-dataformat-yaml 2.9.8

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Sidney Markowitz <sidney@sidney.com>; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
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Mike Bean <mbean@lucentradius.com>; - fixing the fall through bug in the IV algorithm parameters class.
Martin Petraschek <e9526225@student.tuwien.ac.at>; - fixing ASN1 tagging so tag values up to 30 are now supported.
Jess Garms <jgarms@yahoo.com>; - fixing 112/168 key size bug for DESede key generation.
Mike Bremford <mike@big.faceless.org>; - contributing the initial PKCS7 implementation.
Shankar Srinivasan <ssr002@yahoo.com>; - S/Mime interoperability testing and debugging.
Stef Hoeben <ilsestef@skynet.be>; - adding Montgomery multiplication to the BigInteger class.
Klaudiusz Ciosk <kciosk@max.com.pl>; - improving the compatibility of the SMIME package with the Sun JCE.
Thomas Houtekier <Thomas.Houtekier@tctrade.net>; - S/Mime testing and debugging. Interoperability with Biztalk.
Don Hillsberry <hillsber@dialcorp.com>; - S/Mime testing and debugging.
Kazuo Furuya <kfuruya@infoteria.co.jp>; - fixing root certificate chaining bug in PKCS12 key store.
Jason Novotny <jdnovotny@lbl.gov>; - initial work on the openSSL PEM processing.
Joel Hockey <joel.hockey@qsipayments.com>; - initial work on the openSSL PEM processing.
John Steenbruggen <JohnS@geotrust.com>; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
Justin Chapweske <justin@chapweske.com>; - ordering patch for Tiger message digest.
John Serock <jserock@hotmail.com>; - fixing null pointer exception

in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Compliance of KeyUsage extension return value with security API.

Sascha Weinreuter <Sascha.Weinreuter#064;cit.de> - fixed SMIME saveChanges() bug.

Andre Wehnert <aw5#064;mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono <lo_iacono#064;nue.et-inf.uni-siegen.de> - adding SIC mode to the blockciphers in the provider.

Tim Sakach <tsakach#064;certivo.net> - SMIME v2 compatibility patches.

Marcus Povey <mpovey#064;brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.

Sebastian Clauß <sc2#064;inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza <nicolas.bielza#064;alligacom.com> - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall <rsdio#064;metastatic.org> - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes <rick.zeldes#064;eds.com> - initial code for CMS/SMIME CompressedData.

Jarek Gawor <gawor#064;mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier <random#064;rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles <graham.coles#064;retail-logic.com> - patch to isParityAdjusted in DESKeySpec.

Jörn von Kattchée <J.Kattchee#064;seeburger.de> - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso <matartuso#064;libero.it> - picking up the possible overread in ASN1InputStream.

Julian Morrison <julian#064;extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein <eso#064;esomail.de> - fix to long conversion in clean room SecureRandom.

Jörn Schwarze <JSchwarze#064;ulc.de> - Locale fix for the clean room JCE.

Bryan Lovquist <bkl#064;cps.com.au> - Other provider compatibility fixes for CMS signing.

Artem Portnoy <Artem_Portnoy#064;ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael Häusler <haeusler#064;ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.

Johan Seland <johans#064;netfonds.no> - general toString for BigInteger class.

Johannes Nicolai <johannes.nicolai#064;novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva <marc.doberva#064;ilex-si.com> - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak <jan.dvorak#064;mathan.cz> - initial implementation of the light weight Null block cipher.

Joe Cohen <jcohen#064;forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long<aalong#064;ece.cmu.edu> - adding public key decoding to PEMReader.

Hes Siemelink<hes#064;izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu<stefanpuiuro#064;yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang <kaiseryang@yahoo.com> - Finding BigInteger loop problem in prime generation.
Jiri Urbanec <jiri.urbanec@logicacmg.com> - patch to fix defect in DERBMPString.equals().
Justin Kolb <jkolb@pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.
Ralf Hauser <ralfhauser@gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.
Michal Dvorak <M_Dvorak@kb.cz> - getNextUpdate patch for OCSP SingleResp.
Klaus Greve Fiorentini <Klaus@cpqd.com.br> - array fix in PGP PublicKeyEncSessionPacket.
Olivier Refalo <Olivier_Refalo@fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.
Mariusz Bandola <mariusz.bandola@cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.
Brien Oberstein <brien.oberstein@transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.
Ian Haywood <ian@haywood.bpa.nu> - addition of getSignatureType to PGPSignature.
Jonathan Edwards <s34gull@mac.com> - initial support for reading multiple rings from a PGP key file.
Andrew Thornton <andrew@caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.
Gregor Leander <gl@bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.
Antoon Bosselaers <Antoon.Bosselaers@esat.kuleuven.ac.be> - help with RipeMD320 implementation.
Peter Sylvester <Peter.Sylvester@edelweb.fr> - improvements to the ASN.1 BasicConstraints object.
Doug <ummmmm@myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.
Francois Staes <fstaes@netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.
W.R. Dittmer <wdittmer@cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPKeyPair to fix nullpointer exception.
Perez Paz Luis Alberto <laperez@banxico.org.mx> - patch to use of BitString in X.500 name.
James Wright <James_Wright@harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.
Jim Ford <jim@muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.
Michael Hausler <haeusler@ponton-consulting.de> - extra aliases for provider.
Sai Pullabhotla <psai@linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
Joseph Miller <joseph@digiweb.net.nz> - addition of ZeroBytePadding.
Lars <xyz@sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.
Jeroen van Vianen <jeroen@vanvianen.nl> - the Signed and Encrypted mail example.
Jun Sun <JSun@diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
Petr Dukem <pdukem@email.cz> - patch to CMSSignedDataGenerator to allow it to work with

PKCS11 providers.
Filipe Silva <filipe.silva@wedoconsulting.com>; - patch to fix overread issue in BCPGInputStream.
Alpesh Parmar <alps@linuxmail.org>; - patch for class cast problem in PGPPublicKey.getSignatures().
Jay Gengelbach <jgengelbach@webmethods.com>; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.
Doug <doug@tigerprivacy.com>; - public key ring patches for ElGamal Signatures, problem key ring data.
Matthew Mundy <mmundy1@umbc.edu>; - infinite loop prevention patch to PKCS5S2ParametersGenerator.
Tom Cargill <cargill@profcon.com>; - spelling patch in provider.
Breitenstrom Christian <C.Breitenstrom@systems.com>; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
Zanotti Mirko <zanotti@cad.it>; - patch to ordered equality test for X509Name.
Nicola Scandoni <nscandoni@babelps.it>; - patch to add sorting to CertPath validation.
Ville Skyttä <ville.skytta@iki.fi>; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
Bruce Gordon <bruce.gordon@savvis.net>; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
Miles Whiteley <Miles.Whiteley@savvis.net>; - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner@evintia.com>; - initial TSP implementation.
Carlos Lozano <carlos@evintia.com>; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgado <javi@javi.codewarp.org>; - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala@cern.ch>; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
Rolf Schillinger<rolf@sir-wum.de>; - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin@yahoo.com>; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Franck Leroy <Franck.Leroy@keynectis.com>; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk@jcraft.com>; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshakov <tyrex@reksoft.ru>; - patch for class cast exception in AuthorityInformationAccess class.
Soren Hilmer <soren.hilmer@tietoenator.com>; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
Steve Mitchell <mitchell@intertrust.com>; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner@seeburger.de>; - initial implementation of ISO 78164-4 padding.
Julien Pasquier <julienpasquier@free.fr>; - initial implementation of attribute classes from RFC 3126.

Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso@libero.it>; - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson@burnsecs.com>; - patches to PGP tools, isRevoked method on PGPPublicKey.
Vladimir Molotov <vladimir.n.molotov@intel.com>; - extensive provider exception handling compliance testing.
Florin Kollan <adlocflo@web.de>; - fix to ElGamalKeyParameters equality testing.
Pavel Vassiliev <paulvas@gmail.com>; - Initial GOST28147Mac implementation.
Tom Pesman <tom@tlinux.net>; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com>; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch@maxence.de>; - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmllee@crossroads.com>; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung@hotmail.com>; - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz@gmail.com>; - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmllee@crossroads.com>; - implementation assistance with streaming CMS classes.
Joel Rees <rees@ddcom.co.jp>; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
Francisc Sau <francesc.sau@partners.netfocus.es>; - micro fix for tsp Accuracy class.
Larry Bugbee <bugbee@mac.com>; - initial ECNR implementation.
Remi Blancher <Remi.Blancher@keynectis.com>; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke <brianorourke@gmail.com>; - patch for signature creation time override in OpenPGP.
Andreas Schwier <andreas.schwier@cardcontact.de>; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
David Josse <david.josse@transacttools.net>; - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko <kazu-k@hi-ho.ne.jp>; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
Lawrence Tan <lwrnctan@gmail.com>; - Large field OID sample test data. Missing key types in JDKKeyFactory.
Carlos Valiente <superdupont@gmail.com>; - Addition of CRL writing to the PEMWriter class.
Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
Olaf Keller, <olaf.keller@bluewin.ch>; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance

improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

Jörg Eichhorn <eichhorn@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme <widerstand@t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.

CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz <carlos@tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.

John Alfred Prufrock <j.a.prufrock@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen <sneusatz@gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice <marzio.logiudice@gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.

Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.

Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

Lijun Liao <https://github.com/xipki> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.

Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.

Armin Häberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder@google.com> - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch <xavier@brittanysoftware.com> - general code clean ups.

Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding

Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis <info@frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.

David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

- Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader
- Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
- Olga Küthler <olga.kaethler@hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- Núria Marí <numaa@hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@tzi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
- Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com> - patch to construtor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].
- Alex Dupre <ale@FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
- Michael Schoene <michael@sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in

TimeStampResponse.validate().
Ion Larra <ilarra@s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer@ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui@po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdascirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.
Lothar Kimmeringer <job@kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani@sogei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau@t-online.de> correction of field error in getResponse method in CertRepMessage.
Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.
Markus Kilås <markus@primekey.se> several enhancements to TimeStampResponseGenerator.
Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

- Andrea Zilio <andrea.zilio@#064gmail.com> fix for PEM password encryption of private keys.
- Alex Birkett <alex@#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@#064gmail.com> additional OIDs for PKCS10 and certificate generation support.
- Frank Cornelis <info@#064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.
- Jan Dittberner <jan@#064dittberner.info> addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@#064btinternet.com> patch to support different object and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@#064seeburger.de> fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@#064gmail.com> patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@#064insiel.it> contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikocinski <J.Sikocinski@#064gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@#064gmail.com> JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@#064hjp-consulting.com> fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@#064google.com> additional functionality to PGPKeyRing.
- Atanas Krachev <akrachev@#064gmail.com> added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@#064keynectis.com> initial cut of EAC classes.
- Tim Buktu <tbuktu@#064hotmail.com> Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@#064BEKK.no> Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@#064tngtech.com> Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@#064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
- Andy Neilson <Andy.Neilson@#064quest.com>a further patches to deal with multiple providers and PEMReader.
- Ted Shaw <xiao.xj@#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
- Eleriseth <Eleriseth@#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatilby generalisations for EC operations.
- Kenny Root <kenny@#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes <maarten.bodewes@#064gmail.com>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay <pilf_b@#064yahoo.com>; Initial implementation of J-PAKE.

Brian Carlstrom <bdc@#064carlstrom.com>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidén Borell <samuel@#064primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder

Sergio Demian Lerner <sergiolerner@#064certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington <Tim.Whittington@#064orionhealth.com>; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad <marcus.lundblad@#064primekey.se>; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin <zhozhin@#064xrm.ru>; patch for override of TSP SignerInfo attributes.

Sergey Tiunov <t5555d@#064gmail.com>; initial cut of DVCS classes.

Damian Kolasa <fatfredyy@#064gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes <ashley.hughes@#064blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher <dev@#064daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome@#064gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aarnio@#064methics.fi>; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi <bnajafi@#064akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Mueller <eric.mueller@#064sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herbets <Mathias.Herbets@#064gmail.com>; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov <daniil.ivanov@#064gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso <daniele.grasso86@#064gmail.com>; contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc@#064gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu <arnis@#064ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

- AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.
- Roberto Tyley <> further work on completing gradle build.
- Waldemar Dick <wdick@devmue.de> code improvement in x500 ASN.1 package.
- Sid Steward <sid.steward@pdflabs.com> code improvements to ASN1Boolean.
- Alex Klyubin <klyubin@google.com> AlgorithmParameters check for EC key agreement.
- Jonathan Gillett <gsoc.student@gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter <andreas.reiter@iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller <kieran.miller@gmail.com> initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli<ehli@arago.de> Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt<Daniel.Heldt@cryptovision.com> Initial support for encodable state message digests
- Robert Bushman <bouncycastle@traxel.com> Clean up of DirectKeySignature example.
- Maurice Aarts<aarts@risecure.com> updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
- KB Sriram<mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze<marco@nightlabs.de> Reported verification bug in GenericSigner.
- Martin Schaef<https://github.com/martinschaef> contributed a code-cleanup patch.
- dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
- Tobias Wich<tobias.wich@ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrtens<hauke@hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman<dmz@galois.com> Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitz<j.kapitza@schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund<johan@primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch <axel-vdb@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
- Derek Atkins <derek@ihftf.com> Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky <peto@halicky.sk> Correction to notification/error message handling in SignedMailValidator.
- IartiguePierre<https://github.com/IartiguePierre> Fix for counter signature SID in CMSSignedData.
- Thomas Belot<thomas.belot+BC@gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants

for GNU protection modes in S2K classes, optional version header for armored output.
Michael <MSKnete@web.de>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
Tobias Wagner <tobias.wagner@n-design.de>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro <sgiro@google.com>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
bschuette <https://github.com/bschuette>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
Leonard Dallot <https://github.com/dallotTazTag>; Fix to S2K usage of none on changing passwords on keys without passwords originally.
Jan Willem Janssen <j.w.janssen@bouncycastle.org>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
Sebastian Oerding <sebastian.oerding@robotron.de>; Fixes to toString() in x509.CertificatePolicies.
Kai Kramer <kai.kramer@gmail.com>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
Benoit Charles <benoit.charles@opentrust.com>; Fix for IES data length check on decryption.
Niko <nfink95@gmail.com>; fix to cast issue in getOutputSize() for ECIES.
akwizgran <https://github.com/akwizgran>; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.
Matthias Edelhoff <Matthias.Edelhoff@cryptovision.com>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat <lukasz.deputat@gmail.com>; Fixed bugs in TlsUtils read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig>; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
Andr e Berenguel <https://github.com/aberenguel>; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
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William Glanton <wglanton77@gmail.com>; Fixed bug in Poly1305 [#BJA-620].
jdvorak001 <https://github.com/jdvorak001>; Speed improvements for ASN.1 ObjectIdentifier cache.
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Andrew Bonventre <https://github.com/andybons>; NullPointer patch for WNafUtil.
The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof>; defect analysis and additional test cases for the provider.
Gorka Irazoqui <girazoki@wpi.edu>; from Intel Security Center of Excellence <https://security-center.intel.com/>; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
Joerg Senekowitsch <joerg.senekowitsch@veridos.com>; patch to deal with hard coded boolean in EAC ECDSAPublicKey.
Alexandr Krivoshta <wipe@ya.ru>; N4 calculation fix to GOFB mode.
Artem Storozhuk <storajs72@gmail.com>; N4 calculation fix to GOFB mode.
Na Yu <na.yu@samsung.com>; Constructor patches to CMC PKIData.
Evangelos Karatsiolis <ekaratsiolis@mtg.de>; Corrected use of explicit tagging in X.509

PolicyConstraints class.
VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.
mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.
Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
Sebastian Wolfgang Roland <sebastianwolfgang.roland#064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.
didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.
Mike Safonov<https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
Artem Storozhuk <storajs72#064gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
Andreas Glaser <andreas.glaser#064gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.
codeborne <https://github.com/cbyp> patch to correct OIDs used in public key digest parameters for ECGOST-2012.
FauxFaux <https://github.com/FauxFaux> patch for JDK 1.9 update to DRBG.java.
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ekszz <https://github.com/ekszz> corrections to SM2 signer to include default identity value.
jminer <https://github.com/jminer> fix to Blake2b for hashes in range of 2**64-127 to 2**64.
str4d <https://github.com/str4d> initial implementation of Blake2s
Scott Woodward <scott#064bit3consulting.com> performance fixes for CTRSP800DRBG.
David Strawn <https://github.com/isomarcte> fix for off by one error in SCRYPT bounds checking.
chris mccown <0xchrismccown#064gmail.com> identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
ZZMarquis <https://github.com/ZZMarquis> offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
Andreas Kretschmer <https://github.com/Akretsch> NPE fix for CertTemplate.getVersion()
Armin Lunkeit, Michael Tautenhahn <> identification of M-R test issue on higher certainty values in RSA key pair generation.
Vincent Breitmoser <https://github.com/Valodim> fix to ignore unnecessary checksum calculator on PGP secret key encryption.
Adam Vartanian <https://github.com/flooey> use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
Bernd <https://github.com/ecki> Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.
Shartung <https://github.com/shartung> Additional EC Key Agreement algorithms in support of German BSI TR-03111.
Paul Schaub <https://github.com/vanitasvitae> bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
Nick of Nexxar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.
catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

- gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.
- fgrieu <fgrieu@gmail.com> identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
- MTG <https://github.com/mtgag> patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier <up.gadermaier@gmail.com> initial version of Argon2 PBKDF algorithm.
- Tony Washer <tony.washer@yahoo.co.uk> review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
- Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.
- Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
- Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.
- Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.
- sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
- Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
- Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
- Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palmér, TrueSec <Henrik.Palmer@truesec.se> Additional improvements to constant time comparisons.
- René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.
- Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.
- gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.
- im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche<https://github.com/dbusche> Argon2 optimisations.
- Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.
- Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.
- vkreml <https://github.com/svkreml> GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt >tobias@pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

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1.330 woodstox-core 5.3.0

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1.331 commons-jexl3 3.0

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```

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```
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```

```
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*/

```
package javax.activation;
```

```
import java.util.Map;  
import java.util.WeakHashMap;
```

```
/**
```

```
* The CommandMap class provides an interface to a registry of  
* command objects available in the system.  
* Developers are expected to either use the CommandMap  
* implementation included with this package (MailcapCommandMap) or  
* develop their own. Note that some of the methods in this class are  
* abstract.
```

```

*/
public abstract class CommandMap {
    private static CommandMap defaultCommandMap = null;
    private static Map<ClassLoader,CommandMap> map =
        new WeakHashMap<ClassLoader,CommandMap>();

    /**
     * Get the default CommandMap.
     *
     * <ul>
     * <li> In cases where a CommandMap instance has been previously set
     *     to some value (via <i>setDefaultCommandMap</i>)
     *     return the CommandMap.
     * <li>
     *     In cases where no CommandMap has been set, the CommandMap
     *     creates an instance of <code>MailcapCommandMap</code> and
     *     set that to the default, returning its value.
     *
     * </ul>
     *
     * @return the CommandMap
     */
    public static synchronized CommandMap getDefaultCommandMap() {
        if (defaultCommandMap != null)
            return defaultCommandMap;

        // fetch per-thread-context-class-loader default
        ClassLoader tccl = SecuritySupport.getContextClassLoader();
        CommandMap def = map.get(tccl);
        if (def == null) {
            def = new MailcapCommandMap();
            map.put(tccl, def);
        }
        return def;
    }

    /**
     * Set the default CommandMap. Reset the CommandMap to the default by
     * calling this method with <code>null</code>.
     *
     * @param commandMap The new default CommandMap.
     * @exception SecurityException if the caller doesn't have permission
     *     to change the default
     */
    public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
        SecurityManager security = System.getSecurityManager();
        if (security != null) {

```

```

    try {
// if it's ok with the SecurityManager, it's ok with me...
security.checkSetFactory();
    } catch (SecurityException ex) {
// otherwise, we also allow it if this code and the
// factory come from the same (non-system) class loader (e.g.,
// the JAF classes were loaded with the applet classes).
ClassLoader cl = CommandMap.class.getClassLoader();
if (cl == null || cl.getParent() == null ||
    cl != commandMap.getClass().getClassLoader()) {
    throw ex;
}
}
}
// remove any per-thread-context-class-loader CommandMap
map.remove(SecuritySupport.getContextClassLoader());
defaultCommandMap = commandMap;
}

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo classes that represent the command Beans.
 */
abstract public CommandInfo[] getPreferredCommands(String mimeType);

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getPreferredCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo classes that represent the command Beans.
 * @since JAF 1.1
 */
public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
return getPreferredCommands(mimeType);
}

/**

```

```

* Get all the available commands for this type. This method
* should return all the possible commands for this MIME type.
*
* @param mimeType the MIME type
* @return the CommandInfo objects representing all the commands.
*/
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
* Get all the available commands for this type. This method
* should return all the possible commands for this MIME type. <p>
*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the list of commands that are returned. The implementation
* in this class simply calls the <code>getAllCommands</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param ds a DataSource for the data
* @return the CommandInfo objects representing all the commands.
* @since JAF 1.1
*/
public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
return getAllCommands(mimeType);
}

/**
* Get the default command corresponding to the MIME type.
*
* @param mimeType the MIME type
* @param cmdName the command name
* @return the CommandInfo corresponding to the command.
*/
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
* Get the default command corresponding to the MIME type. <p>
*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the command that is chosen. The implementation
* in this class simply calls the <code>getCommand</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param cmdName the command name
* @param ds a DataSource for the data

```

```

* @return the CommandInfo corresponding to the command.
* @since JAF 1.1
*/
public CommandInfo getCommand(String mimeType, String cmdName,
    DataSource ds) {
return getCommand(mimeType, cmdName);
}

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap.
*
* @param mimeType the MIME type
* @return the DataContentHandler for the MIME type
*/
abstract public DataContentHandler createDataContentHandler(String
    mimeType);

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap. <p>
*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the choice of DataContentHandler. The implementation
* in this class simply calls the <code>createDataContentHandler</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param ds a DataSource for the data
* @return the DataContentHandler for the MIME type
* @since JAF 1.1
*/
public DataContentHandler createDataContentHandler(String mimeType,
    DataSource ds) {
return createDataContentHandler(mimeType);
}

/**
* Get all the MIME types known to this command map.
* If the command map doesn't support this operation,
* null is returned.
*
* @return array of MIME types as strings, or null if not supported
* @since JAF 1.1
*/

```

```
public String[] getMimeTypes() {  
return null;  
}  
}
```

1.347 stax-api 1.0-2

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1.349 ST4 4.0.8

1.350 spring-data-redis 1.1.0

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1.352 apache-httpclient 4.3.1

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1.353 scala 2.10.4

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1.360 jetty-xml 9.3.27.v20190418

1.361 slf4j-log4j 2.8.2

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1.363 opentracing-noop 0.31.0

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1.366 jackson-module-jaxb-annotations 2.9.10

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1.371 asm 3.3.1

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1.374 wasync 2.1.2

1.375 concepts 0.8.4

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1.376 swagger-annotations 1.5.0

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 */
```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```
/**
```

```
* License metadata available within the info section of a Swagger definition, see
* https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject
*
* @since 1.5.0
*/
```

```
@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}
```

1.377 commons-codec 1.10

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contains test data from <http://aspell.net/test/orig/batch0.tab>.
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=====

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1.378 jackson-dataformat-yaml 2.8.10

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1.379 bcpkix-jdk15on 1.55

1.380 commons-csv 1.4

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1.386 java-concurrent-hash-trie-map 0.2.23

1.387 commons-jexl3 3.1

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1.388 commons-lang 2.6

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1.418 object-cache-api 0.8.4

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1.419 woodstox-core-asl 4.1.4

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1.423 apache-httpclient 4.5.3

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1.431 commons-pool 1.6

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1.432 jackson-jaxrs-base 2.9.10

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1.435 janino 2.6.1

1.436 commons-fileupload 1.3.3

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1.448 mongodb-driver-core 3.0.4

1.449 neethi 3.0.2

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1.451 httpcomponents-mime 4.3.6

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1.465 percolator-client 6.3.1

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1.468 cas-server-support-ldap 3.5.2.1

1.469 asm 3.1

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1.471 paranamer 2.7

1.472 grpc-context 1.9.0

1.473 json-simple 1.1.1

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1.475 t-digest 3.2

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1.476 beam-sdks-java-core 2.4.0

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1.477 jackson-databind 2.9.10

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1.478 guava 11.0.2

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1.479 antlr 2.7.6

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1.480 jackson-module-jaxb-annotations 2.9.9

1.481 yang-common 0.8.4

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1.482 jackson-jaxrs-xml-provider 2.9.10

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1.483 smack-debug-slf4j 4.1.0

1.484 swagger-annotations 1.5.22

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```

*/

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import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}

```

1.485 httpcore-nio 4.4.5

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1.489 person-directory-impl 1.5.1

1.490 spring-security-cas 3.2.4

1.491 spring-web-mvc 4.3.19

1.492 yang-parser-impl 0.8.4

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1.494 jackson-jr-all 2.9.9

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1.495 commons-lang 2.4

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1.505 commons-beanutils 1.9.4

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1.514 netty-codec-http 4.1.17

1.515 swagger 1.5.0

1.516 castor 1.3.1

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1.517 cas-server-support-generic 3.5.2.1

1.518 minimal-json 0.9.4

1.519 spring-oxm 4.3.19

1.520 nimbus-jose-jwt 4.3.1

1.521 castor-core 1.3.1

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1.529 asm 2.2.0

1.530 dozer-spring 5.5.1

1.531 netty-resolver 4.1.17

1.532 compiler 0.9.3

1.533 spring-rabbit 1.2.0

1.534 cxf-api 2.7.3

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 */
```

```
package org.apache.cxf.io;
```

```
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}
```

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1.535 log4j-api 2.8.2

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1.537 jcommander 1.48

1.538 apache-commons-logging 1.2

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1.539 inspektr 1.0.7

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1.542 jackson 2.10.0.pr3

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1.543 error-prone-annotations 2.1.3

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1.544 gson 2.7

1.545 objenesis 2.2

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1.548 oro 2.0.8

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1.550 httpcomponents-core 4.4.9

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1.551 error-prone-annotations 2.1.2

1.552 httpcomponents-httpcore 4.2.4

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1.553 mime-pull 1.9.6

1.554 jaeger-thrift 0.23.0

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1.555 beanutils 1.9.3

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1.556 bcpkix-jdk15on 1.64

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1.560 beam-sdks-java-io-kafka 2.4.0

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1.561 jna 4.5.1

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*/
package com.sun.jna;

/** Tagging interface to indicate the library or callback uses an alternate
 * calling convention.
 * @author twall
 */
public interface AltCallingConvention {}

```

1.562 datatype 1.4.01

1.563 qdox 1.12

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- Olivier Refalo <Olivier_Refalo@fpl.com>; - null pointer exception fix for JDK 1.3 CMSSignedData objects.
- Mariusz Bandola <mariusz.bandola@cryptotech.com.pl>; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.
- Brien Oberstein <brien.oberstein@transacttools.net>; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.
- Ian Haywood <ian@haywood.bpa.nu>; - addition of getSignatureType to PGPSignature.
- Jonathan Edwards <s34gull@mac.com>; - initial support for reading multiple rings from a PGP key file.
- Andrew Thornton <andrew@caret.cam.ac.uk>; - patch for RSA PUBLIC KEY in PEMReader.
- Gregor Leander <gl@bos-bremen.de>; - initial parsing of multiple sequence entries in an X.509 Name.
- Antoon Bosselaers <Antoon.Bosselaers@esat.kuleuven.ac.be>; - help with RipeMD320 implementation.
- Peter Sylvester <Peter.Sylvester@edelweb.fr>; - improvements to the ASN.1 BasicConstraints object.
- Doug <ummmmm@myrealbox.com>; - addition of isEncryptionKey method to OpenPGP public keys.
- Francois Staes <fstaes@netconsult.be>; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.
- W.R. Dittmer <wdittmer@cs.vu.nl>; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPKeyPair to fix nullpointer exception.
- Perez Paz Luis Alberto <laperez@banxico.org.mx>; - patch to use of BitString in X.509 name.
- James Wright <James_Wright@harte-hanks.com>; - patches for dealing with "odd" ArmoredInputStreams.
- Jim Ford <jim@muirford.com>; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for

newly created v4 signatures.
Michael Hausler <haeusler@#064ponton-consulting.de> - extra aliases for provider.
Sai Pullabhotla <psai@#064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
Joseph Miller <joseph@#064digiweb.net.nz> - addition of ZeroBytePadding.
Lars <xyz@#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.
Jeroen van Vianen <jeroen@#064vanvianen.nl> - the Signed and Encrypted mail example.
Jun Sun <JSun@#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
Petr Dukem <pdukem@#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.
Filipe Silva <filipe.silva@#064wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.
Alpesh Parmar <alps@#064linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().
Jay Gengelbach <jengelbach@#064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.
Doug <doug@#064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.
Matthew Mundy <mmundy1@#064umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.
Tom Cargill <cargill@#064profcon.com> - spelling patch in provider.
Breitenstrom Christian <C.Breitenstrom@#064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
Zanotti Mirko <zanotti@#064cad.it> - patch to ordered equality test for X509Name.
Nicola Scandoni <nscandoni@#064babelps.it> - patch to add sorting to CertPath validation.
Ville Skytt¨ <ville.skytta@#064iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
Bruce Gordon <bruce.gordon@#064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
Miles Whiteley <Miles.Whiteley@#064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner@#064evintia.com> - initial TSP implementation.
Carlos Lozano <carlos@#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgadillo <javi@#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala@#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
Rolf Schillinger<rolf@#064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin@#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Franck Leroy <Franck.Leroy@#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk@#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshackov <tyrex@#064reksoft.ru> - patch for class cast exception in

AuthorityInformationAccess class.
Soren Hilmer <soren.hilmer@tietoenator.com>; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
Steve Mitchell <mitchell@intertrust.com>; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner@seeburger.de>; - initial implementation of ISO 78164-4 padding.
Julien Pasquier <julienpasquier@free.fr>; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso@libero.it>; - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson@burnsecs.com>; - patches to PGP tools, isRevoked method on PGPPublicKey.
Vladimir Molotkov <vladimir.n.molotkov@intel.com>; - extensive provider exception handling compliance testing.
Florin Kollan <adlocflo@web.de>; - fix to ElGamalKeyParameters equality testing.
Pavel Vassiliev <paulvas@gmail.com>; - Initial GOST28147Mac implementation.
Tom Pesman <tom@tnux.net>; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com>; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch@maxence.de>; - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee@Crossroads.com>; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung@hotmail.com>; - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz@gmail.com>; - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee@Crossroads.com>; - implementation assistance with streaming CMS classes.
Joel Rees <rees@ddcom.co.jp>; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
Francesc Sau <francesc.sau@partners.netfocus.es>; - micro fix for tsp Accuracy class.
Larry Bugbee <bugbee@mac.com>; - initial ECNR implementation.
Remi Blancher <Remi.Blancher@keynectis.com>; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke <brianorourke@gmail.com>; - patch for signature creation time override in OpenPGP.
Andreas Schwier <andreas.schwier@cardcontact.de>; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
David Josse <david.josse@transacttools.net>; - Patch for trailer function in version 2 signature

packets.

Kishimoto Kazuhiko <kazu-k@hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan <lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente <superdupont@gmail.com> - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, <olaf.keller.bc@bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

Jörg Eichhorn <eichhorn@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme <widerstand@t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.

CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz <carlos@tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.

John Alfred Prufrock <j.a.prufrock@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen <sneusatz@gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice <marzio.logiudice@gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.

Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.

Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

Lijun Liao <https://github.com/xipki> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.

Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.

Armin Häberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder@google.com> - main set of test vectors for Bleichenbacher's forgery attack.

- Xavier Le Vourch <xavier@brittanysoftware.com> - general code clean ups.
- Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
- Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- Frank Cornelis <info@frankcornelis.be>;- addition of crlAccessMethod in X509ObjectIdentifiers.
- Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
- David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader
- Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
- Olga Küthler <olga.kaethler@hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- Núria Marí <numaa@hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@tzi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
- Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com> - patch to construtor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.

- Roelof Naude <roelof.naude@epiuse.com>; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@signaturen.at>; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay <lemaymd@lemaymd.com>; - identified problem with EAX [#BJA-93].
- Alex Dupre <ale@FreeBSD.org>; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
- Michael Schoene <michael@sigrid-und-michael.de>; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
- Ion Larrañaga <ilarra@21sec.com>; fix to default partial packet generation in BCPGOutputStream.
- Bob Kerns <bob.kerns@positscience.com>; fix to hashCode for X509CertificateObject.
- Stefan Meyer <stefan.meyer@ewe.de>; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
- Robert J. Moore <Robert.J.Moore@allanbank.com>; speedups for OpenPGPCFB mode, clean room JCE patches.
- Rui Hodai <rui@po.ntts.co.jp>; speed ups for Camellia implementation, CamelliaLightEngine.
- Emir Bucalovic <emir.bucalovic@mail.com>; initial implementation of Grain-v1 and Grain-128.
- Torbjorn Svensson <tobbe79@gmail.com>; initial implementation of Grain-v1 and Grain-128.
- Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc>; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
- Henrik Andersson <k.henrik.andersson@gmail.com>; addition of UniqueIssuerID to certificate generation.
- Cagdas Cirit <cagdas@cirit@gmail.com>; subjectAlternativeName fix for x509CertStoreSelector.
- Harakiri <harakiri_23@yahoo.com>; datahandler patch for attached parts in SMIME signatures.
- Pedro Henriques <pmahenriques@gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.
- Lothar Kimminger <job@kimminger.de>; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
- Richard Farr <rfarr.se@gmail.com>; initial SRP-6a implementation.
- Thomas Castiglione <castiglione@au.ibm.com>; patch to encoding for CRMF OptionalValidity.
- Elisabetta Romani <eromani@sogei.it>; patch for recognising multiple counter signatures.
- Robin Lundgren <r737lundgren@gmail.com>; CMPCertificate constructor from X509CertificateStructure fix.
- Petr Kadlec <mormegil@centrum.cz>; fix to sign extension key and IV problem in HC-128, HC-256.
- Andreas Antener <antener_a@gmx.ch>; fix to buffer reset in AsymmetricBufferedBlockCipher.
- Harendra Rawat <hsrawat@yahoo.com>; fix for BERConstructedOctetString.
- Rolf Lindemann <lindemann@trustcenter.de>; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
- Alex Artamonov <alexart.home@gmail.com>; name look up patch for GOST-2001 parameters.
- Mike Lyons <mlyons@layer7tech.com>; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
- Chris Cole <chris_h_cole@yahoo.com>; identified a problem handling null passwords when loading a BKS keystore.
- Tomas Krivanek <tom@atack.cz>; added checking of Sender header to SignedMailValidator.

- Michael <emfau@online.de>; correction of field error in getResponse method in CertRepMessage.
- Trevor Perrin <trevor@cryptography.com>; addition of constant time equals to avoid possible timing attacks.
- Markus Kilås <markus@primekey.se>; several enhancements to TimeStampResponseGenerator.
- Dario Novakovic <darionis@yahoo.com>; fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith <msmith@cbnco.com>; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio <andrea.zilio@gmail.com>; fix for PEM password encryption of private keys.
- Alex Birkett <alex@birkett.co.uk>; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@gmail.com>; additional OIDs for PKCS10 and certificate generation support.
- Frank Cornelis <info@frankcornelis.be>; additional support classes for CAdES, enhancements to OCSP classes.
- Jan Dittberner <jan@dittberner.info>; addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@btinternet.com>; patch to support different object and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@seeburger.de>; fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@gmail.com>; patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@hotmail.com>; removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@insiel.it>; contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@unimaticaspa.it>; initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@ut.ee>; patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikociski <J.Sikocinski@gdzie.pl>; addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@gmail.com>; JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@hjp-consulting.com>; fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@google.com>; additional functionality to PGPKKeyRing.
- Atanas Krachev <akrachev@gmail.com>; added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@keynectis.com>; initial cut of EAC classes.
- Tim Buktu <tbuktu@hotmail.com>; Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@BEKK.no>; Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@tngtech.com>; Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@gmail.com>; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@bers-soft.com>; Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@gmail.com>; Initial implementation of ephemeral key support for

IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson & Andy.Neilson@quest.com; a further patches to deal with multiple providers and PEMReader.

Ted Shaw & xiao.xj@gmail.com; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth & Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root & kenny@the-b.org; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes & maarten.bodewes@gmail.com; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay & pilf_b@yahoo.com; Initial implementation of J-PAKE.

Brian Carlstrom & bdc@carlstrom.com; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidén Borell & samuel@primekey.se; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder

Sergio Demian Lerner & sergiolerner@certimix.com; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington & Tim.Whittington@orionhealth.com; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad & marcus.lundblad@primekey.se; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimestampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin & zhozhin@xrm.ru; patch for override of TSP SignerInfo attributes.

Sergey Tiunov & t5555d@gmail.com; initial cut of DVCS classes.

Damian Kolasa & fatfredy@gmail.com; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes & ashley.hughes@blueyonder.co.uk; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher & dev@daniel-hirscher.de; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci & daniele.athome@gmail.com; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio & matti.aarnio@methics.fi; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi & bnajafi@akamai.com; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Mueller & eric.mueller@sage.de; additional standard algorithm name lookups in

JcaPEMKeyConverter.
Mathias Herberts <Mathias.Herberts@#064gmail.com> fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov@#064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86@#064gmail.com> contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc@#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis@#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb@#064riseup.net> initial implementation of Shacal2.
Roberto Tyley <> further work on completing gradle build.
Waldemar Dick <wdick@#064devmue.de> code improvement in x500 ASN.1 package.
Sid Steward <sid.steward@#064pdflabs.com> code improvements to ASN1Boolean.
Alex Klyubin <klyubin@#064google.com> AlgorithmParameters check for EC key agreement.
Jonathan Gillett <gsoc.student@#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter <andreas.reiter@#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller <kieran.miller@#064gmail.com> initial implementation for RFC 5649 key wrap with padding.
Oliver Ehli<ehli@#064arago.de> Additional support for BSI plain ECDSA in the provider.
Daniel Heldt<Daniel.Heldt@#064cryptovision.com> Initial support for encodable state message digests
Robert Bushman <bouncycastle@#064traxel.com> Clean up of DirectKeySignature example.
Maurice Aarts<aarts@#064riscure.com> updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
KB Sriram<mail_kb@#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
Marco Schulze<marco@#064nightlabs.de> Reported verification bug in GenericSigner.
Martin Schaefer<https://github.com/martinschaefer> contributed a code-cleanup patch.
dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich<tobias.wich@#064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens<hauke@#064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman<dmz@#064galois.com> Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitz<j.kapitza@#064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund<johan@#064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch <axel-vdb@#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
Derek Atkins <derek@#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky <peto@#064halicky.sk> Correction to notification/error message handling in

SignedMailValidator.
IartiguePierre<https://github.com/IartiguePierre>> Fix for counter signature SID in CMSSignedData.
Thomas Belot<https://github.com/thomas.belot>> initial CertPathLoopTest for demonstrating stack overflow issue.
Rich DiCrocce<https://github.com/rdicrocce>> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
Björn Kautler<https://github.com/Vampire>> Refinements to cert path validation (authority key addition, certificate order preservation).
Dominik Schürmann<https://github.com/dschuermann>> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
Michael <https://github.com/MSKnet>> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
Tobias Wagner <https://github.com/tobias.wagner>> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro <https://github.com/sgiro>> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
bschuette<https://github.com/bschuette>> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
Leonard Dallot<https://github.com/dallotTazTag>> Fix to S2K usage of none on changing passwords on keys without passwords originally.
Jan Willem Janssen <https://github.com/j.w.janssen>> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
Sebastian Oerding <https://github.com/sebastian.oerding>> Fixes to toString() in x509.CertificatePolicies.
Kai Kramer <https://github.com/kai.kramer>> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
Benoit Charles <https://github.com/benoit.charles>> Fix for IES data length check on decryption.
Niko <https://github.com/nfink95>> fix to cast issue in getOutputSize() for ECIES.
akwizgran<https://github.com/akwizgran>> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.
Matthias Edelhoff <https://github.com/Matthias.Edelhoff>> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat <https://github.com/lukasz.deputat>> Fixed bugs in TlsUtils read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig>> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
André Berenguel <https://github.com/berenguel>> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
Slawomir Jaranowski<https://github.com/slawekjaranowski>> Patch to make cipher/hash/signature name methods in PGP internal API public.
Andrey Vasilyev<https://github.com/andrey-vasilyev>> Initial implementation of GOST R 34.11-2012.
William Glanton <https://github.com/wglanton77>> Fixed bug in Poly1305 [#BJA-620].
jdvorak001<https://github.com/jdvorak001>> Speed improvements for ASN.1 ObjectIdentifier cache.
Joseph Naegele <https://github.com/jnaegele>> Patch for handling multiple certificates in a DANE SMIMEA entry.
Andrew Bonventre<https://github.com/andybons>> NullPointer patch for WNafUtil.
The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof>> defect analysis

and additional test cases for the provider.
Gorka Irazoqui <g;girazoki@wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
Joerg Senekowitsch <joerg.senekowitsch@veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
Alexandr Krivoshta <wipe@ya.ru> N4 calculation fix to GOFB mode.
Artem Storozhuk <storojs72@gmail.com> N4 calculation fix to GOFB mode.
Na Yu <na.yu@samsung.com> Constructor patches to CMC PKIData.
Evangelos Karatsiolis <ekaratsiolis@mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.
VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.
mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.
Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
Sebastian Wolfgang Roland <sebastianwolfgang.roland@stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.
didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.
Mike Safonov<https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
Artem Storozhuk <storojs72@gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
Andreas Glaser <andreas.glaser@gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.
codeborne <https://github.com/cbpx> patch to correct OIDs used in public key digest parameters for ECGOST-2012.
FauxFaux <https://github.com/FauxFaux> patch for JDK 1.9 update to DRBG.java.
4garbage <https://github.com/4garbage> patch to allow GOST3410-94 private keys encoded as integers.
ekszz <https://github.com/ekszz> corrections to SM2 signer to include default identity value.
jminer <https://github.com/jminer> fix to Blake2b for hashes in range of 2**64-127 to 2**64.
str4d <https://github.com/str4d> initial implementation of Blake2s
Scott Woodward <scott@bit3consulting.com> performance fixes for CTRSP800DRBG.
David Strawn <https://github.com/isomarcete> fix for off by one error in SCRYPT bounds checking.
chris mccown <0xchrismccown@gmail.com> identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
ZZMarquis <https://github.com/ZZMarquis> offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
Andreas Kretschmer <https://github.com/Akretsch> NPE fix for CertTemplate.getVersion()
Armin Lunkeit, Michael Tautenhahn <g; identification of M-R test issue on higher certainty values in RSA key pair generation.
Vincent Breitmoser <https://github.com/Valodim> fix to ignore unnecessary checksum calculator on PGP secret key encryption.
Adam Vartanian <https://github.com/flooe> use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
Bernd <https://github.com/ecki> Fix to make PGPUtil.pipeFileContents use buffer and not leak file

handle.

Shartung <https://github.com/shartung> Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub <https://github.com/vanitasvitae> bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.

catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.

fgrieu <fgrieu@gmail.com> identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.

MTG <https://github.com/mtgag> patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier <up.gadermaier@gmail.com> initial version of Argon2 PBKDF algorithm.

Tony Washer <tony.washer@yahoo.co.uk> review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.

Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.

Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.

Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.

sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.

Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.

Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.

Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palmér, TrueSec <Henrik.Palmer@truesec.se> Additional improvements to constant time comparisons.

René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.

Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.

gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.

im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.

Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche<https://github.com/dbusche> Argon2 optimisations.

Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.

- Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.
- vkreml <https://github.com/svkreml> GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt >tobias@pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

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1.578 websocket-common 9.3.27.v20190418

1.579 jackson-databind 1.9.13

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1.580 spring-webmvc-portlet 4.3.19

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1.583 grpc-protobuf 1.9.0

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Date	Who	What
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9Oct1999	dl	faster equals
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History:

Date	Who	What
28oct1999	dl	Created
14dec1999	dl	jmm snapshot
19apr2000	dl	use barrierLock
12jan2001	dl	public release
17nov2001	dl	Minor tunings
20may2002	dl	BarrierLock can now be serialized.
09dec2002	dl	Fix interference checks.

*/

/*

File: ConcurrentHashMap

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History:

Date	Who	What
26nov2000	dl	Created, based on ConcurrentReaderHashMap
12jan2001	dl	public release
17nov2001	dl	Minor tunings
24oct2003	dl	Segment implements Serializable

*/

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1.591 javax-json-api 1.0

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1.593 jline 2.9

1.594 jolokia-core 1.5.0

1.595 jackson-module-jschema 2.1.0

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1.602 bson4jackson 2.7.0

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1.605 jackson-databind 2.7.9.6

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1.606 jettison 1.3.3

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1.607 commons-lang 3.6

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