# Mobile Policy Types Commands

## api unified

Configures Engine API parameters.

**Command Modes**   Exec > Global Configuration

**Syntax Description**

```
api unified { [ engine-group engine_group ] [ externalIPs ip_address ]}
```

**engine-group** *engine_group*

Specify the default engine group to receive API traffic.

**external-port** *port_number*

Specify the API service port number.

Must be an integer.

**externalIPs** *ip_address*

Specify external IP address for the API service.

**Usage Guidelines**     Use this command to configure Engine API parameters.

# engine

Configures the engine parameters.

**Command Modes**     Exec > Global Configuration

**Syntax Description**     **engine** *engine_name* **[ boot-config** *engine_name* **| config-lock { false | true } |
 environment** *environment_variables* **| grpc** *grpc_configuration_options* **|
install-features** *application_features* **| patching** *patching_jars* **| properties**
*system_properies* **| release-train** *release_train_image* **| replicas** *replica_count* **|
repository** *helm_repository* **| subversion-config-url** *subversion_config_url* **|
subversion-run-url** *subversion_run_url* **| tracing-service-name** *tracing_server* **|
unified-api-replicas** *unified_api_count* **]**

**boot-config** *engine_name*

Specify the engine name to boot the initial engine group.

**config-lock { false | true}**

Specify to enable or disable the configuration lock.

Must be one of the following:

   • **false**

   • **true**

Default Value: false.

**grouping** *engine_group_name*

Specify the engine group's name.

Must be a string in the pattern [a-zA-Z][a-zA-Z0-9-]*.

**release-train** *release_train_image*

Specify the release train image.

Must be a string.

**replicas** *replica_count*

Specify the replica count.

Must be an integer.

Default Value: 1.

**repository *helm_repository***

Specify the Helm repository.

**subversion-config-url *subversion_config_url***

Specify the subversion configuration URL.

Must be a string.

**subversion-run-url *subversion_run_url***

Specify the subversion run URL.

Must be a string.

**tracing-service-name *tracing_server_name***

Specify the tracing server name used for Policy Engine.

Must be a string.

**Usage Guidelines**   Use this command to configure the engine parameters.

# engine environment

Configures the environment variables exposed to engine-app pods.

**Command Modes**   Exec > Global Configuration

**Syntax Description**   **engine** *engine_name* **environment** *name* **value** *value*

**name**

Specify the property/environment name.

Must be a string.

**value *value***

Specify the value for the environment.

Must be a string.

**Usage Guidelines**   Use this command to configure the environment variables exposed to engine-app pods.

# engine grpc

Configures the gRPC parameters.

**Command Modes**   Exec > Global Configuration

**Syntax Description**

```
engine engine_name grpc [ externalIPs external_ip_address | port grpc_port_number
]
```

**externalIPs *external_ip_address***

Specify the external IP address.

**port *grpc_port_number***

Specify the gRPC port number.

Must be an integer.

**Usage Guidelines**   Use this command to configure the gRPC parameters.

# engine install-features

Configures the installation feature parameters.

**Command Modes**   Exec > Global Configuration

**Syntax Description**

```
engine engine_name install-features { policy-builder policy_builder_name |
policy-server policy_server_name}
```

**policy-builder *policy_builder_name***

Specify the policy builder feature to be installed.

Must be a string.

**policy-server *policy_server_name***

Specify the policy server feature feature to be installed.

Must be a string.

**Usage Guidelines**   Use this command to configure the feature parameters.

# engine n7

Configures the n7 interface engine configuration parameters.

**Command Modes**   Exec > Global Configuration

**Syntax Description**

```
n7 defaultBearerUpliftAllowed defaultBearer_uplift_allowed
disableCombinedN7Notify { false | true}
```

**defaultBearerUpliftAllowed *defaultBearer_uplift_allowed***

Specify the number of times defaultbearer uplift must be allowed during the course of Rx session.

Must be an integer.

Default Value: 1.

**disableCombinedN7Notify { false | true}**

Specify whether to send combined n7 notify request having default and dedicated bearer detail, or to send separate n7 notify requests for default and dedicated bearer.

Must be one of the following:

- **false**

- **true**

Default Value: false.

**Usage Guidelines**    Use this command to configure the n7 interface engine configuration parameters.

# engine patching patch

Configures the patching parameters.

**Command Modes**    Exec > Global Configuration

**Syntax Description**    **engine** *engine_name* **patching patch** *patch_id* **[ [ jar** *jar_to_patch* **] [ version** *jar_version_number* **] ]**

**jar *jar_to_patch***

Specify the jar to patch.

Must be a string.

**version *jar_version_number***

Specify the version number of jar. Changes every time a new patch is uploaded.

Must be an integer.

Default Value: 1.

**patch_id**

Specify the ID of the patch to apply.

Must be a string.

**Usage Guidelines**    Use this command to configure the patching parameters.

# engine properties

Configures the system properties passed to the application.

**Command Modes**    Exec > Global Configuration

| Syntax Description | `engine` *engine_name* `properties` *name* `value` *value* |
| --- | --- |

**name *name***

Specify the property/environment name.

Must be a string.

**value *value***

Specify the value for the environment.

Must be a string.

| Usage Guidelines | Use this command to configure the system properties passed to the application. |
| --- | --- |

# engine resources limits

Configures the resource request parameters.

| Command Modes | Exec > Global Configuration |
| --- | --- |

| Syntax Description | `engine` *engine_name* `resources limits { [ cpu` *cpu_limit* `] [ memory` *memory_limit* `]}` |
| --- | --- |

**cpu *cpu_limit***

Specify the CPU limit. If not specified, the default value is set to 18.

Must be an integer in the range of 5-16.

Default Value: 14.

**memory *memory_limit***

Specify the memory limit. If not specified, the default value is set to 20Gi.

Must be a string.

Default Value: 20Gi.

| Usage Guidelines | Use this command to configure the resource request parameters. |
| --- | --- |

# engine resources requests

Configures the resource request parameters.

| Command Modes | Exec > Global Configuration |
| --- | --- |

| Syntax Description | `engine` *engine_name* `resources requests { [ cpu` *cpu_request* `] [ memory` *memory_request* `]}` |
| --- | --- |

**cpu** *cpu_request*

Specify the CPU request.

Must be an integer in the range of 1-5.

Default Value: 5.

**memory** *memory_request*

Specify the memory request.

Must be a string.

Default Value: 10Gi.

**Usage Guidelines**       Use this command to configure the resource request parameters.

# external-services

Configures access to external services.

**Command Modes**       Exec > Global Configuration

**Syntax Description**       **external-services K8 service name** *service_name* **[ ips** *ip_address* **| port** *port_number*
**]**

**K8 Service name** *service_name*

Specify the Kubernetes or the external service name.

Must be a string of 1-63 characters in the k8-svc-name pattern. For information on the k8-svc-name pattern, see the Input Pattern Types section.

**ips** *ip_address*

Specify the IP address of the external service.

**port** *port_number*

Specify the port number of the external service.

**Usage Guidelines**       Use this command to configure the access to external services.

# label cdl-layer

Configures the CDL pods node affinity label.

**Command Modes**       Exec > Global Configuration

**Syntax Description**       **cdl-layer { key** *label_key* **| value** *label_value*}

**key** *label_key*

Specify the label key.

Must be a string.

**value** *label_value*

Specify the label value.

Must be a string.

**Usage Guidelines**       Use this command to configure the CDL.

# label oam-layer

Configures the OAM pods node affinity label.

**Command Modes**       Exec > Global Configuration

**Syntax Description**       `oam-layer { key` *label_key* `| value` *label_value*`}`

**key** *label_key*

Specify the label key.

Must be a string.

**value** *label_value*

Specify the label value.

Must be a string.

**Usage Guidelines**       Use this command to configure the OAM pods node affinity label.

# label protocol-layer

Configures the protocol layer pod node affinity label.

**Command Modes**       Exec > Global Configuration

**Syntax Description**       `protocol-layer { key` *label_key* `| value` *label_value*`}`

**key** *label_key*

Specify the label key.

Must be a string.

**value** *label_value*

Specify the label value.

Must be a string.

**Usage Guidelines**    Use this command to configure the protocol layer pod node affinity label.

# label service-layer

Configures the service pods node affinity label.

**Command Modes**    Exec > Global Configuration

**Syntax Description**    `service-layer { key` *label_key* `| value` *label_value*`}`

**key** *label_key*

Specify the label key.

Must be a string.

**value** *label_value*

Specify the label value.

Must be a string.

**Usage Guidelines**    Use this command to configure the service pods node affinity label.