

## Features and Important Notes for Cisco IOS XE Release 3.15S

These release notes describe the following topics:

- [New Software Features in Cisco IOS XE Release 3.15S, page 7](#)
- [MIBs, page 11](#)
- [Important Notes, page 12](#)

### New Software Features in Cisco IOS XE Release 3.15S

This section describes new and changed features in Cisco IOS Release XE 3.15S. Some features may be new to Cisco IOS Release XE 3.15S but were released in earlier Cisco IOS XE software releases. Some features may have been released in earlier Cisco IOS XE software releases and have been changed in Cisco IOS Release XE 3.15S. Links to feature modules are included. If a feature listed does not have a link to a feature module, that feature is documented only in the release notes.

#### Adaptive QoS Manageability

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos\\_plcshp/configuration/xe-3s/qos-plcshp-xe-3s-book/qos-plcshp-adaptive-qos-dmvpn.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_plcshp/configuration/xe-3s/qos-plcshp-xe-3s-book/qos-plcshp-adaptive-qos-dmvpn.html)

#### AMT (Automatic Multicast Tunneling)

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti\\_pim/configuration/xe-3s/imc-pim-xe-3s-book/amt.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipmulti_pim/configuration/xe-3s/imc-pim-xe-3s-book/amt.html)

#### AVC in L2 Transparent mode

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios/solutions\\_docs/avc/guide/avc-user-guide.html](http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html)

#### BGP Support of Multiple Sourced Paths per Redistributed Route

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_bgp/configuration/xe-3s/irg-xe-3s-book/bgp-multi-paths-redistribute.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/xe-3s/irg-xe-3s-book/bgp-multi-paths-redistribute.html)

#### BGP Flowspec Client (PE) Support

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_bgp/configuration/xe-3s/irg-xe-3s-book/C3PL-BGP-Flowspec-Client.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/xe-3s/irg-xe-3s-book/C3PL-BGP-Flowspec-Client.html)

#### Configurable export interval in EZPM

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios/solutions\\_docs/avc/guide/avc-user-guide.html](http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html)

### **Configuring Multiple Policies on an Interface**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios/solutions\\_docs/avc/guide/avc-user-guide.html](http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html)

### **Call Progress Analysis (CPA) over IP-IP Media Session**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-cpa.html>

### **Modification of unsupported SIP header using SIP Profiles**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-sip-param-mod.html>

### **Dynamic extracted fields**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios/solutions\\_docs/avc/guide/avc-user-guide.html](http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html)

### **EIGRP OTP Support to propagate SGT**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_eigrp/configuration/xe-3s/ire-xe-3s-book/ire-eigrp-over-the-top.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_eigrp/configuration/xe-3s/ire-xe-3s-book/ire-eigrp-over-the-top.html)

### **EIGRP OTP VRF Support**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_eigrp/configuration/xe-3s/ire-xe-3s-book/ire-otp-vrf.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_eigrp/configuration/xe-3s/ire-xe-3s-book/ire-otp-vrf.html)

### **Enabling absolute timestamp first and last fields**

For detailed information about this feature, see the following document:

[http://www.cisco.com/en/US/docs/routers/access/ISRG2/AVC/api/guide/AVC\\_Metric\\_Definition\\_Guide.html](http://www.cisco.com/en/US/docs/routers/access/ISRG2/AVC/api/guide/AVC_Metric_Definition_Guide.html)

### **Enhanced ART metrics for concurrent connections**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios/solutions\\_docs/avc/guide/avc-user-guide.html](http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html)

### **Fine-Grain NBAR for Selective Applications**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos\\_nbar/configuration/xe-3s/qos-nbar-xe-3s-book/nbar-fine-selapp-xe.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xe-3s/qos-nbar-xe-3s-book/nbar-fine-selapp-xe.html)

### **HA Support for REFER Call Flows upon SSO**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-stateful-switchover.html>

### **HA for Xcoded Calls (Inbox & Box to Box)**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-dsp.html>

### **HA for Xcoded Calls w/ DTMF & VCC**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-dsp.html>

### **Identify and Clear (Terminate) FPI Hung Sessions to Prevent Reboot**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/vcr1/vcr1-cr-book/vcr-c5.html>

### **ICE infra and ICE lite support**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-ice-lite.html>

### **ICCP Multi-chassis VLAN Redundancy**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xe-3s/ce-xe-3s-book/ce-iccp-multichass-vlan-red.html>

### **Kaplan draft ENUM Source-URI Enhancement**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-cube-enum-enhance-kaplan.html>

### **Layer 2 Transparent Firewall support**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_zbf/configuration/xe-3s/sec-data-zbf-xe-book/zbfw-l2-transp-fw.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_zbf/configuration/xe-3s/sec-data-zbf-xe-book/zbfw-l2-transp-fw.html)

### **NAT MIB Support**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr\\_nat/configuration/xs-3s/nat-xe-3s-book/iadnat-addr-consv.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xs-3s/nat-xe-3s-book/iadnat-addr-consv.html)

### **NBAR Custom Applications based on DNS Name**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos\\_nbar/configuration/xs-3s/qos-nbar-xe-3s-book/nbar-custapp-dns-xe.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xs-3s/qos-nbar-xe-3s-book/nbar-custapp-dns-xe.html)

### **Observation Point**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios/solutions\\_docs/avc/guide/avc-user-guide.html](http://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/avc/guide/avc-user-guide.html)

### **PfRv3 Transit Site Support**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfrv3/configuration/xs-3s/pfrv3-xe-3s-book/pfrv3-transit-site.html>

### **PKI IOSXE Certificate Server**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_pki/configuration/xs-3s/sec-pki-xe-3s-book/sec-cfg-mng-cert-serv.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_pki/configuration/xs-3s/sec-pki-xe-3s-book/sec-cfg-mng-cert-serv.html)

### **QoS Service Group**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos\\_svcgrp/configuration/xs-3s/qos-svcgrp-xe-3s-book/qos-svcgrps.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_svcgrp/configuration/xs-3s/qos-svcgrp-xe-3s-book/qos-svcgrps.html)

### **SIP Profile to provide tag, sequence number and modification of unsupported SIP header:**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voi-sip-param-mod.html>

### **SEQUENCE/SORT DIAL PEERS**

For detailed information about this feature, see the following document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/vcr4/vcr4-cr-book/vcr-s7.html>

### **SSL Custom Application**

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos\\_nbar/configuration/xs-3s/qos-nbar-xe-3s-book/nbar-ssl-custom-appl-xe.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_nbar/configuration/xs-3s/qos-nbar-xe-3s-book/nbar-ssl-custom-appl-xe.html)

## TrustSec SGT Caching support for ISR-G2

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_usr\\_cts/configuration/xs-3s/sec-usr-cts-xe-3s-book/cts-sgt-cache.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_cts/configuration/xs-3s/sec-usr-cts-xe-3s-book/cts-sgt-cache.html)

## Undetermined Transport Support

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_acl/configuration/xs-3s/sec-data-acl-xe-3s-book/ipv6-undeter-trans-xe.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_acl/configuration/xs-3s/sec-data-acl-xe-3s-book/ipv6-undeter-trans-xe.html)

## VRF-Aware Dynamic NAT Mapping with HSRP

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr\\_nat/configuration/xs-3s/nat-xe-3s-book/iadnat-dynamc-hsrp.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xs-3s/nat-xe-3s-book/iadnat-dynamc-hsrp.html)

## Zero Touch Auto-IP

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr\\_ipv4/configuration/xs-3s/ipv4-xe-3s-book/Zero-touch-Auto-IP.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_ipv4/configuration/xs-3s/ipv4-xe-3s-book/Zero-touch-Auto-IP.html)

## Zone-Based Firewall: Serviceability Enhancements Phase

The Zone-Based Firewall Serviceability Enhancements Phase 4 feature provides the following functionalities: Enhances the zone-based firewall client debugs Enhances the firewall client statistics related to zone, zone pair, VRF, per-filter and PAM Provides policy transaction debugs The following command was introduced: debug platform condition feature fw controlplane submode The following commands were removed: set platform software trace forwarding-manager FP active fw set platform software trace forwarding-manager RP active fw set platform software trace forwarding-manager F0 fw set platform software trace forwarding-manager R0 fw. For more information, see the debug and security command references.

## Zone-Based Firewall Handling of Zone Mismatch Traffic

For detailed information about this feature, see the following document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_zbf/configuration/xs-3s/sec-data-zbf-xe-book/zbf-zone-mismatch.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_zbf/configuration/xs-3s/sec-data-zbf-xe-book/zbf-zone-mismatch.html)

## MIBs

To locate and download MIBs for selected platforms, Cisco IOS XE releases, and feature sets, use the Cisco MIB Locator found at the following URL:

<http://tools.cisco.com/ITDIT/MIBS/servlet/index>

If the Cisco MIB Locator does not support the MIB information that you need, you can obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

To access the Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank email to [cco-locksmith@cisco.com](mailto:cco-locksmith@cisco.com). An automatic check will verify that your email address is registered with Cisco.com. If the check is successful, account details with a new random password will be emailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

<http://tools.cisco.com/RPF/register/register.do>

## Important Notes

The following sections contain important notes about Cisco IOS Release 3.15S:

- [Field Notices and Bulletins, page 12](#)

### Field Notices and Bulletins

- **Field Notices**—Cisco recommends that you view the field notices for this release to see if your software or hardware platforms are affected. You can find field notices at [http://www.cisco.com/en/US/support/tsd\\_products\\_field\\_notice\\_summary.html](http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html).
- **Bulletins**—You can find bulletins at [http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod\\_literature.html](http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod_literature.html).