



## PMIP MAG SSO

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Effective from Cisco IOS XE Release 3.13S, PMIP MAG SSO feature supports iWAG mobility sessions that are tunneled to the Mobile Network Operator (MNO) using Proxy Mobile IPv6 (PMIPv6). The Stateful Switchover (SSO) feature takes advantage of Route Processor (RP) redundancy by establishing one of the RPs as the active processor, while the other RP is designated as the standby processor, and then synchronizing the critical state information between them. When a failover occurs, the standby device seamlessly takes over, starts performing traffic-forwarding services, and maintains a dynamic routing table.

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## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

## Information About PMIP MAG SSO

The PMIP MAG SSO feature supports only the Cisco ASR 1000 Series Aggregation Services Routers intrachassis (RP-to-RP) SSO, but not the interchassis (Cisco ASR1K-to-Cisco ASR1K) SSO. The First Sign Of Life (FSOL) triggers that are supported on SSO include DHCP proxy (where the iWAG acts as the DHCP proxy server) and DHCP proxy plus unclassified MAC.

For more information about ISSU, see the “Overview of ISSU on the Cisco ASR 1000 Series Routers” section of the [Cisco ASR 1000 Series Aggregation Services Routers Software Configuration Guide](#).

The process as part of iWAG SSO handling PMIPv6 checkpoints to the standby RP the information that is necessary to create a copy of the session on the standby RP. Such an inactive copy of the session becomes active when the standby RP becomes active.

When an iWAG mobility session with PMIPv6 tunneling is enabled using the SSO/ISSU feature, the Cluster Control Manager on the active RP needs to wait for a few more components, including the Policy, SSS, DHCP-SIP etc, to become ready before checkpoint data collection, and polls these additional components for checkpoint data during data collection. A very similar operation is performed on the standby RP as well. Although such additional CPU consumption is per session, it is not expected to be too heavy since processing in each of these components should include the time spent on a few data structure lookups and memory-copying operations.

Default IWAG configuration enables IWAG SSO. No specific command is required for configuring this feature.

## Additional References

### Related Documents

Related Topic	Document Title
Cisco IOS commands	<a href="#">Cisco IOS Master Commands List, All Releases</a>
iWAG commands	<a href="#">Cisco IOS Intelligent Wireless Access Gateway Command Reference</a>

### MIBs

MIB	MIBs Link
No new or modified MIBs are supported by this feature.	To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL:  <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a>

### Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a>

## Feature Information for PMIP MAG SSO

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

**Table 1: Feature Information for PMIP MAG SSO**

Feature Name	Releases	Feature Information
PMIP MAG SSO	Cisco IOS XE Release 3.13S	In Cisco IOS XE Release 3.13S, this feature was implemented on the Cisco ASR 1000 Series Aggregation Services Routers.

