

ISG Debuggability

The ISG Debuggability feature supports conditional debugging of simple IP subscriber sessions whereby debugs of only specified sessions appear in the debug log. The conditions that can be applied to the subscriber sessions include IP address, VRF (IPv4 or IPv6), and MAC address. This module describes how to enable conditional debuggability on Cisco Intelligent Services Gateway (ISG) subscriber sessions.

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Restrictions for ISG Debuggability

- Conditional debugging is not available for service manager, QOS policy, most of the command handler, EPD controller, ANCP, and CCM. Also, L2TP, VPDN, PPP, and PPP-based sessions can not be conditionally debugged.

Information About ISG Debuggability

ISG Debugging Behavior

Prior to this enhancement, debugging could be enabled for individual modules through module-wise debugging commands. These debugs provide the flexibility to limit the debugs to a specified subset of modules. However, when these debugs were enabled to debug session-related issues, the logs contained debug information for all sessions which would sometimes be unmanageable depending on the scale. With the conditional debugging enhancement, the debug logs are limited to only specified sessions.

To determine if session debug logs are printed for the specified module, check the following conditions:

- Debug condition is configured for the session identifier
- Debug condition is enabled on the device
- Module debugging is enabled

Additional References for ISG Debuggability

Related Documents

Related Topic	Document Title
Cisco IOS commands	Master Command List, All Releases
ISG commands	ISG Command Reference

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies. 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. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	http://www.cisco.com/support

Feature Information for ISG Debuggability

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. An account on Cisco.com is not required.

Table 1: Feature Information for ISG Debuggability

Feature Name	Releases	Feature Information
ISG Debuggability		The ISG Debuggability feature supports conditional debugging of simple IP subscriber sessions whereby debugs of only specified sessions appear in the debug log. The conditions that can be applied to the subscriber sessions include IP address, VRF (IPv4 or IPv6), and MAC address.. The following commands were introduced: **subscriber per-session debug**, **show subscriber log**, **show subscriber per-session debug sessions-hit**, **clear subscriber log**.