

Beta Extended L7 Debug

Technical Note

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1 Introduction

This document relates to additional logging capabilities that enable debug and client trace logging at a per-Virtual Service (VS) level. Because this is a beta feature, only configuring using the Web User Interface (WUI) is supported, no Application Program Interface (API) functionality has been implemented.

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2 Extended Debug WUI Options

There is a global debug option called **Enable L7 Debug Traces** that enables debugging on all Layer 7 (L7) connections. This global setting has precedence over the new Extended L7 debug feature capabilities outlined below.

This new beta feature allows additional logging capabilities that enables debug logging on a per-VS level and a further option to limit the logging by specifying the client IP address. All logs associated with this feature are recorded in the system messages file **messages.txt**.

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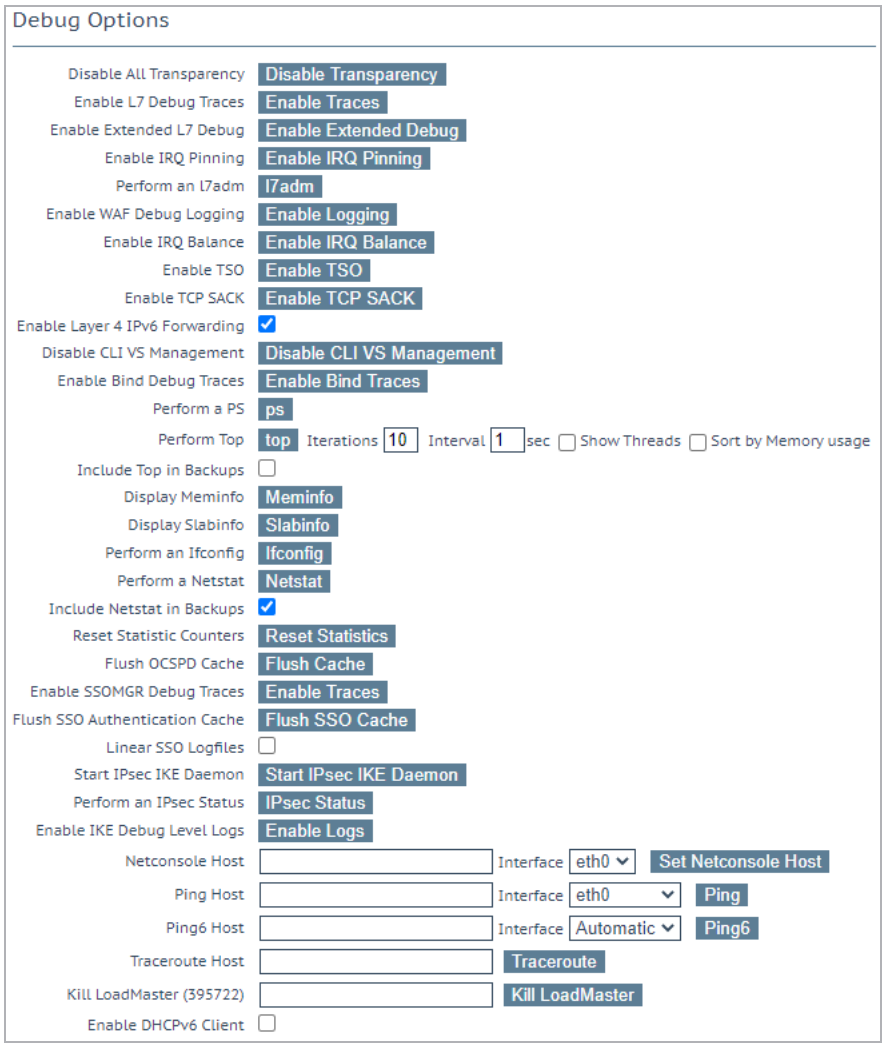

You can enable this feature using the **Enable Extended L7 Debug** setting in the **System Configuration > Logging Options > System Log Files > Debug Options** page.

> Enabling Extended L7 Debug does not start logging. By default, the **L7 Debug Level** is set to **No Debug** for all Virtual Services and SubVSs. To enable logging for a particular Virtual Service or SubVS, you must set the **L7 Debug Level** to **Call Tracing** or **Full Debug** in the **Extended Debug** section of the Virtual Service or SubVS modify screen.

When this option is enabled, the **Extended Debug** configuration item is made available to all VSs. When using Sub-Virtual Services (SubVSs), the **Extended Debug** settings are also inherited by the

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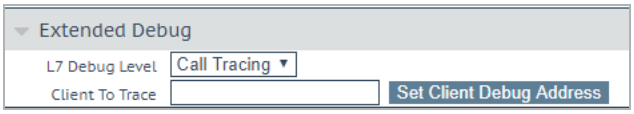
SubVS, so that a single call can be logged in its entirety. It is also possible to enable debug on only a single SubVS if required.



When **Enable Extended L7 Debug** is set, the **Extended Debug** options are available when configuring or modifying a VS. The options available are:

- **L7 Debug Level:** There are currently three levels available; **No Debug**, **Call Tracing**, and **Full Debug**. **Call Tracing** is a basic level log that displays most relevant operations, while **Full Debug** displays all available debug logs, which is the same as the global setting of **Enable L7 Debug Traces** but on a per-VS level.
- **Client To Trace:** It is also possible to limit the debug information even further by specifying a client IP address (you can specify an IPv4 or IPv6 address). If an address is specified, only connections coming from that specific client IP are logged/traced. This allows debugging capability from a single address.

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