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Orchestration Server Deployment Guide

Debug Logging Segmentation

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Debug Logging Segmentation

Starting with Release 8.1.300.52, ORS supports Debug Logging Segmentation, which provides more precise control of the logging when the `log-trace-segments` option is configured. The debug segment header `{<segment_name>:<log_level>}` is now added right after the timestamp. For example: `10:31:02.249 {ScxmlMetric:3} METRIC <event_queued sid='ML06K6519D5UPAGSHNE41VJBSS00000M' name='interaction.added' type='external' thread='15800' />`

Use this option to specify the debug messages that will be printed into the log files. When set to `all` or `All` (the default), all debug messages are printed with the log level defined by the `log/x-server-trace-level` option. To control the log levels for each segment, use syntax: `<segment_name>:<log_level>`. If `<log_level>` is not specified or invalid, ORS applies the default value (defined in `x-server-trace-level`). If an unknown segment is specified, ORS ignores it without generating an error.

Example:

Setting	Description
<code>all, ORSInternal:0, ORSURS:0</code>	Everything is enabled except <code>ORSInternal</code> and <code>ORSURS</code>
<code>ScxmlIO, ThreadSync</code>	Only <code>ScxmlIO</code> and <code>ThreadSync</code> are enabled
<code>all, ORSURS</code>	Everything is enabled (the same as <code>all</code>)
<code>ORSURS:0</code>	Everything is disabled (the same as empty)
<code>CallMonitor, all:0</code>	Everything is disabled (the same as empty)
<code>all, ORSURS:1</code>	Everything is enabled with the default trace level, but the trace level for the <code>ORSURS</code> segment will be changed to 1
(empty)	Everything is disabled (the same as <code>all:0</code> , or <code>x-server-trace-level=0</code>)
<code>all:3</code>	The same as <code>all</code> with <code>x-server-trace-level=3</code>

Note: Starting with ORS 8.1.400.31, a new Debug Log Segment header `ScxmlMetricEvalExpr` is added for `METRIC:eval_expr`. In a log file, it will appear as follows:

```
14:47:11.414 [T:8436] {ScxmlMetricEvalExpr:3} METRIC <eval_expr sid='ors2521'
expression='global._data =
new Object();' result='[object Object]' thread='8436' />
```

As a result, the `log-trace-segments` option adds `ScxmlMetricEvalExpr` as a new value.

Also see `filter-eval-expr`.