How to enable tracing in OSM 7.3.X

Prior to OSM 7.3.x, an OSM system administrator used the OSM url /OrderManagement/admin/log4jAdmin to change the level of details that OSM can print in (weblogic) server log files. This feature relied on Log4j.

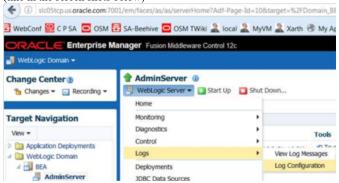
As of 7.3.0 OSM replaced Log4J by ODL (Oracle Diagnostic Logging) which is the standard system logging used by FM applications. The ODL can be viewed and configured using Enterprise Manager.

Typically EM can be accessed in http://AdminServerHost:port/em

Note that when you enable tracing for OSM, you will find the log entries in the ../logs/<Managed-Server>-diagnostic.log file

Steps to Enable Tracing using EM

- 1. Point web browser to http://AdminServerHost:port/em
- 2. In left pane expand "Weblogic Domain" and the expand OSM domain
- Right click the OSM server and Select Logs -> Log Configuration
 Note: The selected server is typically an OSM Managed Server. However in small environments, OSM might be running in the AdminServer (like in the screen shots below)



4. Search Logger by prefix,



5. Set the new logging level,



Steps to Enable Tracing by modifying the logging.xml

If your test environment does not have EM (very rarely) then you edit the logging.xml under the required server folder

- 2. Change Console level from WARNING to NOTIFICATION to see log:info() in console/stdout <log handler name='console-handler' class='oracle.core.ojdl.logging.ConsoleHandler' level='NOTIFICATION: 32'

Note: There is no need to reboot since logging.xml is constanly monitored by weblogic and automatically re-loaded every time it changes.

Steps to Trace OSM Solution

Typically, solution code written in XQuery can be print logging entries as long as a logger instance is created (or passed by OSM server as context parameter)

- 1. Assuming the solution has logger instructions like log.info(), log.debug(), etc
- 2. Set Solution automation plug-ins to TRACE level to see OSM developer debug entries coded in xqueries.

```
o Logger: /automation/plugin/internal/task/AS_POC_COM_Solution/1
o Level: TRACE:32
or modify logging.xml file:
    <!-- Solution Tasks -->
    <logger name='/automation/plugin/internal/task/AS_POC_COM_Solution/1' level='TRACE:32' useParentHandlers='true'/>
```

Note: These 2 loggers control tracing for internal and external automation plug-ins:

o /automation/plugin/internal/task/AS_POC_COM_Solution/1 will set the logging level for all solution internal automation plug-ins o /automation/plugin/external/AS_POC_COM_Solution/1 is for all solution external (receiver) automation plug-ins

Note: Search the TaskName as logger name in the ODL Log Configuration page for instance:

```
Search All Categories: *EntryPointTask* will list logger like: /automation/plugin/internal/task/AS POC COM Solution/1.0.0.1.0/P EntryPointTask/do redo undo
```

Frequently viewed OSM Loggers

OSM Logger Results · Dumps order $*_orchestrationPlanOutput.xml$ orderDataUpdateOuput.xml oracle.communications.ordermanagement.orchestration.generation.AppServerOrchestrationPlanGenerator (ControlData) Prints out the full path of the 2 xml dumped files. Prints out OSM Order Header • Dumps PONR *.xml file when com.mslv.oms.handler.completeorder.CompleteOrderHandlerEJB the order is amended Dumps XML request and response when automation calls com.mslv.oms.security.base.ControllerBean context.processXMLRequest() methods

Tracing O2A

O2A has a lot of loggers that can be enabled for tracing.

Some are based on standard logger while other might be based on custom logger (xquery to instantiate a new logger) which print to stdout or custom file under the domain directory.

For instance:

```
XQuery: OracleComms_OSM_O2A_COM_SalesOrderFulfillment\resources\ComponentInteraction\AIAEBMResponse.xqy

Loggers:

declare variable $logResponseEbm := logfactory:getLog("OracleComms_OSM_O2A_Response_Ebm");

declare variable $logResponseDataAfterUpdated:= logfactory:getLog("OracleComms_OSM_O2A_Response_Data_After_Update");

declare variable $logResponseOrderLifeCycle := logfactory:getLog("OracleComms_OSM_O2A_Response_OrderLifeCycle");

declare variable $logOrderLifeCycleComponentUpdate := logfactory:getLog
("OracleComms_OSM_O2A_OrderLifeCycle_ComponentUpdate");

declare variable $logResponseUpdate := logfactory:getLog("OracleComms_OSM_O2A_Response_Update");

declare variable $logResponseExtensionDataUpdate := logfactory:getLog
("OracleComms_OSM_O2A_Response_ExtensionDataUpdate");

declare variable $logResponseSequencing := logfactory:getLog("OracleComms_OSM_O2A_Response_Sequencing");

declare variable $logResponseRedo := logfactory:getLog("OracleComms_OSM_O2A_Response_Redo");

declare variable $logResponseUndo := logfactory:getLog("OracleComms_OSM_O2A_Response_Undo");

declare variable $logResponseUndo := logfactory:getLog("OracleComms_OSM_O2A_Response_Undo");

declare variable $logResponseUndo := logfactory:getLog("OracleComms_OSM_O2A_Response_Undo");
```

Outputs:

Standard logger log:debug(), log:error(), log:info()

• custom file orderlifecyclefn:logOrderActivityToFile()

Related articles

• OSM 7.3.0 Managing Logs: http://ocinfodev.us.oracle.com/final/osm/73/doc.73/e49157/adm bea wls console.htm#OSMSA694