

# Oracle SOA Suite 11g R1 PS5

## SOA Suite for healthcare integration Series

### Overview of the Development Environment

michael@czapski.id.au

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#### Introduction

To develop HL7 v2 messaging solutions which use the SOA Suite for healthcare integration one needs a working development and deployment environment.

This article provides references to components which must be obtained and installed to get a working environment in preparation for development of solutions presented in possible future articles.

*This article and the remaining articles assume a development environment based in Microsoft Windows XP 64-bit. Nothing, except the instructions for downloading Windows-specific components and screenshots of Windows-specific non-SOA Suite tools, prevents you from developing on any of the other supported platforms. Convert my Windows-specific instructions to your platform-specific instructions as needed.*

#### Publically Available Components

The baseline environment is the Oracle SOA Suite 11g R1 PS5, and its pre-requisites. These components can be downloaded from the Oracle eDelivery site, edelivery.oracle.com, and elsewhere.

#### Pre-requisite Components – Java and Database

Table 1, “Prerequisites Software for Windows” lists the pre-requisite components which must be downloaded and installed. Naturally, documentation does not have to be downloaded and installed.

Table 1, “Prerequisites Software for Windows”

Part Number	Description	Size
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<b>V30996-01</b>	Oracle JDK 6 Update 31 for Microsoft Windows x64 (64-bit)	69M
<b>V31000-01</b>	Oracle JDK 6 Update 31 documentation (covers JDK and JRE)	59M
<b>V20610-01 Part 1 of 2</b>	Oracle Database 11g Release 2 (11.2.0.1.0) for Microsoft Windows x64 (64-bit) (Part 1 of 2)	1.2G
<b>V20610-01 Part 2 of 2</b>	Oracle Database 11g Release 2 (11.2.0.1.0) for Microsoft Windows x64 (64-bit) (Part 2 of 2)	961M

As at end of August 2012 JDK 1.6.0\_31 and documentation can be downloaded from <http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-javas-e6-419409.html#jdk-6u31-oth-JPR>. Follow the prompts and instructions. Eventually, <http://download.oracle.com/otn/java/jdk/6u31-b05/jdk-6u31-windows-x64.exe>.

Install the JDK and the JRE as you would normally. I am sure you have done this dozens of times before. If not, there will be plenty of guides on the Internet, for example <http://www.oracle.com/technetwork/java/javase/index-137561.html>.

Oracle RDBMS 11g R2 can be downloaded from the eDelivery site (eDelivery.oracle.com), Oracle Database, Oracle Database 11g Release 2 (11.2.0.1.0) Media Pack for Microsoft Windows x64 (64-bit). Figure 1, "eDelivery Site", illustrates the Sign In / Register page of the Oracle eDelivery site.

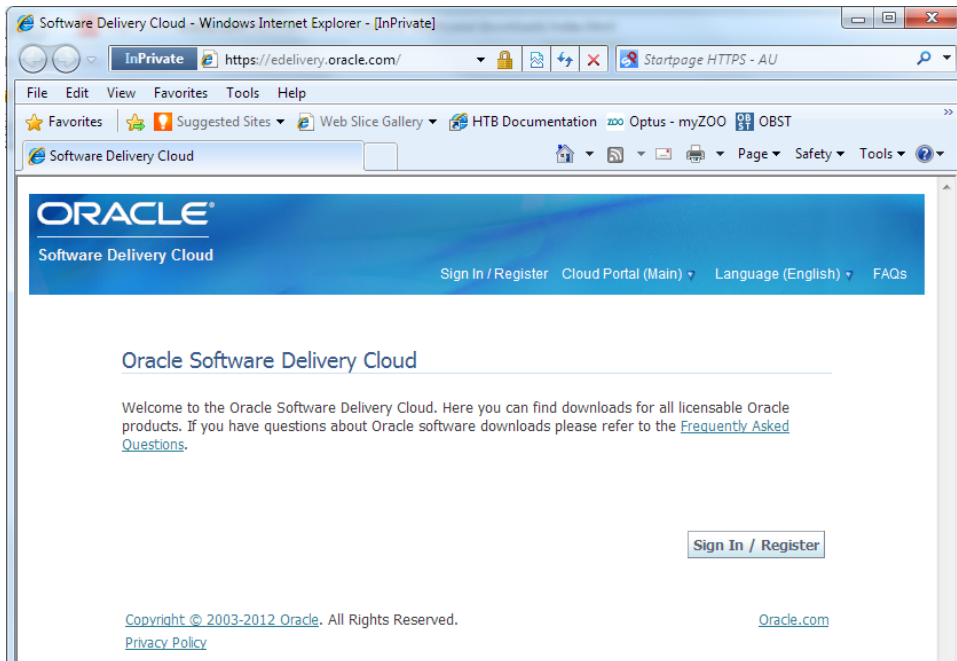


Figure 1, "eDelivery Site"

- If you don't already have a new Oracle web account then go through the registration process by clicking the Sign In / Register button and following the workflow
- Review "Terms and Restrictions" and if you have no impediments to proceeding click "Continue"

Figure 2, "Oracle Database packages for WIndows 64-bit", illustrates available options and the selection process.



## Media Pack Search

### Instructions

1. Review the [License List](#) to determine which Product Pack or Packs you need to download.
2. Select the Product Pack and Platform and click "Go".
3. If there is only one result, you will see the download page. If there are multiple results, select one and click "Continue".

Select a Product Pack  ⓘ

Platform

### Results

Select	Description	Release	Part Number	Updated	# Parts / Size
<input type="radio"/>	<a href="#">Oracle In-Memory Database Cache 11g Release 2 (11.2.2.3.0) Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.2.3.0	B68508-01	JUN-20-2012	1 / 271M
<input type="radio"/>	<a href="#">Oracle TimesTen In-Memory Database 11g Release 2 (11.2.2.3.0) Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.2.3.0	B68526-01	JUN-20-2012	1 / 271M
<input type="radio"/>	<a href="#">Oracle In-Memory Database Cache 11g (11.2.1.9.0) Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.1.9.0	B67081-01	APR-03-2012	1 / 182M
<input type="radio"/>	<a href="#">Oracle TimesTen In-Memory Database 11g (11.2.1.9.0) Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.1.9.0	B67107-01	APR-03-2012	1 / 182M
<input checked="" type="radio"/>	<a href="#">Oracle Database 11g Release 2 (11.2.0.1.0) Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.0.1.0	B58804-03	AUG-21-2012	19 / 11G

Figure 2, "Oracle Database packages for Windows 64-bit"

- Choose Platform and the package
- Download each component as needed.

There are plenty of guides discussing installation of the Oracle database on any of the supported platforms. Try, for example, <http://www.oracle.com/webfolder/technetwork/tutorials/obe/db/11g/r1/prod/install/dbinst/windbinst2.htm>.

Make sure to install both the JDK and the Database before attempting to install the SOA Suite.

## SOA Suite Components

Table 2, "Generic SOA Suite Components for Windows", lists all components which need to be downloaded for a SOA Suite 11g R1 PS5 installation.

Table 2, "Generic SOA Suite Components for Windows"

Part Number	Description	Size
<b>V29856-01</b>	Oracle WebLogic Server 11gR1 (10.3.6) Generic and Coherence	1.0G
<b>V29672-01 Part 1 of 2</b>	Oracle SOA Suite 11g Patch Set 5 (11.1.1.6.0) (Part 1 of 2)	1.6G

<b>V29672-01 Part 2 of 2</b>	Oracle SOA Suite 11g Patch Set 5 (11.1.1.6.0) (Part 2 of 2)	1.2G
<b>V29790-01</b>	Oracle JDeveloper 11g and Oracle Application Development Framework 11g (11.1.1.6.0)	1.9G
<b>V29774-01</b>	Oracle JDeveloper 11g Extensions (11.1.1.6.0)	698M
<b>V29675-01</b>	Oracle Fusion Middleware Repository Creation Utility 11g (11.1.1.6.0) for Microsoft Windows	319M
<b>V18738-01</b>	Oracle Fusion Middleware 11g Release 1 Patch Set 1 Patch Scripts	6.4M
<b>V30762-01</b>	Oracle Fusion Middleware Documentation Library 11g Release 1 (11.1.1.6.0)	2.5G
<b>V24561-01 Part 1 of 3</b>	B2B Document Editor v11.1.1.4.0 (Part 1 of 3)	157M
<b>V24561-01 Part 2 of 3</b>	B2B Document Editor v11.1.1.4.0 (Part 2 of 3)	1.8G
<b>V24561-01 Part 3 of 3</b>	B2B Document Editor v11.1.1.4.0 (Part 3 of 3)	2.2G

- Select the Product Pack from the dropdown, as illustrated in Figure 3, "Choose the appropriate distribution of the Fusion Middleware", and click "Continue".

Select a Product Pack  ⓘ

Platform

**Results**

Select	Description	Release	Part Number	Updated	# Parts / Size
<input type="radio"/>	<a href="#">Oracle Fusion Middleware 12c Media Pack</a>	12.1.1.0.0	B69735-01	AUG-09-2012	16 / 1.9G
<input type="radio"/>	<a href="#">Oracle Enterprise Data Quality Address Verification Server for Oracle Data Integrator Media Pack</a>	12.0.0.0.0	B66430-02	MAY-08-2012	1 / 86M
<input type="radio"/>	<a href="#">Oracle GoldenGate for Non Oracle Database v11.2.1 Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.1.0.1	B68054-02	AUG-17-2012	11 / 605M
<input type="radio"/>	<a href="#">Oracle GoldenGate on Oracle v11.2.1 Media Pack for Microsoft Windows x64 (64-bit)</a>	11.2.1.0.1	B68076-01	MAY-11-2012	2 / 67M
<input type="radio"/>	<a href="#">Management Pack for Oracle GoldenGate 11.2.1.0.0 Media Pack</a>	11.2.1.0.0	B68539-01	JUN-19-2012	4 / 943M
<input type="radio"/>	<a href="#">Oracle JDeveloper and Application Development Framework 11g Release 2 Media Pack</a>	11.1.2.2.0	B63900-03	MAY-08-2012	8 / 7.5G
<input type="radio"/>	<a href="#">Oracle Fusion Middleware Identity Management 11g R2 Media Pack</a>	11.1.2.0.0	B69737-01	AUG-09-2012	60 / 48G
<input checked="" type="radio"/>	<a href="#">Oracle Fusion Middleware 11g Media Pack for Microsoft Windows x64 (64-bit)</a>	11.1.1.6.0	B55642-41	AUG-16-2012	135 / 86G

Figure 3, "Choose the appropriate distribution of the Fusion Middleware"

- Download the required components listed in Table 2, "Generic SOA Suite Components for Windows".

Install the SOA Suite starting with the WebLogic Server. Documentatin which will help you with the process is available at [http://docs.oracle.com/cd/E23943\\_01/soa.htm](http://docs.oracle.com/cd/E23943_01/soa.htm) and elsewhere. See, for example, "Quick Installation Guide", [http://docs.oracle.com/cd/E23943\\_01/install.1111/e14318/toc.htm](http://docs.oracle.com/cd/E23943_01/install.1111/e14318/toc.htm). I will not bother writing on this topic since it is already well covered.

For a development environment on a machine with limited resources install SOA Suite with a single application server. I use the AdminServer as the single application server in my development environment. It works well enough for my purposes.

I assume that at the end of the process you have a fully functional Oracle SOA Suite 11g R1 PS5 environment, ready for installation of the SOA Suite for healthcare integration components.

## **SOA Suite for healthcare integration Components**

Unlike the SOA Suite, database and Java, which was downloaded and installed previously, the SOA Suite for healthcare integration is only accessible through an Oracle Support account. If you are an Oracle Support customer then you can get your hands on the software. The topic of obtaining and installing the SOA Suite for healthcare integration is covered in “SOA Suite for healthcare integration Download”, <http://www.oracle.com/technetwork/middleware/healthcare/downloads/index.html>. <http://www.oracle.com/technetwork/middleware/soasuite/documentation/readme-111160-1538729.txt> provides installation instructions.

I assume that at the end of the process you have a fully functional SOA Suite for healthcare integration environment, ready for development of the solutions I expect to be covering in the subsequent articles in this Series.

## **Summary**

To develop HL7 v2 messaging solutions which use the SOA Suite for healthcare integration one needs a working development and deployment environment.

This article provided references to components which must be obtained and installed to get a working environment in preparation for development of solutions presented in possible future articles.