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| South East Water 4500 Infrastructure  Site Visit Report & Handover  Language English |

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# Introduction

This document details the work carried out on the 5th and 6th February 2013, at South East Water in Snodland, Kent, including installation locations, usernames and passwords of the consoles, and the locations of those consoles. Also included are any tests performed to demonstrate the working system.

The specified tasks were to: -

1. Install Oracle Web Logic Server 11.1.1.4.0 for forms, reports, discoverer, and DADs for IM4. This server will become the live 4.5.0.0 app server
2. Install Oracle Web Logic Server 11.1.1.5.0 for Bentley TMA web services. This server will become the live 4.5.0.0 web service server
3. Investigate and install the TMA notice API

Additional requirements during site visit: -

1. Upgrade the test database Exor schema from 4.4.0.0 to 4.5.0.0

Future requirements from Bentley services: -

1. Once the live system has been upgraded to 4.5.0.0, the old app and web service servers will become available and will be used to build the test rig going forwards. It is understood that in the interim, before those servers are available, certain functions for test will have to run on the new live servers, e.g. web services, the noticing API, and IM4.

Site specific considerations: -

* No maps required
* The database server has already been built
* Installations to be carried out from the app server (SEWEXORLIVE) as no access to the database server is possible
* RDP access to the web service server SEWEXORWEB is piggybacked from SEWEXORLIVE

Hardware Summary

|  |  |  |
| --- | --- | --- |
| Role | Name | IP |
| Database Server | SEW-CONGO |  |
| App Server | SEWEXORLIVE |  |
| TMA Server | SEWEXORWEB |  |

Notes:

The TMA servers are in the DMZ and are able to communicate with the database server only on port 57707.

# Software Installs by Server

## Database Server SEW-CONGO

NOTE: The database server was already built to 11.2.0, so these OneDoc sections (2, 8.1) have been skipped.

Listeners: -

|  |  |
| --- | --- |
| Listener name | (unknown) |
| Listener SQL port | 1521 |
|  | |
| Listener name | (unknown) |
| Listener SQL port | 57707 |

Databases: -

|  |  |
| --- | --- |
| Existing live (not to be touched during this visit) | EXORLIVE |
| New live (will become live – needed now for holding the live SOA management schema) | SEWEXOR |
| Test database for the 4.5.0.0 UAT environment | EXORTEST |

Note: the SOA management schemas are installed into the Exor database rather than being located in their own database.

Accounts for SEWEXOR and EXORTEST databases: -

|  |  |
| --- | --- |
| **Account Username** | **Password** |
| SYS | password# |
| SYSTEM | password# |
| DNSNMP |  |
| SYSMAN |  |
| HIGHWAYS | condor |

## Application Server SEWEXORLIVE

Installation: -

|  |  |
| --- | --- |
| Bentley OneDoc section references | 4.1, 4.2, 4.3, 4.4, 5.1, 5.3, 6.1-6.6, 7.2 |
| Java SDK install location | C:\Java\jdk1.6.0\_29 |
| Oracle WLS install location | C:\oracle\product\middleware |
| Versions installed | 10.3.5, upgraded to 11.1.1.2.0, 11.1.1.4.0, and various patches |
| Weblogic server path | C:\oracle\product\middleware\oracle\_wls |
| Installed components | Forms, reports, discoverer, enterprise manager (not web cache, portal, and not clustered) |

Oracle domain information: -

|  |  |
| --- | --- |
| Username | weblogic |
| Password | wls\_admin1 |
| Domain | fmfr |
| Location | c:\oracle\product\middleware\user\_projects\domains\fmfr |

Instance information: -

|  |  |
| --- | --- |
| Instance name | fmfr |
| Location | c:\oracle\product\middleware\instance\fmfr |

URLs for management web pages: -

|  |  |
| --- | --- |
| Console | http://sewexorlive:7001/console |
| Enterprise Manager | http://sewexorlive:7001/em |

Configured ports: -

|  |  |
| --- | --- |
| Forms | 9001 |
| Reports | 9002 |
| Discoverer | 9003 |
| OHS (for DADs) | 8888 |
| Consoles | 7001 |

Services: -

|  |  |
| --- | --- |
| Location of scripts | c:\Stage\Bentley\_admin\_scripts\ |
| To create services… | installAdminSvc.bat and then installNodeMgrSvc.cmd |
| To remove services… | uninstallNodeMgrSvc.cmd and then uninstallAdminSvc.cmd |

Exor configuration: -

|  |  |
| --- | --- |
| Forms… | |
| Live bin location | C:\exor\exorlive\bin |
| Test bin location | D:\exor\_test\bin (not completed until EXORTEST is at 4.5.0.0) |
| Formsweb.cfg configs | exorlive & exor\_test (see below for example URLs) |
| Exor.conf location | c:\exor\conf\exor.conf |
|  |  |
| Reports environments… | |
| EXORLIVE | C:\exor\exorlive\bin |
| EXORTEST | d:\exor\_test\bin (not completed until EXORTEST is at 4.5.0.0) |

Microsoft Services: -

|  |  |
| --- | --- |
| Shutdown order | Oracle Nodemanager (sewexorlive)  Oracle AdminServer (fmfr)  Oracle Process Manager (fmfr) |
| Startup order | Oracle Process Manager (fmfr)  Oracle AdminServer (fmfr)  Oracle Nodemanager (sewexorlive) |

Note on services: Sometimes the “servers” running in the WLS for forms/reports/disco/DADs do not start automatically when the server starts. First check that the three services above are running. Then run the Oracle WLS Console shortcut on the desktop and log in as weblogic/wls\_admin1 (please note that these consoles take time to come up after the server has started). In the Domain Structure on the left, open Environment (under fmfr) and select Servers. Check that the four "servers" here (AdminServer(admin), WLS\_DISCO, WLS\_FORMS, WLS\_REPORTS) are running, and if not, select the Control tab card at the top, tick the “servers”, and click Start. This can take some time - click the Refresh (two arrows) and the form will refresh constantly (providing IE is running in compatibility mode).

Tests carried out against the infrastructure and installation: -

|  |  |
| --- | --- |
| Test URLs for forms… | |
| Live | http://sewexorlive:9001/forms/frmservlet?config=exorlive |
| Test | http://sewexorlive:9001/forms/frmservlet?config=exor\_test (not completed until test present) |
| Oracle test form | http://sewexorlive:9001/forms/frmservlet |

* Forms connects to the Exor forms configs and to the oracle test form
* Console and EM are running and are stable post restart
* All WLS servers start up post restart (and can be restarted without error)
* Telnets to ports 9001, 9002, and 9003 are successful from another machine (the desktop provided for RDP), proving that the server is listening on the WLS\_forms/reports/disco ports

IM4 setup: -

|  |  |
| --- | --- |
| Framework | C:\oracle\product\middleware\instance\fmfr\config\OHS\ohs1 \mod\_plsql\im4\_framework\_4500 |
| Dads.conf | C:\oracle\product\middleware\instance\fmfr\config\OHS\ohs1 \mod\_plsql\dads.conf |

Deviations from Bentley written procedure: -

* In the default config I have left the parameter "form" as test.fmx for testing purposes, and have therefore added form=hig1807.fmx to the exorlive and exor\_test configs as non-inherited
* Changed the machine's nodemanager listen type to be "plain" and not SSL (plus edits to c:\oracle\product\middleware\oracle\_wls\common\nodemanager\nodemanager.properties) to enable WLS servers to auto start

## Map Server (Not Required)

There is no requirement to install a 11g WLS map server at South East Water.

## Web Service Server SEWEXORWEB

Installation: -

|  |  |
| --- | --- |
| Bentley OneDoc section references | 4.1, 4.2, 4.5, 5.2, 5.3.2 |
| Java SDK install location | C:\java\jdk1.6.0\_29 |
| Oracle base install location | C:\oracle\product\middleware |
| Installed versions | 10.3.5, upgraded to 11.1.1.5.0 |
| Weblogic server path | C:\oracle\product\middleware\oracle\_wls |

Oracle domain information: -

|  |  |
| --- | --- |
| Username | weblogic |
| Password | wls\_admin1 |
| Domain | fmsoa |
| Location | c:\oracle\product\middleware\user\_projects\domains & \applications |

SOA Specific notes: -

|  |  |
| --- | --- |
| “Prefix” | TMA |
| Schema password (all schemas) | soa\_admin1 |
| 11.1.1.5.0 install directory | oracle\_soa |

URLs for management web pages: -

|  |  |
| --- | --- |
| Console | http://sewexorweb:7001/console |
| Enterprise Manager | http://sewexorweb:7001/em |

Configured ports: -

|  |  |
| --- | --- |
| WLS\_SOA (web services) | 7778 |
| Consoles | 7001 |

**Please note**: the web service is currently listening on port 7778, so inbound connections via the SEW firewall will need to port translate from the EToN specified standard of port 80, to this 7778 port. 7778 can be changed to 80 or any other port if required.

Web service end points: -

|  |  |
| --- | --- |
| EXORLIVE | http://sewexorweb:7778/EToN\_exorlive/EToNSoap12 |
| EXORTEST | http://sewexorweb:7778/EToN\_exortest/EToNSoap12 |

Services: -

|  |  |
| --- | --- |
| Location of scripts | c:\Stage\Bentley\_Webservice\_Admin\_Scripts |
| To create services… | installAdminSvc.bat and then installNodeMgrSvc.cmd |
| To remove services… | uninstallNodeMgrSvc.cmd and then uninstallAdminSvc.cmd |

Microsoft Services: -

|  |  |
| --- | --- |
| Shutdown order | Oracle Nodemanager (sewexorweb)  Oracle AdminServer (fmsoa) |
| Startup order | Oracle AdminServer (fmsoa)  Oracle Nodemanager (sewexorweb) |

Note on services: See this same section above for the app server – the same is relevant here for this WLS\_SOA server.

Tests carried out against the infrastructure and installation: -

* Console and EM are running and are stable post restart
* WLS\_SOA server starts automatically post restart
* Telnet to port 7778 from the web service works, proving that Oracle is listening on the WLS\_SOA port. A remote test from another machine was not possible as this server is in a DMZ with restricted port access

Deviations from Bentley written procedure: -

* Changed the machine's nodemanager listen type to be "plain" and not SSL (plus edits to c:\oracle\product\middleware\oracle\_wls\common\nodemanager\nodemanager.properties) to enable WLS servers to auto start

# Upgrade of EXORTEST to 4500

## Steps undertaken

* Copied 4400 install build from \\SEWSNODEXOR01\c$\exor\Exorlive to c:\exor\Exorlive on SEWEXORLIVE
* Installed 4500 Build on top of c:\exor\Exorlive on SEWEXORLIVE
* Applied remaining patches for 4400 into EXORTEST – ignored patches which were binaries only, mapviewer, and IM4 as these are all on the app tier. TMA 4400 fixes 1, 4, and 5 were already patched
* @EXORTEST: Carried out sys, system, and core upgrade
* @EXORTEST: Ran 4500 NM3, NSG, TMA
* @EXORTEST: Installed partition and composites for web services. URL for end point is: http://sewexorweb:7778/EToN\_exortest/EToNSoap12
* TMA pre-install tasks for Apex – copied objects from the old 10g server
* @EXORTEST: Run 4500 SWR, IMF
* #GF stopped at IM – need to process instructions…

# Application Configuration Information EXORTEST

Please note: because the test infrastructure is not yet available (see future requirements in section 2 above) , many functions are running on the live set-up and refer to “LIVE” even though the database is EXORTEST. These options will move over to using test when the upgrade to 4.5.0.0 is complete.

## Product Options

DADs (incomplete):-

|  |  |
| --- | --- |
| NM3WEBHOST | http://sewexorlive:8888 (NOTE: not yet configured) |
| NM3WEBPATH | /nm3\_exorlive |

Apex :-

|  |  |
| --- | --- |
| APEXURL | http://sewexorlive:8888/exortest\_apex/f?p= |

Help :-

|  |  |
| --- | --- |
| HTMLBASE | <http://sewexorlive:8888/webhelp> |
| Aliased location | C:\exor\Exorlive\help\webhelp/ |

Reports :-

|  |  |
| --- | --- |
| REPURL | http://sewexorlive:9002/reports/rwservlet?server=rep\_wls\_reports\_sewexorlive\_fmfr&envid=EXORLIVE |

## Apex

Apex Admin login :-

|  |  |
| --- | --- |
| **Account Username** | **Password** |
| admin | Exor01! |

URL :-

http://sewexorlive:8888/exortest\_apex/apex\_admin

# Status at End of Visit on 5th and 6th Feb

* 11g Weblogic application server for forms/reports/discoverer/DADS – built. NM3 DAD creation outstanding
* 11g WLS Weblogic SOA server for web services – built. Consideration needed on port for web services. SOA Partition for EXORTEST database not yet installed as completion of 4.5.0.0 upgrade is currently unfinished
* EXORTEST database upgraded to 4.5.0.0 for NM3 and NSG. Issues outstanding with regard to TMA workspace reports. Bentley to provide support remotely to progress the 4.5.0.0 test upgrade
* EXORTEST database is currently using “live” product options and paths (e.g. bin directories – see above for full list). This will be corrected once a) the final bin has been patched with all current 4.5.0.0 patches, and b) once the test app and web servers are available

*End of report*