**Deployment Procedures**

|  |  |
| --- | --- |
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| **Status / Version** | V1.0 |
| **Reference Code** | Central Inventory Management Release Note – ICC SOA |
| **Codebase** | [URL](https://selfridges-co.codebasehq.com/projects/integration-components/repositories/build/tree/head/Tags/CIM_CODE_DROP1_1.0/SOA/Release_1.0) |

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| **Version Control** | | | |
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# Purpose

This document describes the deployment steps of the Integration components.

# Interface List

|  |  |
| --- | --- |
| **Interface** | **Descriptions** |
| I0719 | Item Supplier & UDA Header to Product ODS |
| I0934 | Supplier Information from EBS to RMS |
| 971 | Product from RMS to Matflo Direct Supplier |
| I0931 | Currency Exchange Rate from EBS to RMS |
| I0401 | Product from RMS to Avery Berkel |

# Pre-requisite/Assumption

1. As a prerequisite, the target environment needs to be refreshed with Production version of middleware code and configurations before starting this deployment for CIM Drop1 as instructed in this document. Which essentially means that the target environment will be having following projects deployed:
   1. F&P 2..0
   2. ISIM Phase 1
   3. Board Phase 1
   4. F&P 2.1
   5. Order Promise
   6. FTP GRN code
   7. EBS Supplier View
2. CIM Drop 1 DB objects should be deployed from [codebase](https://selfridges-co.codebasehq.com/projects/integration-components/repositories/build/tree/head/Tags/CIM_CODE_DROP1_1.0/Database/Release_1.0/XXSLFODI) prior to start of SOA deployment as instructed in this document.
3. As a prerequisite, ICC Core components (Error Handling API, Notification and Audit framework service) should already be deployed on Target environment before starting this deployment for CIM Drop1 as instructed in this document.

If not available, follow the deployment steps given in below release note.

Note: Document is created based on single SOA managed servers. Please create resources for each SOA managed servers.

# SOA Deployment

## Configuration of JMS Artefacts

**Note**: Please ignore if SOAJMSServer\_auto\_1, SoaSubDeployment, SOAJMSModule ,RibAqJmsModule already present otherwise create following below steps.

1. Login to the Weblogic Console of the environment (WEBLOGIC\_CONSOLE in Environment section)
2. Create JMS resources in WebLogic Console

Refer [Admin Guide](#_Admin_Guide) document to see how to create JMS resources.

* Create the JMS Server: SOAJMSServer\_auto\_1
* Create the JMS Persistence Store: SOAJMS*FileStore\_auto\_1*
* Create the JMS Sub deployment: SoaSubDeployment
* Create the JMS Module: SOAJMSModule
* Creation of *Uniform Distributed Queue* as specified in below table
* Creation of Connection factory as specified in below table

**JMS Artefacts**

**Note:** Please ignore if the below JMS resource are present otherwise create the JMS resources.

| **JMS Module** | **JMS Resource** | **JNDI Name** | **Type** | **Sub Deployment** | **Target** |
| --- | --- | --- | --- | --- | --- |
| SOAJMSModule | AveryBerkelItemJMSQueueV1 | jms/AveryBerkelItemJMSQueueV1 | Distributed Queue | SoaSubDeployment | SOAJMSServer\_auto\_1 |
| SOAJMSModule | [AveryBerkelItemLocJMSQueueV1](https://ushe3osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&DispatcherPortletperspective=configuration-page&_pageLabel=DispatcherPage&DispatcherPortlethandle=com.bea.console.handles.JMXHandle%28%22com.bea%3AName%3DAveryBerkelItemLocJMSQueueV1%2CType%3Dweblogic.j2ee.descriptor.wl.QueueBean%2CParent%3D%5Bsoa_domain%5D%2FJMSSystemResources%5BSOAJMSModule%5D%2CPath%3DJMSResource%5BSOAJMSModule%5D%2FQueues%5BAveryBerkelItemLocJMSQueueV1%5D%22%29) | jms/AveryBerkelItemLocJMSQueueV1 | Distributed Queue | SoaSubDeployment | SOAJMSServer\_auto\_1 |
| SOAJMSModule | [AveryBerkelXACF](https://ushe3osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&DispatcherPortletperspective=configuration-page&_pageLabel=DispatcherPage&DispatcherPortlethandle=com.bea.console.handles.JMXHandle%28%22com.bea%3AName%3DAveryBerkelXACF%2CType%3Dweblogic.j2ee.descriptor.wl.JMSConnectionFactoryBean%2CParent%3D%5Bsoa_domain%5D%2FJMSSystemResources%5BSOAJMSModule%5D%2CPath%3DJMSResource%5BSOAJMSModule%5D%2FConnectionFactories%5BAveryBerkelXACF%5D%22%29) | jms/AveryBerkelXACF | Connection Factory | Default Targeting | soa\_cluster |
| SOAJMSModule | MatfloDirectItemReqJMSQueueV1 | jms/MatfloDirectItemReqJMSQueueV1 | Distributed Queue | SoaSubDeployment | SOAJMSServer\_auto\_1 |
| SOAJMSModule | [MatfloDirectXACF](https://ushe2osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&DispatcherPortletperspective=configuration-page&_pageLabel=DispatcherPage&DispatcherPortlethandle=com.bea.console.handles.JMXHandle%28%22com.bea%3AName%3DMatfloDirectXACF%2CType%3Dweblogic.j2ee.descriptor.wl.JMSConnectionFactoryBean%2CParent%3D%5Bsoa_domain%5D%2FJMSSystemResources%5BCIMJMSModule%5D%2CPath%3DJMSResource%5BCIMJMSModule%5D%2FConnectionFactories%5BMatfloDirectXACF%5D%22%29) | jms/MatfloDirectXACF | Connection Factory | Default Targeting | soa\_cluster |
| SOAJMSModule | RJPOSItemLocJMSQueueV1 | jms/RJPOSItemLocJMSQueueV1 | Distribution Queue | SoaSubDeployment | SOAJMSServer\_auto\_1 |
| SOAJMSModule | RJPOSXACF | jms/RJPOSXACF | Connection Factory | Default Targeting | soa\_cluster |
| SOAJMSModule | RMSCurrRateJMSQueueV1 | jms/RMSCurrRateJMSQueueV1 | Distribution Queue | SoaSubDeployment | SOAJMSServer\_auto\_1 |
| SOAJMSModule | RMSXACF | jms/RMSXACF | Connection Factory | Default Targeting | soa\_cluster |
| SOAJMSModule | SupplierInfoJMSQueueV1 | jms/SupplierInfoJMSQueueV1 | Distribution Queue | SoaSubDeployment | SOAJMSServer\_auto\_1 |
| SOAJMSModule | SuppliersXACF | jms/SuppliersXACF | Connection Factory | Default Targeting | soa\_cluster |

1. Creation of Outbound Connection Pools in JMS Adapter for each of the Connection Factory. Create only if they are not already available.

Refer [Admin Guide](#_Admin_Guide) document to see how to create JMS Adapter connection.

| **JMS Adapter connection** | **JNDI Name** | **IsTopic** |
| --- | --- | --- |
| eis/wlsjms/AveryBerkelXACF | jms/AveryBerkelXACF | false |
| eis/jms/MatfloDirectXACF | jms/MatfloDirectXACF | false |
| eis/wlsjms/RJPOSXACF | jms/RJPOSXACF | false |
| eis/wlsjms/RMSXACF | jms/RMSXACF | false |
| eis/wlsjms/SuppliersXACF | jms/SuppliersXACF | false |

## Configuration of DB Artefacts

**Note**: Please ignore if the below data sources and connection are present otherwise create the below as below:

1. Create Data Source in WebLogic Console if not already present. Use actual Environment Variable described in Environment excel supplied.

Refer [Admin Guide](#_Admin_Guide) document to see how to create datasource.

| **ENVIRONMENT VARIABLE** | **Data Source Name** | **JNDI Name** | **Database** | **Schema Name** | **DB User** | **Driver Type** | **XA / Non XA** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| MSTG\_DATASOURCE | [MSTG](https://dshe7osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&_pageLabel=JdbcDatasourcesJDBCDataSourceDispatcherPage&JdbcDatasourcesJDBCDataSourceDispatcherPortlethandle=com.bea.console.handles.JMXHandle%28%22com.bea%3AName%3DINTSTGDataSource%2CType%3Dweblogic.j2ee.descriptor.wl.JDBCDataSourceBean%2CParent%3D%5Bsoa_domain%5D%2FJDBCSystemResources%5BINTSTGDataSource%5D%2CPath%3DJDBCResource%22%29) | jdbc/oracle/MSTG | MOM DAS | SLF\_MSTG | SLF\_MSTG | Oracle Thin Driver | XA |
| MOM\_DATASOURCE | MOM | jdbc/oracle/MOM | MOM | SLF\_EAI | SLF\_EAI | Oracle Thin Driver | XA |
| INTSTG\_DATASOURCE | [INTSTGDataSource](https://dshe7osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&_pageLabel=JdbcDatasourcesJDBCDataSourceDispatcherPage&JdbcDatasourcesJDBCDataSourceDispatcherPortlethandle=com.bea.console.handles.JMXHandle%28%22com.bea%3AName%3DINTSTGDataSource%2CType%3Dweblogic.j2ee.descriptor.wl.JDBCDataSourceBean%2CParent%3D%5Bsoa_domain%5D%2FJDBCSystemResources%5BINTSTGDataSource%5D%2CPath%3DJDBCResource%22%29) | jdbc/oracle/INTSTG | MOM DAS | XXSLF\_INTSTG | XXSLF\_INTSTG | Oracle Thin Driver | XA |
| EBS\_DATASOURCE | EBS | jdbc/oracle/EBS | EBS | XXSLF | XXSLFSOA | Oracle Thin Driver | XA |

1. Create DB Connection Pool in WebLogic Console if not already present

Refer [Admin Guide](#_Admin_Guide) document to see how to create DB Adapter connection.

| **DB Adapter connection** | **JNDI Name** |
| --- | --- |
| [eis/DB/MSTG](https://ushe3osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&_pageLabel=ConnectorOutboundConnectionConfigPropertiesPage&ConnectorOutboundConnectionConfigPropertiesPortlethandle=com.bea.console.handles.ModuleDescriptorHandle%28%22com.bea%3AName%3DDbAdapter%2CType%3DAppDeployment%3BDbAdapter.rar%3Bjavax.resource.cci.ConnectionFactory%3Beis%2FDB%2FMSTG%3BConnectionInstanceBean%3BCONNECTOR%22%29) | jdbc/oracle/MSTG |
| [eis/DB/MOM](https://ushe3osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&_pageLabel=ConnectorOutboundConnectionConfigPropertiesPage&ConnectorOutboundConnectionConfigPropertiesPortlethandle=com.bea.console.handles.ModuleDescriptorHandle%28%22com.bea%3AName%3DDbAdapter%2CType%3DAppDeployment%3BDbAdapter.rar%3Bjavax.resource.cci.ConnectionFactory%3Beis%2FDB%2FMOM%3BConnectionInstanceBean%3BCONNECTOR%22%29) | jdbc/oracle/MOM |
| [eis/DB/INTSTG](https://dshe5osoaselfdev.oracleoutsourcing.com/console/console.portal?_nfpb=true&_pageLabel=ConnectorOutboundConnectionConfigPropertiesPage&ConnectorOutboundConnectionConfigPropertiesPortlethandle=com.bea.console.handles.ModuleDescriptorHandle%28%22com.bea%3AName%3DDbAdapter%2CType%3DAppDeployment%3BDbAdapter.rar%3Bjavax.resource.cci.ConnectionFactory%3Beis%2FDB%2FINTSTG%3BConnectionInstanceBean%3BCONNECTOR%22%29) | jdbc/oracle/INTSTG |
| eis/DB/EBS | jdbc/oracle/EBS |

## Cross Domain Configuration



**Note:** After cross-domain configuration completed, restart the SOA and ODI server completely (Admin & Managed servers) to reflect the changes.

## Create User in Weblogic Security realm

Create below users in weblogic security realm if not already available. If the user is available then share the password which will be required to configure in Automic.

1. Following user will be used by Automic to trigger SOA service.

User Name: AutomicSoaUser

Password: Aut0m!cUs3rS)@

Group: AppTesters

1. Following user will be used by Automic to trigger MFT services.

User Name: AutomicMftUser

Password: Aut0m!cUs3rS0a

Group: AppTesters

**Note:** This user information needs to be configured in automic.

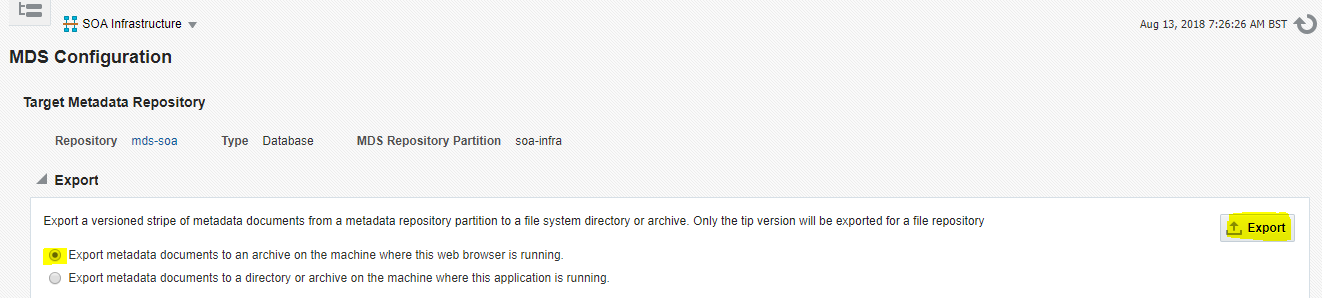
## MDS Deployment

For SOA services deployment, first import the MDS (metadata) to SOA servers and then deploy the services.

### MDS backup

Take backup of existing MDS from EM Console by following below steps.

SOA Infrastructure 🡪 Administration 🡪 MDS Configuration🡪 Export



And rename the exported zip file as “MDS\_1”.

**Note:** The backups taken will be used in case of any roll back

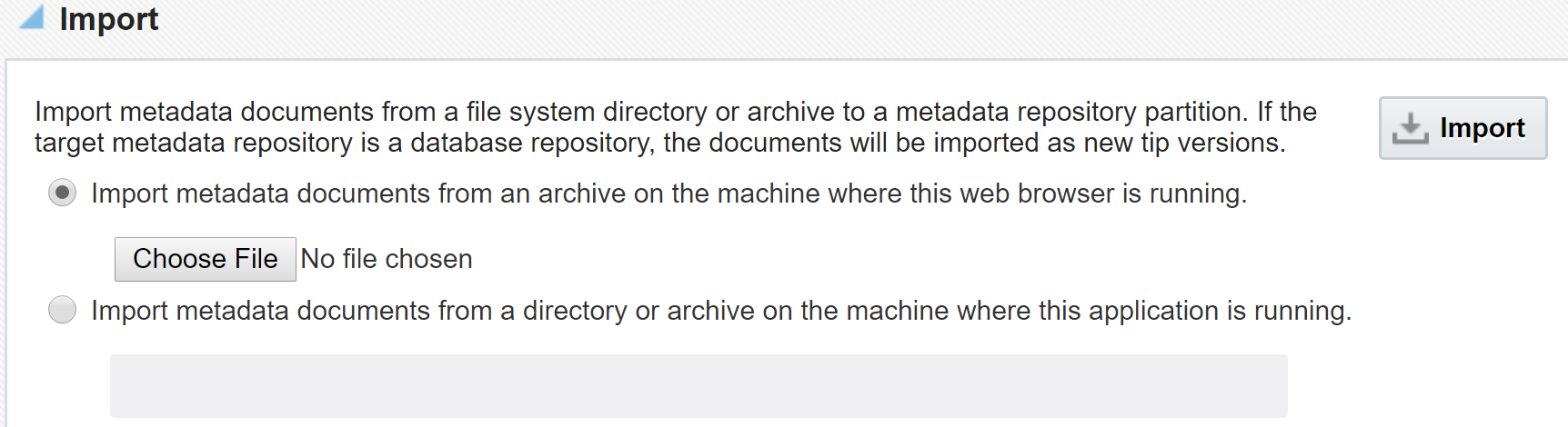
### MDS Deployment

* Get the environment specific MDS artefacts from the [codebase](https://selfridges-co.codebasehq.com/projects/integration-components/repositories/build/tree/head/Tags/CIM_CODE_DROP1_1.0/SOA/Release_1.0/MDS)

|  |  |
| --- | --- |
| SOA Target Environment | MDS File Name |
| USHE2O | apps\_USHE20.zip |
| DSHE6O | apps\_DSHE60.zip |
| USHE3O | apps\_USHE30.zip |
| TSHE4O | apps\_TSHE4O.zip |
| PSHE8O | apps\_PSHE8O.zip |

* Now navigate to MDS Configuration from soa-infra

**SOA Infrastructure 🡪 Administration 🡪 MDS Configuration**



1. Click on “Choose File” to select the apps\_XXXXNN.zip file from the local machine then click on “import”.

Verify that a successful import message appears after successfully importing the file.

## Deployment of SOA composites

### SOA service Backup

1. Login to EM and go to the below location

SOA Infrastructure-> soa- infra->SOA Folder -> Deployed Composites

1. Search the composites from the table below and export the jar in “SOA\_Backup” folder.

| **SL. No.** | **Composite Name** | **Version** | **SOA Folder** |
| --- | --- | --- | --- |
| 1 | SyncItemAveryBerkelProvABCSImpl | 1.0 | item |
| 2 | SyncItemAveryBerkelProvDBAdapter | 1.0 | item |
| 3 | SyncItemRMSReqJMSAdapter | default | item |
| 4 | SyncItemRMSReqABCSImpl | default | item |
| 5 | ItemEBS | default | item |
| 6 | ItemLocEBS | default | itemloc |
| 7 | SyncItemLocRMSReqJMSAdapter | 2.1 | itemloc |
| 8 | SyncItemLocAveryBerkelProvABCSImpl | 1.0 | Itemloc |
| 9 | CoreStagingUDAService | 1.0 | im2 |
| 10 | CoreStagingItemService | 1.1 | im2 |
| 11 | SyncSupplierRMSReqJMSAdapter | 2.0 | supplier |
| 12 | SupplierEBS | 2.0 | supplier |

### Deployment of SOA composites

Refer the below tables for the deployment of the SOA composites along with their configuration plans.

Note: The “[**https://hostname:port**](https://hostname:port)” the hostname and port details in the configplan should be updated with SOA load balancer host and port as per the target environment where the services to be deployed. Use actual Environment Variable described in Environment excel supplied.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SL. No.** | **Composite Name** | **Version** | **Partition** | **JAR file Name** | **Configuration Plan** | **Is Default** |
| 1 | SyncItemMatfloProvDBAdapter | 1.0 | cim | sca\_SyncItemMatfloProvDBAdapter.jar | SyncItemMatfloProvDBAdapter\_cfgplan.xml | Yes |
| 2 | SyncItemMatfloProvABCSImpl | 1.0 | cim | sca\_SyncItemMatfloProvABCSImpl.jar | SyncItemMatfloProvABCSImpl\_cfgplan.xml | Yes |
| 3 | SyncItemLocRJPOSPriceProvDBAdapter | 1.0 | cim | sca\_SyncItemLocRJPOSPriceProvDBAdapter.jar | SyncItemLocRJPOSPriceProvDBAdapter\_cfgplan.xml | Yes |
| 4 | SyncItemLocRJPOSPriceProvABCSImpl | 1.0 | cim | sca\_SyncItemLocRJPOSPriceProvABCSImpl.jar | SyncItemLocRJPOSPriceProvABCSImpl\_cfgplan.xml | Yes |
| 5 | SyncCurrRateRMSProvJMSAdapter | 1.0 | cim | sca\_SyncCurrRateRMSProvJMSAdapter.jar | SyncCurrRateRMSProvJMSAdapter\_cfgplan.xml | Yes |
| 6 | SyncCurrRateRMSProvABCSImpl | 1.0 | cim | sca\_SyncCurrRateRMSProvABCSImpl.jar | SyncCurrRateRMSProvABCSImpl\_cfgplan.xml | Yes |
| 7 | SyncSupplierEBSReqService | 1.0 | cim | sca\_SyncSupplierEBSReqService.jar | SyncSupplierEBSReqService \_cfgplan.xml | Yes |
| 8 | SyncSupplierRMSProvService | 1.0 | cim | sca\_SyncSupplierRMSProvService.jar | SyncSupplierRMSProvService \_cfgplan.xml | Yes |
| 9 | CoreStagingUDAService | 1.1 | im2 | sca\_CoreStagingUDAService.jar | CoreStagingUDAService\_cfgplan.xml | Yes |
| 10 | CoreStagingItemService | 1.2 | im2 | sca\_CoreStagingItemService.jar | CoreStagingItemService\_cfgplan.xml | Yes |
| 11 | ItemEBS | 3.1 | item | sca\_ItemEBS.jar | ItemEBS\_cfgplan.xml | Yes |
| 12 | SyncItemRMSReqABCSImpl | 2.1 | item | sca\_SyncItemRMSReqABCSImpl.jar | SyncItemRMSReqABCSImpl\_cfgplan.xml | Yes |
| 13 | SyncItemRMSReqJMSAdapter | 3.1 | item | sca\_SyncItemRMSReqJMSAdapter.jar | SyncItemRMSReqJMSAdapter\_cfgplan.xml | Yes |
| 14 | SyncItemAveryBerkelProvDBAdapter | 1.1 | item | sca\_SyncItemAveryBerkelProvDBAdapter.jar | SyncItemAveryBerkelProvDBAdapter\_cfgplan.xml | Yes |
| 15 | SyncItemAveryBerkelProvABCSImpl | 1.1 | item | sca\_SyncItemAveryBerkelProvABCSImpl.jar | SyncItemAveryBerkelProvABCSImpl\_cfgplan.xml | Yes |
| 16 | SyncItemLocAveryBerkelProvABCSImpl | 1.1 | itemloc | sca\_SyncItemLocAveryBerkelProvABCSImpl.jar | SyncItemLocAveryBerkelProvABCSImpl\_cfgplan.xml | Yes |
| 17 | ItemLocEBS | 2.1 | itemloc | sca\_ItemLocEBS.jar | ItemLocEBS\_cfgplan.xml | Yes |
| 18 | SyncItemLocRMSReqJMSAdapter | 2.2 | itemloc | sca\_SyncItemLocRMSReqJMSAdapter.jar | SyncItemLocRMSReqJMSAdapter\_cfgplan.xml | Yes |
| 19 | SupplierEBS | 2.1 | supplier | sca\_SupplierEBS.jar | SupplierEBS\_cfgplan.xml | Yes |
| 20 | SyncSupplierRMSReqJMSAdapter | 2.1 | supplier | sca\_SyncSupplierRMSReqJMSAdapter.jar | SyncSupplierRMSReqJMSAdapter\_cfgplan.xml | Yes |

**Note: After the SOA deployment is completed, bounce SOA Managed server on node2 (Applicable for a clustered environment, as per feedback received from OFS during PreProd deployment for ISIM Phase1)**

## Post-Deployment Steps

* Please verify that the following configurations are present post deployment.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SL. No.** | **Composite Name** | **Version** | **Partition** | **Default (Yes/No)** | **State (on/off)** |
| 1 | SyncItemMatfloProvDBAdapter | 1.0 | cim | Yes | On |
| 2 | SyncItemMatfloProvABCSImpl | 1.0 | cim | Yes | On |
| 3 | SyncItemLocRJPOSPriceProvDBAdapter | 1.0 | cim | Yes | On |
| 4 | SyncItemLocRJPOSPriceProvABCSImpl | 1.0 | cim | Yes | On |
| 5 | SyncCurrRateRMSProvJMSAdapter | 1.0 | cim | Yes | On |
| 6 | SyncCurrRateRMSProvABCSImpl | 1.0 | cim | Yes | On |
| 7 | SyncSupplierEBSReqService | 1.0 | cim | Yes | On |
| 8 | SyncSupplierRMSProvService | 1.0 | cim | Yes | On |
| 9 | CoreStagingUDAService | 1.1 | im2 | Yes | On |
| 10 | CoreStagingItemService | 1.2 | im2 | Yes | On |
| 11 | ItemEBS | 3.1 | item | Yes | On |
| 12 | SyncItemRMSReqABCSImpl | 2.1 | item | Yes | On |
| 13 | SyncItemRMSReqJMSAdapter | 3.1 | item | Yes | On |
| 14 | SyncItemAveryBerkelProvDBAdapter | 1.1 | item | Yes | On |
| 15 | SyncItemAveryBerkelProvABCSImpl | 1.1 | item | Yes | On |
| 16 | SyncItemLocAveryBerkelProvABCSImpl | 1.1 | itemloc | Yes | On |
| 17 | ItemLocEBS | 2.1 | itemloc | Yes | On |
| 18 | SyncItemLocRMSReqJMSAdapter | 2.2 | itemloc | Yes | On |
| 19 | SupplierEBS | 2.1 | supplier | Yes | On |
| 20 | SyncSupplierRMSReqJMSAdapter | 2.1 | supplier | Yes | On |

## Rollback Steps

1. Login to EM Console and go to the respective partition.
2. Un-deploy all SOA composites mentioned above in Section **4.7.**
3. MDS Rollback: Deploy the MDS back up [MDS\_1.zip] taken at step 4.5.1
4. Deploy the SOA Composites those are taken back up at step 4.6.1

## Admin Guide



# Server restart

Perform the rolling restart of SOA managed server(s) after the deployment.

**< End of Document >**