

**MQSeries Adapter Offering – J.D. Edwards
World 7.3 template
Version 1.0**

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This edition applies to Version 1.0 of *MQSeries Adapter Offering – J.D. Edwards World 7.3 template* and to all subsequent releases and modifications unless otherwise indicated in new editions.

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Summary of Amendments

| Date | Changes |
|----------------|-----------------|
| 9 January 2002 | Initial release |

Preface

This SupportPac contains two integration templates for J. D. Edwards World. The first is the export process of Inventory summary information data. This is accomplished by retrieving data from files F41021 and F4102, and mapping this information to OAGIS standard XML message and placing this message on an MQSeries queue. The second template is the export process of Item Branch Master information data. Data is retrieved from files F4102 and F4101, and mapped to OAGIS standard XML message and the message placed on an MQSeries queue.

Chapter 1. Overview of MQSeries Adapter Templates

JDE_InventorySA (Inventory Balance)

Direction of data flow

J.D. Edwards to OAG message

The process of exporting Inventory Balance information from J.D. Edwards to an OAG message is comprised of programs that process data that is retrieved from JDE files. The process of generating an OAG standard XML message and putting it on a MQSeries queue is accomplished by a MQAO generated source adapter, and the MQSeries Adapter Kernel. The name of the MQSeries queue where the message is to be placed is retrieved from file aqmconfig.xml. Both the source adapter and MQAK runtime modules are written in Java. Thus, the IFS (Intergrated File System) on the AS/400 must be utilized.

The following is a brief description of the programs involved.

1. **WAO INVBAL** - This RPG program retrieves data from files F41021 and F4102. From JDE inventory file(F41021) the quantities are accumulated by item number/location. The summary totals and item descriptive data from file F4102 are assembled into a OAG standard XML message that is placed on data queue WAO_INVBAL, which is located in library WAOAA41.
2. **JDE InventoryExport** - This is a daemon whose function is to monitor the AS/400 data queue whose name is obtained from properties file JDE_InventoryExport.properties. As messages are retrieved from this queue, they are passed to the source adapter JDE_InventorySASimple
3. **JDE InventorySASimple** - This MQAO generated Java source adapter maps JDEdwards fields to OAG 068_sync_inventory_005.dtd fields and than places the message on a MQSeries queue. The MQSeries queue name is obtained from aqmconfig.xml file

JDE_ItemSA (Item Branch Master)

Direction of data flow

J.D. Edwards to OAG message

The process of exporting Item Branch Master information from J.D. Edwards to an OAG message is comprised of programs that process data that is retrieved from JDE files. The process of generating an OAG standard XML message and putting it on an MQSeries queue is accomplished by a MQAO generated source adapter and the MQSeries Adapter Kernel. The name of the MQSeries queue where the message is to be placed is retrieved from file aqmconfig.xml. Both the source adapter and MQAK runtime modules are written in Java. Thus, the IFS (Intergrated File System) on the AS/400 must be utilized.

The following is a brief description of the programs involved.

1. **WAO ITMMST** - The function of this RPG program is to retrieve data from files F4101 and F4102, than create a XML message that is placed on data queue WAO_ITMMST that located in library WAOAA41. There are three input parameters that are required when calling this program. These parameters contain key information about the Item that is to be exported.

parameter one: branch code (JDE field IBMCU).

parameter two: short item number (JDE field IBITM)

parameter three: action code (literal 'A' for addition)

2. **JDE ItemMasterExport** - This is a daemon whose function is to monitor the AS/400 data queue whose name is obtained from properties file JDE_ItemMasterExport.properties. As messages are retrieved from this queue, they are passed to the source adapter
3. **JDE ItemSASimple** - This MQAO generated Java source adapter maps JDEdwards fields to OAG 061_sync_item_005.dtd fields and than places the message on a MQSeries queue. The MQSeries queue name is obtained from aqmconfig.xml file

Chapter 2. Installation

Overview

The install procedure is designed to create an MQSeries Adapter Offering environment on the AS/400 with minimal intervention. The changes that are required by the user are to modify a CL program that will change the library list to include J. D. Edwards user libraries and change the MQSeries queue names in the aqmconfig.xml file.

Processing Steps

1. Create the following user profile on AS/400.
Note: password MUST be **IBM01**

CRTUSRPRF USRPRF(WAOAA41) PASSWORD(IBM01) USRCLS(*SECADM)
Note: IBM(zero)1
2. Unzip file aa41.zip to a drive of your choice.
The root directory that is generated is **SupportPacAA41**
3. Edit file aqmconfig.xml that is located in directory **SupportPacAA41**. Change queue names in ApplicationID "OUTBOUND" element to correspond to appropriate MQSeries queue names that have been defined on the AS/400.
4. Run the install program with one parameter that contains the IP address or host name of the AS/400:

Install.bat {IP address of AS/400}
5. After install is complete, log onto AS/400 with user ID WAOAA41
6. Edit CL program WAO_SETENV/WAOAA41 and modify CHGLIBL command to include JDE libraries.
7. Compile the program.
8. After successful compilation of program **WAO_SETENV**, change user profile **WAOAA41** to include initial program to call **WAO_SETENV**:

CHGUSRPRF USRPRF(WAOAA41) USRCLS(*SECADM)
INLPGM(WAOAA41/WAO_SETENV)
9. Signoff
10. Installation is complete

Chapter 3. Installation Verification

JDE_InventorySA (Inventory Balance)

- Signon AS/400 with user WAOAA41
- From command line enter **qsh** This will start a Qshell environment.
- Enter: **runinventory.sh** This will invoke the inventory daemon JDE_InventoryExport
- Establish a second AS/400 session. Signon as a JDEdwards user
- Add to library list library WAOAA41
- From command CALL WAO_INVBAL. This program will start the export process for inventory balances
- XML messages should appear on the target system MQSeries queue

JDE_ItemSA (Item Branch Master)

- Signon AS/400 with user WAOAA41
- From command line enter **qsh** This will start a Qshell environment.
- Enter: **runitemmaster.sh** This will invoke the item master daemon JDE_ItemMasterExport
- Establish a second AS/400 session. Signon as a JDEdwards user
- Add to library list library WAOAA41
- From command line
CALL PGM(WAO_ITMMST) PARM('parm1' 'parm2' 'parm3')
the parm(s) must contain valid codes from file F4102.
parm1 = branch parm2 = short item number parm3 = 'A'
- To insert a trigger into JDE program P41026 that will invoke the export process, make the following modifications. After update to file F4102 occurs, add the sample code following code:

```

** Existing JDE code
CSR      *IN21   IFEQ '1'
CSR      MOVEL'WRITE'      @@OPER
CSR      MOVEL'IBKY01     '@@KLST
CSR      Z-ADD2           @@KNUM
CSR      CALL 'XF4102 '
C*
CSR      PARM              PS@@@1
CSR      PARM              I4102
C*
C* New Trigger code
C      MOVEL'WAO_I'       QQPGM  10
C      MOVE 'MMST'       QQPGM
C      CALL QQPGM
C      PARM              IBMCU
C      PARM              IBITM
C      PARM 'A'          QQACTN  1

```

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