

PeopleSoft®

EnterpriseOne Xe Adapter for MQSeries Configuration Guide (AS/400v2) PeopleBook

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Introduction

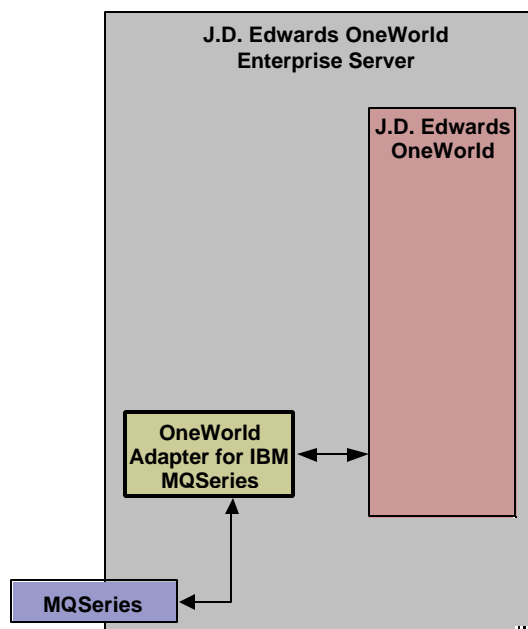
The OneWorld Adapter for MQSeries allows you to connect any e-storefront or other application to OneWorld by sending and receiving messages through IBM's MQSeries messaging system. The adapter monitors an inbound queue for Request/Reply messages, performs the requested services, and places the results on outbound queues. It also monitors OneWorld for certain activities and publishes the results in an outbound message queue. All messages transported through MQSeries are in the form of XML documents.

The purpose of this document is to make you successful with the configuration and operation of the adapter. There is a separate document available for a systems developer that explains the design of the adapter, the formats of the documents, and those tasks necessary to create, modify, and process the XML documents.

This adapter was originally developed to provide a connection between OneWorld and the IBM storefront products WebSphere Commerce Suite and Commerce Integrator. However, the adapter design is such that it avoids any program-level dependencies on the Commerce Suite and Commerce Integrator suite of products. The OneWorld Adapter for MQSeries is a separate product from that suite that can be licensed and installed independently. It can be used to connect OneWorld with any front end that can implement the IBM MQSeries messaging protocols, and provide/consume XML documents in the prescribed formats. The OneWorld Adapter for MQSeries is simply designed to export and import XML documents through MQSeries in the prescribed formats.

The following illustration shows the OneWorld Enterprise Server with the MQSeries adapter included.

Diagram: OneWorld Adapter for MQSeries on the OneWorld Enterprise Server



About This Document

Due to the ever-changing nature of Web products in general, the content design is single sourced where practical and possible. This means that the document is primarily designed for “online” use. However, some format deliverables are better suited for online delivery than others.

The architecture of this document is designed to directly present you with only the information you most likely need to perform an installation of the J.D. Edwards Storefront product. However, additional information is presented in the form URLs and embedded documents in the form of Word documents and PDF documents.

Your J.D. Edwards Storefront CD should contain two forms of these Installation Instructions:

- **Microsoft Word source document.** Since this is the source application in which the document was authored, it is the most fully featured of the delivered document structures. All hyperlinks are active and all embedded documents (either Word or PDF) are directly accessible by double-clicking on the icons.
- **PDF version of the Word source document.** In this version of the document, the embedded URLs, hyperlinks, and documents are visible but not live or accessible by clicking. For URLs, you will need to copy them from Acrobat and into your browser. For hyperlinks, there is no workaround other than using the Find function within Adobe Acrobat. For embedded documents, you will need to note the document name and manually locate and open the document. These embedded document attachments are included as separate files in the root of the J.D. Edwards Storefront CD.

Set Up MQSeries Queues

MQSeries is a queue messaging system that requires a sender and receiver relationship necessary for queue communications. One side of MQSeries is installed on the OneWorld Enterprise Server while the related side is installed on another physical or logical machine. The setup on the OneWorld server enables OneWorld to receive inbound messages from an e-storefront application and also to place outbound messages into a queue for processing by an e-storefront application. Refer to the applicable IBM documentation for instructions on installing MQSeries on machines other than Commerce Integrator Servers.

The procedures described in this section assume you have already installed the IBM product MQSeries onto your OneWorld Enterprise Server.

This section involves setting up MQSeries on the following machines:

- [OneWorld Enterprise Server](#) (inbound to OneWorld and outbound to storefront)
- [Non-OneWorld MQSeries Server](#) (inbound to storefront and outbound to OneWorld)
- [Communications Between the OneWorld Enterprise Server and the Non-OneWorld MQSeries Server](#)

Before You Begin

On your AS/400 system, you must remove QMQM from the system value QSYSLIBL. After that you must issue a subsystem call with a qualified library name, required because the subsystem must be up and running before you can proceed with any other queue manager instructions. The appropriate command is:

```
STRSBS QMQM/QMQM
```

Also, you must change your AS/400 user preferences using one of the following commands:

```
CHGUSRPRF USRPRF(ONEWORLD) GRPPRF(QMQMADM)
```

or

```
CHGUSRPRF USRPRF(ONEWORLD) SUPGRPPRF(QMQMADM)
```

OneWorld Enterprise Server (inbound to OneWorld and outbound to storefront)

This section describes the following MQSeries functions that you must perform on the OneWorld Enterprise Server:

- [Creating MQSeries Queue Manager](#)
- [Starting MQSeries Queue Manager](#)
- [Creating MQ local queues](#)
- [Creating a MQ remote queue](#)
- [Creating a MQ local sender channel](#)
- [Creating a MQ local receiver channel](#)
- [Grant authority to all queues and channels](#)
- [Reset a channel](#)

? To create the MQSeries Queue Manager

On the OneWorld Server, from the AS/400 Command Entry command line:

Create the MQ Series Queue Manager by issuing the following command:

```
CRTMQM MQMNAME(JDE_QMGR) TEXT('JD Edwards queue manager')
DFTQMGR(*YES)
```

? To start the MQSeries Queue Manager

On the OneWorld Server, from the command line:

Start the MQ Series Queue Manager by issuing the following command:

```
STRMQM MQMNAME(JDE_QMGR)
```

The display returns:

```
Ownership of object QXCSGLOBAL in QTEMP type *USRSPC changed.
Ownership of object QXCSGLOBAL in QTEMP type *USRSPC changed.
Ownership of object QXSX455240 in QMQMDATA type *USRQ changed.
Ownership of object QXSX455240 in QMQMDATA type *USRQ changed.
Ownership of object QMQMLOCAL in QTEMP type *USRSPC changed.
Ownership of object QMQMLOCAL in QTEMP type *USRSPC changed.
Ownership of object QXSA00021 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00021 in QMQMDATA type *USRSPC changed.
```

```

Ownership of object QXSA00022 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00022 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00023 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00024 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00024 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00025 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00025 in QMQMDATA type *USRSPC changed.
Ownership of object QXSZ00006 in QMQMDATA type *USRQ changed.
Ownership of object QXSZ00006 in QMQMDATA type *USRQ changed.
Ownership of object QXSA00026 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00026 in QMQMDATA type *USRSPC changed.
Ownership of object QXSZ00007 in QMQMDATA type *USRQ changed.
Ownership of object QXSZ00007 in QMQMDATA type *USRQ changed.
Ownership of object QXSB00005 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00027 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00027 in QMQMDATA type *USRSPC changed.
Ownership of object QXSZ00008 in QMQMDATA type *USRQ changed.
Ownership of object QXSZ00008 in QMQMDATA type *USRQ changed.
Ownership of object QXSA00028 in QMQMDATA type *USRSPC changed.
Ownership of object QXSA00028 in QMQMDATA type *USRSPC changed.
11 entries received from journal AMQAJRN in QUSRSYS.
Ownership of object QXLEQ00001 in QMQMDATA type *USRQ changed.
Ownership of object QXLEQ00001 in QMQMDATA type *USRQ changed.
Object QXSX455240 in QMQMDATA type *USRQ deleted.
Message Queue Manager started.

```

? To create MQ local queues

Tips and Techniques

The names of queues and channels in MQSeries are case-sensitive. Be sure and use all caps as specified in this document. You can specify any name for a queue or channel. However, it is important that the queue names you create match the queue names you specify in the jde.ini file on the Enterprise Server.

You must first create a default local queue as described in Step 1. The default queue is used for all the defaults when creating your live queues (listed in Step 2) that you create as described in Step 3.

On the OneWorld Server, from the command line:

1. Change the default local queue by issuing the following command:

```

CHGMQM QNAME(SYSTEM.DEFAULT.LOCAL.QUEUE) QTYPE(*LCL)
TEXT('Default local queue') PUTENBL(*YES) DFTPTY(9)
DFTMSGPST(*YES) PRCNAME(*NONE) TRGENBL(*NO) GETENBL(*YES)
SHARE(*YES) DFTSHARE(*YES) MSGDLYSEQ(*FIFO) HDNBKTCNT(*YES)
TRGTYPE(*NONE) TRGDEPTH(1) TRGMSGPTY(0) TRGDATA(*NONE)
RTNITV(999999999) MAXDEPTH(640000) MAXMSGLEN(4194304)
BKTTHLD(0) BKTQNAME(*NONE) INITQNAME(*NONE) USAGE(*NORMAL)
HIGHTHLD(100) LOWTHLD(0) FULLEVT(*YES) HIGHEVT(*YES)
LOWEVT(*YES) SRVITV(999999999) SRVEVT(*NONE) DISTLIST(*NO)

```

2. Create the following live local queues:

- INBOUND.Q
- SUCCESS.Q
- ERROR.Q
- DEFRES.Q
- OUTBOUND.Q.XMIT

3. Run the following MQSeries commands to create the above local queues:

```
CRTMQMQ QNAME(INBOUND.Q) QTYPE(*LCL)
TEXT('JD Edwards inbound queue')
PUTENBL(*YES) DFTPTY(9) DFTMSGPST(*YES)
```

```
CRTMQMQ QNAME(SUCCESS.Q) QTYPE(*LCL)
TEXT('JD Edwards success queue')
PUTENBL(*YES) DFTPTY(9) DFTMSGPST(*YES)
```

```
CRTMQMQ QNAME(ERROR.Q) QTYPE(*LCL)
TEXT('JD Edwards error queue')
PUTENBL(*YES) DFTPTY(9) DFTMSGPST(*YES)
```

```
CRTMQMQ QNAME(DEFRES.Q) QTYPE(*LCL)
TEXT('JD Edwards default response queue')
PUTENBL(*YES) DFTPTY(9) DFTMSGPST(*YES)
```

```
CRTMQMQ QNAME(OUTBOUND.Q.XMIT) QTYPE(*LCL)
TEXT('JD Edwards inbound queue')
PUTENBL(*YES) DFTPTY(9) DFTMSGPST(*YES)
USAGE(*TMQ)
```

? To create the MQ remote queue

Tips and Techniques

The names of queues and channels in MQSeries are case-sensitive. Be sure and use all caps as specified in this document. You can specify any name for a queue or channel. However, it is important that the queue names you create match the queue names you specify in the jde.ini file on the Enterprise Server.
--

You must first create a default remote queue as described in Step 1. The default queue is used for all the defaults when creating your live queues as described in Step 2.

On the OneWorld Server, from the command line:

1. Change the default remote queue by issuing the following command:

```
CHGMQM QNAME(SYSTEM.DEFAULT.REMOTE.QUEUE)
QTYPE(*RMT)
TEXT('Default remote queue') PUTENBL(*YES)
DFTPTY(9) DFTMSGPST(*YES) TMQNAME(*NONE)
RMTQNAME(' ') RMTQMNAME(' ')
```

2. Create the live remote queue by issuing the following command:

```
CRTMQMQ QNAME(OUTBOUND.Q) QTYPE(*RMT)
TEXT('One World out bound queue to NC system')
TMQNAME(OUTBOUND.Q.XMIT) RMTQNAME(ECE_IN2MQI)
RMTQMNAME(ECE_MQI_QMGR)
```

? To create a MQ local sender channel

Tips and Techniques

The names of queues and channels in MQSeries are case-sensitive. Be sure and use all caps as specified in this document. You can specify any name for a queue or channel.

You must first create a default local sender channel as described in Step 1. The default local sender channel is used for all the defaults when creating your live channels as described in Step 2.

On the OneWorld Server, from the command line:

1. Change the default local sender channel by issuing the following command:

```
CHGMQMCHL CHLNAME(SYSTEM.DEF.SENDER)
CHLTYPE(*SDR ) TRPTYPE(*TCP)
TEXT('Default Sender channel') CONNAME(' ')
TMQNAME(' ') BATCHSIZE(9999) DSCITV(0)
SHORTTMR(999999999) SHORTRTY(999999999)
LONGTMR(999999999) SCYEXIT(*NONE)
SCYUSRDATA(*NONE) SNDEXIT(*NONE)
SNDUSRDATA(*NONE) RCVEXIT(*NONE)
RCVUSRDATA(*NONE) MSGEXIT(*NONE)
MSGUSRDATA(*NONE) SEQNUMWRAP(999999999)
MAXMSGLEN(4194304) CVTMSG(*NO)
HRTBTINTVL(999999) NPMSPEED(*FAST)
```

2. Create the live local sender channel by issuing the following command:

```
CRTMQMCHL CHLNAME(OW2MQI_CHL) CHLTYPE(*SDR )
TRPTYPE(*TCP) TEXT('Sender channel to NC system')
CONNAME('NC Server Name') TMQNAME(OUTBOUND.Q.XMIT)
```

? To create a MQ local receiver channel

Tips and Techniques

The names of queues and channels in MQSeries are case-sensitive. Be sure and use all caps as specified in this document. You can specify any name for a queue or channel.

You must first create a default local receiver channel as described in Step 1. The default local receiver channel is used for all the defaults when creating your live channels as described in Step 2.

On the OneWorld Server, from the command line:

1. Change the default local receiver channel by issuing the following command:

```
CHGMQMCHL CHLNAME(SYSTEM.DEF.RECEIVER)
CHLTYPE(*RCVR) TRPTYPE(*TCP)
TEXT('Default Receiver channel') BATCHSIZE(9999)
SCYEXIT(*NONE) SCYUSRDATA(*NONE) SNDEXIT(*NONE)
SNDUSRDATA(*NONE) RCVEXIT(*NONE)
RCVUSRDATA(*NONE) MSGEXIT(*NONE)
MSGUSRDATA(*NONE) PUTAUT(*DFT)
SEQNUMWRAP(999999999) MAXMSGLEN(4194304)
HRTBTINTVL(999999) NPMSPEED(*FAST)
```

2. Create the live local receiver channel by issuing the following command:

```
CRTMQMCHL CHLNAME(MQI2OW_CHL ) CHLTYPE(*RCVR)
TRPTYPE(*TCP) TEXT('Receiver channel from WCS system')
```

? To grant authority to all queues and channels

You need to give authority to One World to all the queues and channels.

On the OneWorld Server, from the command line:

```
GRTMQMAUT OBJ(JDE_QMGR) OBJTYPE(*MQM)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(DEFRES.Q) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(ERROR.Q) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(INBOUND.Q) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(OUTBOUND.Q) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(SUCCESS.Q) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(SYSTEM.DEFAULT.LOCAL.QUEUE) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(SYSTEM.DEFAULT.REMOTE.QUEUE) OBJTYPE(*Q)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(MQI2OW_CHL) OBJTYPE(*ALL)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(OW2MQI) OBJTYPE(*ALL)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(SYSTEM.DEF.RECEIVER) OBJTYPE(*ALL)
USER(ONEWORLD) AUT(*ALL)

GRTMQMAUT OBJ(SYSTEM.DEF.SENDER) OBJTYPE(*ALL)
USER(ONEWORLD) AUT(*ALL)
```

? To reset a channel

If a channel becomes inactive, you can reset using the following command:

```
RSTMQMCHL CHLNAME(channel_name)
```


Non-OneWorld MQSeries Server (inbound to OneWorld and outbound to storefront)

MQSeries is a queue messaging system that requires a sender and receiver relationship necessary for queue communications. One side of MQSeries is installed on the OneWorld Enterprise Server while the related side is installed on another physical or logical machine, in this case called the non-OneWorld MQSeries Server.

This section contains procedures to create and maintain the queues required to communicate with the MQSeries server running on the OneWorld Enterprise Server. If MQSeries queues on the non-OneWorld MQSeries are on a machine containing the IBM Commerce Integrator (ICI), the operating system for that machine must be NT, AIX, or Solaris. J.D. Edwards has supplied basic queue setup instructions for each OS in the *WCS Integration Reference* document. That document is supplied in the following directory on the CD containing the OneWorld Adapter for MQSeries:

```
\Documentation\WCS_Integration_Reference
```

Because the sequence of installing the queues and establishing communications between the queues is tightly linked, you should immediately return to the next step in this document after you have created the queues on the non-OneWorld or ICI machine.

Communications Between the OneWorld MQSeries Server and the Non-OneWorld MQSeries Server

You must set up communications between the OneWorld Enterprise Server and the Commerce Integrator Server using the sequenced and machine-dependent steps in this section.

Note: Testing in laboratory environments presents an anomaly which may be applicable to field installations. It was noted that when channels were started for the first time, it was necessary for both the sender and receiver channels to be manually started on the local and remote machines, respectively. However, subsequent to the initial start of the channel, it was only necessary to start the sender on the local machine. In turn, that caused the receiver on the remote machine to automatically start.

- [Start the Queue Manager on the non-OneWorld MQSeries Server](#)
- [Start the Queue Manager on the OneWorld MQSeries Server](#)
- [Start the channel on the non-OneWorld MQSeries Server](#)
- [Start the channel on the OneWorld MQSeries Server](#)

? To start the Queue Manager on the non-OneWorld MQSeries Server

On the non-OneWorld MQSeries Server:

1. At a DOS prompt, start the Queue Manager by entering the following command:

```
STRMQM MQMNAME (ECE_MQI_QMGR)
```

2. At the same DOS prompt, start the listener by entering the following command:

```
start/min runmqslr -m ECE_MQI_QMGR -t TCP
```

Note: This action creates a minimized DOS prompt window. Do not close this window.

? To start the Queue Manager on the OneWorld MQSeries Server

On the OneWorld MQSeries Server:

1. Start the Queue Manager by entering the following command:

```
STRMQM MQMNAME (JDE_QMGR)
```

2. Start the listener by entering the following command:

```
STRMQMLSR
```

? To start channel on the non-OneWorld MQSeries Server

On the non-OneWorld MQSeries Server

At the same DOS prompt you used to start the queue manager, enter the following command:

```
START CHANNEL (MQI2OW_CHL)
```

Note: Testing in laboratory environments presents an anomaly which may be applicable to field installations. It was noted that when channels were started for the first time, it was necessary for both the sender and receiver channels to be manually started on the local and remote machines, respectively. However, subsequent to the initial start of the channel, it was only necessary to start the sender on the local machine. In turn, that caused the receiver on the remote machine to automatically start.

? To start the channel on the OneWorld MQSeries Server

On the OneWorld MQSeries Server:

Start the channel by issuing the following command:

```
STRMQMCHL CHLNAME(OW2MQI_CHL)
```

Alternately, you can create and run a CL script. For example:

```
RUNMQSC ECE_MQI_QMGR  
START CHANNEL(MQI2OW_CHL)  
/*START CHANNEL(OW2MQI_CHL)*/  
END
```

Note: Testing in laboratory environments presents an anomaly which may be applicable to field installations. It was noted that when channels were started for the first time, it was necessary for both the sender and receiver channels to be manually started on the local and remote machines, respectively. However, subsequent to the initial start of the channel, it was only necessary to start the sender on the local machine. In turn, that caused the receiver on the remote machine to automatically start.

STEP 2: Set Up OneWorld UBE Queues

You must set up at least two OneWorld UBE queues. This is required because the OneWorld Adapter for MQSeries relies on the use of a subsystem UBE (R00460). Like all subsystem UBEs, the R00460 operates in a permanent processing mode that consumes the queue in which it runs to an extent where no other UBE jobs running on the server can operate in the same queue. As a result, you must define at least two UBE queues where one queue is dedicated to normal UBE processing and the other is dedicated to the OneWorld Adapter for MQSeries subsystem.

This section describes:

- Modifying the `jde.ini` on the OneWorld Enterprise Server to support multiple UBE queues
- Modifying the `jde.ini` on a OneWorld client to submit the UBE subsystem request

Additional platform-specific information on working with queues is available in *the OneWorld Server and Workstation Administration Guide*.

? To modify the `jde.ini` on the OneWorld Enterprise Server to support multiple UBE queues

Ensure the following settings are correct:

Parameter	Description
<pre>[NETWORK QUEUE SETTINGS] UBEQueues=2 UBEQueue1=ONEWORLD UBEQueue2=QBATCH</pre>	<p>The following values should be added or modified where:</p> <p><code>UBEQueues=</code> Defines the number of UBE queues that are defined on this OneWorld Enterprise Server. In this example, two queues are defined.</p> <p><code>UBEQueue1=</code> Defines the name of the first UBE queue. In this example, the queue name is <code>ONEWORLD</code>.</p> <p><code>UBEQueue2=</code> Defines the name of the second UBE queue. In this example, the queue name is <code>QBATCH</code>.</p>

? To modify the jde.ini on a OneWorld client to submit the UBE subsystem request

If you submit or start the R00460 subsystem UBE from a OneWorld Windows client, you must first temporarily modify that client's jde.ini file. The temporary modification is required so that the client can direct the appropriate UBE queue name. After the client submits or starts the R00460 subsystem UBE, you must undo the temporary change so that client can regain access to normal UBE submissions to the server-based UBE queue.

On the client machine from which you want to submit or start the R00460 subsystem UBE, ensure the following jde.ini settings are correct:

Parameter	Description
[NETWORK QUEUE SETTINGS] UBEQueue=	<p>UBEQueue= Defines the name of the local or server-based UBE queue.</p> <p>If you want the client to start or submit the R00460 subsystem, you should enter a value that corresponds with the value set by the UBEQueue1= on the OneWorld Enterprise Server. In the example presented in this guide, the name of the R00460 subsystem queue is ONEWORLD.</p> <p>If you want the client to use the normal server-based UBE processing queue, you should enter a value that corresponds with the equivalent value for that queue on the Enterprise Server. In the example presented in this guide, the name of the normal UBE processing queue is QBATCH.</p>

Tips and Techniques

Any time you modify settings in the jde.ini file on the client, you must exit and restart OneWorld in order for those changes to become effective.

STEP 3: Configure the jde.ini Member on the OneWorld Enterprise Server

You must configure the jde.ini member on the Enterprise Server with the settings as described in this section.

Tips and Techniques

Make sure that you have not brought the OneWorld services back up until after you make the requisite changes to the jde.ini file on the OneWorld Enterprise Server.

? To configure the jde.ini member on the OneWorld Enterprise Server

Ensure the following sections and settings are correct.

Parameter	Description
[SECURITY] User=JDE Password=JDE	You must have these values set in order for OneWorld to accept the outbound messages from WebSphere Commerce Suite.
[JDENET] maxKernelRanges=13	This value represents the total number of JDENET kernel types. When the MQ kernel_def type is added, you must increment this value by one so that JDENET knows to include and startup this added kernel.
[JDENET_KERNEL_DEF13] krnlName=MQSI Kernel beginningMsgTypeRange=5513 endingMsgTypeRange=6001 dispatchDLLName=MQSADAPT dispatchDLLFunction= JDEK_DispatchMQSeriesProcess maxNumberOfProcesses=1 numberOfAutoStartProcesses=1	<p>You must update the "DEF" value to next number. For B733.1 and B733.2, the value is 13. For B733.3, the value is 14.</p> <p>Valid value for the parameter, numberOfAutoStartProcesses are:</p> <p>0 = The MQSI kernel will not automatically start when OneWorld is initialized.</p> <p>1 = The MSQI kernel will always be automatically started when OneWorld is initialized. You must use this setting to use the OneWorld Adapter for MQSeries.</p>

Parameter	Description
[MQSI] QMGRName=JDE_QMGR QInboundName=INBOUND.Q QErrorName=DEFRES.Q QOutboundName=OUTBOUND.Q TimeoutWaitInterval=15 MaxBufferLength=10240 CreateHeader=YES AppGroup=NNJDE JDEOrderStatusCode=JDESOOUT JDECustomerCode=JDEAB JDEItemPriceCode=JDEPRICE JDEItemQtyCode=JDEIL NCOrderStatusCode=JDE.IC.F4201Z1 NCCustomerCode=JDE.IC.F0101Z2 NCProductPriceCode=JDE.IC.F4106NC NCProductQtyCode=JDE.IC.F41021Z1 OWHostName= <i>host_name</i>	<p>These settings are for the header information on the message that is required for Commerce Integrator. The name of the queues can be any name, but must match the names you specify in the MQSeries queue setup.</p> <p>If the adapter is being used without WebSphere Commerce Integrator, you can specify the create header as equal to No. Also in that case, you should set those subsequent Commerce Integrator-specific parameter settings in the MQSI section to blank. This includes the four parameters prefixed by JDE and four parameters prefixed by NC.</p> <p>In either case, you must specify a <i>host_name</i> for the OWHostName= parameter. The name you specify here is the machine used to create the net message to trigger the Outbound Adapter. This is the server on which OneWorld resides.</p>

STEP 4: Configure OneWorld to Enable Transaction-Specific Outbound Processing

Transaction-specific outbound processing uses Z-Table processes supported by OneWorld applications. The outbound processes available to you vary depending on which OneWorld release you use. Additional transaction-specific outbound processes might be available in a future ASU or ESU.

If you use transaction-specific outbound processing you must perform configuration tasks such as setting up processing options or setting up data export controls.

This section contains those tasks that you must perform on the OneWorld applications to enable transaction-specific outbound processing. These tasks include:

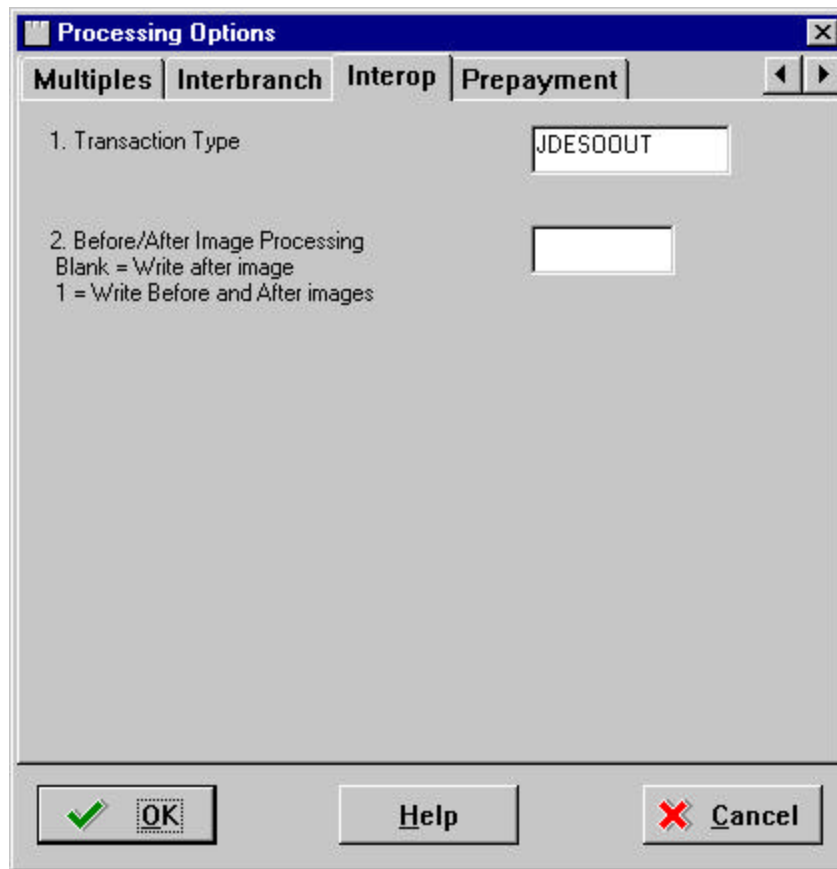
- [Setting up the Processing Options for the Sales Order Master Business Function \(P4210\)](#)
- [Setting up the Processing Options for the Address Book Master Business Function \(P0100041\)](#)
- [Setting up the Processing Options for Address Book Revisions \(P01012\)](#)
- [Setting up Data Export Controls](#)

? To setup the processing options for the Sales Order Entry Master Business Function (P4210)

You must setup the OneWorld Sales Order Entry program to enable it for interoperability operations.

3. From the client fast path to G4211.
4. Right click on Sales Order Detail (P4210).
5. Select Prompt For Values.
6. Click on the Interop tab.
7. Enter JDESOOUT. This defines the transaction type.

8. Enter a value for Option 2 to define the before/after image processing.
Valid values are blank or 1.



The image shows a 'Processing Options' dialog box with a blue title bar and a close button. It has four tabs: 'Multiples', 'Interbranch', 'Interop', and 'Prepayment'. The 'Prepayment' tab is selected. Inside the dialog, there are two input fields. The first is labeled '1. Transaction Type' and contains the text 'JDES00UT'. The second is labeled '2. Before/After Image Processing' and is empty. Below the second label, there is explanatory text: 'Blank = Write after image' and '1 = Write Before and After images'. At the bottom of the dialog, there are three buttons: a green checkmark icon followed by 'OK', a 'Help' button, and a red 'X' icon followed by 'Cancel'.

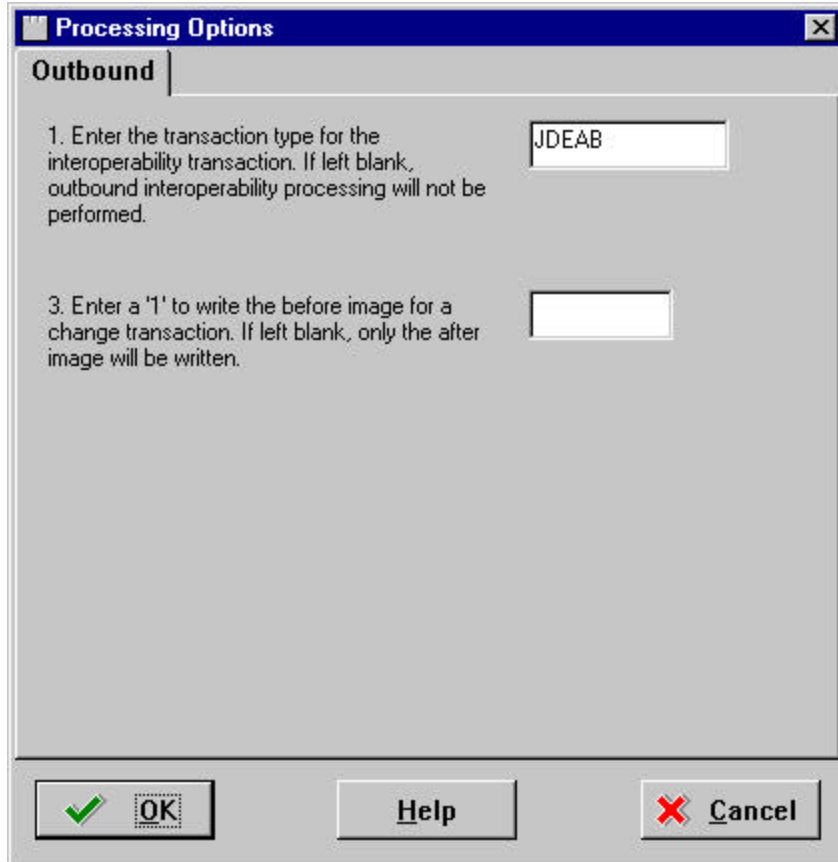
9. Click OK.

? To setup the Processing Options for the Address Book Master Business Function (P0100041)

You must setup the Address Book Master Business Function to enable interoperability operations.

10. Fast path to GH9011.
11. Select Interactive Version.
12. Enter P0100041 to the Interactive Application and click Find.
13. If there is not a Version called INTOP select version ZJDE0001 and copy it.
14. Call the new version INTOP and click OK.

15. Highlight the version INTOP and click on Processing Options in the Exit Bar.
16. Select the Outbound tab.
17. For Option 1, enter JDEAB.
18. Enter a value for Option 3 to define the before/after image processing. Valid values are blank or 1.



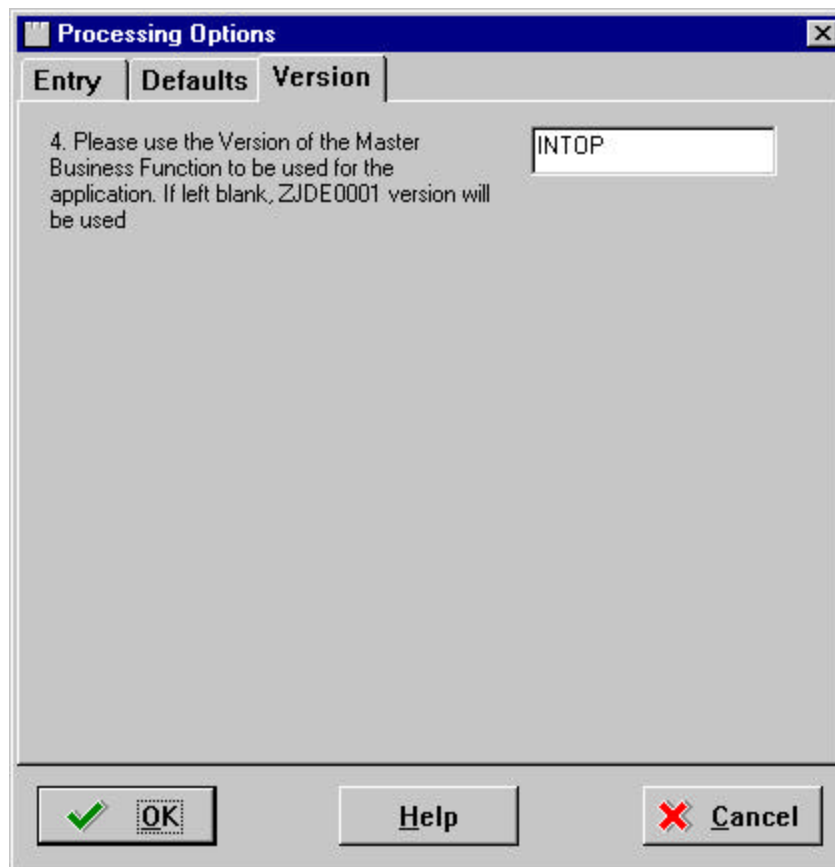
The image shows a Windows-style dialog box titled "Processing Options" with a close button (X) in the top right corner. The "Outbound" tab is selected. The dialog contains two text input fields. The first field is labeled "1. Enter the transaction type for the interoperability transaction. If left blank, outbound interoperability processing will not be performed." and contains the text "JDEAB". The second field is labeled "3. Enter a '1' to write the before image for a change transaction. If left blank, only the after image will be written." and is currently empty. At the bottom of the dialog, there are three buttons: a green checkmark icon followed by "OK", a "Help" button, and a red X icon followed by "Cancel".

19. Click OK.
20. Click Close.

? To setup the Processing Options for Address Book Revisions (P01012)

You must setup the Address Book Revisions to enable interoperability operations.

1. Fast path to G01.
2. Right click on Address book Revisions (P01012).
3. Select Prompt For Values.
4. Click on the Version tab.
5. For Option 4, enter a value of INTOP.



The screenshot shows a Windows-style dialog box titled "Processing Options". It has three tabs: "Entry", "Defaults", and "Version", with "Version" currently selected. The main area of the dialog contains the following text: "4. Please use the Version of the Master Business Function to be used for the application. If left blank, ZJDE0001 version will be used". To the right of this text is a text input field containing the value "INTOP". At the bottom of the dialog, there are three buttons: a green checkmark icon followed by "OK", a "Help" button, and a red "X" icon followed by "Cancel".

6. Click OK.
7. Click Close.

? Setting up Data Export Controls

You must insert a F0047 record for each transaction type. The record specifies the vendor-specific UBE or function to call to process the transaction. For transaction type JDESOOUT you must set up a record for each order type that you wish to export. See the *OneWorld B73.3.1 Interoperability Guide* for more information.

From menu G42A313, option P0047, add or verify the following data export controls:

The screenshot shows the 'Data Export Controls' window with the following data:

Trans	Or Ty	Seq	UBE Name	Version
JDEAB		1.00		
JDEIL		1.00		
JDEPRICE		1.00		
JDESOOUTS0		1.00		
JDESOOUTS4		1.00		

The 'MQOutboundNotify' function is listed as the UBE Name for all transactions shown.

Values for fields including those not shown in the diagram above include:

Form Field	Description
Trans	<p>The values you specify in this field must match the values you have configured for OneWorld outbound processing in the various OneWorld applications. For the WCS integration, you must specify the following values:</p> <p>JDEAB</p> <p>JDEIL</p> <p>JDEPRICE</p> <p>JDESOOUT</p>

Step 4: Configure OneWorld to Enable Transaction-Specific Outbound Processing

Form Field	Description
Or Ty	The values you specify in this field must match the values that are required for your storefront. For example, for WCS the following order types are required: JDES00UT S4 JDES00UT SO
Seq	1.00
Function Name	MQOutboundNotify
Function Library:	MQSNTFY This function library is the name of the service program for the OneWorld Adapter for MQSeries running on the AS/400.
Execute for Add:	1
Execute for Update:	1
Execute for Delete:	1
Execute for Inquiry:	1
Flat File Export Mode:	0
External Database Export Mode	0
External API Export Mode:	0
Launch Immediately	1

STEP 5:

Restoring Directories from CD to the IFS

You must copy directories from the OneWorld SP11.1 CD to the IFS on the Enterprise Server by creating objects in the IFS file system.

On the AS/400 Enterprise Server

1. Create a save file (SAVF) for the software in preparation for the transfer by entering the following command:

```
CRTSAVF JDETEMP/SYSTEM
```

2. Create a save file (SAVF) for the software in preparation for the transfer by entering the following command:

```
CRTSAVF JDETEMP/KNRLSPEC
```

3. From a DOS window on the computer which contains the OneWorld Service Pack CD, start a file transfer protocol (FTP) session to connect to your enterprise AS/400 by entering the following commands:

```
C:\>ftp server_name
```

where *server_name* is your AS/400 Enterprise Server.

```
Connected to yourAS400Name
```

```
220-QTCP at yourAS400Name
```

Note: The 220 connection closes if idle longer than 5 minutes.

```
User <yourAS400Name:<none>>: qsecofr
```

```
331 Enter password.
```

```
Password:
```

```
230 qsecofr logged on.
```

4. Change the directory to the JDETEMP library on the AS/400 by entering the following command:

```
ftp> cd jdetemp
```

```
250 Current library changed to JDETEMP
```

5. Change the local directory to the CD directory containing the AS/400 SAVFs by entering the following commands.

```
ftp> lcd z:\hosts\AS400
```

Where z: is the drive which contains the SP CD.

```
Local directory now z:\hosts\AS400
```

6. Change the mode of transfer to binary by entering the following command:

```
ftp> bin
```

```
200 Representation type is binary IMAGE
```

7. Upload the SYSTEM KRNLSPec to the AS/400 by entering the following commands:

```
ftp> put KRNLSPec
```

```
200 PORT subcommand request successful
```

```
150 Sending file to member KRNLSPec in file KRNLSPec in  
library JDETEMP
```

```
250 File transfer completed successfully
```

```
nnnnn bytes sent in n.nn seconds <nnn.nn Kbytes/sec>
```

8. Exit FTP by entering the following command:

```
ftp> quit
```

```
221 QUIT subcommand received.
```

```
C:\>
```

9. Map a network drive from Microsoft Explorer or Client Express to the AS/400 OneWorld Enterprise Server.

10. Create a /syslib folder. For example:

```
/B7332SYS
```

11. Restore the IFS system objects by performing the following command:

```
RST DEV(' /QSYS.LIB/JDETEMP.LIB/KRNLSPec.FILE' )  
OBJ((' /krnb7332/*' *INCLUDE '/syslib'))
```


STEP 6:

Copy the ICU\data Directory**Tips and Techniques**

This step is only applicable if you are using this adapter with the storefront integration to IBM WebSphere Commerce Suite and IBM Commerce Integrator.

Also, this procedure is only valid through OneWorld SP 11.1.

You must manually copy the system\Locale\xml\AS400 directory in the IFS file system to an ICU/data directory at the root directory (IFS) of the Enterprise Server where your OneWorld is installed.

Execute the following from AS/400 Command Entry command line:

```
MD ICU
```

This command creates the ICU directory.

```
CD ICU
```

This command changes to the ICU directory.

```
MD DATA
```

This command creates the data directory under the ICU directory.

```
CRTSAVF mylib/icudata
```

This command creates a save file in your library.

```
SAV DEV('/qsys.lib/mylib.lib/icudata.file')
OBJ('/zzzzsys/locale/xml/*.*')
```

This command saves the objects in the locale/xml directory to the save file in your library; where zzzz is your release number, for example B7331 or B7332.

```
RST DEV('/qsys.lib/mylib.lib/icudata.file')
OBJ('/zzzzsys/locale/xml/*.*' *INCLUDE '/icu/data')
```

This command restores the save file to the icu/data directory; where zzzz is your release number, for example B7331 or B7332.

STEP 7: **Configure the Job Description for the OneWorld Adapter for MQSeries Kernel**

You must configure the job description for the OneWorld Adapter for MQSeries kernel that is running on the OneWorld Enterprise Server.

Tips and Techniques
Make sure the system library, for example B7332SYS, is included in the library list of the session that you use to run this command.
You should note that you must re-run this Change Job Description command any time you upgrade your OneWorld Service Pack release level.

On the OneWorld Enterprise Server:

Issue the following command:

```
CHGJOB JOB(NETJOB) INLLIBL(B7332SYS QMQM QGPL QTEMP)
```

Where B7332SYS is your current OneWorld system code library.

STEP 8: Restart the OneWorld Services

After you have completed the MQSeries queue setup and the various associated configuration tasks, you can restart the OneWorld services on your AS/400 Enterprise Server.

? To restart the OneWorld services

1. Restart your OneWorld services using the following command:

```
STRNET
```

2. Verify your library list is set up correctly by performing your typical verification to ensure OneWorld is working properly, for example, PORTTEST.
3. Delete the JDETEMP and OWESPB733 libraries.

STEP 9: Start the OneWorld R00460 Subsystem for MQSeries

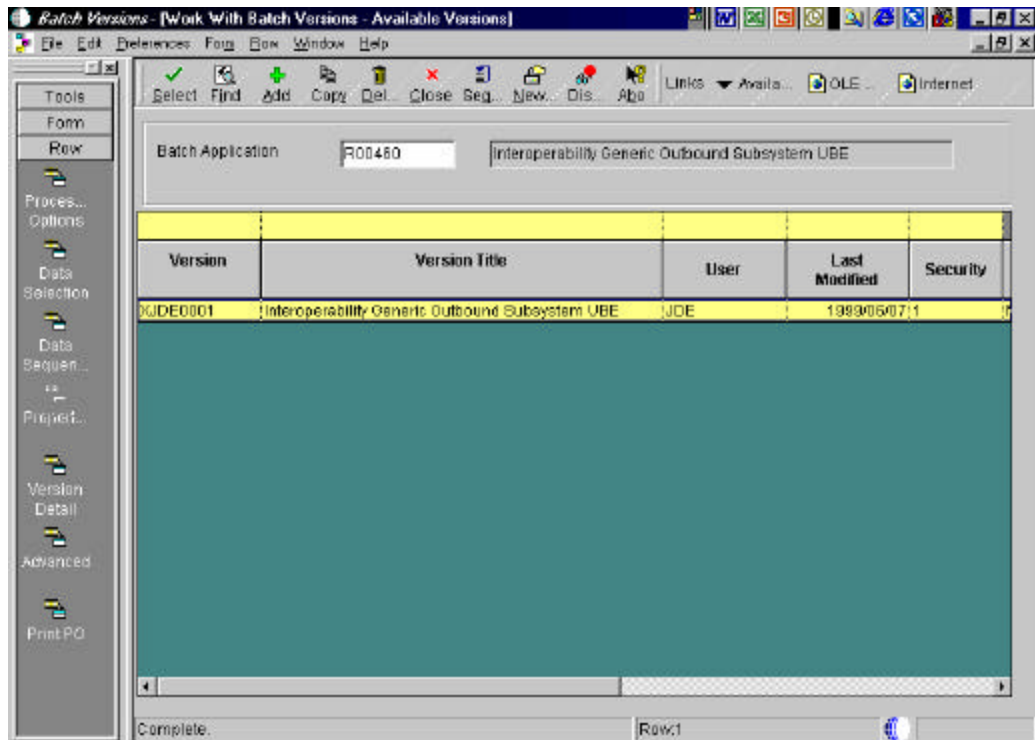
You must start the R00460 subsystem for MQSeries on the OneWorld Enterprise Server. When running, this is the subsystem that monitors the MQSeries queues for messages and manages the OneWorld side of the queues.

? To start the R00460 subsystem

Tips and Techniques

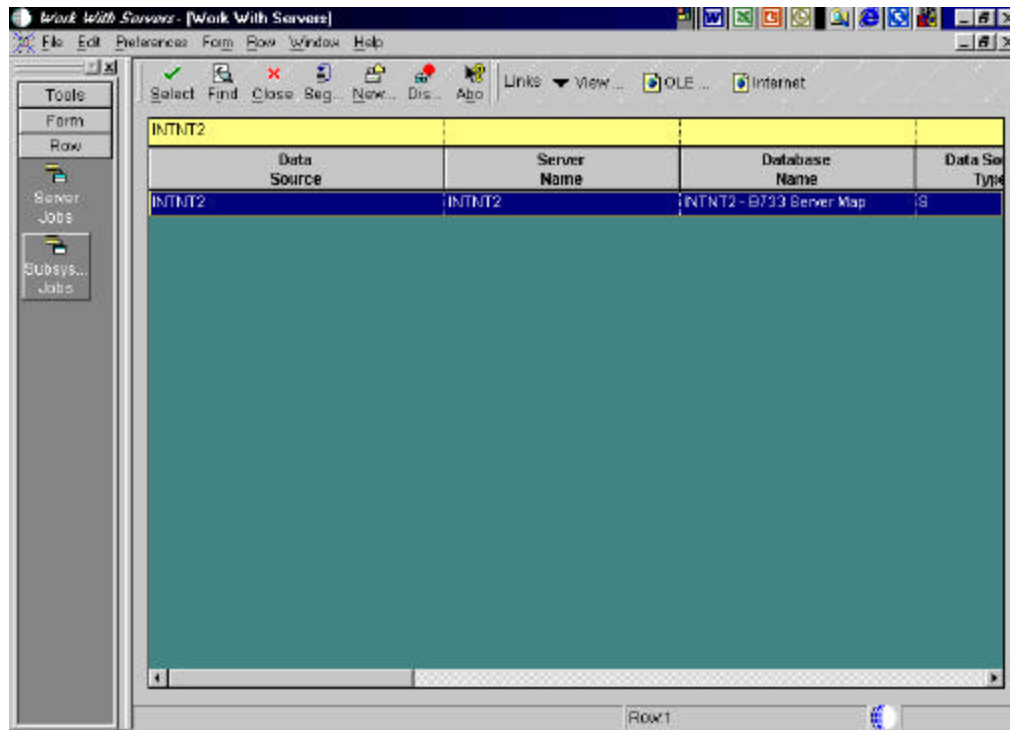
Before you start this OneWorld subsystem, you should have already updated the jde.ini file on the Enterprise Server to point to the new queue.

1. From Batch Versions, select R00460.



2. Select version XJDE0001 and then click submit.

3. You can verify the status of the subsystem job using Work With Servers.



4. Inquire on your server and select subsystem jobs.

