

XML PORTAL CONNECTOR (XPC)™

INSTALLATION AND ADMINISTRATION GUIDE FOR NT/WIN2K

Version 4.1

Commerce One Corporate Headquarters 4440 Rosewood Drive Pleasanton, CA 94588-3050 XPC Installation and Administration Guide for NT/ Windows 2000, Version 4.1

Copyright © 2000, 2001 Commerce One, Inc. All rights reserved.

April 2001

COMMERCE ONE, Inc. Information in this document is subject to change without notice. Companies, names, and data used in examples herein are fictitious unless otherwise noted.

This documentation and the software described constitute proprietary and confidential information protected by copyright laws, trade secret, and other laws. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of Commerce One, Inc.

Commerce One, Many Markets. One Source. Global Trading Web, Commerce One.net, BuySite, MarketSite, Global Trading Platform, Common Business Library, xCBL, XML Development Kit, XML Commerce Connector, MarketSite Builder, and SupplyOrder are either trademarks or registered trademarks of Commerce One, Inc. Enterprise Buyer and MarketSet are trademarks of Commerce One, Inc. and SAPMarkets. All other company, product, and brand names may be trademarks of their respective owners.

Contents

Pr	eface	V
	Purpose of This Guide	v
	Audience	
	Related Information	
	How to Use This Guide	
	Documentation Conventions If You Need Help	
	ii Tou Need Help	VIII
1.	Installing XPC on Windows NT/Win2K	1-1
	Installing the XPC 4.1 Patch	1-1
	Pre-Requisites	1-2
	Installation	1-2
	Change Password or Remove Program	1-3
	Summary of Setup Steps	1-4
	System Requirements	1-5
	Hardware Requirements	1-5
	Software Prerequisites	1-5
	Removing a Previous XPC Installation	1-6
	Adding JDK to Path Variable	1-6
	Installing XPC	1-7
	Testing the Installation Locally	1-8
2.	Connecting to MarketSite	2-1
	Which Version of MarketSite?	2-2
	Registering in MarketSite 3.x	2-3
	Registering in MarketSite 4.1	2-3
	Receiving Confirmation Emails	2-4
	Trading Partner Registration Email	2-4
	SonicMQ Broker Registration Confirmation	2-7
	Configuring XPC	2-8
	Testing Your Configuration	2-10
3.	Security for Production Systems	3-1

	Firewall and Network Requirements	3-1
	Planning for XPC Deployment	3-2
	Internal Firewall Requirements	3-2
	Proxy Firewall Requirements	3-2
	Certificate Manager	3-3
	Authentication for Production Using https	3-3
	Preparation for Authentication	3-3
	Following the Steps	3-3
	Authentication for Production Using SonicMQ	3-9
	Preparation for Authentication	3-9
	Following the Steps	3-9
	Testing Your Production Installation	3-13
4.	Advanced Configuration	4-1
	Planning for Special Options	4-1
	Adjusting Java Heap Size	
	Using Forward Proxy	4-2
	Using the Versioning Library	4-2
	Enabling and Disabling the Versioning Library	4-5
	Configuring Additional Options	4-5
5.	DMZ Support of SonicMQ	5-1
	Pre-requisites	
	XPC-to-Sonic Configuration	
	Configure the Sonic Machine	
	Configure the XPC Machine	
	Effects to other standalone clients	
_	Administration	6 4
ь.	Administration	
	Starting and Stopping the XPC Server	
	Running XPC as an NT Service	
	Backing Up SonicMQ Keystore	
	XPC Envelope Archive	
	XPC Invoker and the Envelope Archive	
	Using the XPC Invoker	
	XPC Invoker User Interface	
	Transaction Filter	6-6

	Archive Display6	-6	
	Transaction Table6		
	Envelope6		
	Working with Pending Documents6		
	Maintaining the XPC Server6		
	Clearing the XPC Log Files6		
	Clearing the Archive Directory6-1		
	Checking Security Certificate for Expiration6-	10	
7.	Troubleshooting	-1	
	Checking XPC or SonicMQ Services7	-1	
	XPC Logging7	-2	
	Reading Debug Messages7	-2	
	Reading Event Output7	-4	
	Avoiding Known Problems7	-5	
	XPC Invoker Connection Refused7		
	Troubleshooting the Versioning Library Service7		
	Verifying Versioning Library7		
	Versioning Library Transformations7		
	Testing Versioning Library Transformations7		
	Document Transformation Tool7		
	Envelope Transformation Tool7		
	Certificate Manager Keystore7-1	11	
Α.	XPC 4.1 Server Core Events		A- 1
В.	. Advanced Security		B- 1
	Client-side Trusted CA Validation		
	CA Trust Policies on the HTTPS ClientB	-1	
	Configuring CA Trust Policies for HTTPS Client B		
	Default HTTPS Client-side BehaviorB		
	Managing CA Trust Policies of Target HTTPS ServerB		
	Detecting Un-Trusted CA ValidationB		
	Pre-installed Trusted CA Root Certificates		
	Trading Partner Password Authentication Protocol		
	Firewall and Network Requirements		
	Using Forward and Reverse ProxyB		

	B-10
C. Reverse Proxy Support	C-1
In This Appendix	
Systems Overview	
Understanding the SSL handshake	
Relationship of the Reverse Proxy Server and a MarketSite P	
XPC	
Netscape Reverse Proxy Server Setup	C-4
Install Server Certificates	C-6
Enabling SSL encryption on the Proxy Server	
Step 1: Generate server key-pair file	
Step 2: Generate a certificate request	
Step 3: Request a certificate from a CA	
Step 4: Install server certificate from CA	
Step 5: Install certificate chain Enable SSL encryption	
Installing server certificate on the Trading Partner XPC Serve	
Step 1: Generate a certificate request	
Step 2: Request a certificate from a Certificate Authority (CA	
Step 3: Install the certificate that the CA returns	
Ping Test Reverse Proxy Server	
Enable client authentication	
Understanding client authentication handshake	C-12
Enable Proxy Server client authentication	C-13
Enable Trading Partner XPC client authentication	C-13
Error messages	C-13
D. Property Files	D-1
Server Configuration Files	
•	
http-runner.prop	
https-server.prop	
security.prop	
server-start.prop	
service-start.prop	
Service startup list section	

Service Property Files	D-11
LostAndFound default.prop File	D-11
Log Service default.prop File	D-11
AsyncTransmitter and SyncTransmitter Service default.prop file	D-12
client.prop Property File	D-14
Versioning Properties in client.prop	D-17
Sonic Properties in client.prop	D-17

Preface

Purpose of This Guide

XML Portal Connector (XPC) is a platform for applications and trading partners to exchange documents over MarketSite. XPC manages a secure MarketSite connection for runtime document exchange. XPC can run:

- Within a marketplace to connect hosted applications and business services.
- At a trading partner site to connect enterprise applications to MarketSite.

For integration development, XPC provides a component-based architecture with an extensible, plug-and-play environment that trading partners can tailor to their specific needs.

The XPC 4.1 Installation and Administration Guide for NT/Windows 2000 provides information necessary to install, configure, and maintain XPC at a Trading Partner site. It does not address installing and maintaining XPC with a marketplace. For information using XPC within a marketplace, refer to MarketSite 4.1 Installation Guide for NT.

This guide includes:

- Instructions for installing XPC
- Instructions for connecting to MarketSite
- Information for maintaining and troubleshooting the installation.

Audience

This book is for administrators responsible for installing and managing XPC 4.1. It assumes administrators are familiar with MarketSite, xCBL documents, and the environment in which they are installing XPC.

Related Information

The following manuals are available on your XPC installation CD or from the Internet.

Document	Description
XPC Developer Guide and API Reference	General information about XPC and information about customizing XPC installations.
XML Interconnectivity Guide	Information about the structure of Commerce One's xCBL business documents.
XDK Pro Developer Guide	Documents how to use Commerce One XML Parser (CXP), how to use the SOX to Java compiler, and how to interface with CXP through SAX
xCBL Online Reference Guide is available at www.xcbl.org	Documents xCBL 3.0
HotFS Installation and Configuration Guide	Describes how to install and configure HotFS including XCC configuration, sample scenarios, and client and service setup and execution.

How to Use This Guide

The information in this book is organized for the installation and configuration of XPC for trading partners. The following table describes each chapter in this guide:

Chapter	Description	
1	Requirements and instructions for installing locally.	
2	Registrations and configurations for connecting to MarketSite.	
3	Security, firewalls, and authentication.	
4	Advanced configuration for special options.	
5	DMZ Support for Sonic Broker	

Chapter	Description	
6	Administration, maintenance, and pending documents.	
7	Reading event logs and troubleshooting.	

Documentation Conventions

This guide follows these typographical conventions:

Convention	Meaning / Example(s)
<install:root></install:root>	All pathnames are expressed relative to the root directory of the XPC installation.
italics	Indicates emphasis, a book name, or the name of a variable.
	Emphasis example:
	■ Do <i>not</i> perform this procedure until you have backed up your data.
	Back up your data before performing this operation.
	Book name example:
	■ Enterprise Buyer Administration Guide
	Variable name in text:
	■ Enter the <i>servername</i> in the Server field.
monospace text	Indicates file and path names, printed or displayed computer output, code samples, or text you type at the keyboard. Text typed at the keyboard is not case sensitive unless so noted, such as when typing commands at a terminal window on Solaris or UNIX operating systems.
[]	Text enclosed in brackets denotes a variable name in code. These are often represented as separate words with underscores to denote one continuous string:
	■ http://www.[site_name].com/

Convention	Meaning / Example(s)
{ } and	Curly braces ({and}) and vertical bars () are used together to separate options:
1	■ {true false}
	■ {on off}
	■ {low medium high}
	In addition, vertical bars are used in text to denote menu paths:
	■ File Import File
/\	Slashes (/) are used to separate directory names on Solaris and other UNIX operating systems. Backslashes (\) are used to separate directory names on Windows NT and Windows 2000.

If You Need Help

If you have purchased XPC software directly from Commerce One, Commerce One Technical Support is available to you by contacting one of the following:

- csc@commerceone.com
- By fax at 925-520-6060
- Hotline at 925-520-5959 or 800-949-8939
- http://www.commercecone.com/services/support.htm

If you purchased XPC software from a different source, such as your GMP or Systems Integration Partner, contact that source for technical support.

1 Installing XPC on Windows NT/ Win2K

This chapter provides the steps required to install and test connections for XPC 4.1 on Windows NT/Win2K. Information on installing the XPC4.1 patch is presented. Additionally, complete information and instructions for installing XPC 4.1 are also provided for your convenience. The following information can be found in the sections indicated below:

- Installing the XPC 4.1 Patch on page 1-1
- Summary of Setup Steps on page 1-4
- System Requirements on page 1-5
- Removing a Previous XPC Installation on page 1-6
- Adding JDK to Path Variable on page 1-6
- Installing XPC on page 1-7
- Testing the Installation Locally on page 1-8

Note If your XPC installation is to be fully integrated with MarketSite 3.x or MarketSite 4, use the MarketSite documentation to install XPC as part of your MarketSite installation.

Installing the XPC 4.1 Patch

Warning! Before installing the XPC 4.1 Patch, you MUST BACKUP YOUR CURRENT XPC INSTALLATION, ALL PROPERTY FILES AND ALL CONFIGURATIONS. THIS IS VERY IMPORTANT!

Upgrading to XPC 4.1 will overwrite these values, so if you do not backup, you will not be able to revert back to XPC 4.0. After the upgrade, you will have to re customize your property files.

XPC 4.1 is installed using an Install Shield wizard. You must have a working installation of XPC 4.0 before you can apply the 4.1 patch. For your convince, complete installation instructions for XPC 4.0 are included in this chapter.

Pre-Requisites

The following are pre-requisites for XPC 4.1:

- XPC 4.0
- JDK 1.3

Installation

Using your installation CD, follow these steps to install XPC 4.1 on a Windows NT/Win2K system.

1. Find the **setup.exe** file and double-click on it.

The **InstallShield Wizard** Welcome Window is displayed.

2. To proceed with the installation, click **Next.**

The License Agreement Window is displayed.

3. Review the terms of the agreement. If you agree with the terms of the License Agreement, click **Yes.**

The **Customer Information** dialog is displayed.

4. Enter your User Name and Company Name and click **Next** to continue.

The **Find Java Virtual Machine** dialog is displayed.

Select or browse to a different directory to select a JVM executable and click Next.
The installer checks the version. If it is not the correct version, a message is displayed.

When the correct version of JVM has been found, the **Change Password** dialog is displayed.

6. Enter a new password and confirm it; click **Next** to continue.

The **Start Copying Files** screen is displayed.

7. The Start Copying Files window requests that you review your selections before

continuing. When you are satisfied with your settings, click Next.

- **8.** The wizard will now install XPC 4.1. After a few minutes, the **InstallShield Wizard Complete** Window is displayed.
- **9.** Click **Finish** to complete the installation.

Change Password or Remove Program

XPC 4.1 provides a GUI interface to remove the 4.1 patch or change your password for the encryption broker.ini file. If you wish to change the password or remove the patch, this wizard can be reached from **Start | Settings | Control Panel | Add/Remove Programs**. Alternatively, if you launch **setup.exe** from the Installation CD once XPC 4.1 is installed, you will have these options.

To change your password:

- Launch the Change Password and Remove program using Add/Remove Programs, or by double clicking on setup.exe on your Installation CD.
 The Welcome screen will display.
- 2. Choose Change Password and click Next to continue.

The **Change Password** screen will display.

Enter your old password, then a new password. Confirm the new password, click Next to continue.

The **Maintenance Complete** screen will display.

4. Click **Finish** to close the maintenance program.

To remove XPC 4.1:

- Launch the Change Password and Remove program using Add/Remove Programs, or by double clicking on setup.exe on your Installation CD.
 The Welcome screen will display.
- 2. Choose Remove XML Portal Connector 4.1 and click Next to continue.

 The Change Password screen will display.
- **3.** Enter your current password to authorize the program removal, and click **Next** to continue.

The Maintenance Complete screen will display.

4. Click **Finish** to close the maintenance program.

Summary of Setup Steps

The steps for setting up a test installation include installing locally and connecting with MarketSite. For a production installation, configure for security and configure advance options as needed.

All Setup Steps are listed in this table; refer to the last column of the table for locations of complete instructions.

Step	Action	Reference
1	Verify that your XPC server is ready for installation.	System Requirements on page 1-5
2	Remove previous XPC 3.2 installation, if it exists.	Removing a Previous XPC Installation on page 1-6
3	Install the files from your XPC CD.	Adding JDK to Path Variable on page 1-6
4	Use the XPC Invoker to verify the local installation.	Testing the Installation Locally on page 1-8
5	Register in MarketSite 3.x and configure for https. or Register in MarketSite 4.1 and configure for SonicMQ.	Connecting to MarketSite on page 2-1
6	Configure and restart XPC.	Configuring XPC on page 2-8
7	Send a round-trip ping to MarketSite.	Testing Your Configuration on page 2-10
8	This completes testing of your basic installation and MarketSite communication.	
9	Add security for your Production installation.	Security for Production Systems on page 3-1
10	Plan and configure advanced options in your Production installation.	Advanced Configuration on page 4-1

Step	Action	Reference
11	Test your Production installation.	Testing Your Production Installation on page 3-13
12	Review Administration and Troubleshooting methods.	Administration on page 6-1 and Troubleshooting on page 7-1.

System Requirements

The hardware and software requirements are listed in this section. The example environment described in this section is used to test XPC at Commerce One.

Verify that you have the system requirements before following installation instructions.

Hardware Requirements

The current release of XPC with SonicMQ (when both are run as NT Services) will occupy a minimum memory footprint of about 120 MB and a disk footprint of about 500kb. The memory footprint includes the entire Java runtime environment and the XPC server. System requirements include:

Memory: 512 MB minimumDiskspace: 100 MB minimum

Note The default heap (-mx) requirement for JVM is 512M. If large messages are sent frequently, increase the JVM -mx to 1024M.

Software Prerequisites

Commerce One certifies XPC 4.0 for the following environment:

- Windows NT 4.x Server with Service Pack 6a
- If you plan to use https transport, it must be installed. SonicMQ 3.0 reliable messaging is bundled with XPC and is used internally in the XPC server, whether you use https and/or SonicMQ to connect to MarketSite.
- 128 bit or 56 bit encryption with Secure Socket Layer (SSL), X.509 certificate
- XPC 4.0 requires and supports JDK 1.2.2_006 or higher without HotSpot. It does not support JDK 1.3. Sun makes the JDK 1.2.2_006 version available at http://java.sun.com/products/archive/j2se/1.2.2_006/index.html.

You must add the JDK bin directory to your system environment Path variable before installing XPC (refer to Adding JDK to Path Variable on page 1-6). If it is not present, a message such as *Unable to open Password file* or *Unable to open broker.key file* displays and SonicMQ, an integral feature of XPC 4.0, will not install.

Note You can have multiple JVMs on your machine, and also have HotSpot VM installed. The installer will ask you for the location of a 1.2.2_006 (or higher within the 1.2.2_006 series of the Sun JVM) version of java.exe. It will then place this absolute PATH into the XPC invocations of java. XPC's invocations of java also use the **-classic** option to force the use of the Classic VM, even if the HotSpot VM is present.

Removing a Previous XPC Installation

Before beginning the installation procedure, you must first **Stop** and **Unregister** the XCC server and then remove any existing XPC installations from your computer. Follow these steps to remove any XCC and XPC installation files.

- 1. To stop XPC, select Start | Programs | commerceone | XML Portal Connector 3.2 | Stop.
- To unregister the XCC server, select Start | Programs | commerceone | XML Portal Connector 3.2 | Unregister.
- 3. Select Start | Settings | Control Panel. Double-click on the Add/Remove Programs icon on the Control Panel. The Add/Remove Programs Properties dialog is displayed. Select the Install/Uninstall tab, find and select XML Portal Connector 3.2. Then click on the Add/Remove button from the dialog box. (Commerce One does not support the Repair and Update options.)
- **4.** Manually delete the transmitter\ccs\certs directory and all its subdirectories and files in the commerceone directory.

NoteIf you try to install XPC without first deleting the transmitter\ccs\certs directory, the initsecureclient script will fail.

Adding JDK to Path Variable

Because XPC requires Java, you must add the JDK location to the Path Variable.

1. From the Start menu, select Setting | Control Panel | System. The System Properties window is displayed.

- 2. Select the Advanced tab and then Environment Variables.
- In the System variables section of the Environment Variables dialog, select Path and click on the Edit... button.
- **4.** Add the JDK bin location, usually c:\jdk1.2.2_006\bin, to the semi-colon delimited Path string. Click **OK** buttons on the Edit, Environment Variables, and System Properties windows to save your new Path variable.

Installing XPC

Before installing, determine:

- The name of your XPC server.
- XPC location. You can install in the default location or specify another directory for XPC files. The default location is recommended.
- Location for SonicMQ source directory.

Using your installation CD, follow these steps to install XPC on a Windows NT system.

1. Find the **setup.exe** file and double-click on it.

The **InstallShield Wizard** Welcome Window is displayed.

2. To proceed with the installation, click **Next**.

The License Agreement Window is displayed.

3. Review the terms of the agreement. If you agree with the terms of the License Agreement, click **Yes.**

The Find Java Virtual Machine dialog is displayed.

- **4.** Select or browse to a different directory to select a JVM executable. The installer checks the version. If it is not the correct version, a message is displayed.
 - When the correct version of JVM has been found, the **XPC Server Name** Window is displayed.
- **5.** Enter the name of your XPC server and click **Next**.
 - The **Destination Location** Window is displayed. The Destination Folder is the location where XPC is to be stored.
- **6.** If you click **Next**, the wizard installs XPC in **c:\commerceone\Xpc**. If you prefer to change the XPC location, **Browse** to a different directory to select another location and click **Next**.

Note If you choose to enter a directory, be aware that blank spaces are not allowed. For example, the path **c:\Program Files\XPC** is invalid.

The **Choose Source Directory** window prompts you to enter the location for SonicMQ installer files.

7. Enter the directory for SonicMQ installer files.

The **Start Copying Files** window is displayed.

- **8.** The **Start Copying Files** window requests that you review your selections before continuing. When you are satisfied with your settings, click **Next**.
- **9.** The wizard installs XPC and displays the progress on the **Setup Status** window. During this time, your xCBL schema and event catalog structures are established, several transmission and security processes are enabled, and property files are updated with the <install:root> directory you entered as your Destination Location and XPC Location.

Setup message dialogs display messages about the SonicMQ installation process. After a few minutes, the **InstallShield Wizard Complete** Window is displayed.

- **10.** The **InstallShield Wizard Complete** Window asks you to choose whether or not to restart your computer now. Before using XPC, you must restart your computer. Choose to restart your computer now or later, and click **Finish**.
 - You have completed the XPC installation. After your computer is restarted, proceed to the next steps to verify that your settings are correct.
- **11.** To verify your installation, after rebooting, select **Start |Settings | Control Panel**. Click on the **Services** icon. On the **Services** window, verify that **CCSNTService** (XPC) and **SonicMQService** are started.

Testing the Installation Locally

Before connecting to MarketSite, follow these instructions to verify a correct local installation.

- 1. To verify your communication, select **Start** | **Programs** | **XML Portal Connector 4.0** | **Invoker.** The **XPC Invoker** window is displayed.
- **2.** On the **XPC Invoker Window**, click on the **Ping** button in the lower left corner.
- **3.** The installation is successful if the response message, similar to the response shown here, ends with **Pong**.

<?soxtype urn:x-</pre>

commerceone:document:com:commerceone:ccs:doclet:ping:Ping.sox\$1.0?><?import

```
urn:x-commerceone:document:com:commerceone:ccs:doclet:ping:Ping.sox$1.0?>
<Pong><PingInfo>nr=0</PingInfo>
<ServerTime>Tue Feb 06 21:49:59 PST 2001
<ServerConfig>VeoServer</ServerConfig>
<ServerUser><UserName>SYSTEM</UserName>
<UserTimezone>America/Los_Angeles/UserTimezone>
<UserRegion>US</UserRegion>
<UserLanguage>en</UserLanguage>
<UserHomeDir>C:\commerceone\Xpc\runtime\servers\defaultserver</UserHomeDir>
<UserCurrentDir>C:\WINNT\system32</UserCurrentDir>
</ServerUser>
<ServerHost><HostName>cingersoll-lt</HostName>
<HostAddress>10.10.9.188/HostAddress>
</ServerHost>
<ServerOS><OSName>Windows NT</OSName>
<OSVersion>4.0</OSVersion>
<OSArch>x86</OSArch>
</ServerOS>
<ServerConnection><ConnectionPort>Unknown Port/ConnectionPort>
<ConnectionPath>Unknown Path/ConnectionPath>
<ConnectionProtocol>Unknown Protocol/ConnectionProtocol>
<ConnectionMethod>Unknown Method/ConnectionMethod>
<ConnectionQuery>Unknown Query</ConnectionQuery>
<ConnectionAuthType>Unknown Auth Type/ConnectionAuthType>
<ConnectionClientAgent>Unknown Agent/ConnectionClientAgent>
</ServerConnection>
<ServerJava><JavaVersion>1.2.2</JavaVersion>
<JavaVendor>Sun Microsystems Inc./JavaVendor>
<JavaCompiler>symcjit</JavaCompiler>
<JavaJRE>false
</ServerJava>
<ServerSecurity><SecurityServerRealm>No Realm/SecurityServerRealm>
<SecurityServerCertificate>No Server Certificate/
```

```
SecurityServerCertificate>
<SecurityUserKeyStore>No Keystore</SecurityUserKeyStore>
</ServerSecurity>
<ServerOoS><PerformanceMetric>0.0/PerformanceMetric>
<NetworkMetric>0.0</NetworkMetric>
<MemoryAvailable>7522272/MemoryAvailable>
<DiskAvailable>0</DiskAvailable>
</ServerOoS>
</Pong>
                   4. If the response is unsuccessful, the response is similar to the following. In this case,
                     access the systemStartup or debug files in the
                     <install:root>\runtime\servers\<SERVERNAME>\logs directory
                     and read the error messages.
<?soxtype urn:x-</pre>
commerceone:document:com:commerceone:ccs:doclet:error:Error.sox$1.0?><?impo
rt urn:x-
commerceone:document:com:commerceone:ccs:doclet:error:Error.sox$1.0?>
<Error><Code>INVOKER ERRORGENERIC</Code>
<DefaultMessage><Message><MessageString>ERROR:
com.commerceone.ccs.excp.comm.communicator.TimeoutException: !!!
sendAndReceive: Timeout '10000' expired</MessageString>
<LanguageCode>en</LanguageCode>
</Message>
</DefaultMessage>
<Severity>Error</Severity>
```

</Error>

2 Connecting to MarketSite

This chapter provides the steps required to connect to MarketSite and test the communication between your XPC installation and MarketSite. Information and instructions are given as listed in the table of steps.

The following SonicMQ-related terms are used in this chapter.

Inter- Broker port	Port on which the local sonic broker listens for connections from the portal sonic broker.
Sonic to Broker port	Port on which the local sonic broker listens for connections from sonic clients running in either the local XPC server or the Invoker.
Sonic Node Name	The node name for the local sonic installation. This name is chosen by the trading partner and submitted to MarketSite Builder (MSB). Must be unique within a particular portal.
Sonic Queue Name	The queue name for the local sonic installation. This name is chosen by the trading partner and submitted to MarketSite Builder (MSB). Must be unique within a broker.
Portal Node Name	SonicMQ node name for the portal's sonic installation.
Portal Address	Address for the portal's SonicMQ installation.
Portal Port	Port on which the portal's sonic broker listens for connections from other sonic brokers.

Production Mode	A mode of sonic configuration that uses certificates for broker-to-broker authentication.
Test Mode	A mode of sonic configuration that uses userid and password for broker-to-broker authentication.

Step	Action	Reference
1	Determine which version of MarketSite with which to connect.	Which Version of MarketSite? on page 2-2
2	Register yourself as a Trading Partner on MarketSite. In MarketSite3.x, also register the Trading Partner destination address. Trading Partner will receive registration email. In MarketSite 4.1, self register the Trading Partner destination address by using the information in the email.	Registering in MarketSite 3.x on page 2-3 or Registering in MarketSite 4.1 on page 2-3
3	For MarketSite 4.1, register Sonic MQ broker and receive Sonic MQ Broker registration confirmation email.	SonicMQ Broker Registration Confirmation on page 2-7
4	Configure XPC for communication with the Marketsite you registered with at Step 2.	Configuring XPC on page 2-8
5	Test the configuration by running the pingMarketSite script.	Testing Your Configuration on page 2-10

Which Version of MarketSite?

Will you connect with MarketSite 3.x or MarketSite 4.1?

MarketSite 3.x	MarketSite 4.1
MarketSite operator registration	Trading Partner self-registration or MarketSite operator registration
https transport	SonicMQ transport and/or https

Registering in MarketSite 3.x

You provide the Trading Partner information, the IP address of your XPC installation machine, and its HTTPS Port to register with MarketSite3.x. The default port value is 4433, which is created at installation. If you wish to change this port before registering, refer to Configuring XPC on page 2-8. This change is optional and not normally recessary.

After registration, you will receive a Trading Partner registration email.

Registering in MarketSite 4.1

Here are the defaults for the data you need to register with MarketSite 4.1. These defaults are created when XPC is installed. If you wish to change any of this information before registering, refer to Configuring XPC on page 2-8. This is optional and not normally necessary.

- **HTTPS Port** is 4433
- Inter-Broker Port is 2506
- **Sonic Node Name** is the <fully-qualified hostname> of the machine on which XPC has been installed. For example, if XPC has been installed on venus.commerceone.com, the sonic node name will default to venus.commerceone.com.
- **Sonic Queue Name** is XPC_<fully-qualified hostname>_ConnectorInbound with any dots in hostname replaced by underscore'_.' For example, if XPC has been installed on venus.commerceone.com, the queue name will default to XPC_venus_commerceone_com_ConnectorInbound.

Request a copy of *MarketSite Builder User Guide: Trading Partners for MarketSite4.1* from your MarketSite operator. This manual gives the details you need to use MarketSite Builder for:

- Trading Partner Registration
 - Log in as guest for self-registration or contact MarketSite operator to register.
 - Select Register TP.
 - Enter information such as Org Id, Company Name, User Id, Last Name, First Name, and so on.
 - Wait to receive Trading Partner Registration email.
- Manage Document Destination

- Log in using the User Id/Org Id/Password that you received in the Trading Partner Registration email.
- Select Manage Doc Destinations.
- On the **Destination Address** window, provide the https information (https:// XpcInstallationMachine:HTTPS Port/xcc), and the sonic information (Sonic Node Name::Sonic Queue Name).
- Manage Sonic MQ Broker
 - Log in using the User Id/Org Id/Password that you received in Trading Partner Registration email.
 - Select Register Sonic MQ Broker.
 - Enter the information for Node Name (Sonic Node Name), IP Address (IP of XPC installation machine), Port Number (Inter-Broker Port), and Queue Name (Sonic Queue Name).
 - Wait to receive Sonic MQ Broker Registration Confirmation email.

Receiving Confirmation Emails

After registering with MarketSite, you will receive a Trading Partner Registration email and, for MarketSite 4.1 only, a SonicMQ Broker Registration Confirmation email.

Trading Partner Registration Email

Here is an example trading partner email for MarketSite4.1. The information from this email that is needed in Configuring XPC on page 2-8 is highlighted in **bold**.

TP Administrator:

Login information:

User Id: TPTestAdmin Organization Id: TPTest

Password: j7R766a6

Your company registration has been completed with the following information:

```
Company name: TPTest.com
    Contact name: Mark Peterson
    Contact Email address: mark.peterson@TPTest.com
    TPID: dbf029ac-7812-1000-aeb1-0a0a01090001
    Authorizing Entity ID: dbf029ac-7812-1000-aeb1-0a0a01090001
    DUNS:
    EANID:
    LegacyId0:
    LegacyId1:
Basic business profile information:
    Visibility Code: NMM
    Commodity Code (Buy):
    Commodity Code (Supply):
    URL:
    Logo URL:
    Description:
    Terms and Conditions:
    Phone number:
    Fax number:
    Street:
    City: San Francisco
    State:
    Postal Code:
    Country: US
    Language: en
    Timezone: PST
    Currency: USD
```

Administrator contact information:

```
Name: Mark Peterson
    Title:
    Email address: mark.peterson@TPTest.com
    Phone number:
    Fax number:
    Street:
    City: San Francisco
    State:
    Postal Code:
    Country: US
    Language: en
    Timezone: PST
    Currency: USD
Business contact information:
    Name: Mark Peterson
    Title:
    Email address: mark.peterson@TPTest.com
    Phone number:
    Fax number:
    Street:
    City: San Francisco
    State:
    Postal Code:
    Country: US
    Language: en
    Timezone: PST
    Currency: USD
```

System configuration information:

Portal MPID: b2b7a208-780e-1000-9b62-0a0a09340001

Profile service MPID: 4f19337a-7812-1000-b12f-0a8203670001

System account ID: TPTest

System account password: gg62aNJ3
Portal URL: test.commerceone.com

SonicMQ Broker Registration Confirmation

For MarketSite 4.1, you will receive an email confirming your SonicMQ registration. The information from this email that you use in Configuring XPC on page 2-8 is highlighted in **bold**.

Your sonic MQ broker registration has been completed with the following information:

Node name: xpcmachine.TPTest.com

Address type: CertAddress IP address: 12.12.12.1

Port number: 2506

Queue name: XPC_xpcmachine_TPTest_com_ConnectorInbound

Queue type: queuetype

The following is the information for the portal node:

Portal node name: commerceone.com

Portal IP address: test.commerceone.com

Portal port number: 2506
Portal IP address (backup):
Portal port number (backup):

Thank you.

Configuring XPC

With XPC installed and the Trading Partner registration and administration with MSB completed, follow these steps to configure XPC for communication with the MarketSite with which you registered.

NoteMake sure the XPC Server is started before you begin these steps. If the XPC Server is not running,, the Configure XPC tool cannot connect to the SonicMQ broker to retrieve and save SonicMQ routing information.

- **1.** From the **Start** menu, select **Programs |XML Portal Connector 4.1 | Configure**. The **Configure XPC** window is displayed with the following sections:
 - · XPC Server
 - · Local Communication
 - Portal Communication
 - Transport Preferences
 - Sonic / Https Communication
 - Proxy Configuration
- **2.** The **XPC Server** box contains defaults created during your installation session of the machine on which you have installed XPC. These are described in Configuring Additional Options on page 4-5.
- **3.** The **Local Communications** section contains the defaults created during your installation. The defaults and examples are given in Registering in MarketSite 3.x on page 2-3 and Registering in MarketSite 4.1 on page 2-3.
- **Warning!** If you change **Local Communications** information after having registered with MarketSite, you will need to amend your MarketSite registration.
- 4. For Portal Communication, the first box is Trading Partner Information.
 - For **TPID**, enter the value of your TPID (for MarketSite4.1) or the value of your MarketParticipantID (MPID for MarketSite3.x). The TPID value is given in your Trading Partner registration email.
 - For **System Account Id**, enter the value of your System account ID (for MarkteSite4.1) or the value of your System ID (for MarketSite3.x). The System Account ID is given in your Trading Partner registration email.
 - For **System Account Password**, enter the value of your System account password (for MarketSite4.1), or the value of your System Password (for MarketSite3.x). The password is given in your Trading Partner registration

email.

Ignore the **Certificate Manager** button at this time. You will use it to configure security for production mode; refer to Security for Production Systems on page 3-1 for details.

- **5.** To configure your **Transport Preferences**, select Preference1 or Preference2 for sonic and/or https. You must select here the same choice(s) as you entered in MarketSite Builder (Manage Document Destination).
- **6.** If you are using SonicMQ, select the **sonic** tab. What you enter here determines a routing connection from your XPC installation to the MarketSite where you are registered.
 - For the Production Mode checkbox, certificates are used to authenticate
 between Portal and Trading Partner brokers if it is checked; otherwise userid/
 password is used for authentication to Portal from Trading Partner. If you have
 registered with a test MarketSite, this checkbox should be unchecked.
 - For Portal Address, enter the Portal IP address from your Sonic MQ Broker registration email.
 - For **Portal Port**, enter the Portal port number from your Sonic MQ Broker registration email.
 - The **Portal Node Name**, enter the Portal Node Name from your Sonic MQ Broker registration email.
- **7.** If you are using https, select the **https** tab. Your XPC server properties are updated with the information you enter here.
 - **Portal Address** -obtain this information from the Portal Document Destinnation Address in the Trading Partner registration email.
 - **Portal Port** obtain this information from the Portal Document Destinnation Address in the Trading Partner registration email.
- **8.** If you wish to configure a Proxy Server at this time, refer to Configuring Additional Options on page 4-5.
- **9.** Review your entries. If you find an error, press either the Clear button or the Reset button at the bottom of the window and re-enter your data.
 - The Clear button clears all data.
 - The **Reset** button reverts to the previously saved settings.

When you have verified that the information is correct, press the **Save** button to update the property files.

A message dialogs reminds you to restart the XPC Server.

- **10.** To exit the Configure XPC window, press the **Exit** button.
- 11. For your settings to take effect, stop and restart the XPC server (from the Start menu, Programs | XML Portal Connector 4.1 | Stop and then Programs | XML Portal Connector 4.1 | Start.

Testing Your Configuration

To test the communication between your XPC server and MarketSite, run PingMarketSite, as in these steps.

1. Run <install:xpc>\bin\pingMarketSite.bat:

```
cd <install:xpc>\bin
pingMarketSite
```

A self-addressed ping document is sent to MarketSite.

- **2.** MarketSite routes the ping document to the Trading Partner destination address that you registered, your XPC address.
- **3.** A ping service run on your XPC server receives the ping document and generates a pong document and sends the pong document to MarketSite.
- **4.** MarketSite routes the pong document to your address.
- **5.** Upon receipt of the pong document, you have successfully completed the test of your MarketSite configuration. The self-addressed ping tests the registration of Trading Partner, Document Destination, and SonicMQ Broker, if SonicMQ is used.

You can also send the ping document to MarketSite with the ping service running, and receive the pong document from MarketSite. To do this, you can add one argument of recipient <MarketSite MPID for MarketSite3.x/Portal MPID for MarketSite4.1 from Trading Partner Registration email> in <install:xpc>\bin\pingMarketSite.bat script. The ping sent to MarketSite ping service tests only the registration of Trading Partner and SonicMQ Broker, only if SonicMQ is used; it does not test Document Destination.

Because this script uses the com.commerceone.sample.xpc.docsender.DocSender class, you can find the detail information how to invoke this class in the README.txt under <install:xpc>\sample\com\commerceone\sample\docsender.

3 Security for Production Systems

This chapter describes how to set up XPC for production on Windows NT. It includes the following sections:

- Firewall and Network Requirements on page 3-1
- Certificate Manager on page 3-3
- Authentication for Production Using https on page 3-3
- Authentication for Production Using SonicMQ on page 3-9
- Testing Your Production Installation on page 3-13.

Firewall and Network Requirements

This section details security considerations forn deploying the XPC Server and applications into a Trading Partner (TP) site with existing security, firewall, and proxy policies, and LAN topologies. The XPC adminstrator must use the firewall and network information given here while considering local Information Technology (IT) practices.

XPC 4.1 Server and SonicMQ Broker cannot currently be deployed in the DMZ due to a XPC 4.1 installation limitation.

XPC 4.1 supports two transfer or transport protocols, HTTP/S and JMS-based SonicMQ over Secure Sockets Layer (SSL):

- Inbound/Outbound https traffic from the internet is always to/from a MarketSite Portal Router. The message size (envelope including attachements) for https has a 10MB limit.
- Inbound/Outbound JMS/Sonic MQ over SSL traffic is always to/from a MarketSite

Sonic MQ Broker. The message size (envelope including attachements) for Sonic has a 10MB limit. Sonic MQ is automatically installed during XPC installation.

Planning for XPC Deployment

In planning for XPC Deployment, note that:

- The XPC server and its SonicMQ Broker must be installed on the same NT machine in an internal protected network, that is, behind the firewall.
- In addition to having the XPC Server in a protected network, Commerce One strongly recommends that passwords stored in application property files be protected by encryption. All passwords used by the XPC server and Sonic MQ Broker are encrtypted for you by XPC.
- Correct Microsoft NT Lock Down procedures are strongly recommended. Refer to Microsoft Secure NT documentation in http://www.microsoft.com/ntserver/security/exec/overview/Secure_NTInstall.asp.

Internal Firewall Requirements

The following table summarizes the requirements for the XPC and transport connections.

	https	SonicMQ
Target server	XPC https server	SonicMQ Broker SSL server
Protocol	https	ssl
Firewall TCP Port	4433	4433

Proxy Firewall Requirements

If you are using the Proxy option (refer to Using Forward Proxy on page 4-2), the firewall requirements are as follows.

XPC applications can optionally connect to MarketSite through a local forward (SSL) proxy over both https and SonicMQ/SSL Transport. Commerce One supports both standard https and SSL Proxies. It is recommended that the Proxy Server address can be resolved by the local DNS available to the XPC application. If local DNS cannot resolve the proxy address, then configure the explicit IP address of the proxy Server

in the XPC application in the Proxy Host field of the Configure XPC window. For more information on Forward and Reverse Proxy, see Firewall and Network Requirements on page -7

Certificate Manager

Commerce One products use a web protocol to communicate with each other. As a web server, a Commerce One product uses the Secure Sockets Layer (SSL) to encrypt transactional data that travels outside of its own Local Area Network (LAN).

The Certificate Manager is a Commerce One tool for you to use to manage your KeyStore file, request and import a Certificate Authority root as Trusted Root, import a Server Certificate, and import a MarketSite Server Certificate as Trusted Client.

The authentication procedure differs between https and SonicMQ.

Authentication for Production Using https

Acquiring authentication requires pre-planning. It is recommended that you review the preparation and steps before you begin the steps.

Preparation for Authentication

Start now to arrange for your server certificate so that you are not delayed by Step 5. Contact your Certificate Authority and determine how much time their process requires.

Following the Steps

The steps detailed in this section for setting up security for https are summarized in this table. Note that to perform Steps 1 and 12, the XPC Server must be stopped. To stop the XPC Server, select **Start | Program | XML Portal Connector 4.1 | Stop**.

Step	Description
1.	With the XPC server stopped, make a backup of keystore.
2.	Create a new server entry.
3.	Create a certificate request.
4.	Submit that certificate request

Step	Description
5.	Receive server certificate from your Certificate Authority (CA).
6.	Import the certificate.
7.	Set the entry as active.
8.	Optionally, configure trusted CA root certificates.
9.	Trust your MarketSite.
10.	Enable Client Authentication.
11.	Change the keystore password.
12.	With XPC Server stopped, make a new backup of keystore.

- 1. To make a backup copy of keystore, find the serverstore file in the <install:root>\runtime\servers\<your server name>\certs directory. Make a copy of that file and save it with a different name, such as xpc_serverstore_default.
 - a) From the **Configure XPC** window, click the **Certificate Manager**button in the center of the window. The **Certificate Manager** window is displayed.
 - b) In the **Certificate Manager** window, enter the following information:
 - **Server** Choose the server where the keystore is located. The Certificate Manager will auto populate this field with your options; choose the correct one from the drop-down menu.
 - **Password** The password for the KeyStore you will open. The password for default test Keystore is *admin*; you change this password in task 11.
 - b) Click **Open a Keystore**. This opens the main window for the Certificate Manager.
- 2. To create a new server entry, select the **Configure Server Entries** tab. Then click **Create**. The **Create Certificate Entry** dialog is displayed.
 - a) Complete these fields in the Create Certificate Entry dialog.

Field Name	Description
Certificate Entry Name	The name you choose for your new entry.

Field Name	Description
Algorithm Type	For algorithm type, RSA is the default. Choose RSA for an RSA keypair. Choose DSA for a DSA keypair.
Key Size	This determines the size of the keys. 56-bit version has a default of 1024 bit, but can also be 512 bit. 128-bit version has a default of 1024 bit, but can also be 512 bit or 2048 bit.

- b) Click the Create Certificate Entry button.
- c) A window shows confirmation that your server entry was created successfully. Click the **OK** button.
- d) The **Configure Server Entries** window displays your new entry. The Certificate Details section lists *Dummy Certificate!*
- **3.** To create a certificate request, select the **Create Certificate Request** tab. The **Create Certificate Request** window is displayed.
 - a) Complete all fields marked with a *. Remaining fields are optional.

Caution The Certificate Manager requires a minimum of fields. Some Certificate Authorities require more fields than others and the format of each field may vary depending on the Certificate Authorities. Please refer to your Certificate Authorities documentation to determine which fields you need.

Field Name	Description
Certificate Entry Name	From the drop down menu, select the entry for which you are creating a certificate.
*Common Name	This is the common name of the entry or server name, such as MyServer.CommerceOne.com. Be aware that SonicMQ requires a different format for common name.
Email Address	Email address of the server administrator.
*Organization	Your company name.
Organizational Unit	Your organization within your company.

Field Name	Description
Locality	Your city.
State	Your state. This must be the full name, not the abbreviation. For example, use <i>California</i> not <i>CA</i> .
*Country	Two-letter country code for your country. For example, US for United States.
Algorithm Type	The algorithm type you chose when you created the entry. This field will auto populate.
Key Size	The key size you chose when you created the entry. This field will auto-populate.

- b) With the fields completed, click Create Certificate Request.
- c) You are prompted to enter a name and location for the certificate request file you are creating. The default is **certreq.p10**. The extension p10 indicates these files are in PKCS10 format. Make any changes as needed, and click **Save** to continue.
- d) The Save certificate request prompt confirms that the request file has been generated. Select **Copy to System Clipboard** to copy the request to the clipboard where it is easily accessible when you submit the request, or **Done** to finish and save the file.
- **4.** In this step, you submit the certificate request you created in the previous step to a Certificate Authority (CA) to have the security certificate generated. Each CA has its own method for fulfilling certificate requests. The instructions here outline the online system used by Verisign OnSite. For more information about Verisign services, visit their web site at http://www.verisign.com.
 - a) When a company registers with Verisign, Verisign assigns a special Secure Server Enrollment web page for that company. The company's administrator submits certificate requests at this page.
 - b) For each certificate request, the Verisign certificate request wizard asks for the exact server and directory name where the keystore was created.
 - c) The wizard requests that you cut and paste the entire contents of your certificate request file into the **Enter CSR Information** text box. To do this, open your certificate request file in an ASCII text editor such as Notepad (do not use a word processor such as Word that inserts formatting or control characters). Copy the entire contents and paste the entire contents including the
 - ----BEGIN NEW CERTIFICATE REQUEST---- and

- ----END NEW CERTIFICATE REQUEST---- markers.
- d) When you and the Verisign wizard are finished, the Verisign system generates the certificate. The certificate is sent to the administrator's email address.
- **5.** Receive server certificate from your Certificate Authority, either by email as in the Verisign example, or by some other method.
- **6.** To import the certificate, select the **Configure Server Entries** tab. Then click to select the entry where you wish the certificate imported. With the entry selected, click **Import**. The available import formats are:
 - Base 64
 - DER
 - PEM
 - PKCS7
 - PKCS12

Note The certificate must match the keypair stored in that entry and generated based on a certificate request for that entry.

Note The Certificate Manager will dynamically determine the format of the file you are importing, therefore the extension of the file is not important.

- a) From the resulting browser window, choose the certificate file you want to import and click **Open**.
- b) If the trusted root for this certificate authority is not yet within your keystore, a dialog prompts you to trust the Root certificate. Click **Yes** to continue.
- c) When the certificate has been imported, a confirmation window is displayed. Click **OK** to finish.
- Caution If the trusted root certificate is not available within the file being imported, you may need to import the root certificate separately first. To do so, follow the steps listed in Task 8, Configure Trusted CA Root Certificates.
- 7. Marking an entry as active indicates to your XPC server to use that entry from the keystore during startup. To set an entry as active, click on its name in the Entries dialog to select it, then click **Set as Active**. A confirmation screen is displayed when the entry is set as active. Click **OK**. A * precedes the name of an active entry in the Entries dialog.

Note You must restart the server after you have set an entry as active in order for the change to take effect.

- **8.** Configuring a trusted CA root certificate is not necessary if the trusted root certificate is included in the certificate you import from your Certificate Authority.
 - To configure a trusted root, select the **Configure Trusted Root** tab and click **Import**. The **Select certificate file to import** dialog is displayed. Select the Trusted Root CA file to import and click **Open**. When the operation is complete, a confirmation dialog is displayed. Click **OK**.
- **9.** To trust a MarketSite, get a copy of the MarketSite certificate from your MarketSite operator, typically by email.

Note The certificate must be in PKCS7 format.

- a) Go to the Configure Trusted Client tab. Click Import. The Select certificate file to import dialog is displayed.
- b) Select the Trusted client file and click **Open**. When the operation is complete, confirmation dialog is displayed. Click **OK**.
- 10. With XPC in Test mode, Client Authentication should be disabled. With XPC in Production mode, it should be enabled. To enable or disable Client Authentication, select the Configure Trusted Client tab. Click on disable or enable to change the setting.

Note You must restart the server after you have enabled or disabled Client Authentication in order for the change to take effect.

- **11.** To change a keystore password, select the **Change Password** tab. Then:
 - a) Enter your old password.
 - b) Enter the new password.
 - c) Re-type the new password to confirm it.
 - c) Click Change KeyStore Password.
- **12.** Ensure that the XPC Server is stopped. To make a new backup copy of keystore, find the serverstore file in the <install:root>\runtime\servers\<your server name>\certs directory. Make a copy of that file and save it with a different name, such as xpc_serverstore_https_production.
 - a) In the **Certificate Manager** window, enter the following information:
 - **Server** Choose the server where the keystore is located. The Certificate Manager will auto populate this field with your options; choose the correct one from the drop down menu.
 - **Password** The password for the KeyStore you will open.
 - b) Click Open a KeyStore.

Authentication for Production Using SonicMQ

Acquiring authentication requires pre-planning. It is recommended that you review the preparation and steps before you follow the steps.

Preparation for Authentication

Start now to arrange for your server certificate so that you are not delayed by Step 5. Contact your Certificate Authority and determine how much time their process requires.

Following the Steps

The steps detailed in this section for setting up security for SonicMQ are summarized here..

Step	Description
1.	Create a new server entry.
2.	Create a certificate request.
3.	Submit that certificate request.
4.	Receive server certificate from your Certificate Authority (CA).
5.	Import the certificate.
6.	Configure SonicMQ Broker.
7.	Import Trusted CA Root Certificate from MarketSite (optional).
8.	Make a backup file of the keystore file.
9	Stop and restart SonicMQ Broker.

Follow these steps to set up authentication for production using the Certificate Manager.

1. From the Configure XPC window, press the Manage Certificate button at the bottom of the window. The Certificate Manager window is displayed. If this is the first time you access this window, enter admin for the password and then set your own password. If you changed this password while performing the https steps, use

the new password now.

- 2. To create a new server entry, select the **Configure Server Entries** tab. Then click **Create**. The **Create Certificate Entry** dialog is displayed.
 - a) Complete these fields in the Create Certificate Entry dialog.

Field Name	Description	
Certificate Entry Name	The name you choose for your new entry.	
Algorithm Type	For algorithm type, RSA is the default. Choose RSA for an RSA keypair. Choose DSA for a DSA keypair.	
Key Size	This determines the size of the keys. 56-bit version has a default of 1024 bit, but can also be 512 bit. 128-bit version has a default of 1024 bit, but can also be 512 bit or 2048 bit.	

- b) Click the Create Certificate Entry button.
- c) A window shows confirmation that your server entry was created successfully. Click the **OK** button.
- d) The **Configure Server Entries** window displays your new entry. The Certificate Details section lists *Dummy Certificate!*
- **3.** To create a certificate request, select the **Create Certificate Request** tab. The **Create Certificate Request** window is displayed.
 - a) Complete all fields marked with a *. Remaining fields are optional.
- Caution..... The Certificate Manager requires a minimum of fields. Some Certificate
 Authorities require more fields. Please refer to your Certificate
 Authorities documentation to determine which fields you need.
- *Caution* . The Common Name of the certificate must be the same as the XPC Broker node name for authentication to proceed

correctly.

Field Name	Description	
Certificate Entry Name	From the drop down menu, select the entry for which you are creating a certificate.	
*Common Name	This is the common name of the certificate and must be the same as XPC broker node name.	
Email Address	Email address of the server administrator.	
*Organization	Your company name.	
Organizational Unit	Your organization within your company.	
Locality	Your city.	
State	Your state. This must be the full name, not the abbreviation. For example, use <i>California</i> not <i>CA</i> .	
*Country	Two-letter country code for your country. For example, US for United States.	
Algorithm Type	The algorithm type you chose when you created the entry. This field will auto populate.	
Key Size	The key size you chose when you created the entry. This field will auto-populate.	

- b) With the fields completed, click Create Certificate Request.
- c) You are prompted to enter a name and location for the certificate request file you are creating. The default is **certreq.p10**. The extension p10 indicates these files are in PKCS10 format. Make any changes as needed, and click **Save** to continue.
- d) The **Save certificate request** prompt confirms that the request file has been generated. Select **Copy to System Clipboard** to copy the request to the clipboard where it is easily accessible when you submit the request, or **Done** to finish and save the file.
- **4.** In this step, you submit the certificate request you created in the previous step to a Certificate Authority (CA) to have the security certificate generated. Each CA has its own method for fulfilling certificate requests. The instructions here outline the online system used by Verisign OnSite. For more information about Verisign services, visit their web site at http://www.verisign.com.

- a) When a company registers with Verisign, Verisign assigns a special Secure Server Enrollment web page for that company. The company's administrator submits certificate requests at this page.
- b) For each certificate request, the Verisign certificate request wizard asks for the exact server and directory name where the keystore was created.
- c) The wizard requests that you cut and paste the entire contents of your certificate request file into the **Enter CSR Information** text box. To do this, open your certificate request file in an ASCII text editor such as Notepad (do not use a word processor such as Word that inserts formatting or control characters). Copy the entire contents and paste the entire contents including the
- ----BEGIN NEW CERTIFICATE REQUEST---- and
- ----END NEW CERTIFICATE REQUEST---- markers.
- d) When you and the Verisign wizard are finished, the Verisign system generates the certificate. The certificate is sent to the administrator's email address.
- **5.** Receive server certificate from your Certificate Authority, either by email as in the Verisign example, or by some other method.

To import the certificate, select the **Configure Server Entries** tab. Then click to select the entry where you wish the certificate imported. With the entry selected, click **Import**. The available import formats are:

- Base 64
- DER
- PEM
- PKCS7
- PKCS12

NoteThe certificate must match the keypair stored in that entry and generated based on a certificate request for that entry.

Note The Certificate Manager dynamically determines the format of the file you are importing; therefore the extension of the file is not important.

- a) From the resulting browser window, choose the certificate file you want to import and click **Open**.
- b) If the trusted root for this certificate authority is not yet within your keystore, a dialog prompts you to trust the Root certificate. Click **Yes** to continue.
- c) When the certificate has been imported, a confirmation window is displayed. Click **OK** to finish.

Caution.... If the trusted root certificate is not available within the file being

imported, you may need to import the root certificate separately first. To do so, follow the steps listed in Step 8 of HTTPS section.

6. Select the Configure SonicMQ Broker tab. Enter the password in the Broker Keystore Password field and re-enter the password in the Confirm Password field. Click Configure.

Note You can enter any value you would like for the password. It is used for encryption of the certificate file.

- **7.** Select the **Configure SonicMQ Broker** tab. Click **Import Trusted Root**. Select the trusted root certificate file from File Browser, and click **OK**.
- 8. To make a new backup copy of keystore, find the serverstore file in the <install:root>\runtime\servers\<your servername>\certs directory. Make a copy of that file and save it with a different name, such as xpc_serverstore_https_sonic_production. (If you chose to go through HTTPS steps first and then the SonicMQ steps, at this point, the keystore contains certificate information for both HTTPS and SonicMQ).
- **9.** Stop and restart SonicMQ Broker Service. Using **Start | Settings | Control Panel | Services**, stop then restart SonicMQService.

Note.......... Note.... SonicMQService needs to be restarted in order for the newly installed certificate to take effect.

Testing Your Production Installation

To test the communication between your XPC server and MarketSite, contact your MarketSite operator and request a Ping test. When the MarketSite operator pings your XPC installation and receives a response, your installation is verified as communicating correctly.



4 Advanced Configuration

This chapter provides the steps for adding special options to a production installation of XPC on Windows NT. The steps include:

- **1.** Configure advanced options and restart XPC. Refer to Configuring Additional Options on page 4B-5.
- **2.** Request your MarketSite operator complete a Ping test. Refer to Testing Your Production Installation on page 3B-13.

Planning for Special Options

Items in this section address unique or special situations that require advance planning. These items are optional.

Adjusting Java Heap Size

XPC 4.1 requires and supports JDK 1.3 without HotSpot. Sun makes the JDK 1.3 version available at http://java.sun.com/products/archive/j2se/1.3/index.html.

The size of the Java heap is a significant performance factor. The recommended java heap size for the XPC 4.1 is 512 MB. If you plan to send or receive very large messages or have multiple concurrent sessions in your application, you should increase the java memory for the client machine accordingly, keeping your available memory in mind:

- The more memory you set, the less Java uses garbage cleanup, which results in better performance.
- If the Java heap size is too high and it exceeds the memory available to the JVM process, performance can significantly degrade as a result of page swapping in the

underlying operating system. The memory available to the JVM might not match the total memory in the server machine due to the memory requirements of other processes.

If you choose to modify the java heap size, use the **-Xms** option for setting the minimum heap size for use by the Java VM. Set the parameter in these files:

- <install:root>\bin\ccsntservice.prop
- <install:root>\bin\launch.bat
- <install:root>\runtime\servers\defaultserver\config\startup\exec.prop

Then restart the XPC server.

Using Forward Proxy

Outbound (forward) http and https traffic headed to MarketSite can be routed through a proxy server located in the demilitarized zone (DMZ). Outbound communications through a proxy server provides support for any http/https based proxy server that follows the standard HTTP1.1 proxy connection protocol. More information on Forward Proxy can be found in Firewall and Network Requirements on page B-7.

You enter the Proxy Host and Proxy Port settings on the **Configure XPC** window (**Start | Program | XML Portal Connector 4.1 | Configure**). The settings can be changed anytime after initial installation.

Using the Versioning Library

The Versioning Library is a set of Java classes that transforms a given xCBL document from one version to other. It is integrated and shipped with XPC 4.1. The Versioning Library Service is installed as an XPC Auxiliary Service as part of the XPC installation.

The Commerce One application listed in the first column uses the xCBL version listed in the second column.

Application	xCBL Version
BuySite 6.x	2.0
SupplyOrder 2.x	2.0
XPC 3.x	2.0

Application	xCBL Version
Galerie 3.x	2.0
Enterprise Buyer Desktop (EBD) 2.0 (formerly BuySite 7.0)	2.2
SupplyOrder 3.0	2.2
MarketSet Connector	3.0
XPC 4.14.1	3.0

You and your trading partner can exchange any of the documents listed here. The Versioning Library transforms the documents in either direction.

xCBL Document		xCBL Document
2.0 Purchase Order	\leftrightarrow	2.2 PurchaseOrder
2.0 PurchaseOrder Response	\leftrightarrow	2.2 OrderResponse
2.0 StatusResult	\leftrightarrow	2.2 OrderStatusResult
2.2 PurchaseOrder	\leftrightarrow	3.0 Order
2.2 OrderResponse	\leftrightarrow	3.0 OrderResponse
2.2 ChangeOrder	\leftrightarrow	3.0 ChangeOrder
2.2 ChangeOrderResponse	\leftrightarrow	3.0 OrderResponse
	ı	
2.0/2.2 PriceCheck	\leftrightarrow	3.0 PriceCheck
2.0/2.2 PriceCheckResult	\leftrightarrow	3.0 PriceCheckResult
2.0/2.2 AvailabilityCheck	\leftrightarrow	3.0 AvailabilityCheck
2.0/2.2 AvailabilityCheckResult	\leftrightarrow	3.0 AvailabilityCheckResult

xCBL Document		xCBL Document
2.0/2.2 OrderStatus	\leftrightarrow	3.0 OrderStatus
2.0 OrderStatusResult	\leftrightarrow	3.0 OrderStatusResult
2.2 Invoice	\leftrightarrow	3.0 Invoice
2.2 ASN	\leftrightarrow	3.0 ASN

For information on disabling the Versioning Library as an Auxiliary Service, refer to Administration on page 6B-1.

The Versioning Library is installed with default properties, as listed here. If you need to change these settings, refer to Troubleshooting on page 7B-1 for more information.

Property	Your Data	Description	Values and Default
transformation.registry		Full path name of the TransformRegistry.xml file, which has meta data about transformations.	transformation.registry=c:\comme rceone\xpc\schema\TransformReg istry.xml By default, the file is installed under <install:root>\schema.</install:root>
transformation.internalversion		The xCBL version supported by the Application. Incoming documents are converted to this before application recieves it. For example, Buysite 7.0, EBD 2.0, and SupplyOrder 3.x support xCBL version 22 and use transformation.internalversion =22	Valid values are xCBL versions, 20 22 30. The default is 30: transformation.internalversion=30
transformation.externalv ersion		Lowest xCBL version supported by any Trading Partner sending you transactions.	Valid values are xCBL versions, 20 22 30. The default is 20: transformation.externalversion=20

Enabling and Disabling the Versioning Library

To enable the Versioning Library transformations, edit the file <install:root>\runtime\servers\defaultserver\config\startup\service-start.prop. Find the line that begins **startup.aux.services=** and add **XCBLTransformService** to that line.

To disable the Versioning Library transformations, set the configuration **transformation.internalversion** and **transformation.externalversion** to the same version as your applications.

For example, to disable transformation for SupplyOrder 3.0, set transformation.internalversion=22 and transformation.externalversion=22. Because SupplyOrder 3.0 supports xCBL version 2.2, outgoing transmissions will not be transformed. If an incoming document is not xCBL 2.2, it is transformed to xCBL 2.2.

Note that there is no transformation available from xCBL 2.2 Invoice Document to xCBL 2.0 because there is no Invoice document in xCBL 2.0. If there is no transformation available, then the document is unchanged.

Similarly, if you are testing and using XPC 4.1, set transformation.internalversion=30 and transformation.externalversion=30. This disables transformation for testing.

Configuring Additional Options

Using your worksheet, enter your advanced options using the Configure XPC user interface.

- Select Start | Programs | XML Portal Connector 4.1 | Configure. The Configure XPC window is displayed. The name of your XPC server is shown in the middle of the title bar.
- **2.** Review the **XPC Server** information in the first box and edit as needed. To adjust your message level, consider these debug levels:
 - 0 Debug. All messages are saved, including those intended for developers.
 - 1 Information
 - 2 Warning
 - 3 Error
 - 4 Critical
 - 5 Fatal. Only information about Fatal errors are saved.

- **3.** Ignore the **Preconfigure Trading Partner** button. This is used by the developers.
- **4.** The **Local Communication** box is described in Configuring XPC on page 2B-8.
- **5.** The **Portal Communication** box is described in Configuring XPC on page 2B-8.
- **6.** If you are using Forward Proxy, click the **Enable Proxy** button in the **Proxy** box. Then enter the **Host** and **Port** of your Proxy Server.
- **7.** Review your entries. If you need to recover the original entries, click on **Reset**. To clear the entries, click on **Clear**. When you are finished, click on **Save** and then **Exit**.

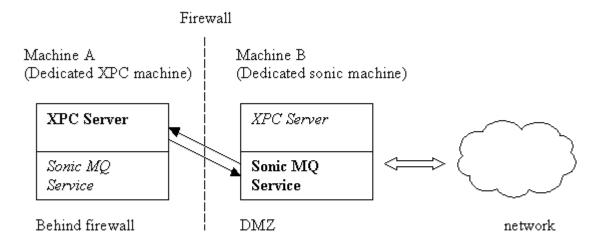
5 DMZ Support of SonicMQ

XPC 4.1 provides DMZ Support for Sonic Broker on the Trading Partner side. This means that the Sonic Broker runs on a machine separate from the machine where XPC server is installed, either within or across the firewall. This setup improves scalability and performance due to better load balancing. It also enhances security by allowing SonicMQ to be run in the DMZ while having the XPC server behind a firewall.

This chapter provides instructions on how to setup Sonic MQ in the DMZ.

Pre-requisites

Two machines must be allocated for this setup and both must have XPC 4.1 installed. One machine will run *only* SonicMQ service, and the other machine will run *only* the XPC server. To better illustrate the environment, please see the following diagram:



Note: **Bold** – service that is turned on Italic – service that is turned off

As shown in the figure above, Machine A is a dedicated XPC machine running behind a firewall. On this machine, the Sonic MQ service will be turned off, and the XPC server will be turned on. Machine B is a dedicated Sonic MQ machine running in DMZ. On this machine, the XPC server will be turned off, and Sonic MQ service will be turned on. You can easily turn services on/off using the NT service panel.

In summary, here are the pre-requisite steps:

- Install XPC 4.1 on both machines.
- Turn off SonicMQ service and turn on XPC server on the dedicated XPC machine.
- Turn off XPC server and turn on SonicMQ service on the dedicated SonicMQ machine.

XPC-to-Sonic Configuration

The next step is to establish communication between the XPC server and the Sonic Broker on the separate machines. Following is a summary of the steps needed to configure XPC-to-Sonic. Each step will be described in detail in this chapter.

 On the Sonic-dedicated machine, configure the port, node name, queue name and portal node name of the local Sonic Broker'. Confirm that Remote Sonic **Mode** is turned off.

 On the XPC-dedicated machine configure the address, port, queue name and portal node name of the remote Sonic Broker. Confirm that Remote Sonic Mode is turned on

Configure the Sonic Machine

You must configure the Sonic Broker residing locally on this machine.

- **1.** Start the setupUI on the SonicMQ-dedicated machine (Machine B in the diagram).
- **2.** Confirm that **Remote Sonic Mode** is *not* selected, which forces the machine to treat Sonic as a local entity to that machine.
- **3.** Go to the Local Communication tab. Configure and make note of the following Sonic configuration values:
 - Sonic Broker Port 2508 (by default)
 - **Sonic Node Name** <fully qualified machine name> (ex: gyue.commerceone.com)
 - Sonic Queue Name XPC_<fully qualified machine name, replacing "." with "_">_ConnectorInbound (ex: XPC_gyue_commerceone_com_ConnectorInbound)
- 4. Go to the Sonic tab of the Portal Communication section. Configure and make note of the following Sonic configuration value; it will be the Sonic node name of the MarketSite:
 - Portal Node Name

If any modifications are made, click **Save** before exiting setupUI.

These values will be needed when you run the setupUI on the XPC-dedicated machine.

Configure the XPC Machine

You must configure the Sonic Broker on the other machine as a remote entity to this machine.

- **1.** Start the setupUI on the XPC-dedicated machine (Machine A in the diagram).
- **2.** Select **Remote Sonic Mode**. Once you select this option, you should see that the following fields are disabled:
 - Inter-Broker Port (under Local Communication)

- Sonic Node Name (under Local Communication)
- Sonic Portal Address (under Portal Communication)
- Sonic Portal Port (under Portal Communication)

NoteThese two fields are not modifiable from this machine because they are directly related to the configuration of Sonic Broker, and changing these fields results in access to the broker.ini file. Since we've assumed connectivity to the remote Sonic Broker from this machine, we will disallow modification of remote Sonic Broker and the broker.ini file. If you need to change the above fields, you must to run the setupUI on the Sonic-dedicated machine, where Sonic Broker is local.

When you choose **Remote Sonic Mode**, you will see the following field enabled:

· Remote Broker Address

- **3.** In this field, specify the full-qualified name of the Sonic-dedicated machine where SonicMQ is started and running. This field is necessary, since it tells the XPC server where to connect when locating the Sonic Broker.
- **4.** Next, you must modify the following field to store the name of the Sonic inbound queue for the remote Sonic Broker, not the local one:
 - Sonic Queue Name
- **5.** Go to the Sonic tab of the Portal Communication section and modify the following field:

· Portal Node Name

This information comes from the Portal Node Name field in the setupUI of the Sonic-dedicated machine.

NoteThese two Portal Node Name fields must be consistent in order to have proper communication.

- **6.** After all the fields have been entered, click **Save**. The setupUI will use the information you supplied to modify the service-start.prop, server-start.prop, etc/config/client.prop, and bin/client.prop property files appropriately.
- 7. Restart the XPC server.

You can verify the XPC-Sonic Configuration setup by using Invoker to send a Ping document to the local XPC server.

Effects to other standalone clients

The following table shows how this DMZ support could affect other standalone clients that are packaged in the installation:

	Running on XPC- dedicated machine	Running on Sonic- dedicated machine
Setup UI	Supported Modifies server property files ONLY, does NOT modify local sonic broker.ini file	Supported Modifies local sonic broker.ini file ONLY as well as server property files
XPC Manager (accessing local host server)	Supported Modifies both server property files and remote sonic queues information	Not Supported (requires XPC server to be running, which is not the case here)
Invoker (sending to local host)	Supported Same as before	Not Supported (requires XPC server to be running, which is not the case here)



6 Administration

This chapter describes the XPC administration tasks. The sections in this chapter include the following:

- Starting and Stopping the XPC Server on page 6-1
- Backing Up SonicMQ Keystore on page 6-2
- Using the XPC Invoker on page 6-4
- Working with Pending Documents on page 6-8
- Maintaining the XPC Server on page 6-9.

Starting and Stopping the XPC Server

When making any changes to the XPC installation or when maintaining the XPC server, you will need to stop and restart the server. The recommended way to start and stop the server is:

- To stop the XPC server, select Start | Programs | XML Portal Connector 4.1 | Stop. This stops both XPC and SonicMQ.
- To start the XPC server, select Start | Programs | XML Portal Connector 4.1 | Start. This starts both XPC and SonicMQ.

Running XPC as an NT Service

CCSNTService and SonicBroker service must be started to start XPC, and they can be started in any sequence. The XPC defaults with these services are set to start automatically upon system startup.

However, if the default system account does not have sufficient permissions, privileges, or resources to run the XPC, configure these services as follows.

- To access the services control panel, select Start | Settings | Control Panel | Services. SonicMQService and CCSNTService are displayed on the Services panel.
- **2.** Click on **SonicMQService** and then click **Startup** and configure according to your site requirements:
 - To prevent NT from starting XPC automatically, set Startup Type to Manual instead of Automatic.
 - To configure an account for running XPC, configure **Log On As** section. Provide a valid NT user name and password with required rights.
- 3. Click on CCSNTService and then click Startup and configure according to your site requirements:
 - To prevent NT from starting XPC automatically, set Startup Type to Manual instead of Automatic.
 - To configure an account for running XPC, configure **Log On As** section. Provide a valid NT user name and password with required rights.

Here is a summary of methods for starting and stopping the XPC Server.

Method	To Start:	To Stop:
Start menu	Start Programs XML Portal Connector 4.1 Start	Start Programs XML Portal Connector 4.1 Stop
Command line	a) cd <install:root>\SonicMQ\bin; startbr b) cd <install:root>\bin; ccsserver_<servername></servername></install:root></install:root>	Ctrl-C in the DOS window
From .bat file	cd <install:root>\bin; StartService</install:root>	cd <install:root>\bin; StopService</install:root>

Backing Up SonicMQ Keystore

Make copies of the SonicMQ keystore to avoid recovery difficulties. If your keystore should corrupt and you do not have a backup, follow the recovery instructions in Certificate Manager Keystore on page 7-11.

XPC Envelope Archive

XPC archives envelopes exchanged with MarketSite for asynchronous transactions. Both incoming and outgoing messages are stored under the <install:root>\messagestore directory:

- Inbound envelopes are archived immediately upon receipt in the server. Any transformation of the envelope, such as changing to the xCBL internal version, occurs *after* archiving. The Inbound archive thus contains the external envelope.
- Outbound envelopes issued through a timed service are archived before a version transformation. The Outbound archive thus contains the internal envelope.

Outbound envelopes transmitted through a stand-alone transmitter are not stored in the XPC archive.

Archived outbound and inbound envelopes are associated with one another as part of the same document exchange. Such a transaction consists of a request plus its response envelope. Two envelope header properties link the response to the request:

- Both have the same **Correlation_ID** property value.
- The response identifies the **Message_ID** property of the request in its **Reference_ID** property.

From the archive, the status of a transaction can be inferred based on the following cases:

- Pending: A request envelope with no response envelope
- Completed: A request envelope with a business response
- Error: A request envelope with an error response

XPC Invoker and the Envelope Archive

Use the XPC Invoker to view the Envelope Archive and perform the following administrative tasks as needed:

- List historical transactions for a specific document type
- Display the request and response envelopes of a transaction including header properties, primary document, and attachments.
- Display the status of the transaction, which can be Pending, Completed, or Error
- Reissue a transaction.

Using the XPC Invoker

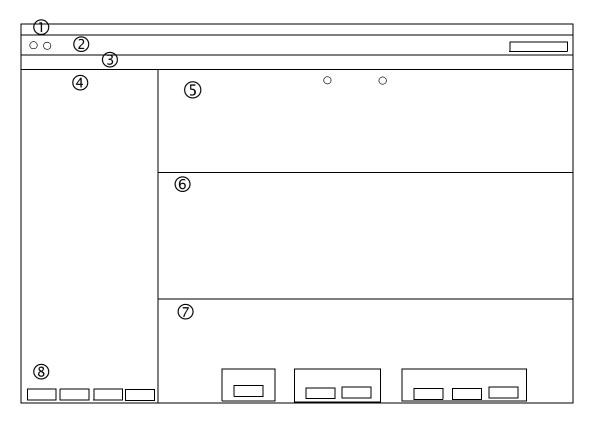
The Invoker has two modes: Test and Production. Developers use the Test mode to verify that the their changes are working correctly.

As an XPC administrator, use the Production mode to monitor and maintain a *live* XPC installation. Maintenance includes resubmitting *pending* purchase orders. Purchase orders are considered pending when no response has been received.

XPC Invoker User Interface

The XPC Invoker User Interface is composed of these sections:

- **1.** Title bar with Commerce One logo
- 2. Mode selection, Archive directory, and Refresh button
- 3. Transaction Filter
- 4. Transaction Table
- **5.** Envelope
- 6. Document
- 7. Attachments
- **8.** Action buttons



To switch between Test and Production mode in Section 2, click on the Mode radio buttons at the top left corner of the **XPC Invoker** window:

- In **Test** mode, all functions are available.
- In Production mode, the Invoker cannot create new transactions, delete transactions, browse to a new archive directory, save, or edit envelopes. Only Asynchronous transactions are available for display. Here, the Invoker defaults to the XPC file system envelope archive specified in the Archive Directory field of the Configure XPC window (Start | Programs | XML Portal Connector 4.1 | Configure).

Transaction Filter

For ease of viewing, the Invoker filters the views of the archive by Transaction Type (Price Check, Purchase Order, Availability Check, and Order Status). You can change the view by selecting a different transaction in the drop down box containing all known transaction types in Section 3. If envelopes are found in the archive that are not part of a specified transaction type, they are placed in the type *Unknown*.

Archive Display

The Archive Display shows the currently viewed archive path and allows you to refresh the view of the archive or select a new archive. See Section 2.

In Production Mode, you cannot browse to a new directory or directly edit the directory path; only the refresh button is available. The Invoker defaults to the XPC file system envelope archive specified in the Archive Directory field of the Configure XPC window (Start | Programs | XML Portal Connector 4.1 | Configure).

Transaction Table

The Transaction Table, Section 4, lists all transactions located in the selected directory. A transaction consists of a request envelope and its response envelope.

This table contains two columns: Date Requested and Status:

- **Date Requested**—is the date that the envelope was sent, thus, initiating the transaction.
- Status—is the status of the transaction. These statuses are: New, Pending, and Completed.
 - New—a transaction has been created but has not been initiated. The request has
 not been sent out.
 - **Pending**—the request envelope has been queued for transmission.
 - **Completed**—a transaction has been created, the request has been sent out, and the response has been received.

The transaction buttons include:

■ New—allows you to create a new transaction by selecting a document template.

Document templates are out-of-the-box xCBL documents.

Selecting this button brings up a file selection dialog box. When you select a file, the Invoker creates a new transaction of the appropriate type, selects the archive of

the newly created transaction, and displays the newly created envelope. This envelope is not yet saved. If you want to save it, click the **Save** button.

- **Send**—sends the request envelope of a selected transaction. The request envelope is always saved on transmission.
 - For synchronous transactions, the Invoker waits for a response and automatically displays the response if the transaction type is still selected.
- **Delete**—deletes the transaction selected in the archive display. The Invoker deletes both the request and response of the transaction.

Envelope

Use the Request/Response buttons in Section 5 to view either the request envelope or the response envelope for a transaction.

The envelope header properties include:

Header Property	Description
Sender ID	Identifies the sender of the envelope.
Receiver ID	Identifies the recipient of the envelope. This field can be edited in Test mode.
Message ID	The unique identifier of the envelope.
Document Type	Type of document, such as PriceCheckRequest or PriceCheckResult, carried by the envelope.
Request Mode	Mode of transmission for the envelope. Valid request modes are sync, peer-peer, and oneway.
Date Sent	Date the envelope was sent.
Correlation ID	The unique identifier used to associate a request envelope with the corresponding response envelope.

To edit the Document, select the **Edit** button. To select a new document, click the **Change** button. A file selection dialog box is displayed; select a new xCBL document from the list. If the XML file you select is not valid, an error message is displayed.

The Envelope buttons in Section 7 allow you to save, change, add, and remove attachments from the envelope.

■ Save—allows you to save the currently displayed envelope. If the envelope has

been edited, the edited envelope is saved as a new transaction and a new row appears in the transaction display. If you do not save the old envelope, it will be lost. This function is only available in Test Mode.

- Change—selects an xCBL document from the file system. The selected document is displayed, but a new transaction is not created until the envelope is saved or sent out. This function is only available in Test Mode. If the selected xCBL document is different from the original envelope's document type, then the new transaction and envelope are displayed in the appropriate archive upon saving or sending the edited envelope.
- Add—selects a file from the file system and attaches it to the envelope. This function is only available in Test Mode.
- Remove—removes a selected attachment from the envelope. This function is only available in Test Mode.
- Name—specifies a URI for an attached file. You must select a file from the attachment display and then select the Name button. This action launches a dialog box which takes your input for the attachment name. All attachment names must be properly formed URIs. If the attachment is already named, this name is displayed in the dialog box. This function is only available in Test Mode.

Working with Pending Documents

The Invoker correlates and displays envelopes within the XPC archive and displays the dates and status. Transactions that contain a request and response pair are considered complete and display the status of **Completed**. If a transaction contains only the sent request, the status is **Pending**. If the request has not been sent out, the status is **New**.

If a transaction has been pending for an extended period of time, the transaction is considered *stale* and the administrator can resend the request.

Because the Invoker does not contain a server, it cannot receive asynchronous responses. To accommodate this needed functionality, a special mechanism has been put in place. When XPC receives an envelope whose sender is TEST, XPC *transmits* the response to the file system. This location is specified in the default prop file of the TransmitterService.

The Invoker polls the file system for asynchronous responses. The location the Invoker polls in Test mode is specified in <install:root>\etc\config\client.prop with the xpc.invoker.asyncReceptionDirectory variable. The default value for this variable is <install:root>\asyncDir. All the envelopes placed in this directory are considered by

the Invoker as an asynchronous response of some kind and are matched with its request using the envelope's correlation ID. For asynchronous reception of documents, the Invoker must look in the same directory as the TransmitterService transmitted to.

In Production mode, the Invoker polls the archive of the XPC-asynchronous requests and responses to the file system. The xpc.invoker.production.archiveDirectory of the XPC Invoker must be set to the same value in the default.prop file of the MessageStoreService. The default value for both is <install:root>\messagestore. For all asynchronous services, archiving must be turned on.

Maintaining the XPC Server

The tasks for maintaining the XPC Server include clearing the:

- XPC log files
- SonicMQ files
- Archive directory.

Clearing the XPC Log Files

The logs are created in the directory:

```
<Install:root>\runtime\servers\<SERVERNAME>\logs
```

where SERVERNAME is the name of the XPC server you assigned during installation, such as defaultserver.

When you stop the XPC Server for maintenance, delete the log files or archive for future use. How often you need to the clean logs directory depends on high low you set the Debug level. The lower the Debug level, the larger the files become. To reset the Debug level, select **Start | Programs | XML Portal Connector 4.1 | Configure**. On the **Configure XPC** window, change the first field, the **Debug Level** field.

If you delete unused files while the server is running, you cannot delete the file currently being used. If you attempt to do so, you will get an error message stating that the file is locked and cannot be deleted.

Clearing the Archive Directory

Clear the archive directory periodically, as the traffic requires. Before moving files from the archives, make sure they are not a pending transaction. To do so, access the Invoker in Production mode and check the status.

Checking Security Certificate for Expiration

All certificates have a valid period. Be sure to view the **Configure Server Entries** tab of the Certificate Manager tool to determine the expiration date of your original certificate entry. Note this date in a reminder file.

Caution.....Before a certificate expires, you must replace it with a valid certificate. Replace the expiring certificate with a valid certificate 14 days before the expiration date of the certificate. If you do not, XPC will stop working.

To replace an expiring certificate with a valid certificate, follow the steps as you did initially; refer to Authentication for Production Using https on page 3-3 or Authentication for Production Using SonicMQ on page 3-9. That is:

- For https, create a new server entry, create and submit a certificate request, and import the certificate.
- For SonicMQ, create a new server entry, create and submit a certificate request, and import the certificate.

Note After you import the new certificate, be sure to stop and start the SonicMQ Broker using Start | Settings | Control Panel | Services.

7 Troubleshooting

This chapter describes various XPC troubleshooting methods and includes these sections:

- XPC Logging on page 7-2
- XPC Invoker Connection Refused on page 7-6
- Troubleshooting the Versioning Library Service on page 7-7
- Certificate Manager Keystore on page 7-11

If you have purchased XPC software directly from Commerce One, Commerce One Technical Support is available to you by contacting one of the following:

- csa@commerceone.com
- By fax at 925-520-6060
- Hotline at 925-520-5959 or 800-949-8939
- http://www.commercecone.com/solution/tech.htm

If you purchased XPC software from a different source, such as your GMP or Systems Integration Partner, contact that source for technical support.

Checking XPC or SonicMQ Services

If you encounter a problem with either the XPC service or the SonicMQ service, stop the service and restart. Restart them either from the Start Menu or command line, as described in Administration on page 6-1. In this way, you will see the output on the console window.

XPC Logging

XPC has three key logs: System Startup, Event, and Invoker. If you experience problems with starting XPC, sending events, or using the XPC Invoker, check the XPC log files.

The following table lists the logs with their file names and descriptions.

Log	File Name	Description
System Startup	runtime\servers\defaultserver\logs\systemStartup Log_timestamp	Contains information describing the startup of XPC. If a particular service is not starting up, inspect this file.
Event	runtime\servers\defaultserver\logs\eventlog_time stamp	Contains event logs generated by XPC or specific components. If a component throws an exception, the XPC default exception handler will add a new entry in this file.
Invoker	bin\clienteventlog	Contains information about the Invoker. If the Invoker has errors, they are stored in this file.
Debug	runtime\servers\defaultserver\logs\debut-default	This file has debug trace messages.

Reading Debug Messages

Developers insert debug messages into the code for both their own use and yours. These messages can be filtered by severity to give useful information about the server.

Debug message syntax is simply a string that can contain substitution variables provided at runtime. Debug messages are in English only and can have misspellings or grammatical errors. Each message is placed in the file on a separate line. Here is an example debug message from the debug log:

April 18, 2000 5:17:00 PM GMT-07:00: Debug.DEBUG: Configuration is: localhost=jmiller.commerceone.com archive=archive user=xccarchiver

Breaking up the message, it reads as follows:

April 18, 2000 5:17:00 PM GMT-07:00:	Time when message is generated in system local time.
Debug.DEBUG:	Label that lists the debugging level of the message. The lower the number, the more messages are displayed: 0 Debug.DEBUG 1 Debug.INFO 2 Debug.WARNING 3 Debug.ERROR 4 Debug.CRITICAL 5 Debug.FATAL If the debugging level is set to 0, all messages are seen. If set to 2, only warnings messages and higher-level messages are seen.
Configuration is: localhost=dbmachine.commerceone.c om archive=archive user=xccarchiver	Text of the debug message, with parameters filled in. For example, the previous message includes the configuration information of the machine name where the message store archive is, the name of the archive, and the user name.

Tip: To quickly review a log, search for the words WARNING or ERROR. Expect to find CRITICAL and FATAL errors at the end of the file, when the server probably stopped or crashed.

Reading Event Output

Events are formatted into XML syntax, which is defined in event catalogs. Events can be localized into different languages. Each Event message is logged onto a separate line of the file. Here is an example event item from an Event Log.

```
<EVENT><TIME>November 9, 1999 3:49:33 PM GMT-08:00</TIME>
<MILLIS>942191373381</MILLIS>
<KEY>CCS_COMM_TRANSMITTER_3041_TransmitterCreationSuccessful</KEY>
<TEXT>Transmitter creation successful.Transmitter Type = http.</TEXT>
<CAT>CCS_COMM</CAT><SUBCAT>TRANSMITTER</SUBCAT><NUMID>3041</NUMID>
<SEV>0</SEV><TYPE>STATUS</TYPE><LANG>en</LANG><PARM>http</PARM></EVENT>
```

In addition to the syntax for the event from the catalog, the example message includes:

- <TIME>, a date/time stamp in local time
- <MILLIS>, the date/time in milliseconds
- <LANG>, the language the text is generated in
- <PARM>, a single parameter

Here is the example message, explained item by item.

Item	Explanation
<event></event>	Beginning of the event.
<time>November 9, 1999 3:49:33 PM GMT- 08:00</time>	Date/time stamp in local time when event was generated
<millis>942191373381</millis>	Date/time in milliseconds when event was generated
<pre><key>CCS_COMM_TRANSMITTER_3041_Tran smitterCreationSuccessful</key></pre>	The <i>event key</i> is essentially the name of the event. Note that an event number is embedded in the name of the event.
<text>Transmitter creation successful. Transmitter Type = http.</text>	The event message with parameter values. In this example, the Type = $+1$ ' has become Type = http' due to parameter substitution. A second parameter would be noted by a $+2$, a third by $+3$, and so on.

Item	Explanation
<cat>CCS_COMM</cat>	Category of the event. In this example this is a communications event. The event name begins with this value.
<subcat>TRANSMITTER</subcat>	Subcategory of the event. This event is from the transmitter subcategory, so was probably generated from the Transmitter service. This is also part of the event name.
<numid>3041</numid>	Event number that was embedded in the event name.
<sev>0</sev>	Severity of the event. A severity of 0 means this is a normal event, showing normal operation.
<type>STATUS</type>	Type of event. This is a status event, used to provide information on the operation of the server. Other types are AUDIT or DEBUG.
<lang>en</lang>	Language used to generate this event. Event catalogs are intended for localization and this value should match the language of <text>.</text>
<parm>http</parm>	Parameter passed to <text>. This can be repeated for additional parameters.</text>
	End of the event.

Avoiding Known Problems

Review this table to ensure that you have completed all known installation and administration tasks required for keeping your XPC installation running smoothly.

	Description	Solution or Explanation
XPC Startup fails	If you have not configured otherwise, NT uses default system account, which might not have proper permission and resources.	Refer to Running XPC as an NT Service on page 6-1 for instructions to set the Log On As properties.
classpath directory	The default file in the etc\classpath directory requires a carriage return or a blank space at the end of the last line.	If you do not use the carriage return or a blank space, the line is not read.

XPC fails after months of running successfully	The Authentication Certificate has expired.	Refer to Checking Security Certificate for Expiration on page 6-10.
Envelope Size		Envelopes have a 10 MB size limit including attachments for both Sonic & https.
Installation	You cannot install to a directory that contains a blank space in the name (for example, File Name).	It is recommended that you install XPC to the <drive>commerceone\xpc directory on NT.</drive>
Invoker Error Message	If you select invalid xCBL documents, an error message is displayed.	
Invoker Response Attachments	Response envelopes have an attachment identified by message ID. This attachment is the security credential information provided in the reply.	
XPC is processing documents too slowly	If your Java heap size is set above the available memory on your machine, decrease it to improve performance. By default, heap size is set at 512K.	Refer to Adjusting Java Heap Size on page 4-1.
Java Heap Size	An out of memory error occurs when the heap size is not large enough. The recommended java heap size is 512MB.	Refer to Adjusting Java Heap Size on page 4-1.
SonicMQ/XPC Installation stops	An error message such as <i>Unable to open</i> broker.key file or <i>Unable to open Password</i> file is displayed.	Ensure that the JDK bin directory is in the PATH environment variable before you begin installation.

XPC Invoker Connection Refused

An error message like the one below indicates that the Invoker is not authorized to communicate with XPC. Verify that the Invoker's security properties have been properly configured.

```
<?soxtype urn:x-
commerceone:document:com:commerceone:ccs:doclet:error:Error.sox$1.0?>
<?import urn:x-
commerceone:document:com:commerceone:ccs:doclet:error:Error.sox$1.0?>
<Error><Code>INVOKER_ERRORGENERIC</Code>
```

```
<DefaultMessage><Message><MessageString>ERROR:
com.commerceone.xdk.excp.metadox.send.TransferException: Error while
silently connecting: org.w3c.www.protocol.http.HttpException:
java.net.ConnectException: Connection refused</MessageString>
<LanguageCode>en</LanguageCode>
</Message>
</DefaultMessage>
<Severity>Error</Severity>
</Error>
```

Troubleshooting the Versioning Library Service

Versioning Library parameters are stored in:

<install:root>\runtime\servers\<servername>\config\service\AuxiliaryService
.XCBLTransformService.XCBLTransformService\default.prop

Verifying Versioning Library

To verify that VL is running on XPC server, follow these steps.

1. Access the directory:

<install:root>\runtime\servers\<servername>\config\startup

where <install:root> is the directory where XPC is installed and <servername> is the name of the XPC server.

- **2.** Locate the file named **service-start.prop** and open it in Notepad or any text editor.
- **3.** Verify that the entries shown in **bold** are present.

startup.aux.services=EventManager,LogService,XCBLTransformService

4. Verify that the following entry is present. It starts the xCBLTransformService. service.XCBLTransformService.code=com.commerceone.versiongateway.service.XCBLTransformService

Versioning Library Transformations

The Versioning Library transforms to the closest possible version. For example, if requested to transform an xCBL 3.0 Invoice to xCBL 2.0, it will transform it to xCBL 2.2, because Invoice is not defined in xCBL 2.0.

Note that the Versioning Library will not transform the envelope/document if:

- There is no valid transformation available, such as from INVOICE document from xCBL 22 to xCBL 20 since there is no INVOICE document defined in xCBL 20.
- The document being passed to Versioning Library is not xCBL document.
- The document is not in one of the following namespaces:

```
urn:x-commerceone:document:com:commerceone:CBL01:CBL01.sox$1.0
urn:x-commerceone:document:com:commerceone:CBL:CBL.sox$1.0
urn:x-commerceone:document:com:commerceone:XCBL30:XCBL30.sox$1.0
```

To verify that the transformations are being made as intended, test the transformation using the Transformation Test tools shipped with XPC, as described in Testing Versioning Library Transformations on page 7-8. If there is no transformation available, transform.bat tool displays the exception NoTransformationFound.

Testing Versioning Library Transformations

Use the Transformation Test tools shipped with XPC to confirm that your transformations work as you expect. The document transformation tool, transform.bat, transforms xCBL documents. The envelope transformation tool, transformEnv.bat, transforms xCBL documents inside envelopes.

The two tools run as command-line applications from the XPC server. You can use these tools to test the Versioning Library without running the XPC Server and using the XPC Invoker.

Document Transformation Tool

This tool, transform.bat, transforms an xCBL document from one version to another. To execute:

1. Change to the XPC bin directory, for example: cd <install:root>\bin

2. Execute the tool using the following format:

transform.bat <destination CBL version> <CBL document1> [<CBL document2> ...]

where the destination xCBL version is the target xCBL version; supported values are 20, 22, and 30. To transform more than one CBL document to the destination version, specify up to seven file names, separating the names with spaces. All transformed files are placed in the <install:root>\out directory with a prefix of o_ on the original name. For example:

transform.bat 30 c:\temp\PriceCheckResult.xml

transforms the document PriceCheckResult.xml to xCBL version 3.0. If PriceCheckResult.xml is already in version 3.0, no transformation is done. The transformed file will be in <install:root>\out\o_PriceCheckResult.xml.

To edit transform.bat to add or delete file names or change the default output directory, as described in Customizing Transform.bat on page 7-9.

Customizing Transform.bat

Transform.bat uses XPC launch.bat to set the classpath, then launches the jvm to start the transformation-testing tool class. To customize the Document Transformation Tool, edit transform.bat, which is in this format:

call launch -Dout.directory=%XPCROOT%\out -Dschema=%XPCROOT%\schema
com.commerceone.versiongateway.tools.transformation.Transform %1 %2 %3 %4
%5 %6 %7 %8

where:

out.directory specifies the output directory of the transformed documents.

schema specifies the directory where the sox schema for xCBL 2.0, xCBL 2.2, xCBL 3.0, and the Versioning Library is located. The schema directory also stores the TransformRegistry.xml file.

%1 %2... specifies the standard input to the class file. %1 is the destination version. %2 is the first xCBL document to transform. %1 and %2 are mandatory. %3 and higher are additional, optional xCBL documents.

Envelope Transformation Tool

The Envelope Transformation Tool, transformEnv.bat, transforms xCBL documents that are inside envelopes. This tool calls the transformIn API when receiving documents and the transformOut API when sending out documents. You can use transformEnv.bat to:

- Create an envelope
- Transform an envelope in the inbound direction
- Transform an envelope in the outbound direction.

To run the Envelope Transformation Tool, follow these steps.

- **1.** To execute, you must be in the XPC bin directory, for example: cd <install:root>\bin
- **2.** Enter the name of the file and options in the format shown here. The options are defined in the following table.

transformEnv.bat [-options]

Option	Description
sender	Sender for envelope creation. Default is Sender.
receiver	Receiver for envelope creation. Default is Receiver.
destination	Destination of output.
р	Schema path.
create <cbl document=""></cbl>	Create an envelope for the CBL document specified.
i <envelope></envelope>	Transform the envelope in the inbound direction in the version specified by -j.
o <envelope></envelope>	Transform the envelope in the outbound direction in the version specified by -k.
j <internal version=""></internal>	Specify the internal version. Supported values are 20, 22, 30. If not specified, defaults to 22.
k <external version=""></external>	Specify the external version. Supported values are 20, 22, 30. If not specified, defaults to 20.
?	Command syntax

In the following examples, all use the defaults for sender and receiver, which are Sender and Receiver.

In this example, the specified PurchaseOrder is in the directory d:\commerceone\xpc\out with a file name of o_PurchaseOrder.xml.txt:

```
TransformEnv -p d:/commerceone/xpc/schema -c d:/temp/
PurchaseOrder.xml -d d:/commerceone/xpc/out
```

The next example uses the Versioning API transformIn to transform the envelope d:\temp\PurchaseOrder.txt into the internal xCBL version 2.2.

```
TransformEnv -p d:/commerceone/xpc/schema -i d:/temp/
PurchaseOrder.txt -d d:/commerceone/xpc/out -j 22
```

The API will try to extract the xCBL document version 22 from the main document or from the list of attachments. If it does not exist, the API will then try to transform the document to 2.2. The output will be a new envelope with an xCBL 2.2 document as the main document. The new file is named o PurchaseOrder.txt.

The last example uses the transformOut API to transform the envelope d:\temp\ PurchaseOrderResponse.txt to xCBL version 2.0. All intermediate transformations are stored as attachments. The output will be an envelope with the new transformed xCBL 2.0 document stored as the main document and the original xCBL 2.2 document stored as an attachment. The new file is named o_ PurchaseOrderResponse.txt.

```
TransformEnv -p d:/commerceone/xpc/schema -o d:/temp/
PurchaseOrderResponse.txt -d d:/commerceone/xpc/out -k 20
```

Certificate Manager Keystore

If your keystore file becomes corrupt and you have a backup file for your keystore file, simply replace the corrupt file with your backup file.

If you do not have a keystore backup file, follow these instructions to create a new keystore.

- **1.** Access the XPC bin directory, for example, <install:root>\bin.
- From the bin directory, start the script CertMgrCreateNewKeyStore.bat. A Certificate Manager dialog is displayed, showing a Create a new KeyStore button.
- **3.** Enter the password for the new keystore and click on the **Create a new KeyStore** button. The **Warning** dialog displays the message: New Keystore was successfully

created. But there is no server entries, please create a server entry first.

- **4.** Click on the **OK** button. The **Certificate Manager** window is displayed with the **Configure Server Entries** tab selected.
- **5.** From this point, complete the authentication for https or SonicMQ as you did initially; refer to Authentication for Production Using https on page 3-3 or Authentication for Production Using SonicMQ on page 3-9. That is:
 - For https, create a new server entry, create and submit a certificate request, import the certificate, and set the entry as active.
 - For SonicMQ, create a new server entry, create and submit a certificate request, import the certificate, and configure the SonicMQ Broker.

A XPC 4.1 Server Core Events

This appendix lists events logged by the XPC 4.1 server.

The **Description** and **Action** columns suggest an explanation or resolution for the event. Numerical symbols, such as +1, indicate parameters that will be inserted into the message text.

The Severity (Sev) column refers to the level of severity:

0	Success
10	Informational
20	Warning
30	Diagnostic
40	Error

#	Event	Description	Sev	Action
1	CCS_ADM_1000_LogMgrErr	Could not instantiate LogManager object	40	Examine the error message included with the event. Usually this is a result of being unable to open the log file for logging event messages.

2	CCS_ADM_1005_BadDocErr	+1 : got bad document: +2	40	Generic error message for a bad document. Examine the error for the action to take.
3	CCS_ADM_1010_ProcRunning	A process named [+1] is already running: +2	40	The daemon server will not be able to start a new server, because a process is already running. Correct by killing the process and restarting the daemon server.
4	CCS_ADM_1015_ProcTblFull	The process table is full. Can't run process [+1]: +2	40	Stop the daemon server and kill all of the associated java processes. This should not happen under normal circumstances.
5	CCS_ADM_1016_ProcNotManag ed	The server [+1] is not managed by this management server	40	Stop the daemon server and kill all of the associated java processes. This should not happen under normal circumstances.
6	CCS_ADM_1017_ProcStartTime out	Timeout while trying to start server [+1]	40	Timeout occurred during the start of the server. Stop the daemon, remove all java processes, and try again.
7	CCS_ADM_1020_HttpdFatal	*** [httpd]: fatal error, exiting !	40	Unused event
8	CCS_ADM_1025_HttpdInitErr	Couldn't initialize HTTP server: +1	40	Could not initialize the server. Fatal error, stop the daemon, remove all java processes, and try again.
9	CCS_ADM_1030_ProcIntr	Interrupted in Process.waitFor (): +1	40	Interrupt was sent to the server while being managed by the daemon. No corrective action possible.
10	CCS_ADM_1035_ProcDbgIntr	Process debugger thread interrupted: +1	40	Debugging event should not be seen in the field.
11	CCS_ADM_1040_ProcDbgIsNull	The debugged Process instance is null. Can't debug	40	Debugging event should not be seen in the field.

12	CCS_ADM_1045_ProcDbgIOErr	Caught IOException while debugging subprocess [+1]:+2	40	IOException occurred during debugging. Not an event that should be seen in the field.
13	CCS_ADM_1050_ProcStartIOErr	Caught IOException while trying to start subprocess [+1]: +2	40	IOException occurred. Examine event message for root cause and correct.
14	CCS_ADM_1055_ProcStartSecur ityErr	Caught SecurityException while trying to start subprocess [+1]:+2	40	Security Error occurred when trying to start the server from the daemon. Daemon process may not have sufficient permissions to run sub processes. May need to modify security on system so that daemon can run with sufficient permissions.
15	CCS_ADM_1060_ProcUnkillable Err	Couldn't kill process [+1]: +2	40	Error occurred while trying to kill a server through the daemon. May need to kill the server directly through the task manager or process manager.
16	CCS_ADM_1065_McastInstErr	Couldn't instantiate IP multicast service: +1	40	Error occurred during a multicast daemon discovery in the Admin Console. No longer used
17	CCS_ADM_1070_McastAddrErr	Couldn't create IP Multicast socket: +1	40	Error occurred during a multicast daemon discovery in the Admin Console. No longer used
18	CCS_ADM_1075_McastIOErr	Couldn't send document to IP Multicast address [+1]: +2	40	Error occurred during a multicast daemon discovery in the Admin Console. No longer used.
19	CCS_ADM_1080_XMLConvErr	Couldn't convert XML string [+ 1] to a document bean: +2	40	Unused event
20	CCS_ADM_1085_XMLStreamEr	Couldn't write XML string to output stream: +1	40	Unused event

21	CCS_ADM_1090_URNCatLoadE	Syntax error in urncatalog: + 1	40	Unused event
22	CCS_ADM_1095_CouldntLoadPr ops	Unable to load properties from file [+ 1]. Exception text: +2	40	Error message in event should suggest the needed remedy. For example, if the property file was not readable, then it is possible that the permissions on the file or directory may need to be changed.
23	CCS_ADM_1100_RemoteCmdEr	Caught Exception while retrieving result from remote command: + 1	40	Unused event.
24	CCS_ADM_1105_MalformedUR LErr	Malformed URL [+1]: +2	40	Unused event.
25	CCS_ADM_1110_SerializableErr	Couldn't de-serialize +1 object: +2	40	Unused event.
26 (*)	CCS_ADM_1115_NoServerSelect ed	No server selected	40	
27 (*)	CCS_ADM_1120_NoServiceSele cted	No service selected	40	
28	CCS_ADM_1125_StartSvcErr	WARNING! Couldn't START/ STOP service [service name]	40	
29 (*)	CCS_ADM_1130_StartSrvErr	WARNING! Couldn't START/ STOP server [+1]	40	
30	CCS_ADM_1135_NoServerInfoE	WARNING! No configuration information available for servers. Can't start any servers!	40	Check the server config directory path.
31 (*)	CCS_ARCHIVE_STORE_100_T est	A sample archive store - event error message +1 +2.	40	Not used
32	CCS_ARCHIVE_STORE_1000_ ArchiveInitialized	Document archiving initialized to: <machinename>, storage file location: <storageloc></storageloc></machinename>	40	Event indicates that the archive has been initialized normally. Parameters are the database name and the machine name where the database exists.

33	CCS_ARCHIVE_STORE_1010_I nitializationFailed	Could not open data storage: <machinename>, <dbname>, <dbuser>, <dbpassword>, <errormsg></errormsg></dbpassword></dbuser></dbname></machinename>	40	Parameters include the host name, database name, user name, an empty string instead of the password, and the message from the exception that was thrown when initialization failed. Verify that the connection can be made with these values using a database tool like SQL Query analyzer
34	CCS_ARCHIVE_STORE_1020_ ErrorInDocumentRetrieval	Error in document <docid> retrieval: <errormsg></errormsg></docid>	40	Verify from a SQL client if the document with the given id can be fetched.
35	CCS_ARCHIVE_STORE_1030_ ErrorInDocumentStorage	Error in document <docid> storage: <errormsg></errormsg></docid>	40	Verify from a SQL client if the document with the given id can be fetched.
36 (*)	CCS_ARCHIVE_STORE_1040_ CanNotCreateDirectory	Could not create directory <directory></directory>	40	DEPRECATED – Signals that the directory needed to store the documents could not be created.
37 (*)	CCS_UTL_QUEUE_8010_Queue ExistsInfo	Queue: +1 : already exists.	10	
38 (*)	CCS_UTL_QUEUE_8015_Illegal QueueNameError	Illegal Queue Name: +1 .	40	
39 (*)	CCS_UTL_QUEUE_8020_Queue CreationError	Queue: +1 : creation error, +2	40	
40 (*)	CCS_UTL_QUEUE_8025_Queue DeletionError	Queue: +1 : deletion error, +2	40	
41 (*)	CCS_UTL_QUEUE_8026_Queue ReceiveError	Queue: +1 : receive error, +2	40	
42 (*)	CCS_UTL_QUEUE_8027_Queue SendError	Queue: +1 : send error, +2	40	
43 (*)	CCS_UTL_QUEUE_8028_Queue ReplyError	Cannot send reply message as no reply queue info. was supplied	40	

-				,
44 (*)	CCS_UTL_QUEUE_8029_Queue CloseError	Queue: +1 : close error, +2	40	
45	CCS_BLOX_SVC_2100_Service Started	Service <fully name="" qualified="" service=""> started.</fully>	0	
46	CCS_BLOX_SVC_2101_Service Stopped	Service <fully name="" qualified="" service=""> stopped.</fully>	0	
47	CCS_BLOX_SVC_2102_ServiceI nitialized	Service <fully name="" qualified="" service=""> initialized.</fully>	0	
48	CCS_BLOX_SVC_2103_Service Destroyed	Service <fully name="" qualified="" service=""> destroyed.</fully>	0	
49	CCS_BLOX_SVC_2104_Invalid QueueConfiguration	Invalid service configuration: <service a="" cannot="" for="" memory="" name="" name:="" queue="" specify=""> <service be="" has="" name:="" owner="" queue="" service="" to=""> <service be="" either="" memory="" must="" name:="" or="" queue="" sonic="" type=""> <service as="" cannot="" code="" have="" memory="" name:="" queue="" sonicthreadedenvelopequeue=""> <service as="" code="" envelope="" has="" have="" name:="" queue="" sonic="" threaded="" to=""></service></service></service></service></service>	40	Check the service queue configuration based on the event message generated.
50	CCS_BLOX_SVC_2105_UseDef aultQueueConfiguration	Use Default Configuration: <use code type owner="" default="" queue=""></use>	10	
51	CCS_BLOX_DOC_2110_Docum entReplyPublished	Document Reply successfully published.	0	No action
52	CCS_BLOX_DOC_2111_Docum entSuccessfullyReceived	Document successfully received (Abstract Document Service).	0	No action
53	CCS_BLOX_DOC_2112_Docum entReceiveFailed	Failed to handle document:	40	Check the corresponding ID in the document and the LDAP entry.

	T	T		1
54	CCS_BLOX_PROT_2113_Startin gDocumentSecurityCheck	Starting document security check.	10	No action
55	CCS_BLOX_PROT_2114_BadPr otectionRef	Service had bad protection reference.	40	Verify that the service is in the right category.
56	CCS_BLOX_PROT_2115_Servic eAuthorizationFailed	Service authorization failed.	30	Check the userId and password for the service in the corresponding property file.
57	CCS_BLOX_COMM_2116_Class NotFound	Failed to find <commagentimpl> class</commagentimpl>	40	Check the corresponding jar files is in the folder and the jar file name is in the classpath in the script.
58	CCS_BLOX_MGR_2117_Factory CreationFailure	Failed to instantiate factory <comm agent="" factory="">, <class name>, <classnotfoundexception></classnotfoundexception></class </comm>	40	Verify the service name is correct in the service-start.prop.
59	CCS_BLOX_MGR_2118_Router CreationFailure	Failed to instantiate router <class name="">, <classnotfoundexception></classnotfoundexception></class>	40	Verify the jar files are in the right folder and classpath.
60	CCS_BLOX_MGR_2119_Service InitFailure	Service initialization failed: <filenotfoundexception></filenotfoundexception>	40	Service init failed, check the service name is correct in the service-start.prop and the corresponding jar file is in right folder and the classpath is correct.
61	CCS_BLOX_MGR_2120_NoSer viceClass	No class specified for service <service_name></service_name>	40	Verify the service name is correct in the service-start.prop and the corresponding jar file is in the right folder and the classpath set correctly.
62	CCS_BLOX_MGR_2121_Service ClassNotFound	Failed to find class <class_name> for service <service name=""></service></class_name>	40	Check the service name is correct and the corresponding jar files is in the folder and in the classpath.

63	CCS_BLOX_MGR_2122_Service InitFailed	Initialization of service <service_name> failed</service_name>	40	Service init failed, check the corresponding requirement for the service, such as the required queue name or file existing or not, etc. and other related exception.
64	CCS_BLOX_MGR_2123_Service CreationFailed	Creation of service < service_name> failed, <class name="">, <exception></exception></class>	40	Service creation failed. Check for correct service name, the corresponding requirement for the service, such as the required queue name or file existing or not, other related exceptions and so on.
65	CCS_BLOX_MGR_2124_FileNo tFound	<service properties="" startup=""> file < service startup file> not found</service>	40	Check that the service- start.prop files are in the right folder, or the root path is correct.
66	CCS_BLOX_MGR_2125_FileNo tLoaded	Failed to load <service startup<br="">properties> file < service startup file>: <ioexception></ioexception></service>	40	Files could not be found or open. Check if the service-start.prop files exist or not.
67	CCS_BLOX_DOC_2126_ClassN otFound	Failed to find < Envelope> class <com.commerceone.xdk.swi.m etadox.meta.envelope=""></com.commerceone.xdk.swi.m>	40	Check if required jar files are in the right folder.
68	CCS_BLOX_SVC_2127_Timeout Failed	Failed to handle timeout: <exception></exception>	40	Timout happened, check the network connection and other exception.
69	CCS_BLOX_DOC_2128_NoHan dlerMethod	No service method to handle document	40	Check the doc corresponding app service is in the service-start.prop.
70	CCS_BLOX_DOC_2129_ReplyT oOnewayRequestIgnored	Reply to one-way request ignored.	10	Cannot deliver a response to ONEWAY document; check the document sending mode.
71	CCS_BLOX_MGR_2130_SvcMg rInitFailed	Service Manager initialization failed, exiting	40	Shut down the server, check configuration and restart the server.

72	CCS_BLOX_PROT_2200_Servic eAuthorizationSuccess	Service authorization success.	0	No action
73	CCS_BLOX_SVC_2210_CanNot GenerateError	Can not generate Error	40	Check the senderID of the original document.
74	CCS_BLOX_SERVER_10010_Se rverNameNotSet	Server Name not set	40	Check and set the Server Name in server-start.prop.
75	CCS_BLOX_SERVER_10020_Se rverIDNotSet	Server ID not set	40	Check and set the Server ID in server-start.prop.
76	CCS_BLOX_SERVER_10030_Se rverTypeNotSet	Server Type not set	40	
77	CCS_BLOX_SERVER_10040_Se rverGroupNotSet	Server Group not set	40	
78	CCS_BLOX_SERVER_10035_Se rverModeInvalid	Server Mode is Invalid	40	Make sure that ccs.server.mode in the server-start.prop is either service_loopback or real.
79	CCS_BLOX_SERVER_10000_Se rverInitFailed	Server Initialization Failed!!	40	Not used
80	CCS_BLOX_SVC_10040_Server NameIDTypeSet	Server Name, ID, Type set. Server Name : <servername> Server ID : <serverid> Server Type : <servertype></servertype></serverid></servername>	40	No action
81	CCS_BLOX_SERVER_10050_Se rverSonicSyncResponseQueueNot Set	Server Sonic MQ Sync Response Queue Name is not set.	10	No action
82	CCS_BLOX_SERVER_10050_Se rverSonicEnabledAndSonicSyncR esponseQueueNotSet	Server is Sonic Enabled and the Server Sonic MQ Sync Response Queue Name is not set.	40	Make sure that the property ccs.server.sonicmq.syncresp onsequeue.name in the server_start.prop has the sync response queue name.
83	CCS_BLOX_SERVER_10060_Se rverSonicEnabledKeyNotSet	Server Sonic MQ Enabled Key is not set. Setting it to false.	10	No action
84	CCS_BLOX_SERVER_10061_Se rverSonicEnabledFalse	Server Sonic MQ Enabled Key is set to FALSE.	0	No action

85	CCS_BLOX_SERVER_10062_Se rverSonicEnabledTrue	Server Sonic MQ Enabled Key is set to TRUE.	0	No action
86	CCS_BLOX_SERVER_10063_C aught_DocumentExchangeExcepti on	A DocumentExchangeException is caught by ADS. <error message="">. The message is rolled back."</error>	40	
87	CCS_BLOX_SERVER_10064_C aught_Exception	An exception is caught by the ADS. <error message="">. The message is rolled back.</error>	40	
88	CCS_COMM_AGENT_3001_Ag entInitialized	Comm Agent initialized.	0	No action
89	CCS_COMM_AGENT_3002_Ag entStarted	Comm Agent started.	0	No action
90	CCS_COMM_AGENT_3003_Ag entStopped	Comm Agent stopped.	0	No action
91	CCS_COMM_AGENT_3004_Ag entDestroyed	Comm Agent destroyed.	0	No action
92	CCS_COMM_AGENT_3005_Re plyFailure	Failed to send reply: +1	30	Not used
93	CCS_COMM_AGENT_3006_Sec ondaryReply	Secondary reply received; ignoring.	30	Not used
94	CCS_COMM_AGENT_3007_No tAReply	Not a reply document; ignoring.	30	Something failed while creating the reply for a synchronous request. The request needs to be sent again.
95	CCS_COMM_AGENT_3008_NO _MESSAGE_STORE_FOUND	No message store found for archive: service type <type>, name <name></name></type>	30	If archiving is desired, then a MessageStoreService must be configured for this server.
96	CCS_COMM_AGENT_3009_M ESSAGE_STORE_FOUND	Message store found for archive	0	No action

97	CCS_COMM_SERVLET_3011_ HttpdInitFail	Failed to initialize http daemon.	40	This is a critical error. If the daemon doesn't start, the server will not start. Try starting it again, manually. If it fails, call customer support.
98	CCS_COMM_SERVLET_3012_ ReplyTimedOut	No reply document generated before timeout, envelope id = <envelope id=""></envelope>	40	The reply was not generated before timeout for this sync request specified by the envelope id. The request needs to be sent again.
99	CCS_COMM_JMS_3013_ReplyT imedOut	No reply document generated before timeout, envelope id = <envelopeid>.</envelopeid>	40	
100	CCS_COMM_JMS_3014_Docum entExchangeError	Document Exchange Error in the JMS CommService. <exception>.</exception>	40	
101	CCS_COMM_SERVLET_3015_ DocumentExchangeError	Document Exchange Error in the CommHttpServlet. <exception></exception>	40	
102	CCS_COMM_SERVLET_3016_ GeneralError	CommHttpServlet Error. <exception>.</exception>	40	
103	CCS_COMM_SERVLET_3017_F ailedToStoreMessage	Failed to archive message as requested	40	
104	CCS_COMM_SERVLET_3018_ RequestTimedout	Request timed out	20	
105	CCS_COMM_SERVLET_3019_I OError	IO Related Error	40	
106	CCS_COMM_SERVLET_3020_ MessageTooBig	Message too big. Size = <size>, Limit = limit>.</size>	40	
107	CCS_COMM_TRANSMITTER_ 3040_TransmitterCreationFailed	Transmitter creation failed.Transmitter Type = <protocol, exception=""></protocol,>	40	
108	CCS_COMM_TRANSMITTER_ 3041_TransmitterCreationSuccess ful	Transmitter creation successful.Transmitter Type = <pre><pre>cprotocol></pre></pre>	0	

109	CCS_COMM_TRANSMITTER_ 3042_ResourceCreationFailed	Resource creation failed in <servicename> method = <method></method></servicename>	40	
110	CCS_COMM_TRANSMITTER_ 3043_TransmitterPropertyError	Transmitter Property Error. Resource creation failed in <servicename> method = <method></method></servicename>	40	
111	CCS_COMM_TRANSMITTER_ 3044_NoTradingPartnerFound	No Trading Partner found. Service Name: <servicename>. Method: <method>. Trading Partner Not found: <exception></exception></method></servicename>	40	
112	CCS_COMM_TRANSMITTER_ 3050_DocumentListenerCreation Failed	Transmitter creation failed. Transmitter Type = +1. (TYPE IS NOT SPECIFIED IN CODE)	40	
113	CCS_COMM_TRANSMITTER_ 3051_DocumentListenerCreation Successful	Transmitter creation successful. Transmitter Type = +1. (NOT USED ENYWHERE)	0	
114	CCS_COMM_TRANSMITTER_ 3060_DocumentResponderCreatio nFailed	Transmitter creation failed. Transmitter Type = +1. (TYPE IS NOT SPECIFIED IN CODE)	40	
115	CCS_COMM_TRANSMITTER_ 3061_DocumentResponderCreatio nSuccessful	Transmitter creation successful. Transmitter Type = +1. (NOT USED ENYWHERE)	0	
116	CCS_COMM_TRANSMITTER_ 3070_DocumentServantCreationF ailed	Transmitter creation failed. Transmitter Type = +1. (NOT USED ENYWHERE)	40	
117	CCS_COMM_TRANSMITTER_ 3071_DocumentServantCreationS uccessful	Transmitter creation successful. Transmitter Type = +1. (NOT USED ENYWHERE)	0	
118	CCS_COMM_TRANSMITTER_ 3080_TransmitterCachingState	Transmitter Caching State : <cache value=""></cache>	10	

119	CCS_COMM_TRANSMITTER_ 3081_TransmitterCachingRefresh Rate	Transmitter Caching RefreshRate : <refreshrate>.</refreshrate>	10	
120	CCS_COMM_TRANSMITTER_ 3090_TransmitterInfoInitialization Error	TransmitterInfo initialization error	40	
121	CCS_COMM_TRANSMITTER_ 3091_TransmitterCacheSuccessful	Using cached Transmitter.	0	
122	CCS_COMM_JMS_ENVELOPE PUBLISHED_3092	Envelope published from JMS queue into router.	10	
123	CCS_COMM_JMS_JMSPUBLIS HED_3093	Envelope published from router into JMS queue.	10	
124	CCS_COMM_AGENT_ENVEL OPEPUBLISHED_3094	Envelope published from Communication input into router.	10	
125	CCS_COMM_AGENT_COMMP UBLISHED_3095	Envelope published from router into communication synch response.	10	
126	CCS_COMM_MCAST_3100_Fai ledToStartService	Couldn't start Multicast listener on [+1:+4:+5] + 6	40	Look in event log and/or debug-default as to why the MulticastListener could not be created, taking note of the address and port #.
127	CCS_COMM_MCAST_3110_Co mmAgentProcessingTimeout	Timeout in CommAgent while processing document: +1 + 4	40	Look in event log and/or debug-default as to why it timed out, taking note of the stackTrace.
128	CCS_COMM_JMS_3120_Failed ToCreateConnection	Failed to create JMS connection	40	Look in event log and/or debug-default as to why it was not able to connect to the Sonic Broker, taking note of the broker URL and the username/password used.

129	CCS_COMM_JMS_3121_Failed ToCreateQueue	Failed to create JMS queue	40	Look in event log and/or debug-default as to why it was not able to create the queue identity, taking note of the queueName passed in.
130	CCS_COMM_SONIC_COMM_S ERVICE_3150_NO_MESSAGE_ STORE_FOUND	No message store found for archive: service type <type>, name <name></name></type>	40	The message store was not among the list of known services. Check the service-start.prop to ensure it has been turned on.
131	CCS_COMM_SONIC_COMM_S ERVICE_3151_MESSAGE_STO RE_FOUND	Message store found for archive	0	The message store was found. If the system was configured to start with a message store then this is good. However if it was configured to start without one then check the service-start.prop to ensure that it was not turned on.
132	CCS_COMM_SONIC_COMM_S ERVICE_3152_INVALID_SONI C_HEADER	Invalid Sonic header	40	
133	CCS_COMM_SONIC_COMM_S ERVICE_3153_ENVELOPE_CO NSTRUCTION_FAILED	Envelope construction failed, error: +1	40	Look in event log and/or debug-default as to why it was not able to create the envelope out of the byte message, taking note of the stackTrace.
134	CCS_COMM_SONIC_COMM_S ERVICE_3154_AUTHENTICATI ON_FAILED	Authentication failed, error: +1	40	Look in event log and/or debug-default as to why the client could not be authenticated, taking note of the username/password used.
135	CCS_COMM_SONIC_COMM_S ERVICE_3155_HANDLE_TO_R OUTER_QUEUE_FAILED	Handle to router failed, error: +1	40	Look in event log and/or debug-default as to why we got this event, taking note of the stackTrace.
136	CCS_COMM_SONIC_COMM_S ERVICE_3156_MESSAGE_TOO _BIG	Message is too big size = $+1$, max = $+2$	40	Message is too big.

137	CCS_COMM_SONIC_COMM_S ERVICE_3157_ENVELOPE_AR CHIVING_FAILED	Envelope archiving failed, error: +1	40	Failed to archive envelope. Check if DB is up, check on disk space.
138	CCS_COMM_SONIC_COMM_S ERVICE_3158_COMMIT_FAILE D	Commit failed, error: +1	40	Look in event log and/or debug-default as to why not able to commit the transaction, taking note of the stackTrace.
139	CCS_COMM_SONIC_COMM_S ERVICE_3159_SEND_ERROR_ REPLY_FAILED	Send error-reply failed, error: +1	40	Look in event log and/or debug-default as to why not able to send the Error reply, taking note of the stackTrace.
140	CCS_COMM_SONIC_COMM_S ERVICE_3160_INITIALISATIO N_FAILED	SonicCommService initialisation failed error <error></error>	40	Look in event log and/or debug-default as to why the SonicCommService was not able to initialize, taking note of the stackTrace.
141	CCS_COMM_SONIC_COMM_S ERVICE_3161_READING_JMS_ HEADER_FAILED	Reading property from jms header failed, error: +1	40	Look in event log and/or debug-default as to why we had a hard time reading the JMS header, taking note of the stackTrace.
142	CCS_COMM_SONIC_COMM_S ERVICE_3162_PROPERTY_NO T_SET_IN_JMS_HEADER	Property +1 not set in jms header	40	Look in event log as to which property was not set in the JMS header.
143	CCS_COMM_SONIC_COMM_S ERVICE_3163_ROLLBACK_FA ILED	Rollback failed, error: +1	40	Look in event log and/or debug-default as to why we had a hard time rolling back the transaction, taking note of the stackTrace.
144	CCS_COMM_SONIC_COMM_S ERVICE_3164_ERROR_READI NG_BYTES_FROM_JMS_MESS AGE	Error reading bytes from jms message, error: +1	40	Look in event log and/or debug-default as to why we had a hard time reading the bytes from the JMS message, taking note of the stackTrace.

145	CCS_COMM_SONIC_COMM_S ERVICE_3165_JMS_MESSAGE _IS_NOT_BYTES_MESSAGE_T YPE	JMS Message is not BytesMessage type	40	Look in event log and/or debug-default as to why the JMS message was not an instance of ByteMessage, taking note of the stackTrace. And then take a look in the DMQ for the message.
146	CCS_COMM_SONIC_COMM_S ERVICE_3166_SEND_TO_DEA D_MESSAGE_QUEUE_FAILED	Send to SonicMQ.deadMessage failed, error: +1	40	Look in event log and/or debug-default as to why we had a hard time sending the message to the DMQ, taking note of the stackTrace.
147	CCS_COMM_SONIC_COMM_S ERVICE_3167_XCBL_VERSIO N_TRANSFORMATION_IN_FAI LED	XCBLVersion transformation in failed, error: +1	40	Look in event log and/or debug-default as to why the xCBL version transformer burped on a transform in, taking note of the stackTrace.
148	CCS_COMM_SONIC_COMM_S ERVICE_3168_XCBL_VERSIO N_TRANSFORMATION_IN_SU CCEEDED	XCBLVersion transformation in succeeded	0	Transformation on an inbound message was successful.
149	CCS_COMM_SONIC_TRANSM ITTER_3200_PROPERTY_NOT _SET_IN_JMS_HEADER	Property +1 not set in jms header	40	Look in event log as to which property was not set in the JMS header.
150	CCS_COMM_SONIC_TRANSM ITTER_3201_READING_JMS_H EADER_FAILED	Reading property from jms header failed, error: <errormsg></errormsg>	40	
151	CCS_COMM_SONIC_TRANSM ITTER_3202_AUTHENTICATIO N_FAILED	Authentication failed, error: <errormsg></errormsg>	40	Look in LDAP and make sure the security settings are correct. (Note: from the event, the operator will not be able to find out the sender ID. If possible we may want to augment this event with senderid information).
152	CCS_COMM_SONIC_TRANSM ITTER_3203_XCBL_VERSION_ TRANSFORMATION_OUT_FAI LED	XCBLVersion transformation out' failed, error: +1	40	Not Used

153	CCS_COMM_SONIC_TRANSM ITTER_3204_XCBL_VERSION_ TRANSFORMATION_IN_FAILE D	XCBLVersion transformation in failed, error: <errormsg></errormsg>	40	The CBL schema may be missing or you may have an incorrect version.
154	CCS_COMM_SONIC_TRANSM ITTER_3205_XCBL_VERSION_ TRANSFORMATION_OUT_SU CCEEDED	XCBLVersion transformation 'out' succeeded	0	Not Used (No action required)
155	CCS_COMM_SONIC_TRANSM ITTER_3206_XCBL_VERSION_ TRANSFORMATION_IN_SUCC EEDED	XCBLVersion transformation in succeeded	0	Not Used (No action required)
156	CCS_COMM_HTTP_TRANSMI TTER_3250_XCBL_VERSION_ TRANSFORMATION_OUT_FAI LED	XCBLVersion transformation 'out' failed, error: +1	40	Not Used
157	CCS_COMM_HTTP_TRANSMI TTER_3251_XCBL_VERSION_ TRANSFORMATION_IN_FAILE D	XCBLVersion transformation in failed, error: +1	40	Not Used
158	CCS_COMM_HTTP_TRANSMI TTER_3252_XCBL_VERSION_ TRANSFORMATION_OUT_SU CCEEDED	XCBLVersion transformation 'out' succeeded	0	Not Used (No action required)
159	CCS_COMM_HTTP_TRANSMI TTER_3253_XCBL_VERSION_ TRANSFORMATION_IN_SUCC EEDED	XCBLVersion transformation in succeeded	0	Not Used (No action required)
160	CCS_COMM_AGENT_TRANS MITTER_3300_XCBL_VERSIO N_TRANSFORMATION_OUT_ FAILED	XCBLVersion transformation 'out' failed, error: <errormsg></errormsg>	40	The CBL schema may be missing or you may have an incorrect version.
161	CCS_COMM_AGENT_TRANS MITTER_3301_XCBL_VERSIO N_TRANSFORMATION_IN_FAI LED	XCBLVersion transformation in failed, error: <errormsg></errormsg>	40	The CBL schema may be missing or you may have an incorrect version.

162	CCS_COMM_AGENT_TRANS MITTER_3302_XCBL_VERSIO N_TRANSFORMATION_OUT_ SUCCEEDED	XCBLVersion transformation 'out' succeeded	0	No action required.
163	CCS_COMM_AGENT_TRANS MITTER_3303_XCBL_VERSIO N_TRANSFORMATION_IN_SU CCEEDED	XCBLVersion transformation in succeeded	0	No action required
164	CCS_DCLT_1_Test	A sample utility CCS_DCLT - event error message +1 +2.	40	Not Used
165	CCS_DCLT_4010_XmlConversio nError	XML conversion error.	40	Not Used
166	CCS_DCLT_4015_UnsupportedE ncodingError	UTF8 encoding not supported.	40	Not Used
167	CCS_KRNL_5010_QueueCreatio nError	Failed to create a Queue using class: <cls_name></cls_name>	40	
168	CCS_KRNL_5015_ServiceQueue ingError	Failed to queue envelope to service	40	
169	CCS_KRNL_5025_GoodwillServ iceWarning	GoodwillService: Got <message id="">.</message>	20	
170	CCS_KRNL_5026_SyncDocume ntNoSubscriberWarning	Sync Document has no subscruber: Envelope Id: <message id="">.</message>	40	
171	CCS_KRNL_5028_AsyncDocum entNoSubscriberWarning	Async Document has no subscriber: Envelope Id: <message id="">.</message>	40	
172	CCS_KRNL_5027_SyncDocume ntErrorDropped	Sync Document dropped: Envelope Id: <message id="">.</message>	40	
173	CCS_KRNL_5029_ServerCannot SendErrorDocumentOutForSyncR equest	Server cannot send Error document out as response to sync request : Envelope Id: <message id="">.</message>	40	
174	CCS_KRNL_5130_PublishError	Publish Error!!	40	

175	CCS_KRNL_5131_CAUGHT_D OCUMENT_EXCHANGE_EXC EPTION	Router catches a DocumentExchangeException. <exception message="">. The message is rolled back</exception>	40	
176	CCS_KRNL_5132_CAUGHT_E XCEPTION	The router catches an exception. " + <exception message=""> + ". The message is rolled back."</exception>	40	
177	CCS_KRNL_5210_		40	
178	CCS_KRNL_5250_QueueCreatio nSuccess	MSMQ: <name> created successfully. Journal = <on <br="">off> , Delivery = <express <br="">recoverable></express></on></name>	0	
179	CCS_KRNL_5255_QueueExistsI nfo	MSMQ : Queue: <name> already exists. Journal = <on <br="">off> , Delivery = <express <br="">recoverable></express></on></name>	10	
180	CCS_KRNL_5260_IllegalQueue NameError	MSMQ: Illegal Queue Name: <name> .</name>	40	
181	CCS_KRNL_5265_QueueCreatio nError	MSMQ: Queue: <name> creation error!</name>	40	
182	CCS_KRNL_5270_QueueReceiv eError	MSMQ: MsmqDequeue: Message receives error.	40	
183	CCS_KRNL_5271_QueueReceiv eSuccessful	MSMQ:MsmqDequeue: Message receives successful.	0	
184	CCS_KRNL_5275_QueueSendEr ror	MSMQ: MsmqEnqueue: Message sends error.	40	
185	CCS_KRNL_5276_QueueSendSu ccessful	MSMQ: MsmqEnqueue: Message send successful.	0	
186	CCS_KRNL_THREAD_5310_Se rviceThreadException	Unhandled exception in service thread: <service thread<br="">information> <java StringWriter information></java </service>	40	
187	CCS_KRNL_5410_		40	

188	CCS_KRNL_SONICMQ_6000_C ONNECTION_FAILED		40	
189	CCS_KRNL_SONICMQ_6001_I nitDefaultQueueError	In SonicThreadedEnvelopeQueue :initDefaultQueue can create default queue resource, <jmsexception></jmsexception>	40	
190	CCS_KRNL_SONICMQ_6002_ QueueBrowserError	In SonicThreadedEnvelopeQueue : isEmpty Queue browser error. < JMSException >	40	
191	CCS_KRNL_SONICMQ_6003_ QueueSendError	In SonicThreadedEnvelopeQueue : enQueue Message Send Error. < JMSException >	40	
192	CCS_KRNL_SONICMQ_6004_R eceive_NULL_JMS_Message	In SonicThreadedEnvelopeQueue :deQueue A Null JMS message is received. Possible reason is connection dropped during the receive.	40	
193	CCS_KRNL_SONICMQ_6005_ QueueReceiveError	In SonicThreadedEnvelopeQueue :deQueue cannot receive message. < JMSException >	40	
194	CCS_KRNL_SONICMQ_6006_ GET_MSG_LEN_PROP_FAILE D	In SonicThreadedEnvelopeQueue :deQueue cannot receive message. < JMSException >	40	
195	CCS_KRNL_SONICMQ_6007_C REATE_QUEUE_RESOURCE_F AILED	In SonicThreadedEnvelopeQueue :createQueue, queue resource creation failed. <exception></exception>	40	
196	CCS_KRNL_SONICMQ_6008_C OMMIT_FAILED	In SonicThreadedEnvelopeQueue :commitTransaction commit failed. <jmsexception></jmsexception>	40	

197	CCS_KRNL_SONICMQ_6009_R OLLBACK_FAILED	In SonicThreadedEnvelopeQueue :rollbackTransaction rollback failed. <jmsexception></jmsexception>	40
198	CCS_KRNL_SONICMQ_6010_R OLLBACK_FAILED	40" In SonicThreadedEnvelopeQueue :rollbackTransaction rollback failed	40
199	CCS_KRNL_SONICMQ_6011_I NVALID_ROUTER_SERVICE_ QUEUE_CONF	Invalid queue configuration. If router queue is memory, service queue must be memory queue	40
200	CCS_KRNL_SONICMQ_6012_ UNKNOWN_QUEUE_OWNER	The queue configuration specifies an unknown queue owner	40
201	CCS_KRNL_SONICMQ_6013_C ONNECTION_INIT_FAILED	SonicMQ connection initialization failed	40
202	CCS_KRNL_SONICMQ_6014_R ECEIVE_EXCEPTION_OnExcep tion	In OnException, receive exception in the JMS exception listener. +1	40
203	CCS_KRNL_SONICMQ_6015_C ONNECTION_DROPPED	SonicMQ broker connection dropped unexpectedly. +1	40
204	CCS_KRNL_SONICMQ_6016_C ONNECTION_DROPPED	SonicMQ broker connection dropped unexpectedly	40
205	CCS_KRNL_SONICMQ_6017_C REATE_QUEUE_FAILED	In JMSQueuePasser:setNextQueu e, set next queue failed. +1	40
206	CCS_KRNL_SONICMQ_6018_S END_QUEUE_FAILED	In JMSQueuePasser:enqueue, send queue failed. +1	40
207	CCS_KRNL_SONICMQ_6019_ NON_SESSIONTHREAD_PASS ED	In ThreadedEnvelopeQueue :initQueue, a non sessionThread is passed to initQueue.	40

208	CCS_KRNL_SONICMQ_6020_ NON_SESSIONTHREAD_PASS ED	In ThreadedEnvelopeQueue :getEnvelopeListener, a non sessoinThread is passed to initQueue.	40	
209	CCS_KRNL_SONICMQ_6021_ NON_SESSIONTHREAD_PASS ED	In BasicEnvelopeQueue :getEnvelopeListener, a non sessionThread is passed to initQueue.	40	
210	CCS_KRNL_SONICMQ_6022_ NON_SESSIONTHREAD_PASS ED	In BasicEnvelopeQueue :getEnvelopeListener, a non sessionThread is passed to initQueue.	40	
211	CCS_KRNL_SONICMQ_6023_ NON_INTEGER_TIMETOLIVE	Sonic Interface: envelope time to live parameter is not integer. +1	40	
212	CCS_KRNL_SONICMQ_6024_C ONNECT_TO_BROKER	Connect to broker: +1 as +2	40	
213	CCS_KRNL_SONICMQ_6025_S ESSIONTHREAD_INIT_FAILE D	JMS QueueSessionThread init failed: +1	40	
214	CCS_KRNL_SONICMQ_6026_I NVALID_QUEUE_CONFIGURA TION	Invalid Queue Configuration: +1.	40	
215	CCS_KRNL_SONICMQ_6027_ NULL_QUEUE_PASSER	NULL Value: +1.	40	
216	CCS_KRNL_SONICMQ_6028_C AN_NOT_CREATE_ENVELOP E		40	
217	CCS_KRNL_SONICMQ_6029_ MESSAGE_TO_DEADLETTER _QUEUE		20	
218	CCS_KRNL_SONICMQ_6030_ MESSAGE_TO_DEADLETTER _QUEUE_FAILED		40	
219	CCS_SEC_1_Test	A sample utility CCS_SEC_CONN - event error message +1 +2.	40	

220	CCS_SEC_CONN_6010_ClientC onnectionSucceeded	This event indicates that the HTTPS/JMS Client connection has succeeded and application level authentication of has completed.	0	No action. Informational Event.
		Event Parameters (only for HTTPS client): - ConnectionName Remote Host Name of HTTPS client connecting to HTTPS Server Fixed Message (for both HTTPS and JMS		
		connections): "Client connection succeeded."		

221	CCS_SEC_CONN_6020_Authent	This event indicates that the	40	Check if the TP application
	icationFailed	application level authentication		is connecting multiple times
		of Trading Partner (TP) Client		with same authentication
		has Failed.		failure result, possibly due to
		nus runeu.		incorrect {MPID, UserId,
		Event Parameters:		Password}.
		Event I drameters.		Notify TP organization that
		HTTPS Connections:		they may need to reset their
		ConnectionNameHTTP/S		password if they have
		Client RemoteUserName		
				forgotten the right password
		TargetName		or use correct password. Possible Denial-of-service
		Target Resource		
		URL being		attack. Need to use correct
		Accessed on the		safety measures and network
		HTTPS Server		monitoring to track possible
		State		illegal client connections.
		General HTTP/S		
		based TP		
		Authentication		
		Error message		
		ErrorDetails		
		Specific run-time error		
		message for TP Authentication		
		Failure over HTTPS		
		connections.		
		For JMS/SonicMQ Broker		
		based TP connections,		
		following events attributes are		
		available:		
		State General JMS-based TP		
		Authentication Error message		
		ErrorDetails Specific run-time		
		error message for TP		
		Authentication Failure over		
		JMS/SonicMQ connections.		
			<u> </u>	

226	CCS_SEC_CONN_6050_ServerL DAPConnectionFailed	Connection to LDAP Server Failed (during TP Password Authentication). Event Parameters: LDAPSERVER LDAP Host Name. 2) USERNAME LDAP Connection UserId (used by the Security Subsystem)	40	Check if the Netscape LDAP Server HostName, UserId, Password are correctly configured in the security.prop file. Check that the LDAP Server is alive.
227	CCS_SEC_REG_ENVELOPECO NTEXT_3000	REG Envelope Context.	10	227
228	CCS_SEC_REG_INITSTART_30 10	REG Init Start.	10	228
229	CCS_SEC_REG_INITCOMPLET E_3015	REG Init Complete.	10	229
230	CCS_SEC_REG_HANDLEBASI CTPSTART_3020	REG Handle Basic TP Profile Start.	10	230
231	CCS_SEC_REG_HANDLEBASI CTPCOMPLETE_3025	REG Handle Basic TP Profile Complete.	10	231
232	CCS_SEC_REG_HANDLEBASI CTPLDAPSTART_3030	REG Handle Basic TP Profile LDAP Start.	10	232
233	CCS_SEC_REG_HANDLEBASI CTPLDAPCOMPLETE_3035	REG Handle Basic TP Profile LDAP Complete.	10	233
234	CCS_SEC_REG_HANDLEBASI CTPMEMBERSTART_3040	REG Handle Basic TP Member Profile Start.	10	234
235	CCS_SEC_REG_HANDLEBASI CTPMEMBERCOMPLETE_304 5	REG Handle Basic TP Member Profile Complete.	10	235
236	CCS_SEC_REG_HANDLEBASI CTPMEMBERLDAPSTART_305 0	REG Handle Basic TP Member Profile LDAP Start.	10	236
237	CCS_SEC_REG_HANDLEBASI CTPMEMBERCOMPLETE_305 5	REG Handle Basic TP Member Profile LDAP Complete.	10	237

238	CCS_SEC_REG_HANDLEUPD ATETPSTART_3060	REG Handle Update TP Start.	10	238
239	CCS_SEC_REG_HANDLEUPD ATETPCOMPLETE_3065	REG Handle Update TP Complete.	10	239
240	CCS_SEC_REG_HANDLEUPD ATETPMEMBERSTART_3070	REG Handle Update Member Start.	10	240
241	CCS_SEC_REG_HANDLEUPD ATETPMEMBERCOMPLETE_3 075	REG Handle Update Member Complete.	10	241
242	CCS_SEC_REG_NODEPROFIL EINITSTART_3080	REG Node profile Init Start.	10	242
243	CCS_SEC_REG_NODEPROFIL EINITCOMPLETE_3085	REG Node Profile Init Complete.	10	243
244	CCS_SEC_REG_HANDLELOO KUPTPSTART_3090	REG Handle Basic TP Lookup Start.	10	244
245	CCS_SEC_REG_HANDLELOO KUPTPCOMPLETE_3095	REG Handle Basic TP Lookup Complete.	10	245
247	CCS_SEC_CONN_CONNCONS TRUCTSTART_3010	This event indicates a new TP HTTPS/JMS Connection creation event.	10	Informational event. No action.
		Event Parameters: - No variable parameters; - Fixed message: "Conn Constructor Start."		
248	CCS_SEC_CONN_CONNCONS TRUCTCOMPLETE_3015	This event indicates a new TP HTTPS/JMS Connection creation was completed.	10	Informational event. No action.
		Event Parameters: - No variable parameters; - Fixed message: "Conn Constructor Complete."		

249	CCS_SEC_CONN_CONNVALID ATESTART_3020	This event indicates start of a new TP/JMS Authentication event. Event Parameters: - No variable parameters; - Fixed message: "Conn Validate Start."	10	Informational event. No action.
250	CCS_SEC_CONN_CONNVALID ATECOMPLETE_3025	This event indicates start of a new TP/JMS Authentication event. Event Parameters: - No variable parameters; - Fixed message: "Conn validate end."	10	Informational event. No action.
251	CCS_SEC_CONN_CONNKEYS TORE_3090_OPENFAILURE	This event indicates problems in opening the HTTPS Server keystore file. Event Parameters: - KeystoreFilePath Fully-qualified path of the server keystore file ErrorDetails Run-time error message during keystore opening failure.	40	Check if the HTTPS Server keystore file exists in the < KeystoreFilePath>. If not, check if the https-server.prop file has the correct keystore file name in the property iaik.jigsaw.ssl.keystore Check if the password of the keystore is properly configured in the https-Server.prop file in the property iaik.jigsaw.ssl.keystore.pass word (and also encrypt the password before going to Production).

252	CCS_SEC_CONN_CONNKEYS TORE_3095_PWDDECRYPTIO NERROR	This event indicates problems in opening the HTTPS Server keystore file due to the keystore password not successfully decrypted. Event Parameters: - KeystoreFilePath Fully-qualified path of the server keystore file ErrorDetails Specific run-time error message during keystore password decryption failure.	40	Check to make sure that keystore file is not corrupt; refer to Certificate Manager Keystore on page 7-11. Was the keystore file migrated from another installation? We do not support re-use of keystores migrated from 40-bit installations to 128-bit installations. Re-create keystore and reinstall HTTPS server certificate.
253	CCS_SEC_CONN_6060_SetJMS ClientSSLPropSucceeded	This event indicates that the properties for SonicMQ JMS client SSL connection in the client.prop have been successfully set.	0	No action. Informational Event.
254	CCS_SEC_CONN_6065_SetJMS ClientSSLPropFailed	This event indicates problems in setting the properties for SonicMQ JMS client SSL connection in the client.prop. Event Parameters: - EXCEPTIONMESSAGE Specific exception message.	40	Check the following properties in security.prop: - jms.client.ssl.enable - jms.client.ssl.provider.class -jms.client.ssl.cipher.suites - jms.client.ssl.client.requireTr ustedRoot - jms.client.ssl.client.trustedR oot.dir Check if any properties above are missing or have an invalid value.

255	CCS_SEC_HTTPSSERVER_606 0_UnTrustedCARootClientConne ctionEstablished	This event indicates that the HTTPS Client connecting to the HTTPS Server has untrusted CA Root certificate, but by default configuration we are accepting the HTTPS connection (since the client certificate is unexpired and signature is valid.)	0	Informational event. No action.
		Event Parameters: - SubjectDN Subject Name of HTTPS Client Certificate - IssuerDN Issuer Name (i.e., CA Name) of HTTPS Client Certificate - Fixed Message: "HTTPS Client's Cert has untrusted CA Root, client connection succeeded:"		

256 CCS_SEC_HTTPSSERVER_606 5_UnTrustedCARootClientConne ctionFailed	This event indicates that the HTTPS Client connecting to the HTTPS Server has untrusted CA Root certificate, and due to HTTPS Server configuration requiring client certificates to be issued from Trusted CAs, the connection is rejected at SSL handshake time. Event Parameters: - SubjectDN Subject Name of HTTPS Client Certificate - IssuerDN Issuer Name (that is, CA Name) of HTTPS Client Certificate - Fixed Message: "HTTPS Client's Cert has untrusted CA Root, client connection failed:"	40	Using the Certificate Manager, check if IssuerDN matches one of the trusted CAs in the Server Keystore. If the IssuerDN does not match one of the trusted CAs, decide if that CA should be trusted and acquire the Trusted CA Root from the client site. Re-configure the HTTPS Server to not require Trusted CA root from clients by changing the https- server.prop file property iaik.jigsaw.ssl.client.require TrustedRoot to false. Note: Option 2 is not recommended during normal production, only during testing deployment.
--	---	----	--

258	CCS_SEC_HTTPSSERVER_606 5_NoServerCertificateFoundInKe yStore	This event indicates that the HTTPS Server failed to bootstrap due to server certificate not available in the Server Keystore. Event Parameters: -ServerCertificateEntryName Entry Name of HTTPS Server certificate entry in the https-server.prop file property: iaik.jigsaw.ssl.rsa.keyAndCertificate - KeyStoreFilePath Fully-qualified file path to HTTPS Server keystore file.	40	Check if the https- server.prop file has the correct certificate entry name in the https-server.prop file (that is, entry name corresponds to the real HTTPS Server certificate that is imported into the keystore using the Certificate Manager). 2) Check if the keystore file name is correct in https- server.prop file.
259	CCS_SEC_DOCUMENTSERVIC E_6065_DataDecryptionError	This event indicates that a data decryption error occurred. Event Parameters: - Fixed Message: "Data Decryption Error:" - ErrorDetails Specific run-time failure reasons.	40	Report error details to Commerce One Tech Support.
260	CCS_SEC_REG_SONICBROKE RCREATIONFAILED_6070	Creation Of Broker +< TPBROKERURL>, For Site Node < SITENODENAME>, Failed	40	260
261	CCS_SEC_REG_SONICBROKE RWARNING_6075	Broker < TPBROKERURL > For Site Node < SITENODENAME> is of Local Address Type. Not Creating Entry in Portal's Config Server	20	261
262	CCS_SEC_REG_SONICBROKE RDELETIONFAILED_6080	Deletion Of Broker +1 , For Site Node + 2, Failed	40	
263	CCS_SVC_LOSTANDFOUND_7 000_GotDocument	Lost and Found service got document : +1	30	N/A

264	CCS_SVC_LOSTANDFOUND_7 001_SYNC	Lost and found got sync request, sending back error	30	Service Router – No service is subscribing to this document. Hence, this synchronous request is ending up in the L&F. The client should see an exception. Check if all the services are up and running. Portal Router – The synch transmitter service cannot send the request out to the XPC. Check the transmission settings for the SyncTransmitterService
265	CCS_SVC_LOSTANDFOUND_7 002_ASYNC	Lost and found got async document.		The AsyncTransmitterService cannot send the asynchronous document out. Check the transmission settings for the AsyncTransmitterService.
266	CCS_SVC_LOSTANDFOUND_7 003_NO_MESSAGE_STORE_F OUND	No message store found for lost and found: service type <type>, name <name></name></type>	30	N/A
267	CCS_SVC_LOSTANDFOUND_7 004_MESSAGE_STORE_FOUN D	Message store found for lost and found service	0	N/A
268	CCS_SVC_REMOTESUBSCRIP TION_7010_SubscriptionSuccess	Remote Subscription from Node: +1 is successful with id = +2	10	N/A
269	CCS_SVC_REMOTESUBSCRIP TION_7011_UnSubscriptionSucc ess	Node: +1, with id = +2 successfully unsubscribed	10	N/A
270	CCS_SVC_VIRTUALNODE_70 12_QueueCreateFail	Queue: +1 could not be created using class: +2 for the Node: +3	40	N/A
271	CCS_SVC_SUBSCRIPTION_701 3_SendSubscription	Sending Remote Subscription to Main CCS Server	20	N/A

		1		1
272	CCS_SVC_SUBSCRIPTION_701 4_SubscriptionSuccess	Subscription Successful with Main CCS Server , Id = +1	20	N/A
273	CCS_SVC_SUBSCRIPTION_701 5_SubscriptionFail	Remote Subscription Un- Successful with Main CCS Server, Returned: +1	40	N/A
274	CCS_SVC_SUBSCRIPTION_701 6_Unsubscribe	UnSubcribing from Main CCS Server	10	N/A
275	CCS_SVC_SUBSCRIPTION_701 7_UnsubscribeSuccess	UnSubscribe successful from Main CCS Server	10	N/A
276	CCS_SVC_SUBSCRIPTION_701 8_UnsubscribeFail	UnSubscribe unsuccessful with Main CCS Server, Returned : +1	40	N/A
277	CCS_SVC_FACTORY_7019_Cre ationFailure	Failed to create +1 using +2: +3	40	This message could be seen at server startup when the server is loading the different factory objects that are internal to the server. The message should indicate the corresponding factory object that it is failing to load. This event should not arise and if it does, indicates a serious internal problem.
278	CCS_SVC_TRANSMITTER_702 0_TransmitFailure	Failed to transmit envelope id = +1: +2	40	There is an error in transmitting a document from the (A)syncTransmitterService. The error could be due a misconfiguration of the corresponding service, or an error in the underlying transport mechanism (Sonic or HTTPS).
279	CCS_SVC_FORWARD_7021_Do cumentForwarded	Document <documentname> from <sender> forwarded to <receiver></receiver></sender></documentname>	10	N/A

280	CCS_SVC_FORWARD_7022_Fo rwardingFailed	Document < documentname> from < sender> failed to forward to < receiver>: <reason></reason>	40	N/A
281	CCS_SVC_PING_7023_PingSent	Ping document sent	10	N/A
282	CCS_SVC_PING_7024_PongRec eived	Pong document received	10	N/A
283	CCS_SVC_VIRTUALNODE_70 25_InitFailed	Initialization failed for node +1: +2	40	N/A
284	CCS_COMM_SONIC_COMM_S ERVICE_7026_XCBL_VERSIO N_TRANSFORMATION_OUT_ FAILED	XCBLVersion transformation 'out' failed, error: +1	40	There was an error in transforming the envelope from one version of CBL to the other. Check if the transformation service is up and running and if it is then it is configured correctly.
285	CCS_SVC_SyncTransmitterServi ce_7030_NotFound	Sync Transmitter Service not found in ServiceRegistry. Server unusable.	40	The SyncTransmitterService is not specified in the service-start.prop file for the server. Make sure that there is a specification for the SyncTransmitterService in the file.
286	CCS_SVC_SyncTransmitterServi ce_7031_EnvelopeTransmitted	Envelope successfully transmitted from SyncTransmitterService	10	N/A
287	CCS_SVC_AsyncTransmitterServ ice_7040_NotFound	Async Transmitter Service not found in ServiceRegistry. Server unusable.	40	N/A
288	CCS_SVC_AsyncTransmitterServ ice_7041_EnvelopeTransmitted	Envelope successfully transmitted from AsyncTransmitterService	10	N/A

289	CCS_SVC_TRANSMITTER_900 0_ErrorForAnError	Got an Error for an Error document. EnvelopeId: +1. ReferenceId: +2. Exception: +3"	40	This event is generated when there is an error while transmitting an error document from the AsyncTransmitterService. Check the transmission settings and the underlying transport (HTTPS or Sonic) settings for the AsyncTransmitterService.
290	CCS_SVC_TRANSMITTER_905 0_ErrorForAnErrorIgnored	Cannot deliver and error for an error. Error document ignored. EnvelopeId: +1. ReferenceId: +2. Exception: +3	40	This event is usually preceded by the previous one and just indicates that in case when there is an error in transmitting an error document for the AsyncTransmitterService, the platform drops the error document.
291	CCS_SVC_TRANSMITTER_905 1_EnvelopeDroppedBecauseMatc hedExcludeAddress	+1: Envelope dropped because excludeAddress = +2	10	This event is generated when the (A)syncTransmitterService receives an envelope that was sent from an address that this server is configured to reject.
289	CCS_UTL_URI_1_Test	A sample utility URI - event error message +1 +2.	40	N/A

B Advanced Security

This appendix covers advanced security topics. It discusses optional Client-side Trusted CA Validation, presents a table of all pre-installed Trusted CA roots, and contains information on Trading Partner passwords.

Client-side Trusted CA Validation

CA Trust Policies on the HTTPS Client

When HTTPS client applications (such as XPC 4.1, the Async Tranmission Service, Sync Tranmission Service) make connections to target HTTPS Servers, you can use an optional security policy to verify that the target HTTPS Server is identifying itself with a SSL Server certificate that was issued by a trusted third party CA.

By default, the HTTPS client will accept any server certificate CA to be trusted. Further details are discussed below.

Enforcing CA trust policies on the HTTPS client-side can further improve the security of the HTTPS client applications. This is because it only allows connections to servers that use an SSL certificate issued by a third party CA that is trusted by the HTTPS client application.

Configuring CA Trust Policies for HTTPS Client

For XPC HTTPS client applications, the setting of this CA trust policy option is defined in <install:root>/runtime/servers/<servername>/config/startup/security.prop as follows:

security.httpsServerTrustedRoot.required=false

this is default value.

To enable this security policy option, we can configure this property as:

security.httpsServerTrustedRoot.required=true

all target server CAs must be trusted

If you choose this option, you must determine if your target HTTPS Server(s) will be configured with a SSL Server certificate issued by a trusted CA. For example, for XPC Servers running at a BuySite or at an NMM site, they will only connect back to MarketSite and hence only MarketSite's Server CA needs to be trusted. However, at a MarketSite, all CAs for all target HTTPS Servers must be configured to be trusted.

Default HTTPS Client-side Behavior

The default is set to false because of configuration complexity of "registering" all target HTTPS Servers CAs to be trusted. However, the HTTPS client applications will always validate that the target server certificate chain signatures are valid and certificates are not expired.

Managing CA Trust Policies of Target HTTPS Server

If this option is enabled, your XPC operator must verify that the issuing CA of the target HTTPS Server certificate is trusted. If the CA of the target server is not trusted by the XPC installation and this CA Trust Policy is enabled, then you must complete the following steps:

1. Acquire CA Root of Target Server

The operator must acquire that CA root from the target site. The CA certificate of the target server may be acquired via an e-mail from target sites.

2. Trust the new CA Root

Use the Certificate Manager tool to import the CA root certificate that needs to be trusted by that HTTPS client domain.

Detecting Un-Trusted CA Validation

When the CA root certificate is not trusted, you will get the following run-time error message:

HTTPS Client application has detected a server certificate by an untrusted CA Root, therefore client connection failed.

Additionally, an event is logged that the HTTPS client has refused to connect to the target HTTPS Server because the CA of the target server is not trusted. An event of this form will be logged in the event log file:

```
<EVENT><TIME>November 15, 2000 9:38:33 PM GMT-08:00</
TIME><MILLIS>974353113473</
MILLIS><KEY>CCS_SEC_HTTPSCLIENT_6065_UnTrustedServerCARootAndC1
ientConnectionFailed</KEY><TEXT>: HTTPS Client application has
detected a server certificate by an untrusted CA Root, therefore
client connection failed: subject:
C=US,ST=California,OU=MarketSiteOps,O=MarketSitePartnerCompany,
L=Mountain View, EMail=admin@yourmarketsite.com, CN=rsa-user ,
issuer: CN=Commerce One (Local) Self-signed CA,OU=Market Site -
Server Security, O=Commerce One Certificate Server -
CA,L=Mountain View,C=USA</TEXT><CAT>CCS_SEC</
CAT><SUBCAT>SECURITY</SUBCAT><NUMID>6065</NUMID><SEV>40</
SEV><TYPE>STATUS</TYPE><LANG>en</
LANG><PARM>C=US,ST=California,OU=MarketSiteOps,O=MarketSitePart
nerCompany, L=Mountain
View, EMail=admin@yourmarketsite.com, CN=rsa-user</
PARM><PARM>CN=Commerce One (Local) Self-signed CA,OU=Market
Site - Server Security, O=Commerce One Certificate Server -
CA, L=Mountain View, C=USA</PARM></EVENT>
```

Pre-installed Trusted CA Root Certificates

MarketSite HTTPS and SonicMQ Broker have a SSL Server supporting Trusted CA Roots for the following Certificate Authorities: Baltimore, Entrust, Thawte and Verisign. Details of these Trusted CAs are provided in the following table.

Third Party CA Name	Friendly Name	Trusted CA Root DN
Baltimore/ GTE Cybertrust	BTCTRoot_12-20-00	CN=Baltimore CyberTrust Root, OU=CyberTrust, O=Baltimore, C=IE
Entrust	Entrust2048CA	CN=Entrust.net Certification Authority (2048), OU=(c) 1999 Entrust.net Limited, OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.), O=Entrust.net
Entrust	EntrustGss164	CN=Entrust.net Secure Server Certification Authority, OU=(c) 2000 Entrust.net Limited, OU=www.entrust.net/SSL_CPS incorp. by ref. (limits liab.), O=Entrust.net
Entrust	EntrustServerCA	CN=Entrust.net Secure Server Certification Authority, OU=(c) 1999 Entrust.net Limited, OU=www.entrust.net/CPS incorp. by ref. (limits liab.), O=Entrust.net, C=US
Baltimore/ GTE Cybertrust	GTECTGlobalRoot_12-20-00	CN=GTE CyberTrust Global Root, OU=GTE CyberTrust Solutions, Inc., O=GTE Corporation, C=US
Baltimore/ GTE Cybertrust	GTECTRoot_12-20-00	CN=GTE CyberTrust Root, O=GTE Corporation, C=US
Thawte	ThawtePremiumServerCA	EMail=premium-server@thawte.com,CN=Thawte Premium Server CA, OU=Certification Services Division, O=Thawte Consulting cc, L=Cape Town,ST=Western Cape, C=ZA

Third Party CA Name	Friendly Name	Trusted CA Root DN
Thawte	ThawteServerCA	EMail=server-certs@thawte.com,CN=Thawte Server
		CA,OU=Certification Services Division,O=Thawte Consulting cc,L=Cape Town,ST=Western Cape,C=ZA
Verisign	VerisignC1G2	OU=VeriSign Trust Network,OU=(c) 1998 VeriSign, Inc For
		authorized use only,OU=Class 1 Public Primary Certification Authority - G2,O=VeriSign, Inc.,C=US
Verisign	VerisignC1G3	CN=VeriSign Class 1 Public Primary Certification Authority
		G3,OU=(c) 1999 VeriSign, Inc For authorized use only,OU=VeriSign Trust Network,O=VeriSign, Inc.,C=US
Verisign	VerisignC2G2	OU=VeriSign Trust Network,OU=(c) 1998 VeriSign, Inc For
		authorized use only,OU=Class 2 Public Primary Certification Authority - G2,O=VeriSign, Inc.,C=US
Verisign	VerisignC2G3	CN=VeriSign Class 2 Public Primary Certification Authority
		G3,OU=(c) 1999 VeriSign, Inc For authorized use only,OU=VeriSign Trust Network,O=VeriSign, Inc.,C=US
Verisign	VerisignC3G2	OU=VeriSign Trust Network,OU=(c) 1998 VeriSign, Inc For
		authorized use only,OU=Class 3 Public Primary Certification Authority - G2,O=VeriSign, Inc.,C=US
Verisign	VerisignC3G3	CN=VeriSign Class 3 Public Primary Certification Authority
		G3,OU=(c) 1999 VeriSign, Inc For authorized use only,OU=VeriSign Trust Network,O=VeriSign, Inc.,C=US
Verisign	VeriSignC4G2	OU=VeriSign Trust Network,OU=(c) 1998 VeriSign, Inc For
		authorized use only,OU=Class 4 Public Primary Certification Authority - G2,O=VeriSign, Inc.,C=US

Third Party CA Name	Friendly Name	Trusted CA Root DN
Verisign	VerisignC4G3	CN=VeriSign Class 4 Public Primary Certification Authority -
		G3,OU=(c) 1999 VeriSign, Inc For authorized use only,OU=VeriSign Trust Network,O=VeriSign, Inc.,C=US
Verisign	VeriSignIntlRoot	OU=www.verisign.com/CPS Incorp.by Ref. LIABILITY LTD.(c)97
		VeriSign,OU=VeriSign International Server CA - Class 3,OU=VeriSign, Inc.,O=VeriSign Trust Network
Verisign	VeriSignPubC1	OU=Class 1 Public Primary Certification Authority,O=VeriSign,
		Inc.,C=US
Verisign	VeriSignPubC2	OU=Class 2 Public Primary Certification Authority,O=VeriSign,
		Inc.,C=US
Verisign	VeriSignPubC3	OU=Class 3 Public Primary Certification Authority,O=VeriSign, Inc.,C=US
Verisign	VerisignRSACA	OU=Secure Server Certification Authority,O=RSA Data
		Security,
		Inc.,C=US

Trading Partner Password Authentication Protocol

The Trading Partner client, such as an EBD client or other XPC client using JMS/SonicMQ or HTTPS protocol, sends the authentication data as part of SSL encrypted connection. The authentication data contains three fields that are included in the HTTP/S header or JMS/SonicMQ message header.

The specific authentication fields are described below:

Authentication Data	Description	HTTP/S Header Field	JMS/SSL Header Field
User ID	The registered userid of the sender who is a member of a registered trading partner at MarketSite; this is typically the friendly name or shortname of the Trading Partner.	RFC 2617Standard HTTP Basic Authentication {UserId/ Password}Header Data.	Application-level JMS/SonicMQ header key: "BasicUser"
Password	The password of the member; this is typically the Password of Trading Partner organization since we support only one password per Trading Partner. Note: The minimum character length of a password is 8 characters.	RFC 2617 Standard HTTP Basic Authentication {UserId/ Password}Header data.	Application-level JMS/SonicMQ header key: "BasicPassword
MarketParticipant ID (MPID)	A Globally unique ID of the trading partner organization that is issued at registration time to the Buyer or Supplier trading organization registered at MarketSite. MPIDs are immutable across time and space and are issued to identify a Trading Partner at authentication time. Note: MPID is IETF standard compliant UUIDs that are generated as 16-bytes UUIDs, but stored/transmitted in their 36-character string representation format.	Application-level HTTP header key: "marketparticipantid"	Application-level JMS/SonicMQ header key: "marketparticipanti d"

Firewall and Network Requirements

XPC 4.0 supports two transfer or transport protocols, HTTP/S and JMS-based SonicMQ over Secure Sockets Layer (SSL):

■ Inbound/Outbound HTTPS traffic from the internet is always to/from MarketSite Portal RouterMaximum document size for https is 4 MB. You must have https installed to use it with XPC.

■ Inbound/Outbound JMS/Sonic MQ over SSL traffic is always to/from MarketSite Sonic MQ Broker. Maximum document size for SonicMQ is 10 MB. SonicMQ is automatically installed during XPC installation.

In planning for Local Area Network, note that:

- The XPC server and its SonicMQ Broker must be installed on the same NT machine in an internal protected network, that is, behind the firewall.
- In addition to having the XPC Server in a protected network, Commerce One strongly recommends that passwords stored in application property files and the SoniCMQ Broker be protected by encryption.
- Proper Microsoft NT Lock Down procedures are strongly recommended. Refer to Microsoft Secure NT documentation in http://www.microsoft.com/ntserver/security/exec/overview/Secure_NTInstall.asp.

All Secure Sockets Layer (SSL) traffic initiated by the XPC Server application, whether SonicMQ or HTTPS, uses port 433. Configure:

- SSL Proxy properties for XPC HTTPS client in Transmitter client.prop file in <install:root>/etc/config.
- XPC SonicMQ Clients in SonicMQ broker.ini property file

If you are using the Proxy option, the firewall requirements are as follows.

For the Forward Proxy option, XPC applications can optionally connect to MarketSite through a local forward (SSL) proxy over both HTTPS and SonicMQ/SSL Transport.Commerce One supports both standard HTTPS and SSL Proxies. It is recommended that the Proxy Server address can be resolved by the local DNS available to the XPC application. If local DNS cannot resolve the proxy address, then configure the explicit IP address of the proxy Server in the XPC application, in the client.prop file or broker.ini file.

For complete information on Reverse Proxy, see Appendix C, Reverse Proxy Support on page C-1.

For the Reverse Proxy option, XPC 4.0 Server has been tested with Netscape Reverse Proxy Server, which supports standard SSL v3 and HTTP 1.1 Protocol, but only for XPC HTTPS Server applications. Commerce One recommends that:

 Inbound, internet connections over HTTPS from MarketSite are processed by the Netscape Reverse Proxy Server. Configure the Reverse Proxy Server to require SSL client certificate-based authentication of MarketSite connections. ■ To forward the MarketSite HTTPS message to the XPC Server target "/xcc" Servlet, configure the XPC Server to support authentication of incoming clients and the Reverse Proxy Server to make connections to its internal XPC Server using a Reverse Proxy SSL Certificate. Or, optionally allow anonymous HTTPS connections.

Using Forward and Reverse Proxy

Outbound (forward) http and https traffic headed to MarketSite can be routed through a proxy server located in the demilitarized zone (DMZ). Outbound communications through a proxy server provides support for any http/https based proxy server that follows the standard HTTP1.1 proxy connection protocol.

Similarly, inbound connection to MarketSite through a reverse proxy in the DMZ is supported. For complete information on Reverse Proxy, see Appendix C, Reverse Proxy Support on page C-1.

You enter the Proxy Host and Proxy Port settings on the Setup UI. The settings can be changed anytime after initial installation.

Whether you are using a standalone transmitter or the Transmitter Service, you enter the following settings into the client.prop or default.prop file for either the proxyHost or the https.proxyHost as follows:

Parameter	Description	
proxyHost	Name of ProxyServer in HTTP mode	
proxyPort	Port of ProxyServer in HTTP mode	
https.proxyHost	Name of ProxyServer in HTTPS mode	
https.proxyPort	Port of ProxyServer in HTTPS mode	

Here are example lines that enable the Proxy Server:

```
# Settings for Proxy Server
proxySet=true
proxyHost=<IP or DNS name of your proxy server>
proxyPort=<port number for HTTP connections for your
proxy server>
https.proxyHost=<IP or DNS name of your proxy server>
```

https.proxyPort=<port number for HTTPS connections for
your proxy server>

To disable the Proxy Server, change the first line to:

proxySet=false

Make these settings in any/all of three files:

<install root>/bin/client/prop

<install root>/runtime/daemon/config/service/

DocumentService.TransmitterService.TransmitterService.1_0/default.prop

<install root>/runtime/servers/defaultserver/config/service/

DocumentService.TransmitterService.TransmitterService.1_0/default.prop

C Reverse Proxy Support

In This Appendix

This appendix describes the communication between a MarketSite Portal Router and a Trading Partner XPC using a Netscape Reverse Proxy Server. This configuration uses the Verisign Global certificate authority (CA) for the Secure Socket Layer (SSL) and client authentication requests. For MarketSite 4.1, this is the supported mechanism for reverse proxy server support; Netscape Proxy Server 3.52 is the only officially supported proxy server.

This appendix describes this officially supported topology for reverse proxy servers, offers reasons why this topology is supported and lists the steps necessary to achieve it.

Detailed instructions for setting up and configuring the security needed to perform SSL encryption using HTTPS protocol with the Reverse Proxy Server are provided. Configuration error messages and recommended actions to correct those errors are also included.

For the purposes of this document, a security lab environment is used to demonstrate the communication between the two components over a Reverse Proxy Server. The server names are for illustration purposes only.

Note This document will not describe how to configure a MarketSite Portal Router or a Trading Partner XPC. To configure those components, consult the MarketSite and the XPC installation and administration guides.

The following table offers an overview of the tasks needed to correctly configure the Netscape Reverse Proxy Server to work with the MarketSite Portal Router and Trading Partner XPC servers. Each of these tasks are discussed step by step in this document.

~	Task	Description
	1	Setup Netscape Reverse Proxy Server
	2	Configure Netscape Reverse Proxy Server
	3	Enable SSL Encryption on the Proxy Server, ensuring that the entire CA certificate chain is installed.
	4	Install Server Certificate on the Trading Partner XPC Server
	5	Test Reverse Proxy Server
	6	Enable Client Authentication

Systems Overview

The figure below shows the networking topology between the MarketSite Portal Router 4.1, Trading Partner XPC 4.1, and Netscape Reverse Proxy Server systems hardware and software:

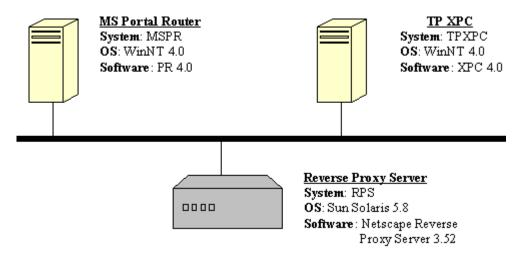


Figure 1 Network Topology

Understanding the SSL handshake

Following are the general steps of SSL communication:

- 1. The client sends a request to connect to a secure server (https).
- **2.** The server sends its own pre-signed certificate to the client.
- **3.** The client determines if the certificate was issued by a CA it trusts. If not, the client cancels the connection. Otherwise, it proceeds to the next step.
- **4.** The client compares the information in the certificate with the information it received from the server (i.e. domain name, public key). If the information matches, the client accepts the site as authenticated.
- The client then tells the server what ciphers or type of encryption keys it can communicate with.
- **6.** The server chooses the strongest common cipher and informs the client.
- 7. Using that cipher, the client generates a session key and encrypts it using the server's public key.
- **8.** The client sends the encrypted session key to the server.
- **9.** The server receives the encrypted session key and decrypts it using its private key.
- 10. The client and the server use the session key to encrypt and decrypt the data they send to each other.

Relationship of the Reverse Proxy Server and a MarketSite Portal Router and Trading Partner XPC

The communication between the MarketSite Portal Router and the Proxy Server is HTTPS and the communication between the Proxy Server and the Trading Partner XPC server is HTTPS.

In this example, the Trading Partner XPC client in the Portal initiates the connection request to the reverse proxy server. Upon receiving the request, the Proxy server acts as a client and sends the request to the Trading Partner XPC server. Therefore, a trust server certificate must be installed on both the Proxy Server and the Trading Partner XPC server.

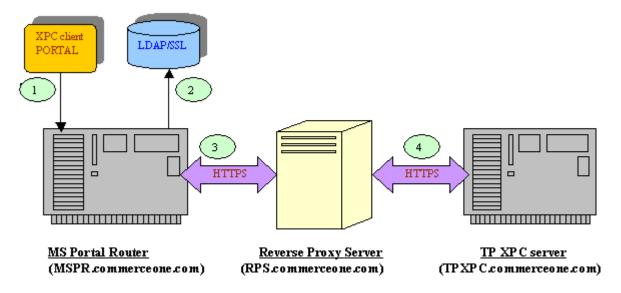


Figure 2 Connectivity and protocol

The following steps occur:

- the Trading Partner XPC client sends a request to the Trading Partner XPC server.
- The MarketSite Portal Router searches in the LDAP to find the destination address. The destination Trading Partner URL should be set to the proxy server address.
- **3.** The MarketSite Portal Router finds the Proxy Server and sends the request.
- 4. The Proxy Server uses the regular mapping address and sends the client's request through a specified passage to the Trading Partner XPC server. The Trading Partner XPC server passes the result through the passage back to the Proxy Server. The Proxy Server then sends the retrieved information to the Trading Partner XPC client.

Netscape Reverse Proxy Server Setup

The reverse proxy setup requires both regular mappings and reverse mappings. Regular mappings re-map the requested URL to the actual origin server. Reverse mappings re-map the location header coming back from the destination server to the proxy server. For example, if the client requests a document that has been moved or

does not exist, the web content server will return an error message to the client. In that returned message, the web content server adds an HTTP header that lists a URL where the moved file is located. In order to maintain the privacy of the internal web content server, the proxy can redirect the URL using a reverse mapping.

As illustrated in Figure 2, the Proxy Server needs to know the location of the destination server. In this example, the Trading Partner XPC Server listening at port 4433 on the TPXPC machine is the destination. Therefore, the table below shows the regular mappings and the reverse mappings.

	Regular Mapping	Reverse Mapping
Source Prefix	https://RPS.commerceone.com:8090	https://TPXPC.commerceone.com:4433/xcc
Source Destination	https://TPXPC.commerceone.com:4433/xcc	https://RPS.commerceone.com:8090

Additional default regular mapping created automatically by the Proxy Server is shown in the table below.

	Regular Mapping	
Source Prefix	1	
Source Destination	https://TPXPC.commerceone.com:4433/xcc	

To configure a Netscape Reverse Proxy server, complete the following steps:

- 1. Run Server Manager.
- 2. Select the URL tab.
- 3. Click Create Mappings on the left hand bar.
- **4.** On the URL mappings screen, click **Regular** for regular mappings and **Reverse** for reverse mappings.

The figure below shows the Reverse Proxy and Trading Partner XPC server configuration.

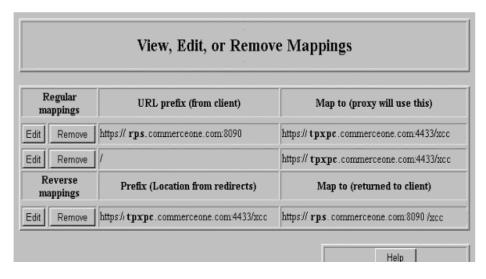


Figure 3 Reverse Proxy & Trading Partner XPC server configuration

Install Server Certificates

As discussed earlier, the connection between the Portal Router and the Proxy Server is HTTPS; the Portal Router machine is the SSL client and the Proxy Server is the SSL server. Therefore, a server digital certificate needs to be installed on the Proxy Server.

The same HTTPS protocol applies for the connection between the Proxy Server (SSL client) and the Trading Partner XPC (SSL server), so a server digital certificate needs to be installed on the Trading Partner XPC server as well.

Enabling SSL encryption on the Proxy Server

To enable SSL on the Proxy Server, the following steps must be completed. Each step is described in detail.

- 1. Generate server key-pair file (public and private keys).
- **2.** Generate a certificate request (PKCS #10).
- **3.** Request a certificate from a Certificate Authority (CA).
- **4.** Install the certificate received from the CA.
- 5. Install the certificate chain.

6. Enable SSL encryption.

Step 1: Generate server key-pair file

To generate the server key-pair file, run the **sec-key** tool from a Sun window. Assume the server root directory is /usr/netscape/suitespot

From the Unix command line type the following:

/usr/netscape/suitespot/bin/admin/admin/bin/sec-key

When prompted, type an alias name for the new key-pair file. The default key file will be stored under directory /usr/netscape/suitespot/alias/<alias name>-key.db

When prompted, type any random keys at different speeds until the meter is full. The time between each of your keystrokes will be used to generate a random number for the unique key-pair file.

When prompted, type a password and confirm. Make sure you memorize this password, as it is used to open the key-pair file during the secure proxy server start up.

Step 2: Generate a certificate request

After a key-pair file is created, you can generate a certificate request from the **Server Manager** form. Go to:

Server Manager | Keys and Certificates | Request Certificate.

Provide all necessary information about the system and make sure the **Alias** field contains the alias name created in Step 1. When you are finished, a base64 certificate request format is generated and saved in a local directory. The certificate request looks similar to the following:

-----BEGIN NEW CERTIFICATE REQUEST-----

MIIB6TCCAVICAQAwgaoxIDAeBgNVBAMTF2R0cnVvbmcuY29tbWVyY2VvbmUuY29tMarketSiteswKQYJKoZlhvcNAQkBFhxkYXZpZC50cnVvbmdAY29tbWVyY2VvbmUuY29tMRQw45u+yERF+yEUuRAVpaF2MlG3bVikU4+c9+6YPkAuoQbyaXZ0YToMk0j1AEV33EhG5FniLi2VW/

U91reH1lstuGSHROtlYGlxGWnLVidLwL93/ ol24ocR7CUZW5hOgbqZFDf+4Moqm1SXOM7H7w==

----END NEW CERTIFICATE REQUEST----

Step 3: Request a certificate from a CA

Each Certificate Authority (CA) will have its own method of fulfilling certificate requests. The example discussed in this document uses Verisign CA. Verisign provides a certificate request wizard interface to help the user generate a signed certificate. The certificate request wizard requires that the user cut and paste the entire contents of the certificate request file created in Step 2 into the **Enter CSR Information** text box. That information is then sent to the CA. The certificate signed by the CA will be sent to user through email.

Step 4: Install server certificate from CA

After you receive the CA certificate, go to:

Server Manager | Keys and Certificates | Install Certificate.

In the install certificate screen, click **This Server**, click **Message Text**, and paste the certificate to the message text area. Make sure the alias name matches the certificate request alias name.

Note If the certificate is in PEM format, you can use an Internet Explorer browser to convert to Base64 format. To convert to Base64 format, import the PEM certificate to the Internet Explorer browser, then export it in Base64 format.

Step 5: Install certificate chain

In order for the SSL handshake to work properly with the MarketSite Portal Router, the proxy server must install a full certificate chain. For example, on RPS proxy server machine, the table below shows the installed certificates.

	Subject DN Name	Issuer DN Name
(1) Server Certificate	CN=RPS.commerceone.com OU=VeriSign International Server CA - Class 3 O=VeriSign Trust Network	OU=www.verisign.com/CPS Incorp.by.Ref.LIABILITY LTD.(c)97 VeriSign OU=VeriSign International Server CA - Class 3 OU=VeriSign, Inc. O=VeriSign Trust Network
(2) Intermediate Certificate	OU=www.verisign.com/CPS Incorp.by.Ref.LIABILITY LTD.(c)97 VeriSign OU=VeriSign International Server CA - Class 3 OU=VeriSign, Inc. O=VeriSign Trust Network	OU=Class 3 Public Primary Certification Authority O=VeriSign, Inc. C=US
(3) Root Certificate	OU=Class 3 Public Primary Certification Authority O=VeriSign, Inc. C=US	OU=Class 3 Public Primary Certification Authority O=VeriSign, Inc. C=US

During the installation of certificates on the Proxy Server, please note that:

- Click **This Server** button for the server certificate labeled (1) above.
- Click **Server Certificate Chain** for the intermediate certificate labeled (2) above.
- Click **Trusted Certificate Authority** (CA) for the root certificate labeled (3) above.

If the proxy server does not have either the intermediate or root certificate installed, during an SSL handshake the MarketSite Portal Router will generate an error exception "Peer certificate chain is not verifiable" and terminate the connection.

Warning! There is currently a limitation in the HTTPS client certificate processing logic in a MarketSite Portal Router. The SSL client code expects an SSL server to always send a complete certificate chain as part of the SSL handshake. However, some proxy servers only send the single server certificate. Since the SSL current code can not process this correctly, the handshake will fail. On a Netscape Proxy Server, this will not be an issue if the entire certificate chain is installed on the proxy server.

Enable SSL encryption

After the server certificate is installed, go to the **Server Manager** form and select the Reverse Proxy Server where you want to enable SSL. Click **Encryption On/Off** in the left hand panel. In the **Encryption on/off** screen, click on and make sure the port number and alias name are correct.

Note The reverse proxy server needs to be restarted to take in the new value. During server start up, it will ask for the password to open the key-pair file. Without the password, the server won't start.

Installing server certificate on the Trading Partner XPC Server

To install the server certificate on the Trading Partner XPC server, perform the following steps, each of which is discussed individually:

- 1. Generate a certificate request (PKCS #10)
- 2. Request a certificate from a Certificate Authority (CA)
- 3. Install the certificate that the CA returns

Step 1: Generate a certificate request

Generating a certificate request for the Trading Partner XPC server requires that you run the Certificate Manager tool from the Setup UI application. Please refer to XPC security documentation on how to create a certificate request.

Step 2: Request a certificate from a Certificate Authority (CA)

Each Certificate Authority (CA) will have its own method of fulfilling certificate requests. The example discussed in this document uses Verisign CA. Verisign provides a certificate request wizard interface to help the user generate a signed certificate. The certificate request wizard requires that the user cut and paste the entire contents of the certificate request file created in Step 2 into the **Enter CSR Information** text box. That information is then sent to the CA. The certificate signed by the CA will be sent to user through email.

Step 3: Install the certificate that the CA returns

Using the Certificate Manager tool as described in the XPC documentation, you can install the certificate to the server store. Go to the **Configure Server Entries** tab in the Certificate Manager tool, highlight the certificate entry, then click **Set Active**.

Note The Trading Partner XPC server must be restarted in order for it to accept the new value.

Ping Test Reverse Proxy Server

Before we can ping test the reverse proxy server, the Portal Router LDAP (MSPR machine in the example) must be configured to point to the Proxy Server (RPS in the example). To do so, open the LDAP directory service on the Portal Router. Under the **Directory** tab, expand the following directory:

Commerceone/CoreTrading PartnerProfiles/com/commerceone/marketsite/ MarketParticipants/pingtest/incomingtransmission/&/https

In the **Property Editor - https** form, configure the **destinationaddress** to the proxy server host name and port number, for example:

https://RPS.commerceone.com:8090

and make sure the protocol field shows https. The figure below shows this directory service on the Portal Router machine.

Note The Reverse Proxy Server is listening at port 8090.

To run the ping client in the Portal, use the **<XPCRoot>/bin/pingMarketSite** script and make appropriate change for the parameter in the script.

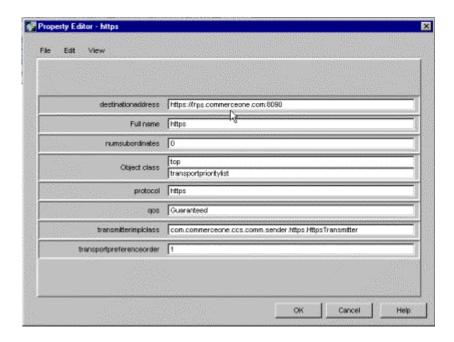


Figure 4 Property Editor on Portal Router

Enable client authentication

In addition to secure communication protocol (SSL), the Proxy Server can have client authentication enabled to verify the MarketSite Portal Router identity. The Trading Partner XPC server can have client authentication enabled to verify the Proxy Server identity.

Understanding client authentication handshake

Following are the general steps of client authentication:

- **1.** A client requests a connection to the server (Proxy Server)
- **2.** The server sends back the certificate request.
- **3.** The client signs but does not encrypt its certificate and sends it over to the server.
- **4.** The server uses the client's public key included in the certificate file to verify that the owner of the certificate is the same one who signed it (verify signature).

5. The server then tries to match the CA to a trusted CA. If the client's CA is not listed as a trusted CA, the server will terminate the transaction. Otherwise, the server will fulfill the transaction.

Enable Proxy Server client authentication

Before you enable proxy server client authentication, make sure the client's CA (MSPR) certificate is installed on the proxy server (RPS) as a Trusted Client CA. Please refer to the information provided earlier in this document on how to install a certificate as Trusted Client CA.

After the trusted client CA certificate installed, client authentication can be turned on using the Server Manager. Go to the **Server Manager** form and select the Reverse Proxy Server where you wish to enable client authentication. Click **Encryption Preferences** from the left hand panel then click **Yes** for **Require Client Certificates**.

Note The Proxy Server must be restarted to take the new value.

Enable Trading Partner XPC client authentication

To enable Trading Partner XPC client authentication, make sure the client's SSL (RPS) certificate is installed on the Trading Partner XPC server store (TPXPC). To turn on client authentication, under Certificate Manager tool, click Configure Trusted Client tab then click Enable Client Authentication.

Note The Trading Partner XPC server needs to be restarted to take the new value.

Error messages

The following table contains error messages that could be encountered during reverse proxy set up, and possible reasons for those errors:

Error Messages	Reasons
Peer certificate chain is not verifiable appears in the log on MarketSite Portal Router.	Server doesn't have full certificate chain installed
Exception: Error while silently connecting: Alert Fatal: bad certificate appears in the log on MarketSite Portal Router	Client authenticate enable/ Server has not trusted client's certificate. Client certificate chain needs to install on the server trust folder.

Error Messages	Reasons
The security library has experienced a database error. You probably will not be able to connect to this site securely appears in the Proxy Server error log.	Client's CA trusted certificate installed on the server is expired. Note: Most embedded CA certificates installed on the proxy server 3.52 are expired. You need to renew the certificate.
Proxy server is unable to locate the server Hostname>. The server does not have a DNS entry. Check the server name in the Location URL and try again appears in the Proxy Server error log.	Wrong spelling of the server name.
Proxy server's network connection was refused by the server: TPXPC.commerceone.com:4433. The server may not be accepting connections or may be busy. Try connecting again later appears in the Proxy Server error log.	Regular and reverse mappings are set incorrectly.
Proxy retrieve failed: The certificate issuer for this server is not recognized by Netscape. The security certificate may or may not be valid. Netscape refuses to connect to this server appears in the Proxy Server error log.	The wrong CA certificate is installed on the server. There is a mismatch of the CA certificate.
Proxy retrieve failed: The server's certificate has an invalid signature. You will not be able to connect to this site securely appears in the Proxy Server error log.	Destination server has the wrong server certificate installed and the Proxy Server doesn't trust that certificate. Replace the certificate on the Trading Partner XPC server with a Verisign Global certificate trusted by the Proxy Server.

D Property Files

This appendix describes how property files are used in XPC 4.1. Only properties related to XPC are listed. It is highly recommended that the properties should not be changed directly. Instead, tools such as **Configure XPC**, **XPC Manager**, or **Certificate Manager** should be used to make any change to the properties.

Note Configure XPC and Certificate Manager are documented in this manual and XPC Manager is documented in the XPC Developer Guide and API Reference.

Key property files are listed in this table. Locations for these property files vary and are listed throughout this appendix. You can edit properties that are highlighted by changing them on the Configure XPC window, as described in Configuring XPC on page 2-8 and Configuring Additional Options on page 4-5.

Property File	Description	
http-runner.prop	Holds some basic information including the http port and the debug level information; also indicates whether the server is run securely.	
https-server.prop	Holds the https port and security information.	
security.prop	Security information needed by the server.	
server-start.prop	Information used by the server at startup time.	
service-start.prop	Information on each of the services to be run on this server.	

Property File	Description	
default.prop	Each service has its own property file, usually named default.prop.	
client.prop	Client property file for the client software, usually named client.prop.	

Server Configuration Files

The initial XPC server configuration is done when you install XPC. After you install, use tools such as **Configure XPC**, **XPC Manager**, and **Certificate Manager**. The properties in the server files set up the port numbers and file locations, specify services to run, and give code locations.

Property files are located in the runtime directory installation for each server and the daemon server as shown:

```
<install:root>\runtime\daemon\config\startup
<install:root>\runtime\servers\<ServerName>\config\startup
```

where:

```
<install:root> refers to the XPC root, which is
c:\commerceone\ by default.
<ServerName> refers to the XPC server, which is
defaultserver by default.
```

http-runner.prop

This is the smallest property file. It holds initial properties such as the unsecure http port and the security switch for the server.

Properties	Value	Description
org.w3c.jigsaw.port	Any available port Default is 8008	Port opened for the http connection, even if the server is run securely. So the port should haven't been used. Do not change this property.

ccs.server.security	true/false Default is true	If set to true, the server will also read https- server.prop and security.prop, start an https connection, for the port specified in the org.w3c.jigsaw.port of https-server.prop file and the server is designated a secure server. Do not change this property.
ccs.server.debug.level	0-6 where: 0=debug, 1=info, 2=warning, 3=error, 4=critical, 5=fatal	This property sets the debugging level for the server. In full production systems, set to a high level to avoid a lot of messages. For debugging a faulty server, particularly during an initial installation, set to a low number. Use Configure XPC to change the value.
ccs.server.xdk.dir	Default is <install:root>\schema</install:root>	This property indicates a local file system for schema resolution and is used if local file based schema resolution is used, which is specified in ccs.server.entitymgr.fs of server-start.prop. Do not change this property.
ccs.server.debug.filename	Default is <install:root>\runtime\servers \<servername>\logs\debug- default</servername></install:root>	This property indicates a local file for debug messages. If not used, messages go to standard out and are displayed on the screen if the server is run in isolation, which is useful for initial debugging of a server. Do not change this property.
ccs.server.debug.file.overwrite	true/false	If set to true, the debug log is overwritten with every start of the system. Defaults to false. Do not change this property.

https-server.prop

This file contains properties for the https connections.

Properties	Value	Description
org.w3c.jigsaw.port	Any available port Default is 4433.	Port opened for the https connection. This is set during the installation. Use Configure XPC to change the value.
org.w3c.jigsaw.client.bufsize	8192	Output buffer size. Do not change this property.
org.w3c.jigsaw.request.timeout	3000000	https server request timeout property. Do not change this property.

iaik.jigsaw.ssl.enabled	true Server running with SSL. Do not change the property.		
iaik.jigsaw.ssl.security.provider	iaik.security.provider.IAIK IAIK is the security provider. Do not change this property.		
iaik.jigsaw.ssl.tempRSAKey	Generate	Part of SSL bootstrapping. Do not change this property.	
iaik.jigsaw.ssl.dhPararmeters	Pre-generated	Part of SSL bootstrapping. Do not change this property.	
iaik.jigsaw.ssl.keystore	Default is serverstore.	Default keystore to use to start the server. Use the Certificate Manager to change the value.	
iaik.jigsaw.ssl.keystore.password		Default password for default keystore; should be encrypted after install. The default password is: <i>admin</i> Clear text should be used only for testing. Can be encrypted 128bit or 56bit. Use the Certificate Manager to change the value.	
iaik.jigsaw.ssl.rsa.keyAndCertificate	Default is Test-ServerCert	Default entry name for keystore needed to connect to the keystore. In the daemon this is rsa-user-daemon. Do not change this property.	
Cipher suites is not being displayed due to length		Do not change this property.	

Below are the authentication flags in the same file, https-server.prop. The values differ between Test and Production modes.

Properties	Value	Description
iaik.jigsaw.ssl.client.authentic ation	true/false	The default for Production mode is trueclient authenticate using certificate or uid/pswd. The default for Test mode is falseclient authenticate using only uid/pswd. You can change the value with Configure XPC by enabling client authentication (Production mode) or disabling client authentication (Test mode).

iaik.jigsaw.ssl.client.requireCe rtificate	true/false Default is false	The default for Production mode is truerequires certificate from client. The default for Test mode is falsedoes not require certificate from client. You can change the value with Configure XPC by enabling client authentication (Production mode) or disabling client authentication (Test mode).
iaik.jigsaw.ssl.client.requireTr ustedRoot	true/false Default is false	For true, check to see if client certificate's root is trusted. For false, the default, do not check to see if client certificate's root is trusted. ??? You can change the value to true in Production mode (optional).

security.prop

This file is for additional security properties, other than the certificates and other jigsaw information in the https-server.prop file.

Properties	Value	Description
jms.client.ssl.enable	true	SonicMQ JMS client SSL connection. Do not change this property.
jms.client.ssl.provider.class	Progress.message.net.ssl.iaik.iaikS SLImpl	IAIK is the security provider. Do not change this property.
jms.client.ssl.cipher.suites	Not listed	Define all cipher suites used by sonic ssl. Do not change this property.
jms.client.ssl.client.requireTru stedRoot	false	Use trust root certificates to verify server certificates. Do not change this property.
jms.client.ssl.client.trustedRo ot.dir	<cadir></cadir>	Directory to store trusted root certificates. Do not change this property.

The values differ between Test and Production modes as enforced by the Certificate Manager.

Properties	Value	Description
------------	-------	-------------

security.httpsServerTrusted Root.required	true/false Default is false	For true, check whether server root certificate is trusted. For false, the default, do not check whether server root certificates is trusted.
security.anonymousclient s.allowed	true/false Default is true	The default for Test mode is trueallow anonymous clients. The default for Production mode is false, do not allow anonymous clients. You can change the value with Certificate Manager by enabling client authentication (Production mode) or disabling client authentication (Test mode).
security.clientauth.disabl e	true/false	The default for Test mode is truedisable client authentication. The default value for Production mode is falseenable client authentication. You can change the value in Certificate Manager by enabling client authentication (Production mode) or disabling client authentication (Test mode).

server-start.prop

This property file contains startup information for the server itself.

Properties	Value	Description
serverstartup.logfile.dir	Default is \logs, the directory of <install:root>\runtime\servers\<ser verName>\ogs</ser </install:root>	Directory from the servers runtime root directory for startup log information. The root directory is <install:root>\runtime\servers\<servername>. Do not change this property.</servername></install:root>
serverstartup.logfile.allevents	Default is systemStartupLog, which is <install:root>\runtime\servers\<ser vername="">\logs\systemStartupLog</ser></install:root>	Event subscription to all events go in this file under the serverstartup.logfile.dir. Do not change this property.

serverstartup.default.lang	en Default is en	The default language for the server. The default is English. Do not change this property.
serverstartup.default.eventcata log.dir	Default is \eventcatalog, the directory of <install:root>\runtime\servers\<ser vername="">\eventcatalog</ser></install:root>	Directory from the server runtime root directory for the event catalog. The root directory is <install:root>\runtime\servers\<servername>. Do not change this property.</servername></install:root>
ccs.server.entitymgr.fs	true/false Default is <i>true</i> for file system resolution.	A boolean flag for using the Filesystem for Schema resolution or not. Do not change this property.
ccs.server.entitymgr.ldap	true/false Default is false.	A boolean flag for using the ldap for Schema resolution or not. Do not change this property.
ccs.server.router.impl.code	Default is com.commerceone.ccs.kernel.route r.ServiceRouter	Routing component. Do not change this property.
ccs.server.router.impl.args	Default is initialThreads=1,maximumThreads =9,queueCode=com.commerceone .ccs.kernel.sonicmq.SonicThreade dEnvelopeQueue,queueType=sonic ,queueOwner=router	These are the arguments of the Document Router code. Valid arguments include: queueOwner=router queueName = <some name=""> queueType=sonic queueCode= com.commerceone.ccs.kernel.sonicmq.SonicThr eadedEnvelopeQueue for sonic queueType Do not change this property.</some>
ccs.server.sonicmq.enabled	true/false Default is true.	For true, indicates server is using Sonic queues as the transport and internal queuing mechanism. Do not change this property.
ccs.server.sonicmq.syncrespo nsequeue.name	Default is XPC_ <servername>_SyncRespons e</servername>	Name of the response queue needed for synchronous messages. This needs to be set if ccs.server.sonicmq.enabled is true. Do not change this property.

service-start.prop

There are two sections to this file:

- Top section lists services to be run on the server.
- Bottom section contains a listing for each service of the class name to be instantiated to create this service, and the configuration to be passed into the service.

Service startup list section

The following are the properties of the service start section.

Properties	Value	Description
startup.base.services	Default is ConfigurationService,AdminService,Asyn cTransmitterService,SyncTransmitterServi ce	Base services. Do not change this property.
startup.comm.services	Default is CommServletService,SonicCommService	Communication services. Use Configure XPC to modify.
startup.aux.services	Default is EventManager,LogService,MessageStoreS ervice,XCBLTransformService	Auxiliary services. Do not change this property.
startup.application.services	Default is PingService	Application services. Use XPC Manager to define additional document and timed services.

Services are categorized and are started in this order of the categories:

- **1.** Base services
- 2. Auxiliary (aux) services
- 3. Application services
- 4. Communication (comm) services.

This prevents documents from being received at a server before all services are up and available to receive them. Most business services run as application services. A service will not be started on a server, unless it is named in the lists of services to be started.

Service definition section

The **Service definition** section includes entries for all of the services named in the start section. For each service a code property is specified to tell the server what class implements the service. The name used as part of the property key is the same name used in the service startup list. A line specifying the arguments to be passed to the service can be added. For most services that use queues to receive documents, this requires a specification of the queue code to be used.

It is possible to specify service definitions even if the services are not listed in the startup section. If the service is not listed in the startup section, the entries are ignored. For XPC document and timed services, the Args are defined by the XPC Manager.

The first entries here specify the code for the CommServletService and the code for the SonicCommService. In addition, the argument queueName, and number of threads are listed for the SonicCommService, which tells the SonicCommService to use a Sonic queue for its input queue.

Properties	Value	Description
service.CommServletService.code	Default is com.commerceone.ccs.comm.receiver.servlet .CommServletService	Class used to create the CommServletService. Do not change this property.
service.SonicCommService.code	Default is com.commerceone.ccs.comm.receiver.sonic. SonicCommService	Class used to create the SonicCommService. Do not change this property.
service.SonicCommService.args	Default is initialThreads=4,maximumThreads=9,queue Name=XPC_ <sonicnodename>_ConnectorIn bound</sonicnodename>	Arguments for SonicCommService. Can be odified by Configure XPC to match the sonic inbound queue name specified.
service.LostAndFoundService.code	Default is com.commerceone.ccs.service.LostAndFoun dService	Code for LostAndFoundService. Do not change this property.

service.LostAndFoundService.arg	Default is LostAndFound message could also	Valid arguments for
service.LostAndroundservice.arg	go to dead message queue with the args of store=file, initial Threads=4, maximumThreads=9,queueCode=com.comm erceone.ccs.kernel.sonicmq.SonicThreadedE nvelopeQueue.queueType=sonic,queueOwne r=service.queueName=SonicMQ,deadMessa ge, readonly=false	LostAndFound Service include: store=file queueOwner=service OR router, queueName= <some name="">, required only if queueType=sonic queueType=memory OR sonic queueCode=com.commerceone.c cs.kernel.sonicmq.SonicThreade dEnvelopeQueue if queueType=sonic queueCode=com.commerceone.c cs.kernel.queue.ThreadedEnvelo peQueue if queueType=memory The service writer can add</some>
		additional arguments. Do not change this property.
service.ConfigurationService.code	Default is com.commerceone.ccs.service.config.Config urationManager	Code for Configuration Service. Do not change this property.
service.ConfigurationService.args	Default is initialThreads=0,maximumThreads=1,queue Code=com.commerceone.ccs.kernel.queue.T hreadedEnvelopeQueue,queueType=memory, queueOwner=service	Valid arguments for Configuration Service include: queueOwner= service OR router queueName = <some name="">, required only if queueType=sonic queueType= memory OR sonic Do not change this property.</some>
service.AdminService.code	Default is com.commerceone.ccs.service.admin.Admin Service	Code for AdminService. Do not change this property.
service.AdminService.args	Default is initialThreads=0,maximumThreads=1,queue Code=com.commerceone.ccs.kernel.queue.T hreadedEnvelopeQueue,queueType=memory, queueOwner=service	Valid arguments for AdminService include: queueOwner= service OR router queueName = <some name="">, required only if queueType=sonic queueType= memory OR sonic Do not change this property.</some>

service.EventManager.code	Default is com.commerceone.ccs.service.event.EventM anager	Code for EventManager. Do not change this property.
service.LogService.code	Default is com.commerceone.ccs.service.log.LogServic e	Code for LogService. Do not change this property.
service.XCBLTransformService.co de	Default is com.commerceone.versiongateway.service.X CBLTransformService	Code for XCBLTransformService. Do not change this property.

Service Property Files

Service default.prop configuration files are located in a directory for each service to run on the server. The directory name is created from the type of service, the name of the service, and the name of the class as in this example:

<install:root>\runtime\servers\<ServerName>\config\servic
es\AuxiliaryService.MessageStoreService.MessageStoreServi
ce.1_0 \default.prop

LostAndFound default.prop File

The following property is set in the default.prop file of LostAndFound to define the location for messages going to LostAndFound.

Properties	Value	Description
ccs.archive.filestore.loc	Default is <install:root>\errormessagestore</install:root>	Needed for file-based storage. Do not change this property.

Log Service default.prop File

The following properties are set in the default.prop file of the LogService. This service subscribes to all events, writing them out to a server.

Properties	Value	Description
event.logfile.dir	Default is <install:root>\runtime\servers\<serv ername="">\logs</serv></install:root>	Directory where the event logs are stored.

event.logfile.allevents	Default is eventlog which is <install:root>\runtime\servers\<serv erName>\logs\eventlog</serv </install:root>	Send all events to the event.logfile.dir directory with the given name, including ccs events. Each log file name is appended with the timestamp for when the log started. Do not change this property.
event.logfile.ccsevents	Default is ccslog which is <install:root>\runtime\servers\<serv erName>\logs\ccslog</serv </install:root>	Send only the ccs events to the given filename with timestamp appended. Do not change this property.

AsyncTransmitter and SyncTransmitter Service default.prop file

The default.prop file contains information on how the server identifies itself when making a connection, and the location of destinations it is trying to reach. The Transmitter services use this authentication information while making connections to other locations.

Properties	Value	Description
marketparticipantid	Example: 55d8d1d6-77b1-1000-87d6-0a0000200001	MPID is obtained through MSB registration or MPID for test. Use Configure XPC to change this property, which is called TPID in Configure XPC.
authpref	uidpswd	Authentication preference for http/https. When Trading Partner connects to Portal Router, uidpswd (with user level userid/ password authentication) is used. Do not change this property.
userid		ID used by the service when making the connection. Use Configure XPC to edit this property, which is called System Account ID in Configure XPC.
password		Encrypted (for production) or clear text (for test only) password used for authentication. Use Configure XPC to change the password, named System password in Configure XPC.

sonicmq.authpref uidpswd	Authentication preference for the sonic connection. When Trading Partner connects to Portal Router, uidpswd (with user level authentication of userid/password) is used. Do not change this property.
--------------------------	---

The following properties are the source of transmission information.

Properties	Value	Description
ccs.comm.tx.fs	true	Always true; the file system is used for transmission information. Do not change this property.
ccs.comm.tx.ldap	false	Always false. The ldap is not used for transmission information. Do not change this property.

To send a document, the following transmission properties must be available.

Properties	Value	Description
ccs.comm.transmitter.destination .name	Example: 55d8d1d6-77b1-1000-87d6-0a0000200001,+	List of destination MPID separated by comma (,). Do not change this property.
+.+	Example: Ping	List of doc type separated by comma (,). Do not change this property.
+.+.docformat	xml	List of doc format separated by comma (,). Do not change this property.
+.+.protocols	http or/and ,https or/and ,sonic	List of protocols separated by comma (,). Do not change this property.

+.+.protocol.http.args	Example: preference=3,destinationaddress=http:// localhost:8080/ xcc,qos=guaranteed,code=com.commer ceone.ccs.comm.sender.http.HttpTrans mitter	Arguments for http: Valid arguments include: preference= 1 OR 2 OR 3 with 1 highest preference destinationaddress=http(s) URL or global queue qos=guaranteed code= com.commerceone.ccs.comm.sender.http. HttpTransmitter Do not change this property.
+.+.protocol.https.args	Example: preference=2,destinationaddress=https: //localhost:4433/ xcc,qos=guaranteed,code=com.commer ceone.ccs.comm.sender.https.HttpsTran smitter	Arguments for https: Valid arguments include: preference= 1 OR 2 OR 3 with 1 highest preference destinationaddress=http(s)URL or global queue qos=guaranteed code= com.commerceone.ccs.comm.sender.http s.HttpsTransmitter Do not change this property.
+.+.protocol.sonic.args	Example: preference=1,destinationaddress=Portal Inbound	Arguments for sonic Valid arguments include: preference= 1 OR 2 OR 3 with 1 the most preferred choice destinationaddress= <nodename>::<que uename=""> Do not change this property.</que></nodename>

client.prop Property File

This property file is in the directory where the client application is started, or where it is specified when a TransmitterFactory object is instantiated. There are two client.prop files that are configured by changes to Configure XPC.

<install:root>\bin contains an Outbound client.prop. This client.prop picks up the MarketSite connectivity configuration in Configure XPC. PingMarketSite and DocSender use this client.prop.

<install:root>\etc\config contains a client.prop that is pointed Inbound. It picks up the
local configurations in Configure XPC. The XPC Invoker uses this client.prop.

Most properties in this file are set during the installation of the server and many of them are duplicates of properties that are listed in the server property files.

Properties	Value	Description
ccs.comm.em.fs	true	Always true; the filesystem is used for schema resolution. Do not change this property.
ccs.comm.em.fs.path	<install:root>\schema</install:root>	If the above is set to true, this is the path where the schema documents are located. Do not change this property.
ccs.comm.em.ldap	false	Always false; the ldap is not used schema resolution. Do not change this property.

Client code can use events. The following parameters direct the event handling.

Properties	Value	Description
ccs.comm.event.language	en Default is en	Language to be used. Default is English. Do not change this property.
ccs.comm.event.catalogloaddir	Default is <install:root>\runtime\servers\< ServerName>\eventcatalog\</install:root>	Location of the event catalogs (a local directory). Do not change this property.
ccs.comm.event.outputfile	Default is <install:root>\runtime\servers\< ServerName>\logs\clienteventlo g</install:root>	Location of the file where events from the client are placed. Do not change this property.

The following specify the source of transmitter properties.

Properties	Value	Description
ccs.comm.tx.fs	true	Always true; the filesystem is used for transmission information. Do not change this property.
ccs.comm.tx.ldap	false	Always false; the ldap is not used for transmission information. Do not change this property.

The following specify the cache information for transmitter:

Properties	Value	Description
ccs.comm.transmitter.cache	true/false	Use cache or not for transmitter including http(s), sonic. Do not change this property.
ccs.comm.transmitter.cache.refresh	Example: 100	Time in second to cache the transmitter information. Do not change this property.

To send a document, the following transmission properties must be available.

Properties	Value	Description
ccs.comm.transmitter.destination.name	Example: 55d8d1d6-77b1- 1000-87d6-0a0000200001,+	List of destination MPIDs separated by comma (,). Do not change this property.
+.+	Example: Ping	List of document types separated by comma (,). Do not change this property.
+.+.docformat	xml	Format used by the document, usually xml. Do not change this property.
+.+.protocols	http and/or ,https and/or ,sonic	Protocols for sending the document. Do not change this property.
+.+.protocol.http.args	Example: preference=3,destinationaddr ess=http://localhost:8008/ xcc,qos=guaranteed,code=co m.commerceone.ccs.comm.s ender.http.HttpTransmitter	There should be one of these entries for each protocol type, including a preference count to help direct the transmitter to using the preferred protocol. Do not change this property.
+.+.protocol.https.args	Example: preference=1,destinationaddr ess=https://localhost:443/ xcc,qos=guaranteed,code=co m.commerceone.ccs.comm.s ender.https.HttpsTransmitter	There should be one of these entries for each protocol type, including a preference count to help direct the transmitter to using the preferred protocol. Do not change this property.

+.+.protocol.sonic.args	Example: preference=2,destinationaddr ess= <nodename>::<queuena me></queuena </nodename>	This is the syntax of the sonic transport. Do not change this property.
-------------------------	---	---

Versioning Properties in client.prop

Key	Value	Description
transformation.registry	Full Path of TransformRegistry.xml file Default is <install:root>/ schema/ TransformRegistry.xml</install:root>	TransformRegistry.xml file has meta data about transformations. Do not change this property.
transformation.internalversion	20 22 30	The xCBL version supported by the client program. All incoming documents are converted to this xCBL version (if transformation exists) before client handles it. Do not change this property.
transformation.externalversion	20 22 30	The lowest xCBL version supported by a Trading Partner your application transacts with. If the value of this key is the same as the value of above, the transformation is disabled. Do not change this property.

Sonic Properties in client.prop

Sonic properties to set up by the Sonic Transport.

Properties	Value	Description
+.+.protocols	sonic	Designates SonicMQ as the available protocol. Use Configure XPC to modify.
+.+.protocol.sonic.args	preference=1,destinationaddres s= <nodename>::<queuename></queuename></nodename>	The destinationaddress is the destination queue name. Use Configure XPC to modify.

Sonic broker connection parameters required.

Properties	Value	Description
sonicmq.broker.url	<ssl>:// <brokermachine>:<broker Port4Client></broker </brokermachine></ssl>	:// <brokermachine>:<brokerport4client> Use Configure XPC to change the broker port.</brokerport4client></brokermachine>
sonicmq.broker.username		User id needed to connect to the broker as a JMS client. Do not change this property.
sonicmq.broker.password		This is the encrypted password for the above user name. Do not change this property.
sonicmq.syncresponsequeue.name		This is the response queue for the client to use to receive responses for synchronous requests sent. Do not change this property.

These close modes are supported for SonicMQ.

Properties	Value	Description
sonicmq.connection.close	idle: <numofseconds>/ always/never Default is idle:30</numofseconds>	The idle mode closes connection idle for specified number of seconds. The idle timeout is in seconds, and should not be set lower than 30. The always mode always closes a connection after document send and reopens it before the next send. The never mode never closes the connection. Do not change this property.

The following specify the sonic authentication preference.

NoteThis also can be set through Properties object instead of in client.prop.

Properties	Value	Description
sonicmq.authpref	uidpswd/none Default is uidpswd.	Authentication preference for the sonic connection. This can be uidpswd (with user level authentication of userid/password) or none. When Trading Partner connects to Portal Router, uidpswd should be used. Do not change this property.

If sonicmq.broker.url (described above) is defined as SSL, then these additional SSL parameters are required.

Properties	Value	Description
jms.client.ssl.enable	true	Enables SonicMQ JMS client SSL connection. Do not change this property.
jms.client.ssl.provider.class	Progress.message.net.ssl.iaik.iaikSSLImpl	Implementation class for the SSL provider. Do not change this property.
jms.client.ssl.cipher.suites	SSL_RSA_WITH_3DES_EDE_CBC_SHA,S SL_RSA_WITH_RC4_MD5,SSL_RSA_WIT H_RC4_SHA,SSL_RSA_WITH_IDEA_CBC _SHA,SSL_RSA_WITH_DES_CBC_SHA,S SL_DH_DSS_WITH_3DES_EDE_CBC_SH A,SSL_DH_DSS_WITH_DES_CBC_SHA,S SL_DH_RSA_WITH_DES_CBC_SHA,S SL_DH_RSA_WITH_3DES_EDE_CBC_SH A,SSL_DHE_DSS_WITH_3DES_EDE_CBC_S HA,SSL_DHE_DSS_WITH_3DES_EDE_CBC_SH A,SSL_DHE_RSA_WITH_3DES_EDE_CBC_SH A,SSL_DHE_RSA_WITH_3DES_EDE_CBC _SHA,SSL_DHE_RSA_WITH_DES_CBC_S HA,SSL_DHE_RSA_WITH_DES_CBC_S HA,SSL_DHE_RSA_WITH_DES_CBC_S HA,SSL_DHE_DSS_EXPORT1024_ WITH_DES_CBC_SHA,SSL_RSA_EXPOR T1024_WITH_RC4_56_SHA,SSL_DHE_DS S_EXPORT1024_WITH_RC4_56_SHA,SSLRSA_EXPORT_WITH_RC4_40_MD5,SSL _RSA_EXPORT_WITH_RC4_40_MD5,SSL _RSA_EXPORT_WITH_DES40_CBC _SHA,SSL_DH_DSS_EXPORT_WITH_DES40 _CBC_SHA,SSL_DH_RSA_EXPORT_WI TH_DES40_CBC_SHA,SSL_DHE_DSS_EX PORT_WITH_DES40_CBC_SHA,SSL_DHE _RSA_EXPORT_WITH_DES40_CBC_SHA	Cipher suites Do not change this property.

jms.client.ssl.client.requireTrus tedRoot	true/false	Use trust root certs to verify server certs. If false, the client is not required to have the trusted root of the server's certificate. Otherwise, the client needs to have the root of the server certificate. Do not change this property.
jms.client.ssl.client.trustedRoot .dir	Example: <install:root>\certs\ca</install:root>	Directory to store trusted root certificates, required only if jms.client.ssl.client.requireTrustedR oot is true. Do not change this property.

The following properties are set at the bottom of the **Configure XPC** user interface. When XPC makes outbound connection to MarketSite, the document could be routed through a proxy server located in the DMZ (demilitarized zone).

Outbound communications through a proxy server provide support for any http/https based proxy server that follows the standard HTTP 1.1. Use Configure XPC to edit.

Properties	Value	Description
proxySet	true/false Default is false	If true, outbound connection are routed to proxy server. If false, outbound connection is not routed to proxy server. If false, the following four properties keys are ignored. Use Configure XPC to modify.
proxyHost	<proxymachine></proxymachine>	Host machine where proxy server is installed. This value must be the fully qualified network address of the proxy server host machine. Example: ,proxyHost=sslproxy.mycompany.com This value should be the same as https.proxyHost below. Use Configure XPC to modify.

proxyPort	<proxyport></proxyport>	Http port where proxy server is configured to allow http connection. This value should be the same as https.proxyPort below. Note: This port needs to be configured correctly on proxy server to allow successful outbound connection on that port. See your chosen proxy server's documentation on how to configure ports. Use Configure XPC to modify.
https.proxyHost	<proxymachine></proxymachine>	Host machine where proxy server is installed. This value must be the fully qualified network address of the proxy server host machine. Example: ,https.proxyHost=sslproxy.mycompany.co m This value should be the same as proxyHost above. Use Configure XPC to modify.
https.proxyPort		Https port where proxy server is configured to allow https connection. This value should be the same as proxyPort above. Note: This port needs to be configured correctly on proxy server to allow successful outbound connection on that port. See your chosen proxy server's documentation on how to configure ports. Use Configure XPC to modify.

