

# J-Integra for Exchange Setup Guide

Version 1.1

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## **Document Conventions**

Convention	Description		
Text Matter in font Verdana and font size 9 point.	Explains the installation guide.		
Text matter	Click on link to reach target.		
Ø	Note:		

## **Abbreviations Used**

Abbreviation	Description	
CDO	Collaboration Data Object	



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# **1** ABOUT THIS GUIDE

This document provides an overview of *J-Integra for Exchange* and how it is used as middleware between Adeptia Server and Microsoft Exchange Server.

This document is divided into the following sections:

- Introduction to J-Integra for Exchange
- Installing J-Integra for Exchange
- <u>Configuring Adeptia Server to Use J-Integra for Exchange</u>

# **2** INTRODUCTION TO J-INTEGRA FOR EXCHANGE

J-Integra® for Exchange is a high performance middleware bridge that enables Java Exchange interoperability. Its pure Java implementation of the DCOM wire protocol allows you to access Exchange server objects such as folders, messages, contacts, tasks, and calendar items from any Java Application such as Adeptia Server. Figure 2.1 describes a deployment structure for J-Integra® for Exchange with Adeptia Server.



Figure 2.1: J-Integra for Exchange

As Figure 2.1 indicates, there are 3 major components:

#### **Adeptia Server**

It is machine, where Adeptia Server is installed. To use Adeptia Server with J-Integra for exchange, you need to copy some jar files into /web/libs folder of Adeptia Server installation. These file are located in the lib folder of your J-Integra for Exchange installation.

Files required: cdo.jar, jintegra.jar, jintegra\_reduced\_logging.jar

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#### **Microsoft CDO Host**

The CDO machine is where CDO is installed and hosted. It serves as the intermediary between Adeptia Server and the Exchange Server.

Files required: cdoconfig.exe, dcomconfig.dll, setdllhost.exe,

setdllhostEnglishResourceDII.dll.

These files are all located in the bin folder of your J-Integra for Exchange installation.

#### Exchange Server

The Exchanger Server that Adeptia Server will be accessing. **Files required:** none

It is also possible to access the Exchange Server directly from your Java application without the need of an intermediary CDO machine. Under this scenario, CDO is installed and configured directly in the Exchange Server. This case, however, is less common as most clients face restrictions on doing any installations in the Exchange Server for stability and security reasons.

# **3** INSTALLING J-INTEGRA FOR EXCHANGE

You need to install J-Integra for Exchange on the machine, which you want use as CDO host. This section explains the installation of J-Integra for Exchange and configuration of CDO host. This section covers:

- Pre-Requisites
- Installing J-Integra for Exchange
- Updating License
- Installing CDO
- <u>Configuring CDO Host</u>

## **PRE-REQUISITES**

- You must have administrative rights on the machine, where you are installing J-Integra for Exchange.
- JDK 1.5 must be installed on the machine, where you are installing J-Integra for Exchange.
- *CDO Host, Exchange Server* and *the machine, where Adeptia Server is running* must be into the same domain.



## **INSTALLING J-INTEGRA FOR EXCHANGE**

#### Steps to install J-Integra for Exchange

1. Double-click the file **jintegraexchange**<**Ver>.exe**. Installation of J-Integra for Exchange starts and the *Introduction* screen appears (see Figure 3.1).



Figure 3.1: J-Integra Introduction

2. Click **Next** button. The End User License Agreement screen is displayed (see Figure 3.2).





Figure 3.2: End User License Agreement

3. Select *I accept the terms of the License Agreement* radio button and click **Next**. The *Choose Install Folder* screen is displayed (see Figure 3.3).

J-Integra for Exchange Version	
	Choose Install Folde
Introduction	Where Would You Like to Install?
🖌 License Agreement	C:\Program Files\U-Integra\exchange
Choose Install Folder Choose Java Virtual Mac	Restore Default Folder Choose
> Choose Shortcut Folder	
Pre-Installation Summary	
Installing	
> Install Complete	
ANA BEAN BEAN BEAN BEAN BEAN BEAN BEAN B	
hstallAnywhere by Macrovision -	
Cancel	Previous





 Click Choose button to select the directory in which you want to install J-Integra for Exchange. By default, it is installed in the directory *C:\Program Files\J-Integra\exchange.* Once you select the directory, click Next button. The *Choose Java Virtual Machine* screen is displayed (see Figure 3.4).



Figure 3.4: Choose Java Virtual Machine

5. Keep the default selection and click **Next**. If you want to use another Java Virtual Machine, select it and then click **Next**. The *Choose Shortcut Folder* screen is displayed (see Figure 3.5).



🖳 J-Integra for Exchange Version	2.7
	Choose Shortcut Folder
<ul> <li>Introduction</li> <li>License Agreement</li> </ul>	Where would you like to create product icons?
Choose Install Folder	O In an existing Program Group: Accessories
D Choose Shortcut Folder	O In the Start Menu
Pre-Installation Summary     Installing	O On the Desktop
Dinstall Complete	O In the Quick Launch Bar
STA -	Other: Intrinsyc J-Integra \J-Integra for Exchange     Choose
suire	O Don't create icons
LEGACY Distance Const	Create Icons for All Users
InstallAnywhere by Macrovision = Cancel	Previous

Figure 3.5: Choose Shortcut Folder

6. Select the appropriate option and select **Next**. The *Pre-Installation Summary* screen is displayed. This screen shows the installation settings (e.g. Product Name, Install Folder, Shortcut Folder, and Disk Space) (see Figure 3.6).



Figure 3.6: Pre-Installation Summary

7. Click **Install**. This starts the installation of J-Integra for Exchange (see Figure 3.7).



Figure 3.7: Installing J-Integra for Exchange

8. When installation completes, the *Install Complete* screen is displayed (Figure 3.8).



📲 J-Integra for Exchange Version :	2.7
	Install Complete
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>Choose Java Virtual Mac</li> <li>Choose Shortcut Folder</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Congratulations! J-Integra for Exchange has been successfully installed to: C:\Program Files\J-Integra\exchange Press "Done" to quit the installer.
InstallAnywhere by Macrovision — Cancel	Previous

Figure 3.8: Installation Complete

9. Click **Done** to close the installer. A dialog box is displayed, which reminds to update the license (see Figure 3.9).



Figure 3.9: License Install Instruction

10. This *OK* to close the dialog box.

M

When J-Integra for Exchange is installed , following environment variables are set: JINTEGRA\_HOME : C:\Program files\J-Integra\exchange Path : %JINTEGRA\_HOME%\bin

## **UPDATING LICENSE**

When you download or purchase J-Integra for Exchange, an email is automatically sent to you with a license file attached (jintegra.xml). This section explains how to update this license.

#### Steps to update J-Integra for Exchange License

- 1. Save the jintegra.xml license file to your **%JINTEGRA\_HOME%\lib** directory.
- 2. Open a command prompt and *cd* to the *%JINTEGRA\_HOME%\bin* directory.
- 3. Type the command *install\_license.bat* and press enter. The license is updated and the summary is shown at the command prompt as shown in Figure 3.10.

C:\WINNT\system32\cmd.exe
C:\Program Files\J-Integra\exchange\bin>install_license.bat
C:\Program Files\J-Integra\exchange\bin>REM Copy jintegra.xml to the \lib direct ory.
C:\Program Files\J-Integra\exchange\bin>cd\lib
C:\Program Files\J-Integra\exchange\lib>java -cp jintegra.jar com.intrinsyc.lice nse.JintegraLicenseTool clean J-Integra v2.7 SB002 (c) Intrinsyc Software International, Inc. http://j-integra .intrinsyc.com/ Trying to Clean License file Updating jintegra.jar Updating jintegra_reduced_logging.jar
C:\Program Files\J-Integra\exchange\lib>java -cp jintegra.jar com.intrinsyc.lice nse.JintegraLicenseTool install J-Integra v2.7 SB002 <c> Intrinsyc Software International, Inc. http://j-integra .intrinsyc.com/ Trying to Install License file Updating jintegra.jar Updating jintegra.reduced_logging.jar Use the view command to display your licensing information.</c>
C:\Program Files\J-Integra\exchange\lib>java -cp jintegra.jar com.intrinsyc.lice nse.JintegraLicenseTool view J-Integra v2.7 SB002 (c) Intrinsyc Software International, Inc. http://j-integra .intrinsyc.com/ Checking jar file jintegra.jar Checking jar file jintegra_reduced_logging.jar
Installed products:
Product : J-Integra for Exchange License Version : 2.7 Runtime Version : 2.7 SB002 Licensed to : Mtree (contact: vijayant.verma@gmail.com) Serial # : License Type : Trial Trial Period : 30 days Date of Issue : June 20, 2007
C:\Program Files\J-Integra\exchange\lib>

Figure 3.10: License Updated

## INSTALLING CDO

There are 2 ways to install CDO. One is through a stand-alone version which is provided for download from Microsoft:

http://www.microsoft.com/downloads/details.aspx?FamilyID=e17e 7f31-079a-43a9-bff2-0a110307611e&DisplayLang=en

The other way is to install it as a component of MS Outlook. Note that these two installations can not co-exist in the same machine. You either do one or the other. If you have to install CDO via Outlook, follow the guide below.

CDO is bundled as a component in MS Outlook version 2003. However, it is not installed by default when you install MS Outlook.

#### Steps to Install CDO as a component of MS Outlook

- 1. Open Add or Remove Programs under Settings > Control Panel.
- 2. Click on Change or Remove Programs on the left side bar. The *Add or Remove Programs* wizard appears (see Figure 3.11).

🐻 Add or Rem	ove Programs		_	미지
5	Currently installed programs:	<u>S</u> ort by: Nan	ne	•
C <u>h</u> ange or Remove	Microsoft Data Access Components KB870669			<b>_</b>
Programs	😻 Microsoft MapPoint North America 2004 Trial	Size	1,051.00MB	
<b>1</b>	🤮 Microsoft Office FrontPage 2003	Size	135.00MB	
	👫 Microsoft Office Professional Edition 2003	Size	<u>259.00MB</u>	
Programs	Click here for support information.	Used	<u>rarely</u>	
5	To change this program or remove it from your computer, click Change or Remove.	Last Used On Change	16-Jun-04 Remove	
Ada/kemove <u>W</u> indows	🕮 Microsoft Visual J.# .NET Redistributable Package 1.1	Size	12.94MB	
Components	🃸 Microsoft Visual SourceSafe 6.0	Size	307.00MB	
	縄 Microsoft Visual Studio .NET Enterprise Developer 2003 - English	Size	1,000.00MB	
Set Program	🃸 Microsoft Visual Studio 6.0 Enterprise Edition	Size	307.00MB	
Access and	🧶 Microsoft Web Publishing Wizard 1.53	Size	0.14MB	
Deradits	MSDN Library for Visual Studio .NET 2003	Size	1,751.00MB	
	🐝 MSN Messenger 6.2	Size	5.68MB	
	🐻 Outlook Express Q823353			
	QuickTime	Size	2.63MB	
	💯 Trend Micro OfficeScan Client	Size	42.05MB	
	William Workstation	Size	29.68MB	
	WebEx			•

Figure 3.11: Update MS Office

3. Select Microsoft Office on the *Currently Installed Programs* box on the right and then click *Change*. The *Microsoft Office 2003 Setup* wizard appears (see Figure 3.12).



🔂 Microsoft Office 2003 Setup	
Microsoft Office Professional Edition 2003	Ca
Maintenance Mode Options	<u> </u>
Add or Remove Features Change which features are installed or remove specific features.	
Reinstall or Repair Microsoft Office 2003 to its original state.	
< <u>B</u> ack. <u>N</u> ext >	Cancel

Figure 3.12: Add or Remove Features

4. Select *Add or Remove Features* radio button and click *Next*. The *Custom Setup* screen is displayed (see Figure 3.13).



🔂 Microsoft Office 200	3 Setup			
Microsoft Office Profe	essional Edition 20	03		<b>C</b> .a
Custom Setup				GO
Select the Microso Please deselect th	ft Office 2003 app e Microsoft Office	lications you v 2003 applicati	vould like to inst ons you would li	all. ke to remove.
word	😰 🔲 Publji	sher		
📉 🔽 Excel	🖉 🔽 Acce	ss		
🖸 🔽 PowerPoint	🔀 🥅 Infol	Path		
💽 🔽 Outlook				
InfoPath requires Micr	osoft Internet Explo	rer version 6.0 o	r later.	
Choose advanced	customization of app	lications.		
		Sp	ace Required on C	: 1908 KB
		Sp	ace Available on C	:6631 MB
		< <u>B</u> ack	<u>N</u> ext >	Cancel

Figure 3.13: Choose Advanced Options

5. Put a check mark on the Choose advanced customization of applications then click Next. The *Advanced Customization* screen is displayed (see Figure 3.14).



🔂 Microsoft Office 2003 Setup	
Microsoft Office Professional Edition 2003	Ca
Advanced Customization	Ciu
Choose update options for applications and tools.	
Image: Microsoft Office Outlook         Image: NET Programmability Support         Help         Importers and Exporters         Stationery         Address Book Control         Visual Basic Scripting Support         Collaboration Data Objects         Run from My Computer         Stationery         Not Available         Object Programming Lit	• • • 08 KB 31 MB
Help < Back Update	Cancel

Figure 3.14: Select Collaboration Data Object

- 6. Expand Microsoft Office, click the icon for Collaboration Data Objects and select *Run from my computer* or *Run all from my computer*.
- 7. Click on Update. CDO will now be installed in your machine.

## **CONFIGURING CDO HOST**

CDO Host can be configured in two ways:

- Using CDOConfig.exe
- Using Manual Steps

It is recommended to configure CDO host using CDOConfig.exe tool because it easier as compare to manual steps.

#### Configuring CDO Host using CDOConfig.exe

CDOConfig.exe is a tool that comes with the J-Integra  $\ensuremath{\mathbb{R}}$  for Exchange SDK and is used for configuring CDO.

#### Steps to configure CDO Host Machine using CDOConfig.exe tool

1. Run CDOConfig.exe located in the */bin* folder of your J-Integra for Exchange installation directory. The *J-Integra CDO Configuration Tool* screen is displayed (see figure 4.13).

💐 J-Inte	e <mark>gra</mark> CDO Configu	uration Tool
►J-	, Integra for	Exchange
Ser	vice Account	
	Domain	
	Username	
	Password	
	Mailbox	
Logo prog	on parameters of a W gram to access the E>	/indows user account to be used by your Java «change Server
	CDO Machine	FRAGASA02 DNS Name or IP Address of this machine
E	xchange Server	DNS Name or IP Address of the Exchange Server
	Apply	Clear Test Configuration
		Ok

Figure 3.15: CDO Configuration Tool

2. In the **CDOConfig** window, fill in the following information:

**Service Account:** This is any Windows user account that will be used to access the Exchange Server. This account must have an Exchange mailbox and must have local administrative rights to the CDO machine.

🛕 ADEPTIA

Fill in the domain, username and password of this account in the corresponding text boxes.

 $\ensuremath{\text{Mailbox}}$  - This is automatically filled in for you. By MS Exchange convention, the mailbox name is the same as the username.

**CDO Machine** - This is also automatically filled in for you. It is the host name of machine where CDOConfig.exe is being run.

**Exchange Server** - Enter the host name or the IP address of your Exchange Server.

- 3. After providing all the required information, click *Apply* to configure CDO. If everything goes well, you should get a message saying CDO has been configured.
- 4. You should also test the CDO configuration by clicking the *Test Configuration* button. The test involves sending an e-mail message to the Service Account. Note that you will get security prompts from Outlook while running the test because it is implemented using VB.

Be sure the firewall is turned off on the CDO machine. J-Integra works under firewalled systems but extra configuration is required for this setup to work. To know, how to make J-Integra® work under firewalls, refer to http://j-integra.intrinsyc.com/support/kb/article.aspx?id=30323.

The CDOConfig.exe tool makes assumptions about some of the settings for a typical server where CDO is installed. If any of these settings are different on your own CDO machine, the CDOConfig.exe tool may fail to configure CDO properly (and error messages may appear when running the above CDO test). If this happens, please refer to the <u>Configuring CDO</u> <u>Host using manual steps</u>. The manual steps for CDO configuration will walk you through each step one-by-one, and make sure all settings are correct.

#### **Configuring CDO Host using manual steps**

#### Manual Steps to configure CDO Host:

- 1. **Set up an exchange user account.** This is the account to be used by Adeptia Server to access Exchange objects (folders, messages, contact items, etc.). An exchange user can be any user in the domain that has a mailbox.
- 2. Set up a Windows machine where CDO will be hosted. This could be the same machine as the Exchange Server. However, due to security considerations, you may not be allowed to do any installations and configurations on the Exchange Server. In this case, you would need to use a separate machine to host CDO. The *CDO host machine* and *Exchange Server* must be in the same domain. To install CDO, refer to the section Installing CDO.
- 3. Check if CDO.DLL is installed in the CDO host machine. CDO.DLL is usually saved in C:\Program Files\Common Files\System\MSMAPI\1033 when you install MS Outlook. If you find CDO.DLL in the CDO host machine, proceed to step 4. If you do not find CDO.DLL in the CDO host machine, you will have to install it as detailed in <u>Installing CDO</u> section.

 After installing CDO.DLL, register it by running regsvr32 as follows: regsvr32 CDO.DLL

C:\WINDOWS\system32\cmd	l.exe	
C:\Program Files\Common	Files\System\Mapi\1033>regsvr32 CDO.DLL_	





- 5. After running regsvr32, you should see a message saying that CDO.DLL has been successfully registered.
- 6. Create a surrogate for CDO. Creating a surrogate for CDO.DLL is necessary as dll files can not run by themselves. They have to be hosted in an executable process. J-Integra for Exchange provides a tool called setdllhost.exe which can create an executable process/surrogate that will host CDO.DLL. Setdllhost.exe is located in the %JINTEGRA\_HOME%\bin folder and should be run as follows:

setdllhost CDO.DLL "CDO Surrogate"

🔤 C:\WINDOWS\system32\cmd.exe

C:\Program Files\Common Files\System\Mapi\1033>setdllhost CDO.DLL "CDO Surrogate"\_



Ø	•	setdllhost accepts 2 parameters: [dll file] and a [surrogate name]. In the above example, we are creating a surrogate for CDO.DLL and calling this surrogate "CDO Surrogate".
	-	Make sure to run setdllhost.exe on the folder where CDO.DLL is located.
	-	To remove "CDO Surrogate", run as follows:
		setdllhost /unregister "CDO Surrogate"

 Configure the DCOM settings for the CDO surrogate so that it can be accessed remotely. To do this, open a command prompt and run *dcomcnfg*. The *Distributed COM Configuration Properties* screen is displayed (see Figure 3.18) 

Distributed COM Configuration Properties	? ×
Applications Default Properties Default Security Default Protocols	
Enable Distributed COM on this computer	
Enable COM Internet Services on this computer	
Default Distributed COM communication properties	
The Authentication Level specifies security at the packet level.	
Default A <u>u</u> thentication Level:	
Connect	
The Impersonation Level specifies whether applications can determine who is calling them, and whether the application can do operations using the client's identity. Default Impersonation Level:	
Provide additional security for reference tracking	
OK Cancel Appl	y

Figure 3.18: DCOM Configuration Properties



- 8. Click on the **Default Properties** tab and put a check mark on *Enable Distributed COM on this computer*.
- 9. Choose *Connect* as the *Default Authentication Level* and *Impersonate* as the *Default Impersonation Level*.
- 10. Click Apply.
- 11. Click on the **Applications** tab (see Figure 3.19).



Distributed COM Configuration Properties	? ×
Applications Default Properties Default Security Default Protocols	
Applications: APE Instance Manager APE Job Manager APE Logger APE Manager APE Pool Manager APE Server Manager APE Server Manager APE Worker APE Worker APE Worker Provider APE Worker Provider APIDeclarationLoader.AddInDesigner Automatic Updates Background Intelligent Transfer Service	
CDU Surrogate COM+ Event System Com2Java Class ComE vents.ComServiceE vents CustReg Class Defrag FAT engine Defrag NTFS engine Event Object Change	-
Properties	
OK Cancel Apply	

Figure 3.19: Select CDO Surrogate

12. Select *CDO Surrogate* and then click on **Properties**. CDO Surrogate properties are displayed (see Figure 3.20).



CDO Surrogate Properties ? 🗙		
General Location Sec	urity Identity Endpoints	
General properties of t	his DCOM application	
Application name:	CDO Surrogate	
Application type:	local server	
Authentication Level:	Connect	
Local path:	C:\PROGRA~1\COMMON~1\MICROS~1\Artg	
	OK Cancel Apply	

Figure 3.20: CDO Surrogate Properties



On Windows XP or Windows Server 2003, expand **Component Services**, expand **Computers**, expand **My Computer**, and click **DCOM Config**. Right-click on the application you wish to configure. Select **Properties**.

- 13. Under the **Genera**l tab, set the *Authentication Level* to *Connect* and then click *Apply*.
- 14. Click on the **Security** tab (see Figure 3.21 ).



CDO Surrogate Properties ?	×
General Location Security Identity Endpoints	
C Use default access permissions	
☐ ● Use custom access permissions	
You may edit who can access this application.	
Edit	
C Use default Jaunch permissions	
└ ⓒ Use custom launch per <u>m</u> issions	
You may edit who can launch this application.	
Edjt	
Use default <u>configuration</u> permissions	
C Use custom configuration permissions	
You may edit who can change the configuration information for this application.	
Ediţ	
OK Cancel Apply	

Figure 3.21: Select Security Options

15. Select *Use custom access permissions* then click *Edit*. The *Registry Value Permissions* screen is displayed (see Figure 3.22).



Registry Value Permissions	×
Registry Value: DefaultAccessPermission <u>O</u> wner: exchangeadmin (Exchange Admin) <u>N</u> ame:	
<ul> <li>exchangeadmin (Exchange Admin)</li> <li>INTERACTIVE</li> <li>idoe (John Doe)</li> <li>ipublic (john public)</li> <li>ismith (Jane Smith)</li> <li>mstan (mike stan)</li> <li>SYSTEM</li> </ul>	Allow Access Allow Access Allow Access Allow Access Allow Access Allow Access Allow Access
Ivpe of Access:     Allow Access       OK     Cancel     Add	▼ <u>R</u> emove <u>H</u> elp

Figure 3.22: Select Users

- 16. From the *Registry Value Permissions* window, add the exchange user account you created in step 1. In the example above, this user account is "John Doe".
- 17. Still on the Security tab, select *Use custom launch permissions* then click on Edit. Add the exchange user to the list, just as you did in the previous step. Click *Apply*.
- 18. On the Identity tab, select *This user* radio button and enter the credentials of the exchange user. Make sure that you enter the correct values. The safest way to do this is to use the *Browse* button to select the exchange user (see Figure 3.23). In the example below, the exchange user jdoe belongs to the ROYLIM domain.



CDO Surrogate Properties	? ×
General Location Security Identity Endpoints	
Which user account do you want to use to run this app	blication?
C The interactive user	
C The Jaunching user	
• This user:	
Us <u>e</u> r: ROYLIM\jdoe	<u>B</u> rowse
Password:	]
Confirm Password:	
C The System Account (services only)	
OK Can	cel <u>Apply</u>

Figure 3.23: Select Users

# 4 CONFIGURING ADEPTIA SERVER TO USE J-

# **INTEGRA FOR EXCHANGE**

To use Adeptia Server with J-Integra for Exchange, you need to copy *CDO.jar*, *jintegra.jar*, *Jintegra\_reduced\_logging.jar* from CDO machine (where J-Integra for Exchange is installed) to Adeptia Server machine.

**Pre-requisite:** J-Integra for exchange must be installed and its license must be updated, before copying jar file.

#### Steps to Install CDO as a component of MS Outlook

 On CDO Host machine, go to *%JINTEGRA\_HOME%\lib* folder and copy cdo.jar, jintegra.jar, jintegra\_reduced\_logging.jar files into C:\Program Files\AdeptiaServer\AdeptiaServer-4.6\ServerKernel\web\libs folder on the machine, where Adeptia Server is running.



- 2. On Adeptia Server machine, open *launcher.properties* file from *C:\Program Files\AdeptiaServer\AdeptiaServer-4.6\ServerKernel\etc* folder.
- 3. In *launcher.properties* file, at the end of the **#default jars** section, add the entry for *cdo.jar*, *jintegra.jar*, *jintegra\_reduced\_logging.jar* as shown in figure 4.12.

#default jars
IAD. YEDCES. varcasImpl 2 7 1 jar
JAR. ALKOLS. Acidestinpi-2.7.1.jai
JAR. HEAT. HEAT. HEAT. Jan
JAR. AVALON I. avaloi - Italinewoi K-20020027. jai
JAR: AXIS: dXIS-1.1.jdl
JAR: BATTK: Datik-1.5-10p-0.20-5.jai
JAR: BLISSED: DIISSEd-adeptia-1.2. Jar
JAR: COMMONSHI I POLIENI : commons-nttpclient-2.0.2. Jar
JAR: COMMONSNET: commons-net-1.4.1.Jar
JAR: COMMONSVES: commons-vfs-1.0-dev.jar
JAR: JSCH: Jsch-0.1.20. Jar
JAR: SLIDEWEBDAV: Jakarta-silde-webdavild-2. I. Jar
JAR: JDOM: Jdom-1.0. Jar
JAR: JDUMBETA: Jdom-1.0b8.jar
JAR: JCIFS: Jcifs-1.2.9. Jar
JAR: MONITORING: liquidInf.jar
JAR: HDY: tidy.jar
JAR: bc: bcmail-jdk14-129.jar
JAR: bc: bcprov-jdk14-129.jar
JAR: JETTY: org.mortbay.jaas-4.2.24.jar
JAR: BPMSERVER: BPMServer.jar
JAR: CRIMSON: crimson.jar
JAR: SERIALIZER: serializer-2.7.0.jar
JAR:POI:poi-2.5.1-final-20040804.jar
JAR: ORO: jakarta-oro-2.0.8.jar
JAR: DESMOJ: desmoj-core-2.1.1.jar
JAR: COLT: colt-1.2.0.jar
JAR: CDO: cdo.jar
JAR: JIntegra: jintegra.jar
JAR: JIntegraLog: jintegra_reduced_logging.jar
web/libs/tools.jar
etc/License.jar
libs/driver/hsqldb-1.8.0.7.jar
libs/driver/jtds-1.2.jar

Figure 4.1: CDO Configuration Tool

- 4. Save the *launcher*. *Properties* file.
- 5. Open *indigo.mlet* file from *C:\Program Files\AdeptiaServer\AdeptiaServer 4.6\ServerKernel\etc* folder.
- 6. Copy the following line of code in *indigo.mlet file.*

<MLET NAME="indigo.core.service:type=mapitest" CODE="com.adeptia.indigo.services.transport.mail.smtp.SendMAPI" CODEBASE="." ARCHIVE="BPMServer.jar"> </MLET>

- 7. Save the *indigo.mlet* file.
- 8. Restart Adeptia Server Kernel and Web Runner.

# 5 TESTING J-INTEGRA SETUP

To test, whether Adeptia Server is properly configured to use J-Integra for exchange, follow the guidelines given below:

- Create a mail source activity using MAPI protocol and click **Test** button. This
  will test the connectivity of Adeptia Server with Exchange Server.
- Create a simple process flow with a mail source and mail target activity. These mail source and mail target activity should use MAPI protocol and point to the required exchange server. If this process flow is executed successfully (mail is sent to the required mailbox), it means you have configured J-Integra properly.

# 6 ABOUT ADEPTIA INC.

Adeptia, an enterprise software company headquartered in Chicago, Illinois, provides a business process integration technology to easily and quickly automate business processes using industry-specific standards. Adeptia's unique product combines business process management with business-to-business integration. Adeptia's reusable and highly scalable technology has been deployed by Fortune 1000 companies. For more information, visit <u>http://www.adeptia.com</u>.

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