Technical White Paper

IBM Lotus Integration Center (ILIC) Dallas Systems Center/ATSS

Netfinity

Establishing the Exchange Connectors for Coexistence Between Lotus Domino R5 and Microsoft Exchange Server 5.5, Service Pack 3

Abstract

This White Paper provides the steps required for establishing coexistence between Lotus Domino Release 5 and Microsoft Exchange Server 5.5, Service Pack 3.

With the rapid adoption of Lotus Domino Release 5 in production environments, it is key to understand how coexistence can be met with a Microsoft Exchange Server. This White Paper is a follow-on update to the work documented in the IBM Redbook entitled, *The Three Steps to Super.Human.Software: Compare, Coexist, Migrate From Microsoft Exchange to Lotus Domino; Part Two: Coexistence and Migration* (SG24-5615), located at www.redbooks.ibm.com.

We will describe the changes to both the Exchange Connector for Lotus Notes and to the Calendar Connector as a result of the introduction of Service Pack 3 for the Microsoft Exchange Server 5.5. We will discuss the limitations and capabilities introduced with Service Pack 3 as well as show you how to implement the both the Exchange Connector for Lotus Notes and the updated Calendar Connector.

What's New in Service Pack 3?

The introduction of Service Pack 3 to the Microsoft Exchange Server 5.5 enhanced both the Exchange Connector for Lotus Notes and the Calendar Connector.

The Connectors gained the following new features:

- **P** The Exchange Calendar Connector provides Microsoft Exchange and Notes Domino R5 calendar compatibility.
- P The Exchange Connector for Lotus Notes provides Notes/Domino R5 servers coexistence with Microsoft Exchange 5.5 servers.
- P Lotus Notes R5 users can add BCC recipients to meeting requests.
- P Louts Notes R5 users can decline meeting requests with an additional option.
- **P** Lotus Notes R5 users can request information about meeting requests.
- P The Exchange Connector for Lotus Notes provides support for multi-lingual context in both the message and in directory synchronization. This function is available under the Options property page for the Connector.
- **P** Operational statistics are now logged to the Windows NT Performance Monitor for message traffic monitoring.
- P Event logging is now fully supported by the Connector. The Diagnostic Logging property page has been updated to control the logging level desired to the Event log.

Are There Limitations With Service Pack 3 and the Connectors?

While enhancements have been made via Service Pack 3, some limitations or considerations in using both the Exchange Connector for Lotus Notes and the Calendar Connector still exist.

Service Pack 3 has the following known issues:

P Comments added by Lotus Notes R5 users in either an accept or decline of a meeting request will not be delivered to Exchange.

Lotus Notes R5 meeting acceptances, tentative acceptances, and decline responses may be converted to text messages.

- **P** The Notes Configuration Utility is not supported on Domino R5.
- **P** The Notes R4 client is required to connect Exchange with Domino R5 servers.

Installing Service Pack 3

The Exchange Connector for Lotus Notes requires the following software levels:

- P Microsoft Windows NT 4.0 with Service Pack 3
- P Microsoft Exchange Server 5.5 Standard or Enterprise Edition, with Service Pack 1
- **P** Lotus Notes client Version 4.5.2 or later on the Exchange Server for connectivity.

Note Version 4.6.2 is recommended.

P Lotus Notes Domino R5 server

We will consider only the installation options for the Exchange Connector for Lotus Notes and the Calendar Connector. For additional details on installing the remaining Service Pack 3 components, see the Service Pack 3 Readme.txt file.

Important We were not able to locate Microsoft documentation stating that the Exchange Calendar Connector directly supports a Lotus Domino R5 server. The document in the following URL —

www.microsoft.com/exchange/55/downloads/CalConnector.asp — does state the that Calendar Connector supports a Lotus Domino R4.5 or later server.

- 1. Create an **SP3** directory on the Exchange Server's local drive.
- 2. Download the Connector Service Packs from the Microsoft FTP Site

ftp://ftp.microsoft.com/bussys/exchange/exchange-public/fixes/E ng/Exchg 5.5/SP3.

- 3. From Windows NT Explorer, select the **SP3** directory and click the name of the compressed file to bring up the Self-Extracting menu. In our case, we have two files we will be extracting:
 - P SP3_55XI.EXE Exchange Notes/OVVM/SNADS Connector Installation (Intel)
 - P SP3_55GI.EXE Exchange Calendar/Groupwise Connector Installation (Intel)
- From the Self-Extracting menu, type SP3 in the Unzip to Folder box. To proceed, click the Unzip button to begin extracting. When the files are extracted, click OK and then Close.

Note You will repeat steps 3 and 4 for each of our two files.

 To install the Exchange Connector for Lotus Notes Service Pack 3, select the SP3\Eng\Exchconn\Setup\i386\Ntsconn directory. Click

NTSCONN.EXE to install the Service Pack to the Exchange Connector for Lotus Notes.

 To install the Calendar Connector Service Pack 3, select the SP3\Eng\Exchconn\Setup\i386\Calcon directory. Click CALCONW3.EXE to install the Service Pack to the Calendar Connector.

Customizing the Exchange Connector for Lotus Notes

In this section, we will customize the Exchange Connector for Lotus Notes. Our Exchange Server is within the Dallas site, which is part of the IBM Lotus Integration Center (ILIC) organization. We will connect with a Lotus Domino Release 5.01a server named **ilic_exchsrv1/ILICR5**.

Given that Service Pack 3 does not support the Notes Configuration Utility into an R5 server, we manually perform the following:

- P Create a Notes ID/Person Document for the Exchange Connector.
- P Update the ACL of the Domino Directory.
- **P** Update the ACL of the Domino Router's Mail.box.
- P Create a Foreign Domain Document.
- P Update the Server Document.
- P Create a Mailbox for the Exchange Connector.

Finally, we need to update or customize the Exchange Server's property pages associated with the Exchange Connector for Lotus Notes.

Creating the Notes ID

To create the Notes ID and Person Document for the Exchange Connector:

- 1. Launch the Domino Administrator Client.
- 2. Enter the Administrator's password when prompted and click OK.
- 3. Choose File Open Server. Select the name of your Domino server. Ours is called ilic_exchsrv1/ILICR5. Click OK to proceed.
- 4. Click the **People** section on the right side of the Task panel. Click **Register**.
- 5. At the Enter Password dialog box, type the certifier ID's password.
- The Register Person panel is displayed. We entered a first name of Exchange and a Last Name of Connector. Do not provide a password for the Exchange Connector.

Register Person	New Entry			? ×
Advanced	Registration Se	rver ilic_o	exchsrv1/ILICR5	
â 🖌	<u>F</u> irst name	MI	Last name	Short <u>n</u> ame
Basics	Exchange		Connector	EConnector
<u> </u>	Pass <u>w</u> ord		Password Quality	Scale
li l		W	eak []	Strong
Mail	🔲 S <u>e</u> t internet p	assword	Password is optional (0)
ID Info	Internet address		Internet Do <u>m</u> ain	
68	ExchangeConne	ctor@sl.dfw.i	sl.dfw.ibm.com	Format
	The Internet add	lress (above) is	created using the person's	name (above),
Gioups	the internet dom edit the internet	ain and interne address directl	et address format componen y. It must be unique in the a	ts. You can also address book.
S				
Other	Add	person	Import Text file	Migrate people
Registration queue				
 User Name 	•	Registration	Status 🔺	Date
	10	1		
Regi <u>s</u> ter All	<u>H</u> egister	<u>D</u> elete	Options	Done

7. Click the Mail navigator and select Mail system of None.

Register Pers	son Exchange C	onnector		? ×
Advanced				
លី			Maiļ system	:
Basics			None	
n Mail				
ID Info				
Groups				
I				
Other	Ade	d <u>p</u> erson	Import Text file	Migrate people
Registration q	ueue:			
🔺 User N	Name 🔺	Registration Sta	atus 🔺	Date
1				×
Regi <u>s</u> ter Al	<u>R</u> egister	<u>D</u> elete	Deptions	Done

- There is no need to modify anything further. Click the Add Person button.
- 9. The Exchange Connector is now ready to be registered. Select the Exchange Connector and click the **Register** button.
- 10. At the Message Box which describes the person was successfully registered, click **OK**.
- 11. From the **Register Person** panel, click the **Done** button. You can now see the Exchange Connector in the Domino Directory.



12. Copy the Lotus Notes ID file (ECONNECTOR.ID) to the Notes data directory of the Lotus Notes client (R4.6+) running on the Microsoft Exchange Server.

Update the ACL of the Domino Directory

We need to make sure that the Exchange Connector can update the Domino directory when directory synchronization is performed. Follow these steps to update the ACL:

- 1. Right click on the Domino Directory icon on the Administrator's desktop.
- 2. Select Database Access Control.
- 3. Click the Add button to add the Exchange Connector to the ACL.

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 Make sure that the User Type field is Person, the Access field is Manager, and the Roles of NetModifier and NetCreator are selected. Also, select the Delete documents checkbox.

Access Control	List
~~~	People, Servers, <u>G</u> roups: Show All 💌 User type: Person 💌
Basics	-Default-       ▲ccess:       Manager         ▲ Administrator/LLICR5       ↓       Delete documents         ▲Administrators       ↓       Delete documents         ▲nonymous       ♥       Delete documents         ●       Exchange Connector/ILICR5       ♥       Create personal agents         ●       Liz Chavez/ILICR5       ♥       Create personal folders/views         ●       Liz Chavez/ILICR5       ♥       Create clousScript/Java agent         ●       DotherDomainServers       ♥       Preate documents         ●       Write public documents       ♥         ●       Write public documents       ♥
Log Advanced	Add       Rename       Remove       [NetModifier]         Full name:       Exchange Connector/ILICR5
Last change: Adr According to: ILI0	ministrator on 05/06/99 02:09:28 PM OK Cancel <u>H</u> elp

5. Click OK to update the ACL.

## Update ACL to Router's Mail.box

The Exchange Connector needs to have depositor access to the router's mailbox.

1. Select the Router's mailbox icon on the Administrator's desktop.

**Note** Make sure that you place the icon on the desktop if it is not already there.

- 2. Select File Database Access Control.
- 3. Click the Add button to add the Exchange Connector.

4. Ensure that the User Type field is Person and that the Access field is Depositor.

Access Control Li	st		×
~~~	People, Servers, <u>G</u> roups: Show All	User type: Pers	on
_ >>> ↓	-Default-	Access: Dep	ositor 💌
Basics	Administrator/ILICR5	🔽 <u>C</u> reate document	is
20000	👗 Exchange Connector/ILICR5	🔲 Delete document	is
<u></u>	👖 ilic_exchsrv1/ILICR5	🔲 Create <u>p</u> ersonal a	agents
- V		Create perso <u>n</u> al f	olders/views
Deles		Create shared fol	ders/views
nuies		🔲 Create Lotus <u>S</u> criț	pt/Java agent
1		🔲 Read public doci	uments
		🔲 🔟 rite public docu	uments
		Roles:	
Log			
	A <u>d</u> d <u>R</u> ename Remo <u>v</u> e		
Recordential in			
Advanced	Full name: Exchange Connector/ILICR5		
Last change: ilic_ex According to: ILICR	xchsrv1 on 04/26/99 03:32:10 PM	OK Cancel	<u>H</u> elp

5. Click **OK** to update the ACL.

Create a Foreign Domain Document

- 1. From the Domino directory on the Administrator's desktop, select Servers Domains.
- 2. Click the Add Domain button.
- 3. From the **Basics** tab, select **Foreign Domain** for the Domain type field.
- 4. Type Exchange in the Foreign domain name field.
- 5. Type a description in the Description field if you would like.



- 6. Click on the Mail Information tab.
- 7. Type the name of your Domino server in the Gateway server name field. We typed **ilic_exchsrv1/ILICR5**.
- 8. In the Gateway mail file name field, we typed **Exchange.box**.



9. Click Save and Close.

10. The Foreign Domain document for the Exchange Connector has been created.



Update the Server Document

We need to allow the Exchange Connector to create databases on the Domino server.

- 1. From the Administrator's desktop, double click the Domino directory icon.
- 2. From the Server navigator on the left, select Servers.
- 3. Click on your server name. Ours was ilic_exchsrv1/ILICR5.
- 4. Click the Edit Server button.
- 5. Add the Exchange Connector to the Administrator's field.

P Server ilic exchsrv1/II ICB5 - Lotus Notes		_ 🖻 X
File Edit View Create Actions Text Help		2 6
Welcome Workspace UI II ICB5's Address Book - Server	Servers	notes
		ieres
Save and Close 📢 Web		
SERVER: ilic_exchsrv1/fLICR5	010010	0101
	1010	010
Basics Security Ports Server Lasks Internet Protocols MTAs	Miscellaneous Transactional Logging Administration	4.4.67
Basics		
Server name: ^P ilic_exchsrv1/ILICR5	Server build number: Release 5.0.1a	
Server title:	Administrators: CAdministrator/ILICR5,	
6-	Chavez/ILICR5, ilic_exchsrv1/ILICR5,	
	Exchange Connector/ILICR5	
Domain name: "ILICH5_	Routing tasks: Mail Houting	
name:		
Cluster name:	Server's phone number(s): 🦉 🖉	
Directory Assistance	CPU count: 1	
Directory Catalog database "n name on this server:	Operating system: Windows/NT 4.0 Intel Pentium	
Optimize HTTP performance "Advanced (Custom Settings)	Is this a Sametime server?: Vo J	•
primary activity:		1
		. к
Server Location Information		
		-
Distinguished names of p	eople allowed to administer server.	
	^ 🖘 Office	^^

6. Click Save and Close.

Create a Mailbox for the Exchange Connector

We now create a mailbox, called Exchange.box, for use by the Exchange Connector for Lotus Notes.

- 1. From the Domino Administrator's desktop, click File Database New.
- Select the ilic_exchsrv1/ILICR5, the name of the Domino server, in the Server field.
- 3. In the Title field, type the name of the database. We named ours **Exchange Mailbox**.

- 4. In the File Name field, type **Exchange.box**.
- 5. Select the Advanced Templates checkbox.
- 6. Locate and select the Mail Router Mailbox template. Our completed information looked like this:

New Datab	ase	×
<u>S</u> erver:	ilic_exchsrv1/ILICR5	OK
<u>T</u> itle:	Exchange Mailbox	Cancel
<u>F</u> ile Name:	Exchange.box	<u>H</u> elp
	Encryption Size Limit	
	Create full text index for searching	Ad <u>v</u> anced
	Template Server Local	
	Mail Router Mailbox (5.0) Mail (IMAP) Mail (R5.0) Microsoft Office Library (R5.0) News Articles (NNTP) Notes Log Notes Log Notes Log Analysis Aboutmailbox.ntf	
	Show advanced templates	ign changes

- 7. Click **OK** to create the database.
- 8. From the Administrator's desktop, click the database icon for Exchange.box.
- 9. Select File Database Access Control.
- 10. Make sure that the User Type field is Person, the Access field is Manager. Select the Delete documents checkbox.

Access Control	List	X
~~	People, Servers, <u>G</u> roups: Show All 💌 User	type: Person 💌
Sector 1	-Default-	ess: Manager 💌
Basics	🛔 Administrator/ILICR5	Greate documents
Roles	A Exchange Connector/ILICR5 ✓	<u>Nelete documents</u> Create personal agents Create perso <u>n</u> al folders/views Create shared <u>folders/views</u> Create Lotus <u>S</u> cript/Java agent Agad public documents <u>W</u> rite public documents Is :
Advanced	Add <u>R</u> ename <u>Remove</u> Full name: Exchange Connector/ILICR5	
Last change: Adr According to: ILIC	, ministrator on 10/29/99 01:33:07 PM OK OK	Cancel <u>H</u> elp

11. Click OK to update the ACL.

Customizing the Exchange Connector for Lotus Notes Property Pages

You will need to make some changes to the Property Pages for the Exchange Connector. Further, you have new property pages available.

 In the Options property page, make sure you specify your Domino R5 server. For our environment, we typed ilic_exchsrv1/ILICR5 in the Notes server field.

Connector for Lotu	s Notes (ILIC_EXCHANGE) Properties	×
Routing Advance General Address	ed Notes Address Books Dirsync Schedule Message Tracking Space Import Container Export Containers Diagnostics Logging	Queues Options
📳 Con	nector for Lotus Notes (ILI	
Exchange conne	ection	
Organization:	ILIC	
Site:	Dallas	
Server:	ILIC_EXCHANGE	
Address type:	NOTES	
Notes connectio	n Ric evologi // III ICB5	
Exchange doma	ain name in Notes: Exchange	
Polling interval:	15	
Notes server lan	nguage: English	
	OK Cancel Apply	Help

2. On the Diagnostics Logging property page, you can change the event logging levels. We have updated a few to **minimum** logging; the default is none. Our settings are shown below:

Connector for Lotus Notes (IL	IC_EXCHANGE) Properties		×
Routing Advanced Notes A General Address Space Imp	Address Books Dirsync Schedule port Container Export Containers or for Lotus Not	Message Tracking Diagnostics Logging	Queues Options
<u>Services</u>	Category	Logging level	
LME-NOTES	Controller Notes Directory Synchronization Notes Interface Transport to Exchange Transport from Exchange Exchange to Notes Conversion Notes to Exchange Conversion	None Minimum Minimum Minimum None None None	
Logging level	inimum C Me <u>d</u> ium (C Ma <u>x</u> imum	
	OK Cancel	Apply	Help

3. We updated the Import Containers tab as follows:

Connector for Lotus Notes (ILI)	IC EXCHANGE) Properties	X
Routing Advanced Notes Ad General Address Space Impo	ddress Books Dirsync Schedule Message Tracking ort Container Export Containers Diagnostics Logging o r for Lotus Notes (ILIC	Queues Options
Import container:	Recipients <u>C</u> ontainer	
<u>⊺</u> rust level:	20	
	OK Cancel Apply	Help

4. We updated the Export Containers tab as follows:

Connector for Lotus Notes (ILIC_EXCHANGE) Properties	×
Routing Advanced Notes Address Books Dirsync Schedule Message Tracking General Address Space Import Container Export Containers Diagnostics Logging	Queues Options
Connector for Lotus Notes (ILIC	
Recipient <u>c</u> ontainers: <u>E</u> xport these recipients:	
Add > Recipients	
Sjte: Irust level:	
Dallas 100 Export custom recipients	
OK Cancel Apply	Help

 At the Advanced tab, we supplied the path and file name to locate the Notes.INI file. In the field called Notes INI file location, we typed c:\WINNT\notes.ini:

Connector for Lotus Notes (ILIC_EXCHANGE) Properties	X
General Address Space Import Container Export Containers Diagnostics Logging Optio Routing Advanced Notes Address Books Dirsync Schedule Message Tracking Queu	ns es
Connector for Lotus Notes (ILI	
Advanced Exchange settings	
Advanced Notes settings Notes letterhead: Plain Text	
Convert Notes DocLinks to: RTF Attachment	
Notes INI file location: c:\WINNT\notes.ini	
Run Notes database maintenance at (hh:mm): 01:00	
Run Connectivity Adminstrator	
	_
OK Cancel Apply Help	

- 6. We did not modify any of the other property page tabs.
- 7. Click **OK** to accept the changes.

Directory Synchronization

We are now ready to synchronize the directories.

Important Before attempting the directory synchronization, make sure that the NT services for the Exchange Connector Controller and the Exchange Connector for Lotus Notes are started.

1. Select the Exchange Connector Dirsync Schedule property tab.

Connector for Lotus Notes (ILIC_EXCHANGE) Properties	×
General Address Space Import Container Export Containers Diagnostics Logging Optio Routing Advanced Notes Address Books Dirsync Schedule Message Tracking Queu	ins ies
Connector for Lotus Notes (ILI	
Exchange-Notes directory update schedule	
Frequency Time (hh:mm) Daily 00:00	
Exchange to Notes directory synchronization	
Immediate full reload Immediate update	
Notes to Exchange directory synchronization Immediate full reload Immediate update	
UK Cancel Apply Help	

- 2. Click the **Immediate Full Reload** button for the Exchange to Notes directory synchronization.
- 3. Click the **Immediate Full Reload** button for the Notes to Exchange directory synchronization.
- 4. Our updated Exchange Global Address List (directory) looks like this:



5. Our updated Domino directory, as seen from a 4.62 Notes client, looks like this:

LICR5's Address Book	- People - Lotus Notes Actions Window Help Carlon Person	- IX - IX - マン - マン - マン - マン - マン - マン - マン - マン
LUCR5's Address Book Groups Locations G. <u>People</u> G. Server Agents Design	Name Administrator Administrator Chavez , Liz Connector , Exchange Domino , Joe Exchange Users Microsoft , Jane Outlook , Bill Sales , Sam	Telephone Company E-Mail Administrator/ILICR5 @ ILICR5 Administrator/ILICR5 @ ILICR5 Administrator/Dallas/ILIC @ Exchange Liz Chavez/ILICR5 @ ILICR5 Exchange Connector/ILICR5 ILICR5 Joe Domino/ILICR5 @ ILICR5 Exchange Users/Dallas/ILIC @ Exchange Jane Microsoft/Dallas/ILIC @ Exchange Bill Outlook/Dallas/ILIC @ Exchange Bill Outlook/Dallas/ILIC @ Exchange Sam Sales/Dallas/ILIC @ Exchange
	Å	^ <mark>></mark> Difice

Users can now address e-mail messages to either Exchange users or Notes/Domino users from whichever mail system they reside on.

Customizing the Calendar Connector

As mentioned at the beginning of this White Paper, we were unable to find Microsoft documentation stating support for the Calendar Connector and Lotus Domino R5.

 You will be working on the Exchange Server. From Windows NT Explorer, locate the directory where Service Pack 3 is loaded. Double-click the program, calconw3.



Note If you have installed the Calendar Connector previously, you will be prompted to uninstall it. Once it is removed, you must then re-invoke the calconw3 program to install the Calendar Connector at the Service Pack 3 level.

- 2. At the Welcome panel, click Next.
- 3. From the License Agreement panel, read the agreement. If you agree, click **Yes**.
- 4. At the dialog box that asks if you want to install the Microsoft Exchange Calendar Connector, click **Yes** to proceed.

5. At the Exchange Services Account Name and Password panel, type the password to your Exchange Services account.

Note This Windows NT account should be the same one that was used to install the Exchange Server, generally the Administrator account.

Click Next to proceed.

6. At this point, the files for the Calendar Connector will be loaded. You will receive a dialog box informing you of the successful installation of the Microsoft Exchange Calendar Connector.

Click OK.

7. Close all windows. The Calendar Connector has now been installed at the Service Pack 3 level.

Customizing the Calendar Connector

Now that the Calendar Connector code has been installed, you are ready to customize it for use. Perform these tasks from the Exchange Server.

- 1. From the Microsoft Exchange Administrator's view, expand Configuration and Connections.
- 2. You will see the Calendar Connector for your organization. Double-click the Calendar Connector.

The property pages for the Calendar Connector is displayed. We will only describe those tabs relevant to the Connector's operation.

 The General tab is displayed. You can select to change the free/busy time defaults for information maintained. We elected to use the defaults.

Calendar Connector (ILIC_EXCHANGE) Properties	×
Schedule Diagnostics Logging General Calendar Connections	
Calendar Connector (ILIC_EXC	
Exchange ILIC_EXCHANGE	
Exchange site containing custom recipient addresses of users on connected systems Dallas	
Number of days of free/busy information to request from foreign 60 calendars	
Maximum age in minutes of foreign free/busy data in Exchange that can be used without querying the foreign calendar	
Maximum number of seconds to wait for response from foreign 15 calendars	
Administrative Note	
OK Cancel Apply Help	

- 4. From the Calendar Connections tab, we need to create a new connection to our Domino R5 server. Click the **New** button.
- 5. The Notes Calendar Connection panel is displayed.

Notes Calendar Connection	<
Connection Name	
Calendar Connection to ilic_exchsrv1	
NT Server Hosting the Notes Server	
ilic_exchsrv1	
Path to the local Notes.ini file	
c:\winnt\notes.ini	
OK Cancel Help	

In the Connection Name field, we entered descriptive text of **Calendar Connection to ilic_exchsrv1**.

In the NT Server Hosting the Notes Server field, we entered the NT server name of **ilic_exchsrv1**.

In the Path to the local Notes.ini file, we entered the fully qualified file name of **c:\winnt\notes.ini**.

- 6. Click OK to proceed.
- 7. The Calendar Connection property page is now updated with our customizations.

Calendar Connector (ILIC_EXC	HANGE) Properties		
Schedule Diagnostics Logging General Calendar Connections			
Calendar Connector (ILIC_EXC			
Connection	Calendar Type		
New	Edit		
	OK Cancel <u>Apply</u> Help		

8. Click OK to save our changes.

Copy the EXCALCON Add-in Task to the Domino Server

So that Exchange users can do free/busy time search on the Domino server, you must copy the EXCALCON add-in task from the Exchange Server to the Domino server.

Perform these steps from the Exchange Server:

- 1. Locate the EXCALCON.EXE program. Our file was located in the c:\exchsrvr\connect\calcon\excalcon\i386 directory.
- 2. Copy EXCALCON.EXE to the Domino server.

Tip Depending on your environment, you could either map a drive from the Domino server to the Exchange Server and copy the file, or you could copy the file onto diskette and move it between servers.

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Perform these steps from the Domino server:

3. Now we copy the EXCALCON.EXE program onto our Domino server. In our case, we copied the file to the d:\lotus\domino directory.

Tip If you copy the file to the \lotus\notes directory, you will receive the following message at the Domino server console: "File does not exist: decsext." Make sure you copy the file to the \lotus\domino directory instead.

Update AMAP.TBL for the Calendar Connector

To run the Calendar Connector, you must update the AMAP.TBL file associated with the Calendar Connector located on the Exchange Server.

Important Several AMAP.TBL files exist on the Exchange Server. We updated the AMAP.TBL file associated with the Calendar Connector, which we found in the path of **c:\exchsrvr\connect\exchconn\dxanotes**.

- From Command Prompt, switch to the directory that houses the AMAP.TBL file used by the Calendar Connector. We switched to c:\exchsrvr\connect\exchconn\dxanotes.
- 2. Launch NOTEPAD AMAP.TBL.
- According to the CALCON.RTF documentation (for us located in c:\exchsrvr\connect\calcon\doc), we need to modify the AMAP.TBL file.
 - P Add a line for the mail server
 - P Change the line for the calendar domain.
- 4. Our modified AMAP.TBL file looked like this after modification:

📋 amap - Notep	oad		_ 🗆 ×
<u>File E</u> dit <u>S</u> earch	h <u>H</u> el	p	
FULLNAME	220	FullName 1	
MAILDOMAIN	31	MailDomain 2	
COMPANY	64	CompanyName NULL	
DEPARTMENT	64	Department NULL	
FIRSTNAME	64	FirstName NULL	
LASTNAME	64	LastName NULL	
LOCATION	128	Location NULL	
SHORTNAME	64	ShortName NULL	
UNID	64	\$\$UNID NULL	
DN	256	\$\$DN NULL	
USNCreated	16	\$\$USN	
Initials	6	MiddleInitial NULL	
Title	32	JobTitle NULL	
Phone	20	OfficePhoneNumber	
MobilePhn	20	CellPhoneNumber	
Fax	20	OfficeFAXPhoneNumber	
Resource	20	ResourceFlag	
CALDOM	32	CalendarDomain	
MAILSRV	32	MailServer	
;			
; additional	L 'Pe	eople' attributes	
;			

5. Save and close AMAP.TBL.

Update the Foreign Domain Document in the Domino Directory

You must update the Foreign Domain document associated with the Exchange Server to allow free/busy time calendar lookups via the Calendar Connector and EXCALCON.

- 1. From the Domino Administrator, click the **Configuration tab**. Select **Servers** and locate the Foreign Domain document associated with the Exchange Server.
- 2. Click the Edit Domain button.
- 3. From the Foreign Domain document, click the Calendar Information tab.
- 4. We updated the following fields:
 - P In the Calendar Server field, we typed ilic_exchsrv1/ILICR5.
 - P In the Calendar System field drop-down box, we typed Exchange.box. This is the name of the mailbox used by the Exchange Connector for Lotus Notes.

Our updated Foreign Domain document looked like this:

<mark>[]] iic_exchsrv1</mark>]] ∰ Foreign Domain - Domino Administrator	
Elle Edit Yiew Create Actions Iext Help	
🔄 Administration 🔰 Foreign Domain 🗙	administrator
Save and Close	
DOMAIN: Exchange	30 CO.
Basics Restrictions Mail Information Lalendar Information Administration	2.20
Leadendad Calendar system: ⁷ Exchange boduj <u>sa</u> Calendar system: ⁷ Exchange boduj <u>sa</u>	
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Explored	

5. Click the Save and Close button.

Starting the EXCALCON Add-in Task

To start the EXCALCON Add-in task, perform these tasks from the Domino server.

- 1. From the Domino console, issue the command **load excalcon** <server name> <system name> where:
 - P <server name> is the name of the Exchange Server. In our case, we typed ilic_exchange
 - P <system name> is the mailbox database created for use by the Exchange Connector for Lotus Notes. In our case, we typed Exchange.box
- 2. We typed the following command: load excalcon ilic_exchange Exchange.box. Our console was as follows:



- From the Exchange Server, make sure that the Calendar Connector service is started.
- 4. You are now ready to check free/busy times between the Exchange Server and a Lotus Domino R5 server.

Free/Busy Search Test Results

In our testing environment, we used an Outlook98 client and a Notes R5.01a client for free/busy lookups.

Our findings were as follows:

- **w** We were able to perform a free/busy lookup of a Notes user's calendar information from the Outlook98 client.
- **w** We were **not** able to perform a free/busy lookup of an Outlook98 user's calendar information from the Notes client.

Summary

We found that the Exchange Connector for Lotus Notes at the Service Pack 3 level did support connection to a Lotus Domino R5 server, with the limitations noted at the beginning of this document. However, we found that the Calendar Connector displayed one-way free/busy search capability only from an Outlook user to a Notes user .

References - Additional Reading

Microsoft Exchange Server 5.5 Service Pack 3 Release Notes

IBM Redbook: The Three Steps to Super.Human.Software: Compare, Coexist, Migrate From Microsoft Exchange to Lotus Domino Part Two: Coexistence and Migration (SG24-5615-00):

http://www.redbooks.ibm.com

Microsoft FTP Site for Service Pack 3:

ftp://ftp.microsoft.com/bussys/exchange/exchange-public/fixes/Eng/Exchg5.5/SP3/