

Notes Integration | CMT BTCal 6.1.1 / Free/Busy 6.0

Requirements

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Table of Contents

Section 1: Introduction	3
Section 2: Server Hardware Requirements	4
Section 3: Prerequisites	5
3.1 Domino Coexistence Server	5
3.2 Windows Coexistence Server.....	5
3.3 SQL Coexistence Server (for Directory Sync Pro Implementations)	6
3.4 General.....	6
3.5 Exchange Access Requirements.....	7
<i>Active Directory</i>	7
<i>Exchange</i>	7
<i>Windows Coexistence Server</i>	8
3.6 Domino Access Requirements	8
About Binary Tree	9
Binary Tree Social Media Resources	9

Section 1: Introduction

Notes Integration | CMT BTCal features a new name and logo, but is the same, trusted product previously known as CMT for Coexistence.

This document details the requirements for implementing Notes Integration | CMT BTCal between Domino and Exchange. These include the requirements for each of the three servers needed to run all of the components of Notes Integration | CMT BTCal, as well as any environmental requirements.

Please refer to the Notes Integration | CMT BTCal User Guide and the Directory Sync Pro Installation and Configuration Guide for details on implementing this solution.

Section 2: Server Hardware Requirements

Recommended:

- Domino Coexistence Server
 - 4 Cores
 - 8 GB of RAM
 - 100 GB of storage
 - Add 50 GB of storage if deploying ZApp
- Windows Coexistence Server
 - 2 Cores
 - 8 GB of RAM
 - 100 GB of storage

Minimum:

- Domino Coexistence Server
 - 2 Cores
 - 4 GB of RAM
 - 100 GB of storage
 - Add 25 GB of storage if deploying ZApp
- Windows Coexistence Server
 - 2 Cores
 - 4 GB of RAM
 - 100 GB of storage

Section 3: Prerequisites

The following is a list of supported and unsupported environments.

	Supported	Not Supported
Domino Coexistence Server	<ul style="list-style-type: none"> Windows Server 2008 R2 or Windows Server 2012 R2 (US English) *Language packs are supported Domino 8.5.3 or 9.0.1 (English) *Language packs are supported *Domino 8.5.x - End of Service/Support (EOS) September 30, 2018 	Domino versions other than 8.5.3 or 9.0.1
Windows Coexistence Server	Windows Server 2008 R2, Windows Server 2012 R2 (US English) *Language packs are supported	All other versions of Windows Server
Exchange Environment	Exchange 2010, 2013 or 2016	Exchange 2007 or previous
Domino Environment	Domino 7.x or higher	Any versions previous to 7.x

3.1 Domino Coexistence Server

The Domino Coexistence server is responsible for Directory Synchronization, Free/Busy Look-up, and Messaging, Calendaring and Application Remediation.

- Windows Server 2008 R2 or Windows Server 2012 R2 (US English) (Language packs are supported)
- Domino 8.5.3 or 9.0.1 English (Language packs are supported)



Domino 8.5.x will reach End of Service/Support (EOS) on September 30, 2018. If there is an issue related to Domino or if a fix is required related to an issue, it may be necessary to upgrade to an officially supported version of Domino (9.x).

- .NET 4.5 and Microsoft Visual C++ v10 dependencies (of which the necessary C++ runtimes are in the installation package).
- The Domino Coexistence server should be dedicated to Domino and the Notes Integration | CMT BCal add-in tasks only.
- The Domino Coexistence server should be a separate server from the Domino Mail servers, and no user mail files should reside on the Domino Coexistence server.

3.2 Windows Coexistence Server

- Windows Server 2008 R2 or Windows Server 2012 R2 (US English) (Language packs are supported) running as a standalone IIS 7.0 server with the Web Server (IIS) Role installed.

The Role Services that are needed can be installed by selecting the role using the following commands.

Windows Server 2008 R2 Command:

```
ServerManagerCmd -I NET-Framework, RSAT-ADDS, Web-Server, Web-Basic-Auth, Web-Asp-Net, Web-Windows-Auth, Web-Metabase, Web-Net-Ext, Web-Lgcy-Mgmt-Console, WAS-Process-Model, RSAT-Web-Server, Web-ISAPI-Ext, Web-Digest-Auth, Web-Dyn-Compression, NET-HTTP-Activation, RPC-Over-HTTP-Proxy -Restart
```

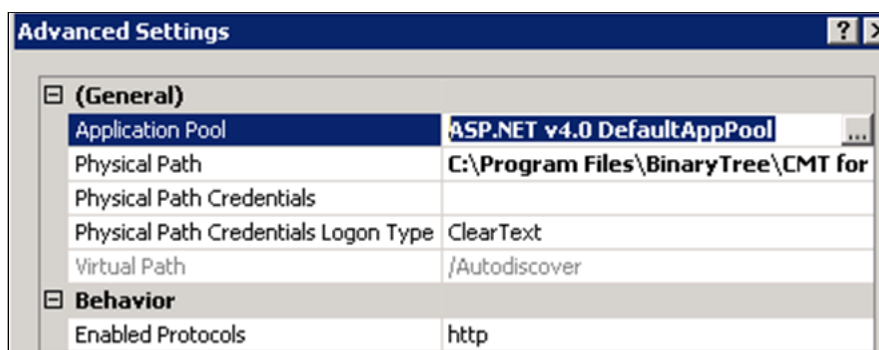
Windows Server 2012 R2 Command:

```
Install-WindowsFeature AS-NET-Framework, RSAT-ADDS, Web-Server, Web-Basic-Auth, Web-Asp-Net45, Web-Windows-Auth, Web-Metabase, Web-Net-Ext45, Web-Lgcy-Mgmt-Console, WAS-Process-Model, Web-ISAPI-Ext, Web-Digest-Auth, Web-Dyn-Compression, NET-HTTP-Activation, RPC-Over-HTTP-Proxy -Restart
```

You can run these commands from PowerShell 2.0 window, which is a part of the Windows Server 2008 R2 server and Windows Server 2012 R2.

- Windows Installer 4.5 or higher
- .NET 4.0
- Once the install completes, each of the three Binary Tree IIS applications (Autodiscover, AvailabilityService, and BTRouter) needs to be configured to use a .Net 4.0 application pool.

This can be set via the Advanced Settings for the DefaultAppPool in IIS. Change Application Pool to ASP.NET v4.0. For further clarification, below is a screen shot of the setting:



- SSL Certificate with the hostname of the server, fully qualified domain name of the server, and the Autodiscover host name(s) representing the Domino environment (i.e. autodiscover.domino.contoso.com), as its subject or subject alternative name (SAN) must be installed.
- PKI Domain sign certificate can be used for on-premises implementation of Office 365. Office 365 implementation requires a third-party certificate.
- IIS PowerShell Snap-In (x64) (already installed on the server when using Windows Server 2008 R2 or Windows Server 2012 R2).
- The Windows Coexistence Server cannot have Exchange installed on it.
- Free/Busy will only be supported on a standalone Windows Coexistence Server.

3.3 SQL Coexistence Server (for Directory Sync Pro Implementations)

The requirements for Directory Sync Pro must be met if Directory Sync Pro components are to be installed on the Notes Integration | CMT BTCal infrastructure. Refer to the Directory Sync Pro Requirements document for more information.

3.4 General

- Notes Integration | CMT BTCal requires a license supplied by Binary Tree.
- All Domino mail files should use a standard Notes template, currently supported by IBM/Lotus. Modifications to the standard mail templates can result in unexpected behavior in messaging, calendaring or application remediation, and should be validated before deploying Notes Integration | CMT BTCal in production environments.
- All Lotus Domino Servers need to be at release level currently supported by IBM/Lotus.
 - Users on Domino Mail Server prior to release level 6.0.3 will experience issues receiving iCalendar (calendaring) data from Microsoft Exchange.

- All Domino entries to be synchronized into Exchange must have valid and unique SMTP addresses in the Domino Directory. This includes people, groups, mail-in databases, and rooms and resources.
- At least one Microsoft Exchange Server version 2010 or higher with Send and Receive Connectors configured for communication with Domino.
- An Organizational Unit (OU) must be created in Active Directory (AD), into which the Domino contacts will be synchronized. Binary Tree recommends that this directory be off the root in Active Directory (AD).
- All Microsoft Outlook clients are version 2010 or higher. Outlook 2003 clients will **NOT** be able to access Free/Busy information for Domino users and Outlook 2007 is no longer supported.
- At least one end-user workstation with Lotus Notes Client (version 8.x or higher), and one end-user workstation with Microsoft Outlook Client (version 2010 or higher) should be available to represent end-users. These workstations may run on physical or virtual machines.
- All components of Notes Integration | CMT BTCal are fully functional on physical as well as virtual machines. When setting up Proof of Concept or Pilot coexistence environments, Binary Tree fully supports, in fact, recommends the use of virtual machines as a means of lowering the expense of such projects. However, when it comes to production coexistence environments, Binary Tree has not yet gathered sufficient information to determine whether virtual environments have the same stability and performance characteristics as physical machines. Because a majority of production coexistence environments have been and are deployed on physical machines, Binary Tree advises potential customers of these facts, but defers to them to make the final decision. Binary Tree will provide product support in both physical and virtual environments. However, if either stability or performance issues are found in a virtual environment, Binary Tree may recommend switching to a physical one as a means of issue correction.
- The Microsoft Exchange and Domino Servers must be connected via a LAN (10 Mbps or higher) connection. A high-speed WAN (5 Mbps or higher) connection may be acceptable, but is not recommended. Where possible, it is recommended to have the Exchange and Domino servers as well as the Binary Tree migration workstations on the same physical network if possible.
- Characters with diacritics (é, ü, etc.) are supported, but NOTES.INI must be in UTF-8 format without a BOM. Notepad++ is the recommended tool for saving in this format. UTF-8 format that includes the BOM, or byte order mark cannot be read.

3.5 Exchange Access Requirements

To deploy Notes Integration | CMT Free/Busy on the Windows Coexistence Server, an Active Directory account with Server Administration rights must be able to log on to the server interactively. The account must be able to run programs with Administration-level access on the target Exchange Server and specifically be able to open the Exchange Management Shell (PowerShell).

Binary Tree recommends the following setup for the service account:

Active Directory

- Minimum membership of Domain Users (least privilege) built-in security group
- Read & List Contents rights to "Deleted Objects" container. You may follow these steps if your account is not a Domain Administrator or equivalent (see KB892806):

Using a domain admin account, open a command prompt and confirm the successful execution of the following commands:

```
dsacls "CN=Deleted Objects,DC=domain,DC=com" /takeownership
dsacls "CN=Deleted Objects,DC=domain,DC=com" /g
Domain\ServiceAccount:LCPR
```

- Full Control rights to destination OU in Active Directory

Exchange

- Administrative rights to Exchange

Windows Coexistence Server

- Member of local administrators group

3.6 Domino Access Requirements

For program installation and restarts if necessary, an AD account with remote logon and server administration rights to Windows Servers on which the Domino Servers reside.

For the modification of the routing scheme in Domino, a Lotus Notes ID with a minimum of Editor rights to the Domino Directory is required. In addition, the ID must at a minimum have the following roles assigned:

- NetCreator
- NetModifier
- ServerCreator
- ServerModifier

A Notes ID with greater administration rights is preferred for modification of the Domino routing scheme.

- To provide Zero-Touch Application Remediation (ZApp) access to Domino Administrators to diagnose ZApp issues, a multipurpose group needs to be created in Domino. This group should be called BTZAppREADERS. This group should contain LOCALDOMAINADMINS (or equivalent group name) and LOCALDOMAINSERVERS (for scalability and failover).

About Binary Tree

Binary Tree is a Microsoft Gold Partner for messaging, cloud productivity and application development and is dedicated to and focused on enterprise transformations to Microsoft platforms. Since 1993, Binary Tree has transformed more than 8,000 global clients and 42 million users, including 7.5 million users to Office 365. The company is a globally preferred vendor for Office 365. Its headquarters is located outside of New York City with global offices in France, Germany, Singapore, Sweden and the U.K. Its award-winning software and services help companies modernize email, directories and applications by moving and integrating them to the Microsoft cloud. The company's business-first approach helps plan, move and manage the transformation process from end to end so that clients can stay focused on their core businesses. Binary Tree's experts deliver low-risk, successful IT transformations. Visit www.binarytree.com for more information.

Binary Tree Social Media Resources



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