



OnTime

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# Group Calendar for IBM Connections

**Installation Manual**

OnTime® Group Calendar version 6.5.x

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The main audience for this manual is the IBM Connections administrator or person used to working with IBM Websphere Application Server and IBM Connections. It is expected that the reader of this manual is no stranger to the IBM Connections environment and the IBM Websphere Application Server and knows how to configure that application using the Integration Solutions Console and the IBM Connections configuration files.

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## About OnTime Group Calendar – For IBM Connections

OnTime Group Calendar – For IBM Connections (hereafter “OnTime Connections”) consists of two widgets for IBM Connections that can be installed into the IBM Connections Profiles feature (hereafter simply “Profiles”) and into the IBM Connections Communities feature (hereafter simply “Communities”). The components are installed into the IBM Websphere Application Server and surfaced through the IBM HTTP Server (IHS).

The Profiles component consists of one widget, and the Communities component consists one widget. The customer is free to deploy and configure the widgets in any way they please, and the approach described in this manual should be considered inspiration in that regard.

Please note: You must have a working OnTime Group Calendar running at least ver. 5.3 to successfully install OnTime for IBM Connections.

## About the installation

Installing or upgrading OnTime Group Calendar – Connections consists of installing or updating some files in two servers

- Your Connections server
- Your Domino OnTime server.

If you already have installed a version from before version 5.3 this installation is a major change, so please refer to the section **Upgrading from OnTime Connections before version 5.3.**

**Note:** In IBM Connections 6.0 and 6.0CR1 there is an issue with the refresh of widgets. IBM has issued an iFix LO93543 that solves the refresh issue. Please update your Connections.

## Prerequisites, OnTime Group Calendar – For IBM Connections

To install OnTime Group Calendar – Connections you must have the following in place before you install:

- A license key is allowing for access to the OnTime Group Calendar – Connections components. The applications allowed by the license key are most easily verified using the About Document of the OnTime Group Calendar Config database. For Connections, two different license options are available: **Profiles and Community**.
- A working OnTime Group Calendar Web database installation. The database must be accessible, HTTP(S) - from the server(s) hosting your IBM Connections environment. **Please note:** Please perform any upgrade of the OnTime Group Calendar product incl. the Web database before installing or updating OnTime Group Calendar – Connections.
- All users **must** have either
  - the same e-mail address in the LDAP directory used in IBM WebSphere Application Server for IBM Connections as is configured for the user in OnTime Group Calendar Config database

*or...*

- the same used in the LDAP directory used in IBM WebSphere Application Server for IBM Connections as is configured as the short name in the OnTime Group Calendar Config database.
- Single Sign-On using LTPA token between the IBM Domino Server hosting the OnTime Group Calendar Web database and the IBM Connections environment.

For more information, please refer to the "Single-Sign-On between Domino and Websphere" section.

Dataflow: The two OnTime widgets for calendar data in Connections is implemented as i-Frames. Data is drawn from the OnTime web service. When a Connections Community includes a group as a member, the group's members are expanded by sending a request to a group resolver servlet in Connections that returns a list of members of the group. Single Sign-On (SSO) for the user is required between the Connections server and the OnTime web server.

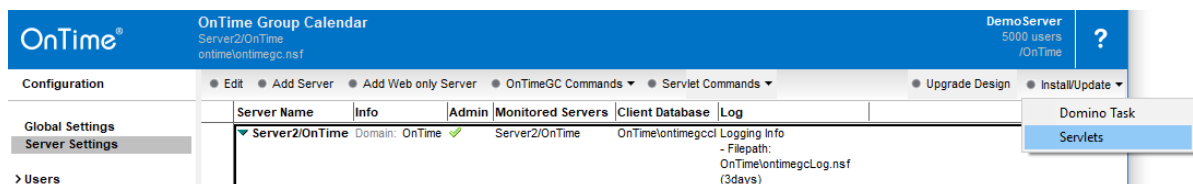
## Installation on the Domino OnTime server

It is a requirement for the Connections part that the OnTime server is running at least OnTime version 5.3.

A servlet, OnTimeGCCConn.jar from the OnTime installation package has to be installed in the Domino OnTime Server. We recommend installing the .jar file in your \ontime folder below your \data directory in the Domino server.

The installation of the .jar file may be done from a button in the OnTime GC config database – ‘Server Settings’ – ‘Install/Update’ – ‘Servlets’.

Before you click the button, please configure the ‘Connections’ settings in the OnTime ‘Server Settings’ document below:



Connections settings, in the Server Settings document:

Connections	
Enabled	<input checked="" type="checkbox"/> Yes
Base url	https://showtime.ontimesuite.com
Servlet:	
Group Resolve Url	https://showtime.ontimesuite.com/otggrpresolve
Username	
Password	
Ctx Profiles	/profiles
Ctx Communities	/communities
Ltpa Token Name	LtpaToken2

The ‘Connections Settings’ section determines:

**Enabled:** This enables the references to the servlet in your Connections server

**Base url:** The URL of your Connections server

**Group Resolve Url:** The URL of the OnTime ‘otggrpresolve’ servlet installed in Connections

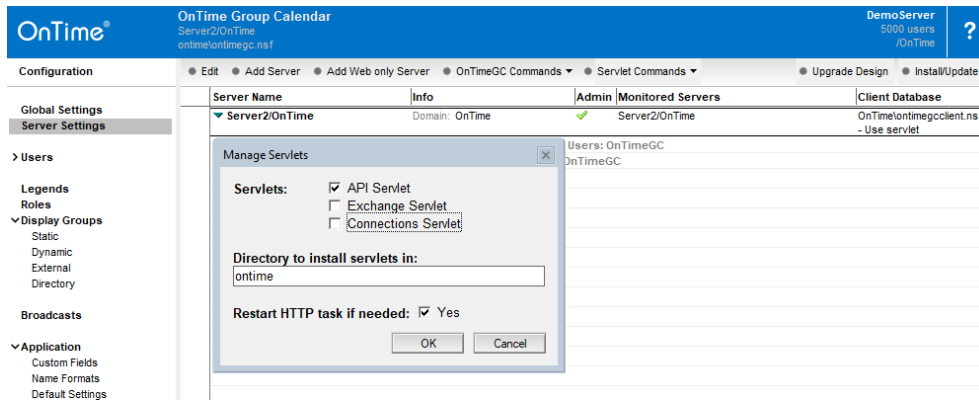
**Username:** Normally blank, we recommend authentication for ‘otggrpresolve’ for Everyone

**Password:** Normally blank, we recommend authentication for ‘otggrpresolve’ for Everyone

**Ctx profiles:** Default /profiles URL – only change, if you have a non-standard Connections installation

**Ctx Communities:** Default /communities URL – only change, if you have a non-standard Connections installation

The button 'Install/Update' – 'Servlets' in the OnTime 'Server Settings' view will open the 'Manage Servlets' box:



Add a checkmark for 'Connections Servlet' – do not remove other check marks for Servlets, it will remove already installed servlets.

Clicking 'OK' does the following 4 steps:

1. Add the OnTimeGCCConn.jar file in your preferred directory
2. Update the 'servlets.properties' file in the Domino data directory.
3. Update the server document's 'Domino Web Engine' setting – example below.
4. Restart the web server if necessary

The 'Servlets' button also works with OnTime on a Linux server.

## Manual installation

- if you prefer, instead of using the 'Connections Servlet' button.

In the 'servlets.properties' file in the \data directory you may add references to the OnTimeGCCConn.jar.

In the example below other OnTime, servlets are already configured.

Replace the <connectionsserver> reference with your own Connections web URL:

```
servlets.startup=ontimegc ontimegcadmin ontimegccconn ontimegcex

servlet.ontimegc.code=com.ontimesuite.api.servlet.OnTimeGC
servlet.ontimegc.initArgs=

servlet.ontimegcadmin.code=com.ontimesuite.admin.servlet.OnTimeGCAdmin
servlet.ontimegcadmin.initArgs=

servlet.ontimegccconn.code=com.ontimesuite.connections.servlet.OnTimeGCCConn
servlet.ontimegccconn.initArgs=base=https://<connectionsserver>,grpresolve=https://<connectionsserver>/otgogrpsolve

servlet.ontimegcex.code=com.ontimesuite.exchange.servlet.OnTimeGCEx
servlet.ontimegcex.initArgs=
```

The two lines with **https** should be concatenated into one line. Beware of the casing.

An example of a Domino server document - 'Domino Web Engine' configured for servlets:



The screenshot shows a Domino server document titled 'Server: Server2/OnTime' with the URL 'ontime2demo.intravision.dk'. The document is configured for 'Domino Web Engine' and 'HTTP'. The 'Java Servlets' section is expanded, showing the following configuration:

HTTP Sessions	Java Servlets
This section does not apply as "Load Internet configurations from Server/Internet Sites documents" has been enabled.	<p><u>Java servlet support:</u> Domino Servlet Manager</p> <p>Servlet URL path: /servlet</p> <p>Class path: domino\servlet; ontime/OnTimeGC.jar; ontime/OnTimeGCAdmin.jar; ontime/OnTimeGCCConn.jar; ontime/OnTimeGCEx.jar</p> <p>Servlet file extensions:</p>

**Note:** There is a Domino default 'Class path' reference to domino\servlet. Please create a directory \servlet in the \domino\data\domino\ folder, otherwise you will get a warning in the Domino Console when you enable the 'Domino Servlet Manager'.

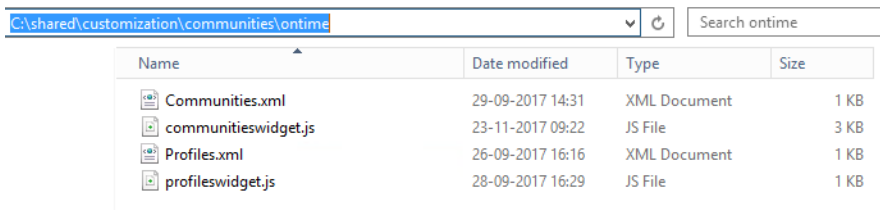
**Note:** Restart the HTTP task of the OnTime server to include the new configuration of servlets, in case you did a manual installation of the Connections servlet in Domino.

## Installation of OnTime in Connections

### Modification in the customization directory

Your customization directory is found in the Deployment Managers section 'Environment/WebSphere variables' - referenced as 'CONNECTIONS\_CUSTOMIZATION\_PATH'.

Create a folder named 'ontime' in the folder .\customization\communities\  
In the \ontime folder insert the four files from your OnTime Package.



Name	Date modified	Type	Size
Communities.xml	29-09-2017 14:31	XML Document	1 KB
communitieswidget.js	23-11-2017 09:22	JS File	3 KB
Profiles.xml	26-09-2017 16:16	XML Document	1 KB
profileswidget.js	28-09-2017 16:29	JS File	1 KB

**Note:** The file names of Communities.xml and Profiles.xml are case sensitive and used in the following configuration of urls of the widgets.



## Configure the Profiles widget

This widget inserts a personal calendar in your Connections Profiles page

1. Using the 'wsadmin' check out the widgets-config.xml file. For information on how to do this refer to the IBM Connections product documentation.
2. Open the widgets-config.xml file in a text editor.
3. Locate the resource-tag with **type="profile"** and insert the following widget definition:

```
<!-- OnTime Group Calendar - Profiles for IBM Connections -->
<widgetDef bundleRefId="ontimeProfiles_res" defId="ontimeProfiles"
  modes="view" themes="wpthemeThin wpthemeNarrow wpthemeWide wpthemeBanner"
  url="{communitiesSvcRef}/ontime/Profiles.xml">
  <itemSet>
    <item name="onTimeUrl"
      value="https://<ontimeserver>/ontime/ontimegcclient.nsf"/>
    <item name="onTimeWidgetHeight" value="500"/>
  </itemSet>
</widgetDef>
```

Replace the '<ontimeserver>' reference with the URL of your OnTime server.

Note: If this is an upgrade from an earlier version of 'OnTime Group Calendar – Connections', please refer to [Upgrading from OnTime Connections before version 5.3.](#)

Scroll down to the default profiles layout and add the widget to the layout as shown below.

**Please note:** You are free to place the widget at any supported location. The screenshot below is simply an example.

Below the 'ontimeProfiles' widget is added in col3 (the right-hand column of the Connections web page), example:

```
<layout resourceSubType="default">
  <page pageId="profilesView">
    <widgetInstance defIdRef="multiWidget" instanceId="tabsWidget1" uiLocation="col2"/>
    <widgetInstance defIdRef="Updates" uiLocation="tabsWidget1"/>
    <widgetInstance defIdRef="contactInfo" uiLocation="tabsWidget1"/>
    <widgetInstance defIdRef="backgroundInfo" uiLocation="tabsWidget1"/>
    <widgetInstance defIdRef="ProfileProgress" uiLocation="col1"/>
    <widgetInstance defIdRef="socialTags" uiLocation="col1"/>
    <widgetInstance defIdRef="sand_thingsInCommon" uiLocation="col1"/>
    <widgetInstance defIdRef="sand_socialPath" uiLocation="col3"/>
    <widgetInstance defIdRef="reportStructure" hidden="true" uiLocation="col3"/>
    <widgetInstance defIdRef="friends" uiLocation="col3"/>
    <widgetInstance defIdRef="linkRoll" uiLocation="col3"/>
    <widgetInstance defIdRef="ontimeProfiles" uiLocation="col3"/>
  </page>
</layout>
```

If you also have the license for Community, you may add the Community widget while you still are editing the file 'widget-config.xml'. In case you are ready to save your settings go to

**Save and check-in the widgets-config.xml**

## Configure the Community widget

This Community widget definition allows Community owners to add the widget to the Community.

Note: If this configuration is an upgrade from an earlier version of 'OnTime Group Calendar – Connections', please refer to **Upgrading from OnTime Connections before version 5.3.**

Locate the resource-tag with type="community" and insert the widget definition of the Communities widgets just below it.

```
<!-- OnTime Group Calendar - Communities for IBM Connections -->

<widgetDef bundleRefId="ontimeCommunities_res" defId="ontimeCommunities"
modes="view" primaryWidget="false" showInPalette="true" themes="wpthemeThin
wpthemeNarrow" uniqueInstance="true"
url="{communitiesSvcRef}/ontime/Communities.xml">
<itemSet>
    <item name="communityID" value="{resourceId}"/>
    <item name="onTimeUrl"
value="https://<ontimeserver>/ontime/ontimegcclient.nsf"/>
    <item name="onTimeWidgetHeight" value="500"/>
</itemSet>
</widgetDef>
```

Replace the '<ontimeserver>' reference with the URL of your OnTime server.

The widget 'Group Calendar' is added manually to a Community by the Community owner(s) - 'Community Actions'/ 'Add Apps'.

If you wish to automatically add the 'Group Calendar' widget to all communities, add a line to the default layout below the 'mandated widgets' as in the example below.

```
<!-- mandated widgets -->  
  
<layout resourceSubType="default">  
  
<page pageId="communityOverview">  
  
    <widgetInstance defIdRef="RecentUpdates" uiLocation="col2recentposts"/>  
  
    <widgetInstance defIdRef="Members" uiLocation="none"/>  
  
    <widgetInstance defIdRef="ontimeCommunities" uiLocation="col3"/>
```

## Save and check-in the widgets-config.xml

1. Save and close the file.
2. Use the wsadmin-command to check the widgets-config.xml file back into Websphere.

## Widget catalog registration

The OnTime widget definitions in the widgets-config.xml file have to be followed by registration in the Connections widget catalog if your version of IBM Connections is raised to version 6.0 with CR1.

This registration is not necessary for IBM Connections versions before 6.0CR1

Open your 'wsadmin' tool.

Run >execfile("newsAdmin.py")

### Profiles widget

Add the OnTime widget for profiles, all in one command line, run:

```
NewsWidgetCatalogService.addWidget(title="OnTime Profiles", text="OnTime Profiles  
Calendar widget", url="{communitiesSvcRef}/ontime/Profiles.xml",  
categoryName=WidgetCategories.profile, isDefaultOpened=TRUE, isGadget=FALSE,  
appContexts=[WidgetContexts.EMBEDXP],  
policyFlags=[GadgetPolicyFlags.TRUSTED,GadgetPolicyFlags.SSO],  
prereqs=["profiles"], proxyPolicy=ProxyPolicy.INTRANET_ACCESS)
```

Register the response – the GUID of the registration, this is your reference to the widget in the widget catalog.

An example: '1fc9e385-7819-4122-8307-7f41e7b1fe8f'.

To **Enable** the widget in the widget catalog, adjust to your own GUID, run:

```
NewsWidgetCatalogService.enableWidget("1fc9e385-7819-4122-8307-7f41e7b1fe8f")
```

### Communities widget

Add the OnTime widget for communities, all in one command line, run:

```
NewsWidgetCatalogService.addWidget(title="OnTime Community", text="OnTime Community  
Calendar widget", url="{communitiesSvcRef}/ontime/Communities.xml",  
categoryName=WidgetCategories.communities, isGadget=FALSE,  
appContexts=[WidgetContexts.EMBEDXP], policyFlags=[GadgetPolicyFlags.TRUSTED,  
GadgetPolicyFlags.SSO], prereqs=["communities"],  
proxyPolicy=ProxyPolicy.INTRANET_ACCESS)
```

Register the response – the GUID of registration; this is your reference to the widget in the widget catalog.

An example: '31916019-b516-4656-810c-88758faee79b'

To **Enable** the widget in the widget catalog, adjust to your own GUID, run:

```
NewsWidgetCatalogService.enableWidget("31916019-b516-4656-810c-88758faee79b")
```

### Clear the widget catalog Cache, run:

```
NewsWidgetCatalogService.clearWidgetCaches()
```

## Configure LotusConnections-config.xml

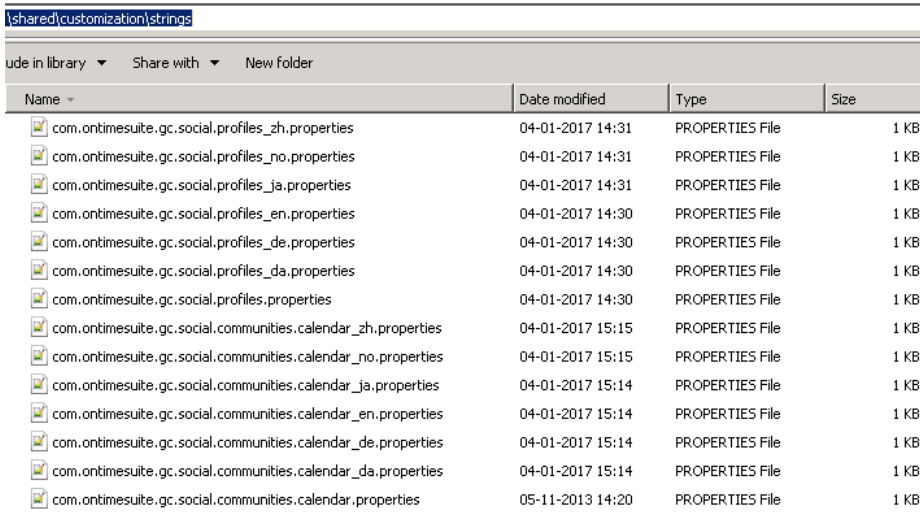
1. Using the wsadmin-command check out the LotusConnections-config.xml file. For information on how to do this refer to the IBM Connections product documentation.
2. Open the LotusConnections-config.xml file in a text editor.
3. Scroll to the bottom of the file and locate the resources-tag (it may or may not be empty). Add lines for the required resource bundles as shown below. A widgetBundle line should be concatenated into one line.

```
<resources>
  <widgetBundle name="com.ontimesuite.gc.social.profiles"
    prefix="ontimeProfiles_res"/>
  <widgetBundle name="com.ontimesuite.gc.social.communities.calendar"
    prefix="ontimeCommunities_res"/>
</resources>
```

4. Update the “versionStamp” at the bottom of the file.
5. Save and close the file.
6. Using the wsadmin-command check the LotusConnections-config.xml file back into Websphere.
7. Synchronize the nodes.

## OnTime language headers

1. Navigate to your IBM Connections customization-directory. The directory is located in your IBM Connections shared files on a network share or on the local hard disk of the Websphere Application Server depending on your particular installation.
2. Open the 'strings' directory and copy the 'com.ontimesuite.gc.social.profiles'-files and 'com.ontimesuite.gc.social.communities.calendar'-files from the installation package into this directory. After copying the files, the directory will look like below (there may be more files).



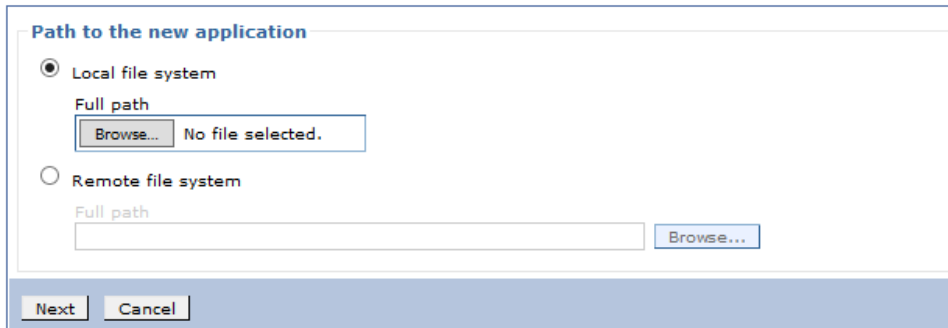
Name	Date modified	Type	Size
com.ontimesuite.gc.social.profiles_zh.properties	04-01-2017 14:31	PROPERTIES File	1 KB
com.ontimesuite.gc.social.profiles_no.properties	04-01-2017 14:31	PROPERTIES File	1 KB
com.ontimesuite.gc.social.profiles_ja.properties	04-01-2017 14:31	PROPERTIES File	1 KB
com.ontimesuite.gc.social.profiles_en.properties	04-01-2017 14:30	PROPERTIES File	1 KB
com.ontimesuite.gc.social.profiles_de.properties	04-01-2017 14:30	PROPERTIES File	1 KB
com.ontimesuite.gc.social.profiles_da.properties	04-01-2017 14:30	PROPERTIES File	1 KB
com.ontimesuite.gc.social.profiles.properties	04-01-2017 14:30	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar_zh.properties	04-01-2017 15:15	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar_no.properties	04-01-2017 15:15	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar_ja.properties	04-01-2017 15:14	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar_en.properties	04-01-2017 15:14	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar_de.properties	04-01-2017 15:14	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar_da.properties	04-01-2017 15:14	PROPERTIES File	1 KB
com.ontimesuite.gc.social.communities.calendar.properties	05-11-2013 14:20	PROPERTIES File	1 KB

## Installing the OnTime Group Resolve application

The installation of this ear-file is for expanding group members used in the member list of Communities.

1. Open the Integrated Solutions Console (ISC) and log in as WAS administrator.
2. From the menu on the left, select “Applications/Application Types/WebSphere Enterprise Applications” to navigate to the application list
3. Perform the following steps for the ear-file to install
  - a. Click “Install”
  - b. Make sure “Local file system” is selected and click the button to select the file. Browse for the wasgroupresolve-x.x.ear-file from your OnTime distribution files. Once the file has been selected click ‘Next’

Specify the EAR, WAR, JAR, or SAR module to upload and install.



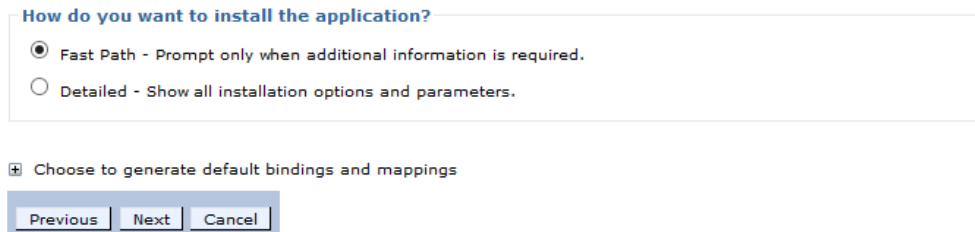
**Path to the new application**

Local file system  
Full path  
Browse... No file selected.

Remote file system  
Full path  
Browse...

Next Cancel

- c. Make sure “Fast path” is selected and click ‘Next’



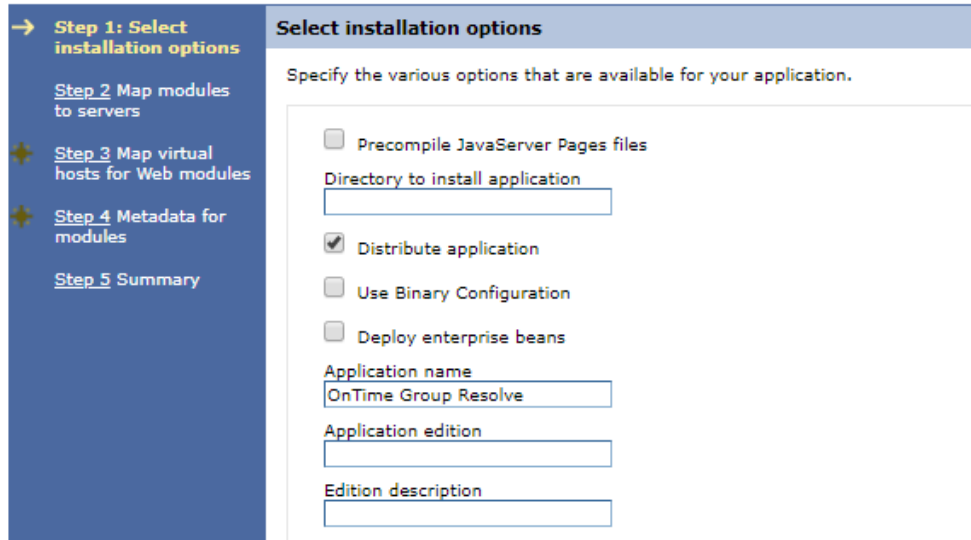
**How do you want to install the application?**

Fast Path - Prompt only when additional information is required.  
 Detailed - Show all installation options and parameters.

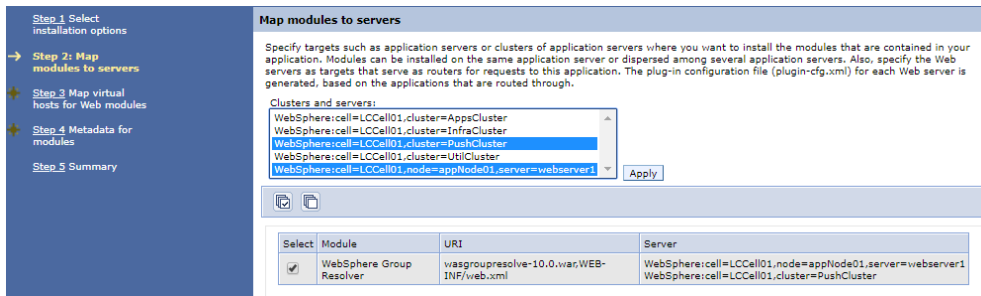
Choose to generate default bindings and mappings

Previous Next Cancel

- d. Enter the 'Application name', 'OnTime Group Resolve', click 'Next'

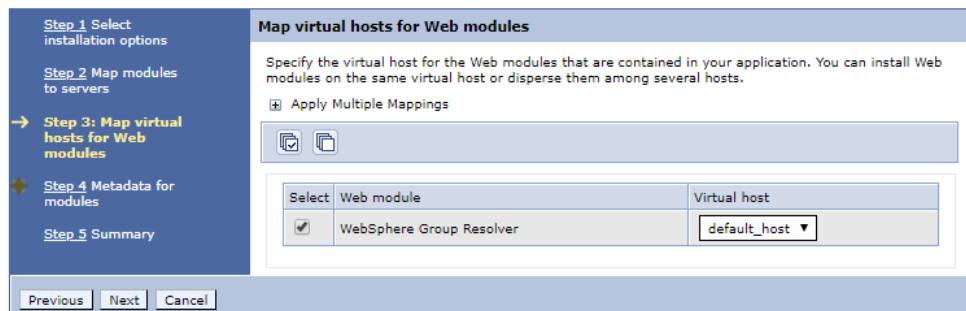


- e. On the next screen map the web module to the web server to use and the WebSphere Application Servers or clusters to use. Use the Ctrl-key to select the servers in the list of servers on top, add a checkmark next to the web module and click "Apply". Then click 'Next'.



Select	Module	URI	Server
<input checked="" type="checkbox"/>	WebSphere Group Resolver	wasgroupresolve-10.0.war.WEB-INF/web.xml	WebSphere:cell=LCCell01,node=appNode01,server=webserver1 WebSphere:cell=LCCell01,cluster=PushCluster

- f. Select 'default\_host'

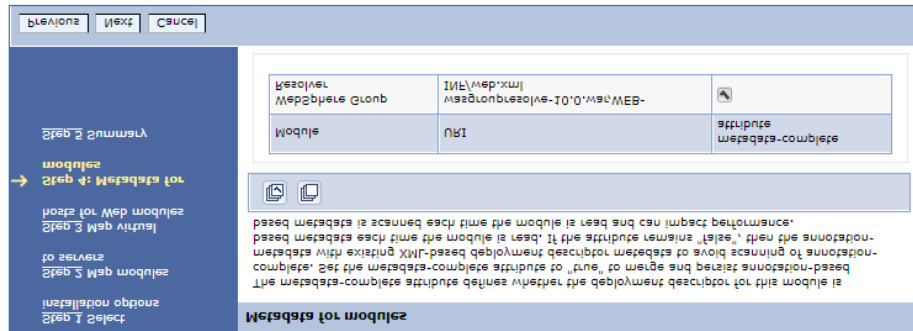


Select	Web module	Virtual host
<input checked="" type="checkbox"/>	WebSphere Group Resolver	default_host

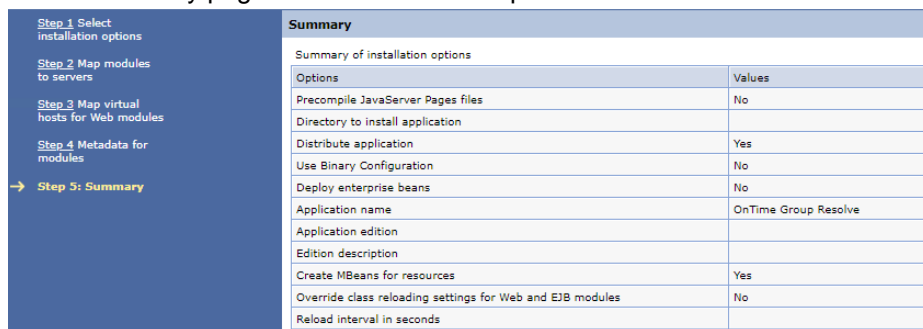
Click 'Next'.



- g. In the screen asking about “Metadata for modules”. Add a checkmark next to the “metadata-complete attribute” and then click ‘Next’.

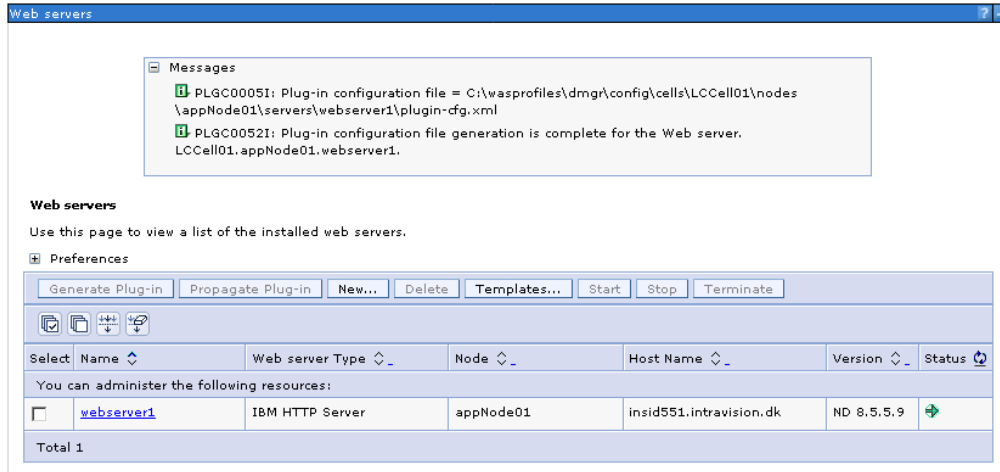


- h. At the Summary page click “Finish” to complete the installation.

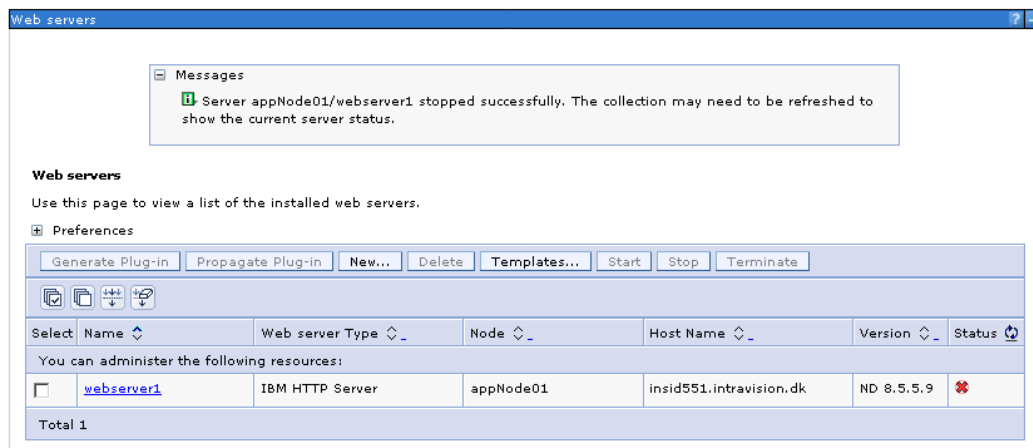


- i. The ISC will now install the application onto the selected WebSphere Application Server(s). Once the installation is done click “Save” to save the settings and then return to the application.

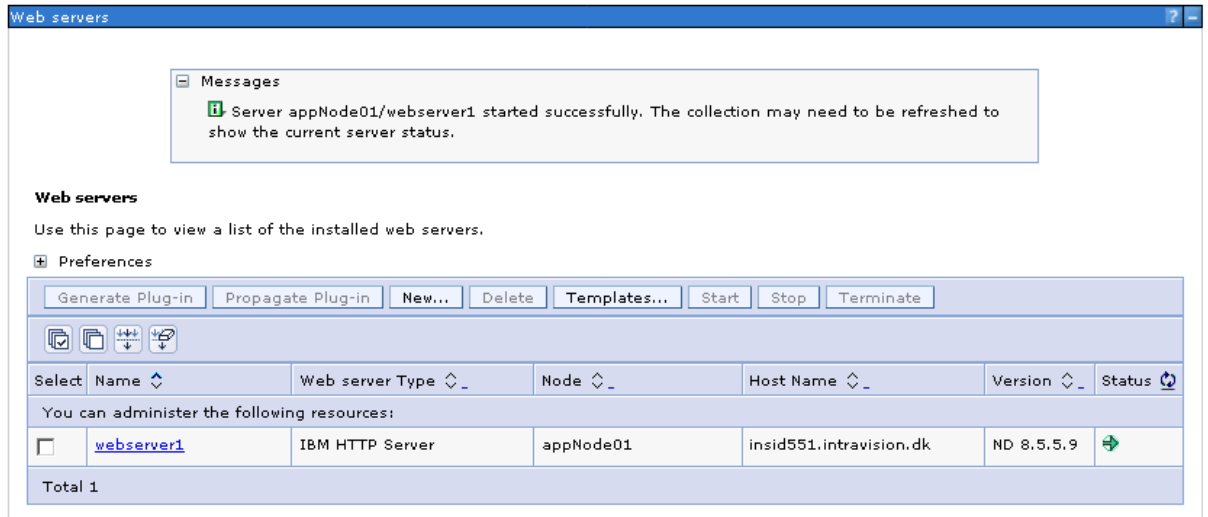
4. In the list of ‘Enterprise Applications’, click ‘OnTime Group Resolve’. Click ‘Security role to user/group mapping’. Select ‘users’ and click ‘Map Special Subjects’ and then choose ‘Everyone’. Click ‘Ok’. Click ‘Save’.
5. From the menu on the left select ‘Servers’/‘Server Types’/‘Web servers’ to go to the list of configured web servers.
6. Select the web server(s) you selected during the ear-file installation and click “Generate Plug-in” to generate the plug-in configuration for the selected server(s).



7. Select the web server(s) you selected during the ear-file installation and click “Propagate Plug-in” to copy the generated plug-in configuration to the selected server(s).
8. Select the web server(s) you selected during the ear-file installation and click “Stop” to stop the selected server(s).



9. Select the web server(s) you selected during the ear-file installation and click “Start” to start the selected server(s).



10. From the menu on the left, select “Applications/Application Types/WebSphere Enterprise Applications” to go to the application list. Select the ‘OnTime Group Resolve’ application you installed and click “Start” to start the application.

<input type="checkbox"/>	<a href="#">Mobile Administration</a>	
<input type="checkbox"/>	<a href="#">Moderation</a>	
<input type="checkbox"/>	<a href="#">News</a>	
<input checked="" type="checkbox"/>	<a href="#">OnTime Wasgroupresolve</a>	
<input type="checkbox"/>	<a href="#">Phone List</a>	
<input type="checkbox"/>	<a href="#">Profiles</a>	
<input type="checkbox"/>	<a href="#">PushNotification</a>	
<input type="checkbox"/>	<a href="#">RichTextEditors</a>	

11. Restart Connections in order to pick up the new configuration.

## Single-Sign-On between Domino and Websphere

OnTime relies on Single-Sign-On (SSO) being configured between the Websphere node(s) hosting IBM Connections and the Domino server hosting the OnTime Group Calendar Web database. This is accomplished using HTTP cookies and exchanging cryptographic information.

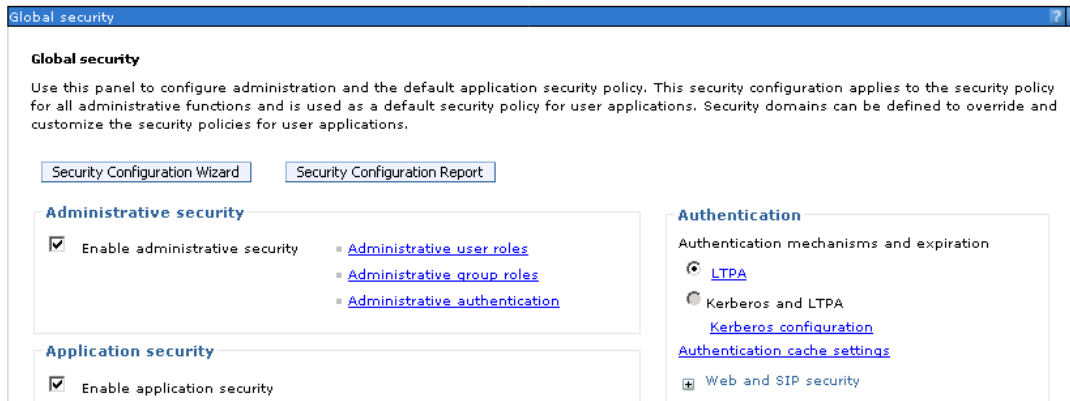
### Configuring Single-Sign-On

The final step is to make sure, that the IBM Connection server and IBM Lotus Domino Server, on which the OnTime Group Calendar Web database is located, are configured for Single-Sign-On (SSO) so that credentials generated by one server is accepted by the other and the other way around.

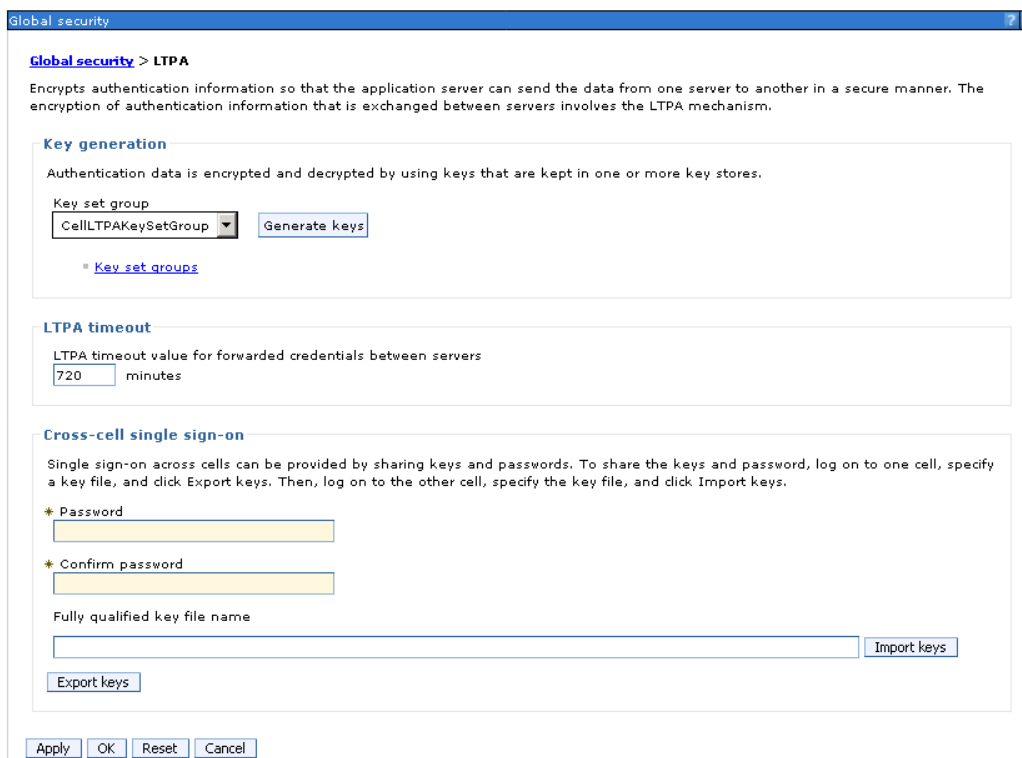
If you know that SSO is properly configured, you may skip this section. To verify SSO, please refer to **Verifying Single-Sign-On is correctly configured.**

For detailed information on how to configure SSO in IBM Lotus Domino refer to the product help.

First, log in to the Integrated Solutions Console (ISC) on the WAS Deployment Manager, then expand the “Security” section on the left and click the “Global Security” link:

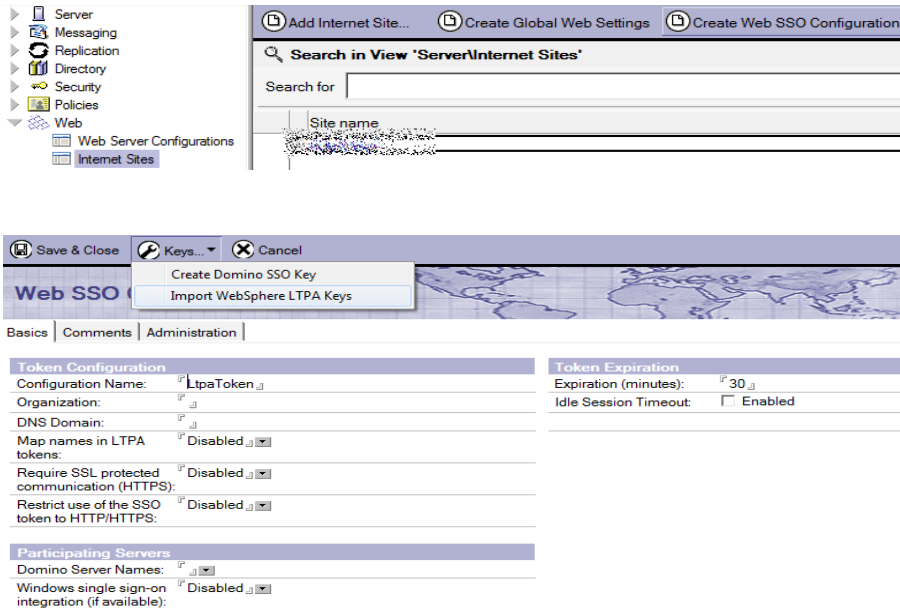


On the right-hand side of the “Global Security” screen click the “LTPA” link and you will be presented with the following screen:



In the “Cross-cell single sign-on” section you have the option to export the keys used for SSO. Specify a filename (example: c:/ltpatoken.txt), a password and then click “Export keys”. Please note that any non-fully qualified path is resolved relative to the WAS profile directory.

To import the keys you just exported into IBM Lotus Domino, open the Domino Administrator client and switch to the “Internet Sites” view. Here you create a new (or edit an existing) SSO Configuration. On the configuration document expand the “Keys” action menu and select “Import WebSphere LTPA Keys”. Specify the path of the keys you exported above and specify the password to unlock the keys.



Remember to include your OnTime server in the 'Participating Servers'/'Domino Server Names'.

## Verifying Single-Sign-On is correctly configured

The simplest way to verify that SSO is properly configured between Domino and IBM Connections is to do the following:

1. Close all browser windows.
2. In the browser enter the URL of a password protected resource on Domino such as the Domino Directory on the server with the OnTime Group Calendar installation (e.g. <http://ontimeserver/names.nsf>) and login.
3. Now, in the same browser window, in a new tab, enter the URL of your Connections server. If you are **not** prompted for username and password, then SSO is correctly configured going from Domino to IBM Connections.
4. Close all browser windows.
5. In the browser enter the URL of your Connections server and log in.
6. Now, in the same browser window, in a new tab, enter the URL of a password protected resource on Domino such as Domino Directory on the server hosting the OnTime Group Calendar installation (e.g. <http://ontimeserver/names.nsf>). If you are not prompted for a password, then SSO is correctly configured going from IBM Connections to Domino.

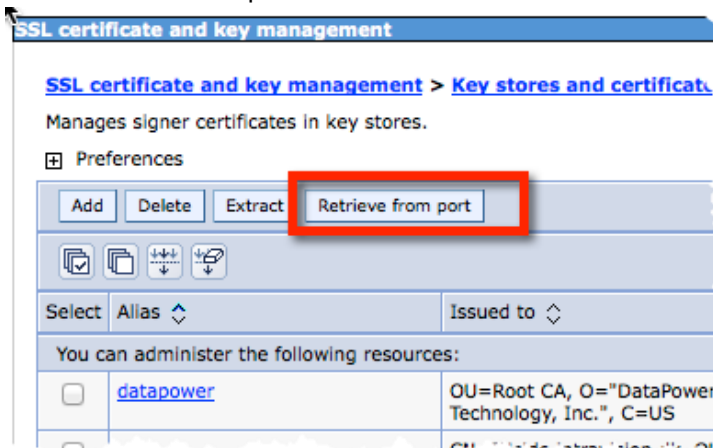
Please note that it is important that both servers are in the same DNS domain (in the above example example.com) as the single-sign-on relies on cookies which are only sent to servers in the same DNS domain.

## OnTime Group Calendar API and SSL

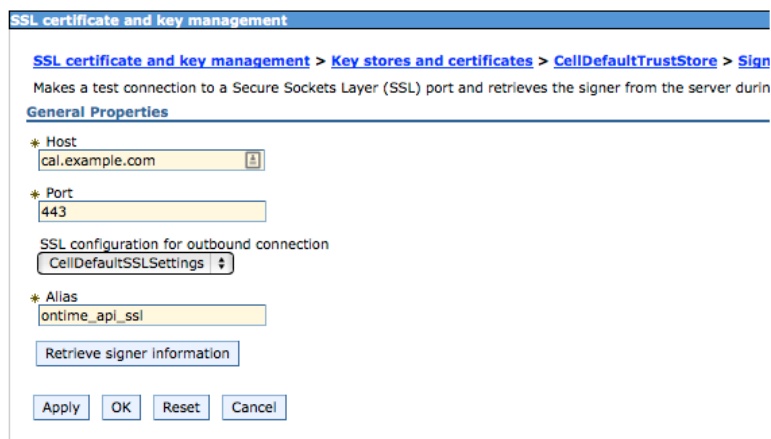
If you're accessing the OnTime Group Calendar API over SSL, you need to trust the certificate from the Domino Server in the WebSphere ISC. Failure to do so will cause the WebSphere Application Server to be unable to access the API.

To trust the certificate perform the following steps:

1. Log into the WebSphere Application Server Integrated Solutions Console (ISC)
2. From the lefthand navigator select Security/SSL certificate and key management
3. In the list of related items on the right click "Key stores and certificates"
4. Click "CellDefaultTrustStore"
5. In the list of "Additional properties" on the right click "Signer certificates"
6. Click "Retrieve from port"



7. Fill out the form with the hostname of the OnTime Group Calendar API and the port you are using for SSL (usually 443)



8. Click the "Retrieve signer information" button to validate the input and retrieve and trust the certificate
9. Click OK and then save the changes to the master configuration.

## Upgrading from OnTime Connections before version 5.3

This section describes the process of removing an older installation of OnTime, from before version 5.3.

1. In the old versions, there were three OnTime 'Enterprise Applications'. The old OnTime applications should be uninstalled.

Open the Integrated Solutions Console (ISC) and log in.  
From the menu on the left select 'Applications'/'Application Types'/'WebSphere Enterprise Applications' to navigate to the application list.  
Select the three OnTime applications and click 'Uninstall'.

2. Remove obsolete OnTime language headers  
Navigate to your IBM Connections customization-directory. The directory is located in your IBM Connections shared files on a network share or on the local hard disk of the WebSphere Application Server depending on your particular installation.

Open the 'strings' subdirectory and remove the 'com.ontimesuite.gc.social.communities.availability'-files from this directory. Beware, there may be many other files in this directory.

3. Remove the old OnTime resources from LotusConnections-config.xml.  
The lines are found between the tags <resources> and </resources>  
The lines containing the following three prefixes are obsolete:

```
prefix="ontimeProfilesCalendar_res"/>
prefix="ontimeCommunitiesAvailability_res"/>
prefix="ontimeCommunitiesCalendar_res"/>
```

Use the Connections wsadmin tool to handle the LotusConnections-config.xml file including updating of version stamp and synchronizing the nodes of Connections.

4. The old widget definitions are not correct for OnTime – Connections version 5.3.

From the widget-config.xml the following configurations must be removed or commented out.  
Use the Connections wsadmin tool to handle the widget-config.xml file.  
Search for 'ontime'.

### Example of the old Profiles widget definition:

```
<!-- OnTime Group Calendar - Social - Profiles for IBM Connections
<widgetDef defId="ontimeProfilesCalendar" bundleRefId="ontimeProfilesCalendar_res"
themes="wpthemeThin wpthemeNarrow wpthemeWide wpthemeBanner"
url="https://connectionsserver/ontime/profiles/Profiles.xml" modes="view">
<itemSet>
    <item name="resourceId" value="{resourceId}"/>
</itemSet>
</widgetDef>
-->
```

### Example of the old ui location:

```
<!-- <widgetInstance defIdRef="ontimeProfilesCalendar" uiLocation="col3"/> -->
```

**Example of the old two Community widget definitions:**

```
<!-- OnTime Group Calendar - Social - Communities for IBM Connections
<widgetDef defId="ontimeCommunitiesAvailability"
bundleRefId="ontimeCommunitiesAvailability_res" modes="view"
showInPalette="false" themes="wpthemeThin wpthemeNarrow"
uniqueInstance="true"
url="https://connectionsserver/ontime/communities/Availability.xml">
<itemSet>
    <item name="resourceId" value="{resourceId}"/>
</itemSet>
</widgetDef>

<widgetDef defId="ontimeCommunitiesCalendar"
bundleRefId="ontimeCommunitiesCalendar_res" modes="view fullpage"
showInPalette="true" themes="wpthemeThin wpthemeNarrow"
uniqueInstance="true"
url="https://connectionsserver/ontime/communities/Calendar.xml">
<itemSet>
    <item name="resourceId" value="{resourceId}"/>
</itemSet>
</widgetDef>
-->
```

**Example of the old ui location:**

```
<!--<widgetInstance defIdRef="ontimeCommunitiesAvailability" uiLocation="col3"/> -->
```

**The task in the Connections UI:**

In the communities where the widget 'ontimeCommunitiesCalendar' has been added, this widget should be removed through the 'Community Actions'.

After having removed the configuration of the old version of OnTime you may proceed to the installation of the new version - **Prerequisites, OnTime Group Calendar – For IBM Connections** .



## Troubleshooting

### Troubleshooting OnTime Servlet installation in Domino

Two examples are described here:

#### Example 1

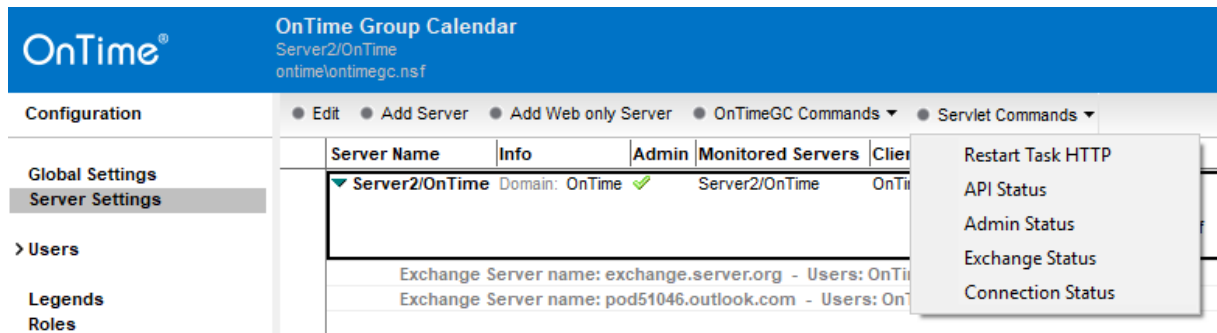
In a browser enter the URL, with your own host reference to the OnTime Domino server:

<http://ontime.example.com/servlet/ontimegcconn>

Because of missing arguments, the response in the browser contains some text – this is OK behaviour. The OnTime servlet in Domino is running.

#### Example 2:

An alternative way is choosing 'Connections Status' below 'Servlet Commands' in Server Settings view:



The screenshot shows the OnTime Group Calendar interface. The top navigation bar includes 'OnTime®', 'Server2/OnTime', and 'ontime\ontimegc.nsf'. Below this is a 'Configuration' section with a table of servers. The 'Server2/OnTime' server is selected, and a dropdown menu is open, showing options: 'Restart Task HTTP', 'API Status', 'Admin Status', 'Exchange Status', and 'Connection Status'. The table below the dropdown lists 'Exchange Server name: exchange.server.org - Users: OnTi' and 'Exchange Server name: pod51046.outlook.com - Users: OnT'.

The response text is OK but subject to change.



The screenshot shows a browser window titled 'Server2/OnTime'. The URL bar contains: `http://ontime2demo.intravision.dk/servlet/ontimegcconn?id=60CF564AF9E6987AC12583440030F742&status`. The response text is: `{ "Status" : "ERROR", "ErrorCode" : "InvalidArguments" }`

## Troubleshooting OnTime Servlet installation in Connections

In a browser enter the URL, with your own host reference to the Connections server:

<https://connections.example.com/otgcrpresolve>

The response:

```
Error 500: java.lang.StringIndexOutOfBoundsException: String index out of range: 16
```

- is OK but it is subject to change

The OnTime servlet in Connections is running.

## SSL issues – Domino 10

Some customers have reported issues with OnTime for IBM Connections when upgrading Domino 9 to Domino 10. It is not actually the OnTime application that fails, but the underlying secure communication layer.

The HTTP JVM, Java Virtual Machine has changed from Domino 9 to Domino 10, errors like 'SSLHandshakeException' has been reported.

The OnTime server is addressing the Connections server when it comes to find members in groups in Communities. When the communication between Domino and Connections is configured for https, a secure connection is established according to the rules for SSL/TLS:

- A trusted root certificate
- A protocol specification, like 'TLSv.1.2'
- A common set of SSL\_Ciphers for encrypting the communication

More debugging has been added to OnTime for IBM Connections ver. 6.1.1. When you open a community with the widget 'Community Calendar' you might miss people from groups. Click 'Refresh' in the options for the widget – you will now see messages in the Domino servers console. If no errors, the Domino console will be quiet.

### No trusted certificate found

We have seen an error like 'SSL HandshakeException' 'No trusted certificate found'. This is a message from the Domino HTTP JVM, the OnTime servlet in Domino is requesting a connection, but the underlying communication does not trust the root certificate of the Connections server. Some root certificates have been removed from the JVM in Domino 10.

Please refer to IBMs description of 'Importing an SSL Certificate Authority into the JVM'

<http://www-01.ibm.com/support/docview.wss?uid=swg21588966>

### Debugging of SSL/TLS protocols and SSL\_Ciphers

Further debugging, with much more data in the Domino console, may be required.

1. Add a notes.ini parameter, in the domino console:  
set con JavaUserOptionsFile=C:\JVM\jvmOptions.txt
2. Create the jvmOptions.txt file in the folder C:\JVM
3. In the .txt file add a line:

```
-Djavax.net.debug=all
```

(Save)

4. Restart Task HTTP

Right after the restart HTTP you will see the initialization of the JVM.

Wait a little, then click refresh in your OnTime Community Calendar widget.

5. Disable logging by entering a # character in front of the parameter in the jvmOptions.txt file  
- restart task http

### Error in negotiation of TLS version

A customer has reported an error 'SSLHandshakeException'. Here the Connections server was configured for TLSv.1.2, but the client, the JVM in Domino 10 failed in the negotiation of protocols. Groups in the OnTime Community Calendar were not resolved.

A parameter 'https.protocols=TLSv.1.2' in the 'jvmOptions.txt' file mentioned above solved the problem. The JVM in Domino 10 is then configured for only TLSv1.2.  
Beware the parameter configures TLSv.1.2 for all servlets and java agents in the JVM.