

# **Integration Guide**



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## V0 – Access to a specified Box folder from within IBM Connections

### Introduction

This document is designed to help you quickly and easily integrate Box into IBM Connections. If you want to do a deeper integration with Box, our APIs are available at <u>http://developers.box.com</u>.

#### Installation

Installing the Box for IBM Connections integration can be done by following these steps:

- 1. Download the JavaScript and widget XML file from https://cloud.box.com/s/110rol11any874ma1fu5
- 2. Host the box JS and XML files on a server. Note that the JS file requires Dojo to be installed so you may want to simply host it on your IBM HTTP Server: **ex:** ../IBM/HTTPServer/htdocs
- 3. Next, you'll need to update the widgets-config.xml file. You can use the <u>check-out/check-in</u> system to accomplish this or you can navigate to the widgets-config.xml file directly: **ex**:

../IBM/WebSphere/AppServer/profiles/<application server name>/config/cells/<node name>/LotusConnections-config

1	LotusCon	ections-config - F	ile Browser
<u>File Edit View G</u>	o <u>B</u> ookmarks <u>H</u> elp		
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Location:	opt/IBM/WebSphere/AppServer/profiles/AppSrv01/	config/cells/connectio	onswwCell01/LotusConnections-config
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😻 Desktop	profiles-policy.xsd	5.1 KB XM	L document Wed 10 Oct
🗇 File System	profiles-types.xml	3.1 KB XM	L document Wed 10 Oct
loppy Drive	profiles-types.xsd	2.8 KB XM	L document Wed 10 Oct
	proxy-config.tpl	22.3 KB XM	L document Wed 10 Oct
	proxy-config.xsd	6.0 KB XM	L document Wed 10 Oct
	search-config.xml	3.4 KB XM	L document Wed 10 Oct
	search-config.xsd	21.3 KB XM	L document Wed 10 Oct
	service-location.xsd	12.1 KB XM	L document Wed 10 Oct
	socialmail-discovery-config.xml	1.6 KB XM	L document Sat 13 Oct 2
	socialmail-discovery-config.xsd	6.5 KB XM	L document Sat 13 Oct 2
	📄 uiextensions-config.xml	1.7 KB XM	L document Wed 10 Oct
	iuiextensions-config.xsd	3.1 KB XM	L document Wed 10 Oct
	widgets-config.xml	45.4 KB XM	L document Sun 20 Jan 2
	widgets-config.xsd	11.0 KB XM	L document Wed 10 Oct



4. Add the widget definition to the config file under the community resource tag:

<widgetDef defId="Box" primaryWidget="true" modes="view edit" description="Widget to allow a community access and sharing to external parties via Box" iconURL="http://box.com/favicon.ico" url="http://connectionsww.demos.ibm.com/boxWidget.xml" helpLink="http://support.box.com"/>

5. From WebSphere restart Profiles and Communities applications from your Connections Server

Integrated Solutions Console Welcome wasadmin		Help Logout
View: All tasks	Enterprise Applications Use this page to manage installed applications. A single application c	an be deployed onto multiple servers.
Guided Activities	Preferences     Please Wait	
E Servers	Start Stop Install	out Update   Remove File   Export   Export
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<ul> <li>Business-level applications</li> </ul>	Select Name ≎	Application Status 🙅
Assets	You can administer the following resources:	
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Replication domains	Dogear	7
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Users and Groups	Help	\$
Monitoring and Tuning	Homepage	÷
Troubleshooting	Metrics	\$
Service integration		\$
	Mobile Administration	
	Moderation	<b>↔</b>
	<u>News</u>	⇒
	Profiles	*
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- 6. Navigate to your community and under Community Actions select Customize
- 7. Click on the plus to add the Box widget



es Community						Stop	Following
udd Content							
6 Box	+	🗄 Linked Library	+	🛍 Blog	+	🖌 Ideation Blog	+
Activities	+	I Wiki	+	(ii) Subcommunities	+	Bookmarks	+
Feeds	+	Files	+	Media Gallery	+	(i) Related Communities	+
- 12 widgets of 12							

8. Click the drop down and select Edit. Insert your Box embed iframe code into the HTML section. Save the file.

Box	-
Instructions: Specify the Embed code for the folder you want to embed.	
HTML:	
<iframe blue"<="" src="https://box.com/embed_widget/000000000000/files&lt;br&gt;/0//0?view=expanded&amp;sort=name&amp;direction=ASC&amp;theme=" td=""><td></td></iframe>	
width="600" height="400" frameborder="0">	
Title (e.g. Box.net Files):	
Box Files	
Save Cancel	

9. Log in using your Box credentials





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Client Information		<ul> <li>Open</li> <li></li></ul>
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West Region	Send Link to Polder	Move or Copy
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## **Option 1: Access to user's root folder**

#### **Scenario**

Incorporate core Box functionality into IBM Connections to give users direct access to all of their content in the cloud without having to leave the IBM Connections experience. If there are specific file actions that are enabled, they will also be accessible from within the embedded Box user experience. (There may be some constraints/UI issues with file actions if the widget size is too small.)

In this case, the Box embedded widget will open for the user at their root folder so they immediately have a comprehensive view of their Box content.

#### **Box instructions**

The steps to set this up from the Box side are pretty straightforward. For a basic, embedded root folder, copy <iframe src="https://www.box.com/embed\_widget/00000000000/files/0/f/0 frameborder="0"></iframe> and paste it into step 7 of the installation guide.

## **Option 2: Access to consistent IBM Connections folder**

#### **Scenario**

Incorporate core Box functionality into IBM Connections to give users direct access to all of their content in the cloud without having to leave the IBM Connections experience. In this case, the focus will be on a folder where you can store frequently accessed content and standardized materials. If there are specific file actions that are enabled for IBM Connections, they will also be accessible from within the embedded Box user experience. (There may be some constraints/UI issues with file actions if the widget size is too small.)

In this case, the Box embedded widget will open for the user at a folder dedicated to IBM Connections so users immediately have view of Box content relevant to that community. In addition, users will be able to navigate to their root folders to access all of their Box content. Alternatively, as an admin, embedded Box can be pointed to an existing folder if it makes more sense for the use case.

A deeper integration with Box is also possible using our APIs. These can be used to programmatically create and generate the embed code for folders. API documentation is available at http://developers.box.com.

#### **Box instructions**

The steps to set this up from the Box side are pretty straightforward.

- 1. Create a folder in the Admin root directory called IBM Connections (or something related to IBM Connections).
- 2. Invite all users that should have access (at a minimum, all users who have access to IBM Connections) as collaborators to that folder.



3. Select that folder in Box and right click or click on "Folder Options"-> Share -> Embed Folder in Your Site

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Invite Collaborators Get Link to Folder Send Link to Folder Embed Folder in Your Site		Share		
		Add Tags		
		Sync Folder to Desktop		
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Share 🎅 :tivities" Share 🎅	<ul> <li>Open</li> <li>Upload to this</li> <li>Download Fo</li> <li>Share</li> <li>Add Tags</li> <li>Sync Folder to</li> <li>Folder Property</li> </ul>	Ider Invite Collaborators Get Link to Folder Send Link to Folder Embed Folder in Your Site		

4. Set preferences for the embedded folder, including size, cooler, etc. Copy the URL as created by Box once the settings are confirmed.



#### BOX FOR IBM CONNECTIONS INTEGRATION GUIDE

Share Great folder for testi	ng t 👌 Open Access	• ? ×
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Size:	View:	
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Height:	Theme:	
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Embed code:	Preview this em	bed 🛛
<pre><iframe 400"="" frameborder="0" src="https://www.box.com/embed_widget/4 ?view=expanded&amp;sort=name&amp;direction=A&amp; height="></iframe></pre>		7b517
Copy to Clipbo	ard Close	

To add the folder to your home page, follow the instructions listed in the installation process. In step 7, use the obtained in the Box UI:

```
Box Embed Code:
<iframe src="https://www.box.com/embed_widget/4c1a88851593/s/
https://www.box.com/embed_widget/81a8e7b1f099/s/70244d780785fd0
7b517?view=expanded&sort=name&direction=ASC&theme=blue"
width="500" height="400" frameborder="0"></iframe>
```

## Appendix: Parameter options for the Widget

Below is a list of the current parameters that you can pass to the widget.

Example embed widget iframe:

<iframe

```
src="https://www.box.com/embed_widget/123456789012/s/0190ee4f6f7c8b012
345?view=expanded&sort=name&direction=ASC&theme=blue" width="500"
height="400" frameborder="0"></iframe>
```

## Acceptable Widget URL Structure

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<u>https://www.box.com/embed\_widget/</u><widget\_hash>/s/<shared\_name>

#### BOX FOR IBM CONNECTIONS INTEGRATION GUIDE



- <u>https://<custom\_subdomain>.box.com/embed\_widget/</u><widget\_hash>/s/<s hared\_name>
- https://www.box.com/embed\_widget/0000000000/files/0/f/0
- <u>https://<custom</u> subdomain>.box.com/embed\_widget/0000000000/files/0/f/0

<widget\_hash> are 12-character alphanumeric (lowercase) strings that is used to store configurations about the widget. This hash does not actually hold any secure information about the user, it is used primarily for saving the view, sort, root folder, and theme of the widget.

The widget\_hash is typically generated at the time of creation. It is merely used to retain display configurations for the widget and is arbitrary. Here are some example widget hashes:

widget\_hash = 123456789012 is a valid hash widget\_hash = a1b2c3d4e5f6 is also a valid hash

Since the <widget\_hash> cannot be obtained easily, all zeros will work as well.

<shared\_name> is the shared url identifier that is found when sharing a link.
For example, on the Box Website, right-click on the target folder and click on Share
=> Get Link to Folder. This will show you a popup with something
like <a href="https://www.box.com/s/0190ee4f6f7c8b012345">https://www.box.com/s/0190ee4f6f7c8b012345</a>. Please note that the HTML folder only works for shared
folders (which means no files/webdocs,gsheet, etc)

## Thus a full example would

be <u>https://www.box.com/embed\_widget/123456789012/s/0190ee4f6f7c8b01234</u> <u>5</u> given that the shared\_name 0190ee4f6f7c8b012345 exists and is openly accessible. If the shared link has restrictions on it such as collaborator access only, then the user will be prompted with a login screen. (Please note that for security reasons, we will be moving towards a popup login screen where the URL is visible as <u>box.com</u>).

## Configuration Params (passed as a GET param)

<u>view</u> Accepted Values: [list, icon]

**Note:** "expanded" is also accepted which is actually the same as list. We use it in the webapp, but external users can definitely just use list. Description:



Changes the default layout of the files listings to a list view or an icon view. This setting persist throughout their session and can be modified via the "Options" Menu. "Options"=>"View"=>"As List" or "As Icons"

<u>sort</u> Accepted Values: [name, date, size]

Description:

Changes the default sorting of files. This setting persist throughout their session and can be modified via the "Options" Menu. "Options"=>"Sort"=>"Date" or "Name" or "Size"

<u>direction</u> Accepted Values: [asc, desc] - ascending/descending respectively

Description:

Changes the default sort direction of files. This setting persist throughout their session and can be modified via the "Options" Menu. "Options"=>"Sort" and clicking on the existing sort will modify the direction

<u>theme</u> Accepted Values: [blue, gray]

Note: 'gray' (American) not 'grey' (British)

Description: Changes the default color scheme. This setting will persist throughout the widget. The gray theme is intended to be more neutral.

#### Sizing Parameters

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*width* and *height* parameters are required on the actual iframe and are not passable as GET params.

#### <u>width</u>

Accepted Values: min supported value: 330px

max supported value: no limit but we recommend a max of 1000px, 100% can be used but we do not openly support percentage width widgets.

Comments:

**Box Confidential** 



This determines both the size AND functionality of the widget. Smaller widgets (<500px) have less functionality than Medium widgets (500px=>799px) which also have less functionality than large widgets (>=800px)

Example: Commenting and edit-in-place is disabled for smaller widgets

<u>height</u> Accepted Values: min supported value: 400px max supported value: no limit

Comments: Height does not affect functionality.

"supported value" implies that we do not fix issues for widgets smaller than 330px. At this time, we only fully support Medium and Large widgets. Small Widgets are still being worked through.

In addition, we recommend adding **frameBorder="0"** to the iframe so width calculations work correctly on all browsers.