

Accelerating hybrid application development by reusing resources

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Configuring application components and project template preferences

To add application components or MobileFirst project templates, you must identify a download folder.

The download folder must contain only the application components or the MobileFirst project template archives.

Set the download folder in **Preferences > MobileFirst > Templates and Components > Download Folder**.



Application components

An application component is a reusable library that developers can add to their applications. It can be a client-side library or a server runtime block.

Application components must be downloaded in the **Download folder** that is specified in the **Window > Preferences > MobileFirst** menu.

Application components support only MobileFirst hybrid projects.

Creating application components

To create application components, you make sure that a MobileFirst hybrid project exists and you select the resources that you want to include.

Note: Only *hybrid* projects can be used to create application components.

The created application component is in archive format.

1. Right-click the MobileFirst hybrid project and select **Create Application Component**.



A wizard guides you through the process of creating the application component. For more information about this wizard, see the user documentation.

2. In the first page of the wizard, enter metadata information for the application component.

The screenshot shows the first step of the 'Create Application Component' wizard. The title bar reads 'Create Application Component'. Below the title, the instruction says 'Provide the application component metadata information.' The form contains the following fields:

- ID:** MyComponent-9a83-4694-aa9b-f822d11054f2
- Name:** My Component
- Author:** IBM
- Version:** 1.0.0
- Description:** This is a sample application component.
- Image:** A placeholder icon with a 'Browse ...' button next to it.
- Application:** HelloApp (selected from a dropdown menu)

At the bottom, there are navigation buttons: '< Back' (disabled), 'Next >' (active), 'Cancel', and 'Finish' (disabled).

3. In the next page of the wizard, select the files that you want to include in the application component archive.

The screenshot shows the second step of the 'Create Application Component' wizard. The title bar reads 'Create Application Component'. Below the title, the instruction says 'Provide the application component files and destination.' The form contains the following elements:

- Select the files to archive:** A tree view on the left shows a file system structure. The 'HelloApp' folder is expanded, and the 'common' sub-folder is selected. A file 'index.html' is listed in the right pane and is checked for selection.
- Component archive:** A text field contains the path '/Users/user1/Documents/MyComponent.wlc'. A 'Browse ...' button is next to it.

At the bottom, there are navigation buttons: '< Back' (active), 'Next >' (disabled), 'Cancel', and 'Finish' (active).

After the application component archive is created, if you want to add more optional hooks to enable automation when the application component is used, refer to the topic about adding hooks to an application component, in the user documentation.

Adding application components

You can add application components only to MobileFirst hybrid applications.

1. Before adding any application component, open an existing hybrid project or create one.
Basic information about the application components is displayed.
The application components are loaded from the configured **Download folder**.
2. Right-click the MobileFirst hybrid project and select **Add/Remove Application Components**.



The application components are scanned in the Download folder.

Only valid application components are displayed in the Add and Remove Application Components wizard.

Each component is displayed along with the Thumbnail, Name, Author and Version, next to a checkbox.

The application components that you select are installed in the target MobileFirst project.



The addition status of the application component is displayed after the activity is completed.
The component resources are marked with the unique ID of the application component.



3. Ensure that the required MobileFirst environments are created before you add the application component, otherwise error messages are displayed.

If the required Android SDK is not installed on the hosting MobileFirst Studio, the appropriate message is displayed.

If the contents of the application components or the MobileFirst applications are renamed, the linkage with the application component is broken.

The application component files are read-only and you cannot modify them.



Removing application components

1. Right-click a MobileFirst hybrid project and select **Add/Remove Application Component**.
2. Select the application that you want to remove.

Marks in the **In Use** column indicate the installed application components for this particular MobileFirst hybrid project.

3. Clear the marks next to the application components that you want to remove.



When you remove application components, you are prompted to confirm whether to roll back the resource to its original content. For example, if you remove a `UserPermission` element, you are prompted to confirm the removal.

The removal status of the application component is displayed after the removal activity is done.

On successful removal of the application components, the original contents of the MobileFirst hybrid project resources are restored.



MobileFirst project templates

By using MobileFirst project templates, you can develop applications faster by not having to start from scratch.

You can use MobileFirst project templates to provide value-added services; you can add elements that are consistent with the look-and-feel of your brand.

MobileFirst project templates are of hybrid type only.

MobileFirst project templates that are created from a more recent version of IBM MobileFirst Platform Foundation are not supported in previous versions.

Creating MobileFirst project templates

You can export MobileFirst hybrid projects as templates for reusability.

1. Right-click a MobileFirst project and click **Export > IBM MobileFirst > MobileFirst Project Template**.



2. On the Export page, enter basic information for the MobileFirst project template, such as **Template name**, **Author**, **Description**, **Thumbnail**, and **Template archive**.

Valid extensions for Template archives are `.zip` and `.wlt`.

All the fields are mandatory in this wizard.

The Template archive is created at the selected location.

The structure of the Template archive is described in the documentation.



Adding MobileFirst project templates

Use the **Shared Templates** option to create a MobileFirst project from a template.

1. Click the **Create a MobileFirst Artifact** icon on the toolbar. For more information, see the user documentation.
2. In the **Name** field, provide a name for the MobileFirst project.
3. From the **Project Templates** list, click **Shared Templates**.
4. Click **Next**.



The MobileFirst project templates are loaded from the configured Download folder (as explained in Configuring application components and project template preferences).

5. Provide an application name.
6. Select a MobileFirst project template.

A MobileFirst hybrid project is created with the contents of the MobileFirst project template archive.



7. To view the FIXME tags, if any, click **Project > Properties > General > Editors > Structured Text Editors > Task Tags**.
 1. Click **Enable searching for Task Tags**.
 2. Click **Apply > OK**.
 3. A **Task** tab is visible with the Tasks to be done.

2 Items					
	Description	Resource	Path	Location	Type
❗	FIXME : Update the template configuration	main.js	/ProjectFromTempl...	line 16	JavaScript Task
❗	FIXME: Update index.html content	index.html	/ProjectFromTempl...	line 21	HTML Task

