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Introduction

Mashups enable your mashup sites in SharePoint to display dynamic, up-to-the-minute integrated data that is specifically relevant to your organization and customers. As part of your mashup sites, Web Part Pages allow you to construct dashboards that give viewers a coherent and multi-faceted source of information. Including mashups in dashboards is a powerful way to gather relevant data for research and analysis. Publishing mashups as Web Parts allows you to use mashup data on a Web Part Page in an easily readable table format, similar to a list view.

Apps are easily created using Presto and Mashup Sites for SharePoint. Apps combine mashups or other information sources with one or more views of that information including charts, tables and maps. Different views can convey information in more accessible, effective, and memorable formats. In addition to merely displaying data, you can use Apps to connect to a remote web service to view, update, add, or remove data. For instance, you could input travel expenses in a simplified form.

Apps can also be combined to work together in dashboards or workspaces. Apps can be published in SharePoint as native Web Parts and combined with other native Web Parts. App Web Parts support deep integration with SharePoint and thus support communication with other Web Parts on the same SharePoint page using SharePoint’s Web Part communication framework. Apps are easily shared with others in the Presto App Store, Enterprise Java Portals, SharePoint or any web page.

The basic tasks you complete to add Apps or mashups to SharePoint pages are:

1. Create a Web Part Page
2. Add a Mashup Web Part to a Web Part Page or Add an App Web Part to the Web Part Page
3. Publish a Mashup to a Mashup Web Part or Publish an App to an App Web Part

In addition to adding mashups or Apps to Web Part Pages in SharePoint, you can also use information in SharePoint lists in Presto as a mashable information. To use list information in Presto, see Register a List as a Presto Mashable.

Create a Web Part Page

You control and customize the layout and content of a Web Part page. A page is composed of one or more Web Parts that may contain Apps, mashups or other information from inside and outside of SharePoint.

To create a Web Part page:

1. Click Site Actions > More Options. The Browse Actions window opens.
2. Filter actions by **Page** and choose **Web Part Page**.
3. Name your Web Part Page and set the Overwrite option if this page should overwrite an existing page with the same name in the document library. This is the file name that appears in headings and links throughout the site.

4. Select a layout from the **Choose a Layout Template** list. A preview of the selected layout appears to the left.

5. Choose the **Document Library** where you want the Web Part Page to be saved.

6. Click **Create**.

   The new Web Part page opens in **Edit Mode** with zones displayed, based on the layout you selected, where you can add Web Parts.

   ![Choose a Layout Template](image)

   ![Edit Mode](image)

   In **Edit Mode**, you can use the toolbar that appears above the page layout to edit page properties, delete the page, edit title properties or perform other actions. Use **Edit Title Bar Properties** to change the page title or add a caption, description, or image.

   You can now **Add a Mashup Web Part to a Web Part Page** or **Add an App Web Part to the Web Part Page** and then publish mashups or Apps to these Web Parts.
Add a Mashup Web Part to a Web Part Page

In order to publish mashups to a Web Part Page, you must add one or more Mashup Web Parts to the zones of that page. The Web Part page must be in Edit Mode. You then publish mashups to each Mashup Web Part to display data from those mashups in table format.

1. Click Add a Web Part in the zone on your Web Part page where you would like to place a mashup. Web Part filters open:

2. Select the JackBe Mashup Sites for SharePoint category and click Mashup Web Part.

3. Click Add (in the bottom right corner).

4. Continue editing this Web Parts page. You can:
   - Add appropriate Web Parts to other zones on the page.
   - Edit the properties for your Mashup Web Part, or any Web Part on the page. See Update Mashup Web Part Properties for more information.
   - Select and drag Web Parts to move them to other zones.

5. Once you are finished adding and modifying Web Parts, click Stop Editing in the Web Part page toolbar. The page returns to the normal display mode, with a Mashup Web Part and toolbar in the zones you have selected.
You can now **Publish a Mashup to a Mashup Web Part.**

**Publish a Mashup to a Mashup Web Part**

Once you have stopped editing your Web Part page, you can select the specific mashup to use in any Mashup Web Part on your page from the Mashup Gallery. The Mashup Gallery lists mashup names, descriptions and the Mashup Server (in the Server field) that hosts each mashup.

1. Click **Publish Mashup** from the toolbar in any of the Mashup Web Parts on your page.
2. If prompted, enter credentials to log in to the Mashup Servers you want to work with. You can also **Skip** specific Mashup Servers. Mashups from the Mashup Servers that you skip will not be listed.

   **Note**: do not include the Windows domain in your username, such as mydomain\mynname, when you log in. The Mashup Server does not accept domain names. You may also need to add Mashup Servers to your list of trusted sites or change your cookie preferences to allow session cookies. If you still receive login errors, check with your Presto administrator.

   The Mashup Gallery opens displaying a list of mashups. This list is cached and refreshes periodically. Use **Refresh** to manually refresh this list.
You can filter the list of available mashups by category, by provider or enter a partial name in the search field.

3. Select the mashup you want to add to this Web Part.
4. If the mashup has input parameters, update these parameters as needed.
5. Click Finish.
The mashup you selected displays in the zone for this Web Part and, if you have appropriate permissions, includes a toolbar with actions for this mashup. See Mashup Web Part Toolbar for more information. See also Update Mashup Web Part Properties for other tasks you can perform, such as changing mashup columns.

**Mashup Web Part Toolbar**

If you have permission to edit a Web Part Page, the mashup displays a toolbar with editing actions. The actions that appear in the toolbar change based on the status of the Web Part.

Actions on this toolbar include:
Log Out ends your session with the Mashup Server for this mashup. You can then log back in using different credentials. Simply click Log Out, enter another username and password and click Log In.

Publish Mashup allows you to find and add a different mashup to this Mashup Web Part. See Publish a Mashup to a Mashup Web Part for instructions.

Clear Mashup removes the current mashup in this Mashup Web Part. Use Publish Mashup to find and add a different mashup.

Publish to List creates a SharePoint list in the current site with a snapshot of the data currently shown in this mashup. This creates a view named Presto for this new SharePoint list. The title for the new list is the mashup’s name. If a list with that title already exists in the current site, a Date/Time stamp is added to distinguish the two.

Update Mashup Web Part Properties

You can update Web Part properties to make changes to the appearance, layout and advanced features of the Web Part. Changes you make to the Web Part properties are visible to anyone viewing the published Web Part Page.

To edit Mashup Web Part properties, click the down arrow in the right corner of the Mashup Web Part title bar and select Edit Web Part.

This puts the page in Edit Mode and opens the Web Part Properties pane for this mashup:
In addition to the standard Web Part properties, Mashup Web Parts have two additional categories or properties: JackBe UI Settings and Presto Mashup. Use the properties in these categories to Change the Web Part Title, Change the Mashup Server Connection or Change the Mashup ID. See also Update Mashup or App Input Parameters.

**Change the Web Part Title**

You control whether the Web Part title is automatically generated or is editable with the Override Web Part Title option in the JackBe UI Settings category of the Web Part properties.

This option is set by default which causes the Web Part title to be generated automatically in the form Mashup: *mashup-title*. Clear this option to be able to enter your own title for the Web Part.

To change the title, once you have cleared this option, expand the Appearance category and enter a new title.

Then click Ok to save your changes and close the Web Part properties task pane or click Apply to save your changes and continue updating properties.

**Change the Mashup Server Connection**

You can change which Mashup Server this Web Part connects to using these Web Part properties in the Presto Mashup category:
- **Mashup Server**: select another Mashup Server from the list of servers that are visible in the current site. When you select a Mashup Server, this also sets the Presto URL, Presto version and SSO Application ID properties. This also determines whether SSO authentication and cookie forwarding are applicable.

  *Note: the single sign on feature in Mashup Sites for SharePoint works with the SharePoint Secure Service Store service to enable users to automatically log in to multiple Mashup Servers without having to sign in to each.*

- **Override Mashup Server**: this option is not set by default. Set this option to override the default Mashup Server connection information.

- **Presto Host**: this property is only accessible if you have set the override property. Change this to the URL for the Mashup Server this Web Part should connect to. Enter the URL in the form: `http://mashup-server-address:port`

- **Presto Version**: this property is only accessible if you have set the override property. Enter the Presto version number in use in the Mashup Server that this Web Part should connect to.

- **SSO Application Name**: this property is only accessible if you have set the override property. Enter an SSO application name here to enable SSO support when connecting to this Mashup Server.

  SSO applications are configured by the SharePoint farm administrator. If SSO is not enabled, you and other users of the published page must enter Presto credentials when viewing the Mashup Web Part.

  Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

**Change the Mashup ID**

This task should only be performed by developers or advanced users. You can change which mashup displays in the Web Part by changing the **Mashup ID** property in the Presto Mashup category.

Enter the Presto ID of the mashup to display in this Web Part. This ID must exist in the Mashup Server defined in Web Part properties.

Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

**Register a List as a Presto Mashable**

You can use information from SharePoint Lists in Presto mashups or Apps by registering Lists as a “mashable information source.” To register a List in Presto:

- Open a list and click **List** in the List Tools tab.
- Select **Register List**.
If desired, change the **Name** or **Description** to assign to the Presto mashable. The name defaults to the List title.

If this List has views, choose the specific view you want to use for this Presto mashable.

In **Publish To**, select the Mashup Server where you want to register this List.

If needed, provide the username and password to log into this Mashup Server. These credentials become the owner in Presto for the new mashable.

Click **Submit** to register the List as a mashable.

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**Update Mashup or App Input Parameters**

Input parameters allow mashups and Apps to produce and display information that is tailored to your specific needs. For example, a mashup to find businesses within a given location might have input parameters for the type of business to find and for the city and state to use as the location. Input parameters may also determine how to filter information or how to sort it, among many other functions.

Not all mashups or Apps have input parameters, not all input parameters are required. If a mashup or App does have input parameters, fields in the Mashup Gallery or App Gallery allow you to customize the mashup or App when you publish them to Web Parts.

You can also edit mashup or App input parameters in the Web Part Properties pane for the mashup or App Web Part. To edit input parameters:

1. Click the down arrow in the right corner of the Mashup or App Web Part title bar and select **Edit Web Part**.
This puts the page in Edit Mode and opens the Web Part Properties pane for this App:

2. Find the input parameter fields in the **Presto Mashup** or **Presto App** category.

3. Update the input parameter values and click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

### Add an App Web Part to the Web Part Page

In order to publish Apps to a Web Part Page, you must add one or more App Web Parts to the zones of that page. The Web Part page must be in Edit Mode to add Web Parts. You then publish Apps to each App Web Part.

1. Click **Add a Web Part** in the zone on your Web Part page where you would like to place an App. Web Part filters open:
2. Select the **JackBe Mashup Sites for SharePoint** category and click App Web Part.
3. Click **Add** (in the bottom right corner).
4. Continue editing this Web Parts page. You can:
   - Add appropriate Web Parts to other zones on the page.
   - Edit the properties for your App Web Part, or any Web Part on the page. See [Update App Web Part Properties](#) for more information.
   - Select and drag Web Parts to move them to other zones.
5. Once you are finished adding and modifying Web Parts, click **Stop Editing** in the Web Part page toolbar. The page returns to the normal display mode, with an App Web Part and toolbar in the zones you have selected.
You can now **Publish an App to an App Web Part.**

**Publish an App to an App Web Part**

Once you have stopped editing your Web Part page, you can select the specific App to use in any App Web Parts on your page. The App Gallery lists App names, descriptions and the Mashup Server (in the Server field) that hosts each App.

1. Click **Publish App** from the toolbar in any of the App Web Parts on your page.
2. If prompted, enter credentials to log in to the Mashup Servers you want to work with. You can also **Skip** specific Mashup Servers. Apps from the Mashup Servers that you skip will not be listed.

   **Note:** **do not** include the Windows domain in your username, such as `mydomain\myname`, when you log in. The Mashup Server does not accept domain names. You may also need to add Mashup Servers to your trusted sites or change your cookie preferences to allow session cookies. **If you still receive login errors, check with your Presto administrator.**

   The App Gallery opens displaying a list of Apps. This list is cached and refreshes periodically. Use **Refresh** to manually refresh this list.
You can filter the list of available Apps by category, by provider or enter a partial name in the search field.

3. Select the App you want to add to this Web Part.
4. If the App has input parameters, update these parameters as needed.
5. Click Finish.
The App you selected displays in the zone for this Web Part and, if you have appropriate permissions, includes a toolbar with actions for this App. See App Web Part Toolbar for more information. See also Update App Web Part Properties for other tasks you can perform.

### App Web Part Toolbar

If you have permission to edit a Web Part Page, the App displays a toolbar with editing actions. The actions that appear in the toolbar change based on the status of the Web Part.

Actions on this toolbar include:
Log Out ends your session with the Mashup Server for this mashup. You can then log back in using different credentials. Simply click Log Out, enter another username and password and click Log In.

Publish App allows you to find and add a different App to this App Web Part. See Publish an App to an App Web Part for instructions.

Clear App removes the current App in this App Web Part. Use Publish App to find and add a different mashup.

Sandbox App or Embed App is a toggle button to isolate (sandbox) or remove isolation (embed) around an App in a Web Part page. You should apply a sandbox (isolate an App) if publishing an App into the Web Part Page changes the layout of the Web Part Page. Use the Embed App toolbar to remove a sandbox previously applied to this App.

Note: site administrators can also set a default for this property for all Apps in the site.

Isolating the App in a sandbox puts the App in an iFrame and isolates the styling (CSS) and layout of the App from any other Web Parts. This prevents overriding of styling on the page if the App and other elements on the Page have conflicting styling.

Update App Web Part Properties
You can update Web Part properties to make changes to the appearance, layout and advanced features of an App Web Part. Changes you make to the Web Part properties are visible to anyone viewing the published Web Part Page.

To edit App Web Part properties, click the down arrow in the right corner of the App Web Part title bar and select Edit Web Part.

This puts the page in Edit Mode and opens the Web Part Properties pane for this App:
In addition to the standard Web Part properties, App Web Parts have two additional categories of properties that you can update: JackBe UI Settings and Presto Mashup. Use these properties to Isolate App Styling and Layout, Hide/Show the App Title, Change the Web Part Title, Enable Anonymous Access, Change the Mashup Server Connection or Change the App ID.

**Isolate App Styling and Layout**

You control whether App styles and layouts are isolated from the Web Part page with the Sandbox App option in the JackBe UI Settings category. Set this option if publishing an App into the Web Part Page changes the layout of the Web Part Page. Or clear this option to remove the isolation applied to an App previously.

Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

**Hide/Show the App Title**

You control whether the App Title displays along with the Web Part title with the Disable Header option in the JackBe UI Settings category. This option is enabled by default which hides the App title, displaying only the Web Part title. Because both of these titles are typically identical or very similar, the default setting hides the duplication.

Clear this option if you want to display the App title. You can also choose to hide the Web Part Title by setting the Chrome Type property in the Appearance category to None.
Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

**Change the Web Part Title**

You control whether the Web Part title is automatically generated or is editable with the **Override Web Part Title** option in the JackBe UI Settings category of the Web Part properties.

This option is set by default which causes the Web Part title to be generated automatically in the form **App: app-title**. Clear this option to be able to enter your own title for the Web Part.

To change the title, once you have cleared this option, expand the **Appearance** category and enter a new title.

Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

**Enable Anonymous Access**

Anonymous access allows guest users who are not logged in to view and work with an App. You only need to set the **Enable Anonymous Access** option for an App Web Part if guest users should have access and neither SSO nor cookie forwarding is in use with this site to automatically provide user credentials.

**Change the Mashup Server Connection**

You can change which Mashup Server this Web Part connects to using these Web Part properties in the Presto App category:

- **Mashup Server**: select another Mashup Server from the list of servers that are visible in the current site. When you select a Mashup Server, this also sets the Presto URL, Presto version and SSO Application ID properties. This also determines whether SSO authentication and cookie forwarding are applicable.

  *Note: the single sign on feature in Mashup Sites for SharePoint works with the SharePoint Secure Store service to enable users to automatically log in to multiple Mashup Servers without having to sign in to each.*

- **Override Mashup Server**: this option is not set by default. Set this option to override the default Mashup Server connection information.

- **Presto Host**: this property is only accessible if you have set the override property. Change this to the URL for the Mashup Server this Web Part should connect to. Enter the URL in the form: `http://mashup-server-address:port`

- **Presto Version**: this property is only accessible if you have set the override property. Enter the Presto version number in use in the Mashup Server that this Web Part should connect to.

- **SSO Application Name**: this property is only accessible if you have set the override property. Enter an SSO application name here to enable SSO support when connecting to this Mashup Server.

  SSO applications are configured by the SharePoint farm administrator. If SSO is not enabled, you and other users of the published page must enter Presto credentials when viewing the Mashup Web Part.
Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.

**Change the App ID**

This task should only be performed by developers or advanced users. You can change which App displays in the Web Part by changing the **App ID** property in the Presto App category.

Enter the Presto ID of the mashup to display in this Web Part. This ID must exist in the Mashup Server defined in Web Part properties.

Then click **Ok** to save your changes and close the Web Part properties task pane or click **Apply** to save your changes and continue updating properties.