OZONE Store

Store User's Guide

August 22, 2014

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Note: This revision history addresses the Marketplace project. The term Marketplace and Store are used interchangeably.

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1   Introduction

1.1   Objectives

This guide provides an introduction and instructions for using the OZONE Store's general features and functions. Separate guides explain administrative features and configuration settings. This document references the Store (the term *Store* is used interchangeably with Marketplace).

The Store can operate as an independent application or within the OZONE Widget Framework (OWF). This document will explain the different operations of the Store when used independently or as an integrated program with OWF.

The following figures display the two potential sign in experiences:

Figure 1: OZONE Store running in OWF
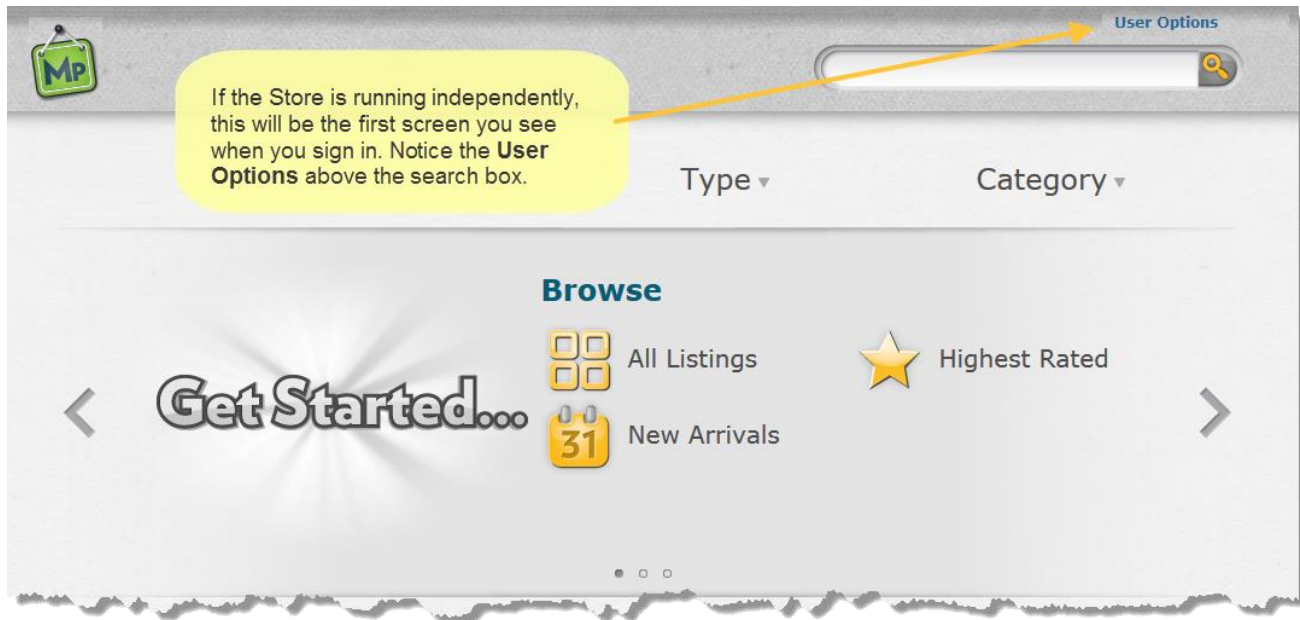
Figure 2: OZONE Store without OWF

1.2 Purpose

The Store, similar to a commercial application store like Apple's App Store or the Google Chrome Web Store, operates as a thin-client registry of applications and services. It enables users to create, browse, download and use a variety of applications or software components known as *listings*. Listings can be App Components, OZONE Apps, plugins, REST & SOAP services, Web apps, and more.

While the Store can operate independently, using it with OWF provides users with one location for everything they need to do their jobs, from searching and discovering new tools, to starting and managing those tools or building their own workflows.

1.3 Document Scope

This guide is intended for Store users with basic user privileges. It describes listing ownership and explains how to create a listing, as basic users can do this action.

Note: Administrative tools and features for the Store are described in the OZONE Store Administrator Guide.

1.4 Related Documents

Table 1: Related Documents

Document	Purpose
Store User's Guide	Searching, Creating and Editing Listings, Adding Comments, Ratings, Navigating an OZONE Store, using Scorecards, Explanation of Elements
Store Configuration Guide	Modifying Default Settings, Security, Database Settings, Upgrading
Franchise Toolkit Quick Start Guide	Setting Up and integrating the Store into OWF
OZONE Release Notes	Epic Stories and Bug Fixes for the Current Build

1.5   Basic Architecture

The Store and OWF consists of a number of components that were designed to be independently deployed or located on the same server. The simplest deployment scenario places them all on the same physical machine. These components are shown in detail in Figure 3: Basic System Architecture Diagram.
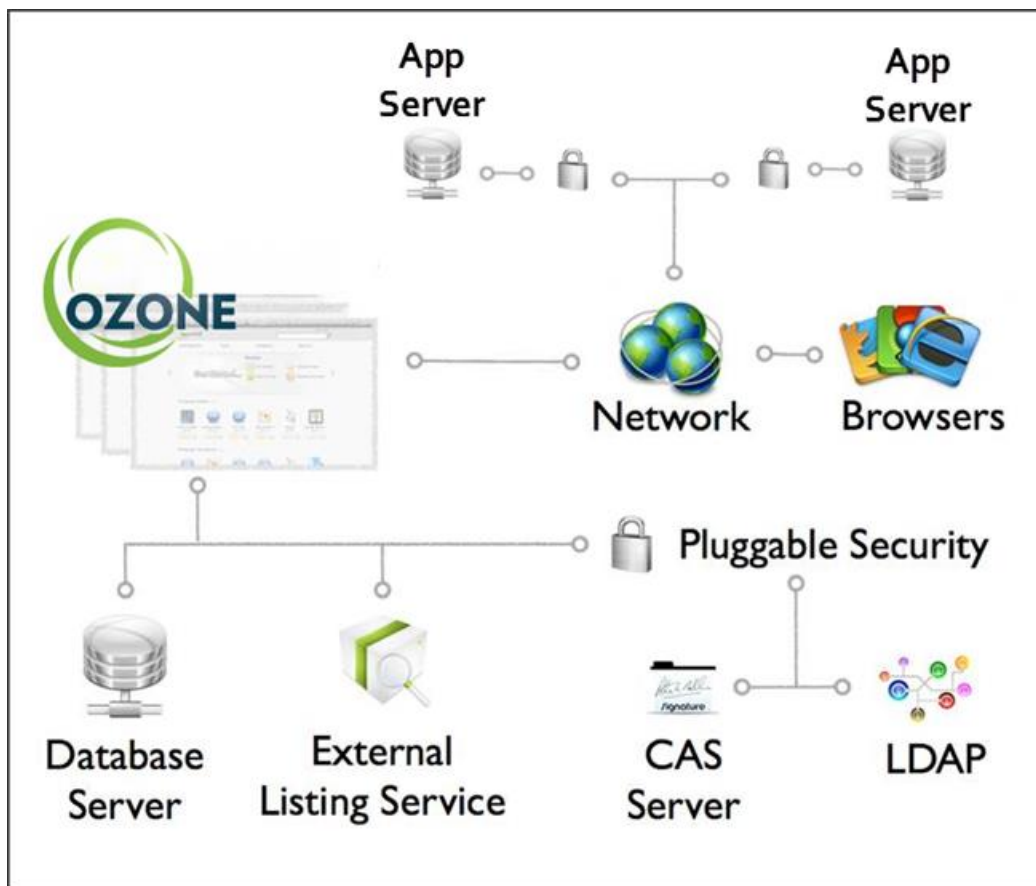
Figure 3: Basic System Architecture Diagram

Note: Any Java Servlet-compliant application server can host the application. Additionally, the CAS Server and LDAP component are examples of possible security integrations - the Marketplace Pluggable Security component acts as an adapter to integrate with many different enterprise security solutions.

1.6   Dependencies

The OZONE Store Toolkit bundle requires JRE 1.6 or higher. The Store supports Internet Explorer 7 and higher, Firefox 17 and higher and Chrome.

The recommended screen resolution is 1280 x 1024.

The Store is tested against the following browsers:

Table 2: Tested Browsers

Browsers	Versions
Internet Explorer	7 & 9
Firefox	17
Chrome	33

2 Getting Started

This section provides a brief overview of the main features and functions in the Store. You can find more details about each topic in later sections, use this section to obtain a basic understanding of the software.

2.1 Store Overview

Like Apple's App Store or the Google Chrome Web Store, the Store houses a variety of tools. From there, you can search and add them to your instance of OWF.

Figure 4: The Store at a Glance (Discovery Page)

2.1.1   The Store inside OWF

When the Store is used inside OWF the product is called OZONE. Both products can be used independently. The following section explains how each product functions. When the Store operates inside OWF, use the Store button on the OWF Toolbar to toggle between them.

2.2   Product Components

2.2.1   Drop-down User Menu
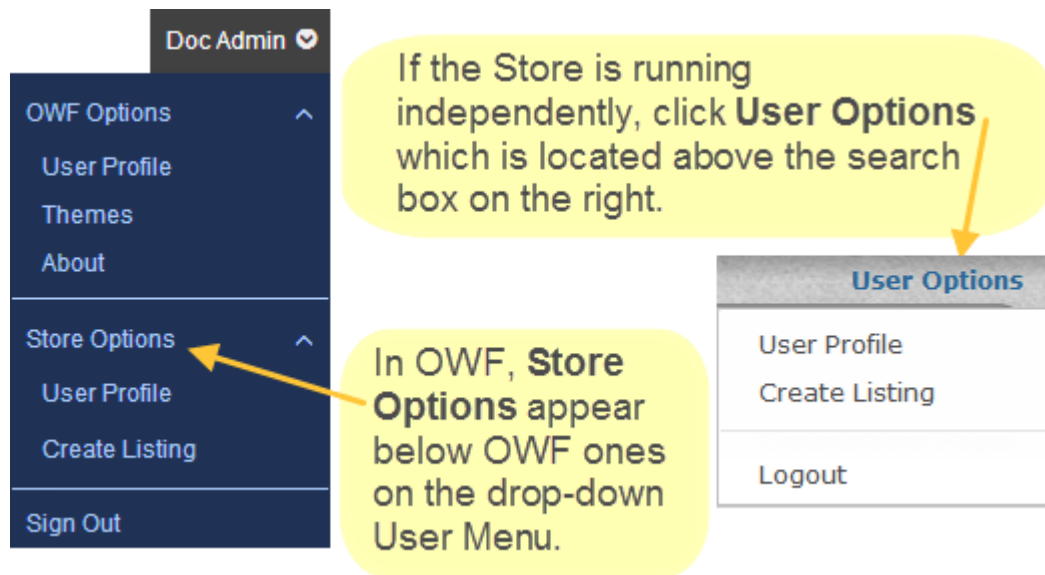
Figure 5: Store Drop-Down User Menu Options

When a user accesses a Store in OWF and opens the User Menu, the Store Options appear below the OWF Options.

Note: If the Store is not running inside an OWF, only Store Options will appear on the drop-down User Menu.

The following elements reside under the Store User Menu Options:

- **User Profile** – Users can edit their profile, view their e-mail address, listings, tags and reviews or click the slider button to enable animations in the Store.

- **Create Listing** – Allows the user to create a new Store listing. More information about the Store User Menu elements is found in section 4: Listings: Add, Create, Review.

2.2.2   Discovery Page

The Discovery Page is the homepage for the Store. It's the first page you'll see when you enter the Store or when you enter OZONE if OWF is connected to a Store.
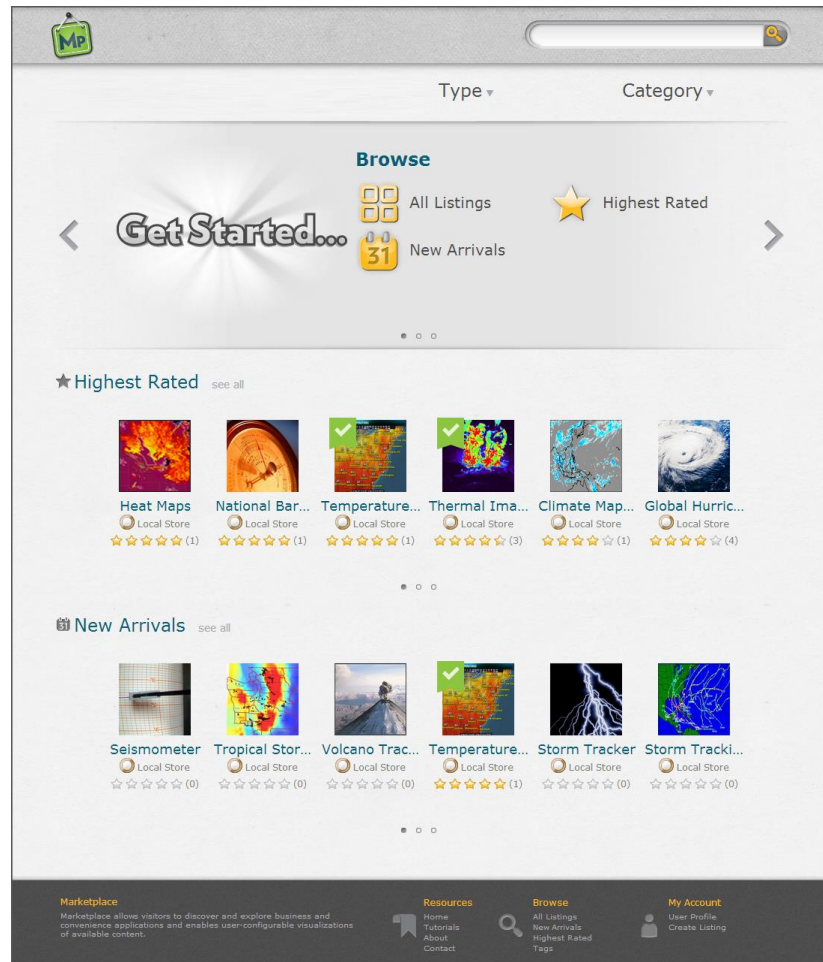
Figure 6: The Discovery Page

From the Discovery Page you'll see:

- Approved listings sorted by rating and arrival time. Find more information about listings in section 4: Listings: Add, Create, Review.

- The **Get Started Carousel** at the top of the page which links to specific groups of listings and training materials.

  o Click the right or left arrow on the carousel to use the other information.

  o Navigate to these panes by clicking on any of the dots at the bottom of the carousel or the left or right arrows, see Figure 7.

Figure 7: Pane Navigation on "Get Started" Carousel

Below the "Get Started" Carousel are two carousels: Highest Rated and New Arrivals. The Highest Rated carousel displays Store listings. If a user already added a listing to OWF, a green Favorites Flag appears above the left corner of the listing.
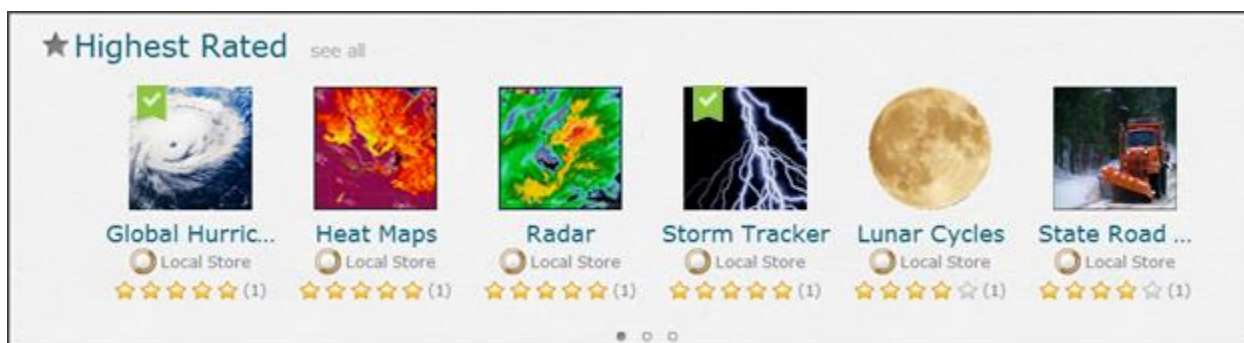
Figure 8: List Carousel on the Discovery Page

To the right of each carousel's title is a ⌐see all⌐ link. When clicked, a Search Results page will show all the listings that meet that filter's search criterion. Listings on this Search Results page can be filtered further to refine the listings. Find more information on filtering listings in section 3.2.2.1: Filters.

2.2.3   Footer

The bottom portion of the Store is called the footer.

Figure 9: The Footer

This includes several options for quick navigation and search. Navigation is split into three categories with the following options:

Resources

- **Home** – Directs the user to the Store's Discovery Page.

- **Tutorials** – Direct users to the Store's training materials.

- **About** – A pop-up window with information about the Store and build information.

- **Contact** – Launches the user's default e-mail client, allowing them to contact support, provided it has been configured by an administrator.

Browse

- **All Listings** – Navigates to a Search Results page that contains all listings.

- **New Arrivals** – Navigates to a Search Results page where listings are sorted from newest to oldest.

- **Highest Rated** – Navigates to a Search Results page that arranges listings by the highest star rating in descending order.

- **Tags** – Navigates to a list of user generated tags. From there, users can filter listings by tags which can be displayed in an alphabetical list that is separated into four columns or a cloud format.

My Account

- **User Profile** – Navigates to their Store profile.

- **Create Listing** – Launches the Create Listing page.

3   Search & Discovery

3.1   Overview of Search

OZONE allows you to search its Store, your Apps and App Components. The following sections will explain how to use each search. While OWF provides limited search capability, searching is one of the main aspects of the Store.

3.2   Search for Listings
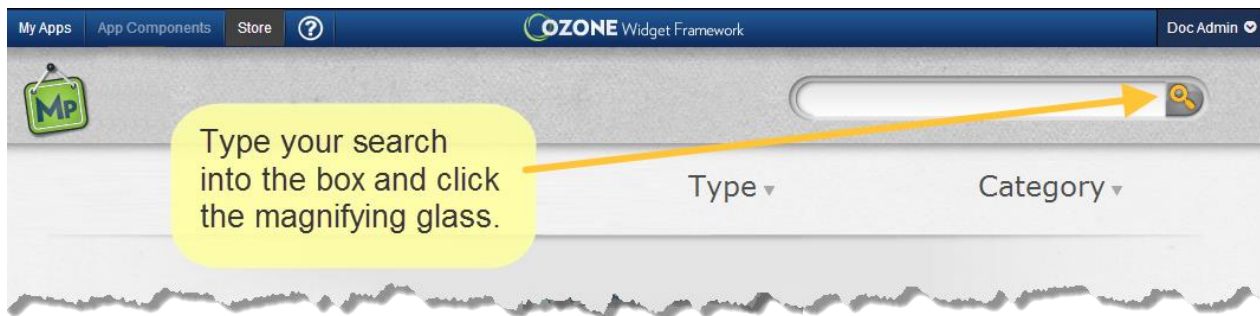
Figure 10: Search Bar

The Store returns search results in the following order:

1. The first factor that influences search results is the search query, i.e. the term that you use to search or your "search term." The Store will return the listing that best matches your search term first, followed by the listing that second best matches your search term and so on.
   Note: If you click search without entering a search term, the primary order of results will be the listings' Lucene score in descending order for more information about Lucene searches see 3.3: Expanded Explanation of Search.

2. The secondary order that search results are returned is by rating (the stars) in descending order.

3. The tertiary order that search results are returned is by title alphabetically in ascending order.

Search results can change based on filters, see section 3.2.2.2: How filters change Search Results.

3.2.1   Search Partner Stores

If a Store is configured to see search results from Partner Stores, results from each external store appear in carousels below the local store's search results. The results from the Partner Stores look like the results returned from the local store. However, users

cannot add feedback to the Partner Store listings. Also, if a user filters search results by Type, Category, etc., search results from Partner Stores will not display.

The first six search results from each Partner Store will display on the search results page. If a Partner Store returns more than six results, click the pagination dots below the listings to navigate to additional results.

If more than 30 listings in the Partner Store match the search criteria or you want to see all of the Partner Store's search results, click the "see more" link adjacent to the Partner Store's name. This will open a full-page view of the Partner Store's search results.

Note: A valid certificate is required for each Partner Store that you search, in order for listings to be shared between stores. Also, to add app components from a Partner Store to OWF, an OWF Administrator must have configured the Partner Store as an app component in OWF and sync must be enabled.

Note: Images may appear blurry in Partner Stores using version older than 7.16.0 due to a change in default large icon size.

Note: Find instructions about configuring Partner Stores in the Store Administrator's Guide.

3.2.2   Search Options

3.2.2.1   Filters

Filters reduce search results by type, category or company.

On the Discovery Page and Search Results pages in the Store, the Navigation Menu bar appears directly below the toolbar. (Click the Store's logo in the upper-left corner of every page to return to the Discovery Page.) To show all of the filtering options, hover over the filter. All the options will appear, as shown below:

Figure 11: Filters

3.2.2.2   How filters change Search Results

After an initial search, you can modify the appearance of the results by filtering or sorting. Sorting replaces the primary order of the search rules. The secondary order that search results are returned is by rating (the stars) in a descending order. The tertiary order that search results are returned is by title alphabetically in ascending order.

Example: When you sort your results by approval date (the calendar icon) - your search order will be date, then rating, then title.

Note: When filtering, the store continues to use the existing sorting order that was returned for the previous search term.

3.2.2.3   Sort Icons

This section describes the icons used to filter listings on the Store's Search Results Page.
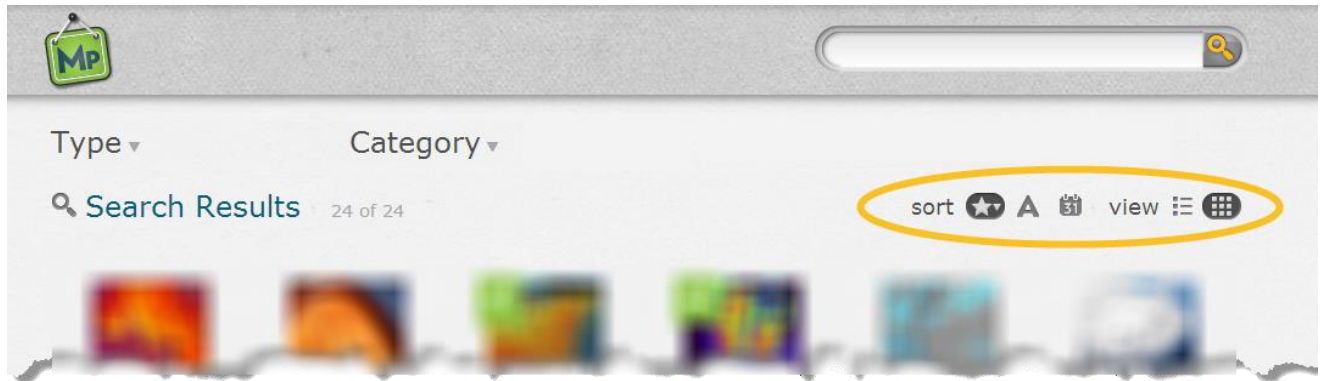
Figure 12: View & Filter Icons

Use the and buttons at the top of the page to select a grid or list view, respectively. When using the list view, the listing's description is displayed. Select the following icons to further sort the Store listings:

 - Sort listings based on user ratings

 - Sort listings alphabetically based on listing name

 - Sort listings based on release date

Clicking an icon for the second time will reverse the sorting.

3.2.2.4   Search using Tags

Tags are user generated information used to describe a listing. Each time any user adds a tag to a listing, that tag is added to a page that catalogs all the tags in the system.

To search for listings by tags:

1. Click the Tags link in the Footer of the Store.

2. Click a tag, all the listings associated with the tag will appear.
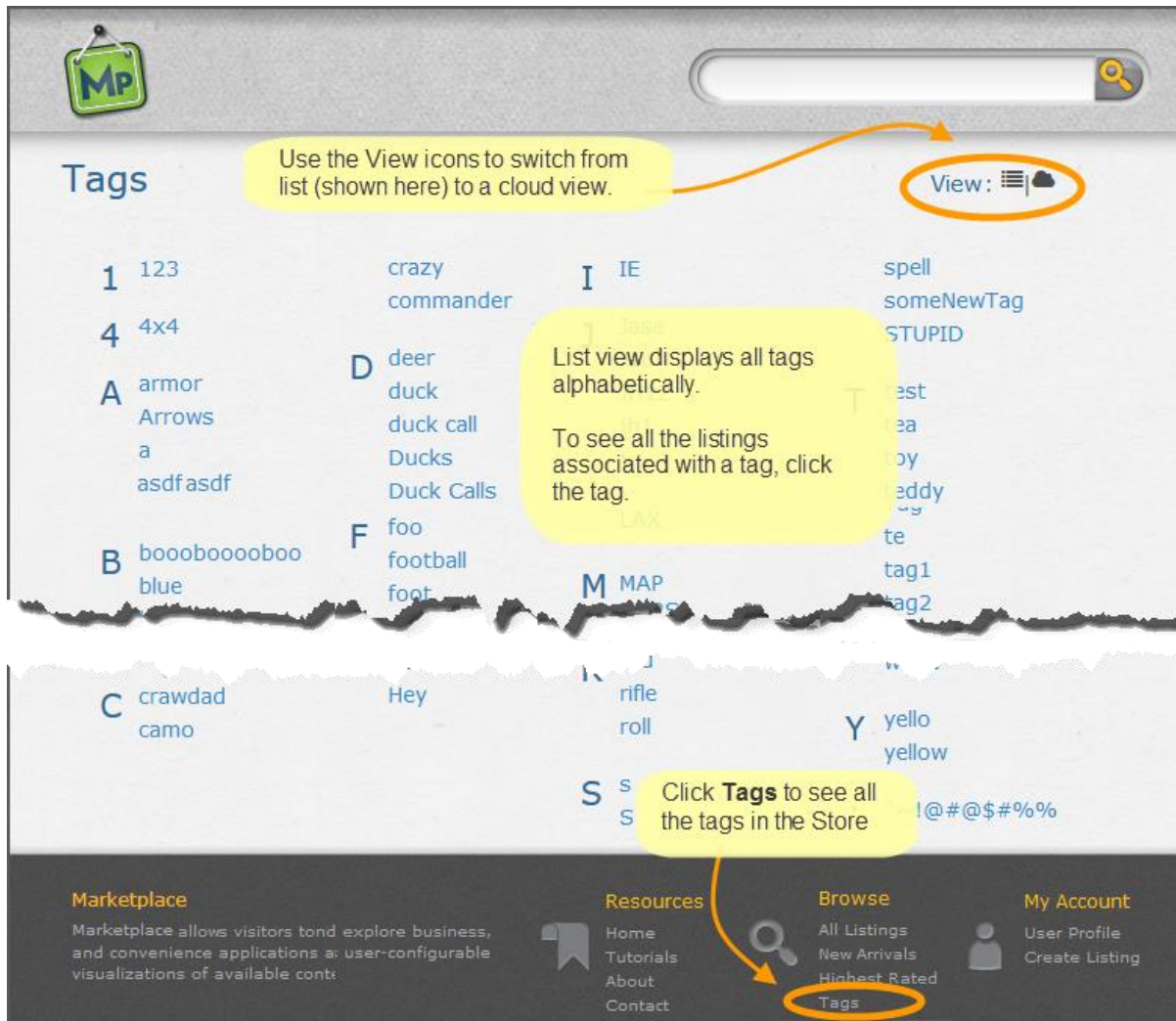
Figure 13: Tags Catalog Page

3.2.3 Search from the Browser (Independent Store)
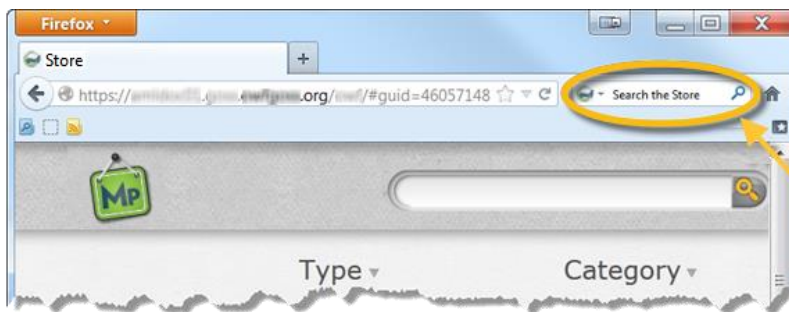
Figure 14: Search from the Browser

If the Store is running independently, it supports OpenSearch technology. This feature is NOT available if the Store is running as part of OWF. OpenSearch is a collection of simple formats that share search results. It helps search engines and search clients

communicate and syndicate search results through a common set of formats that perform search requests. It publishes results in syndicated and aggregated formats like ATOM and RSS.

When added to a browser, the Store-specific search appears as a drop-down search choice (shown below in Firefox.) Any words entered into a Store-specific search will only search that store, and not the entire Internet.

Searching from the browser returns the same results as a search in the application. The advantage of initiating a search from the browser is that a user can bypass the homepage and jump directly to their search results. This search is powered by a Lucene™-based index which enables extremely specific searches.

3.2.4   Search Results Display Options

In the Store, the Search Results page appears after a user selects a filter via the Navigation Menu bar or after performing a text search. Initially, the Search Results page displays listings in Grid view, with a 'tile' for each listing. The Grid view displays listings' store, rating and Scorecard fields.

To view the Search Results page listings in List view, click the ▤ icon in the upper-right corner of the Search Result page.
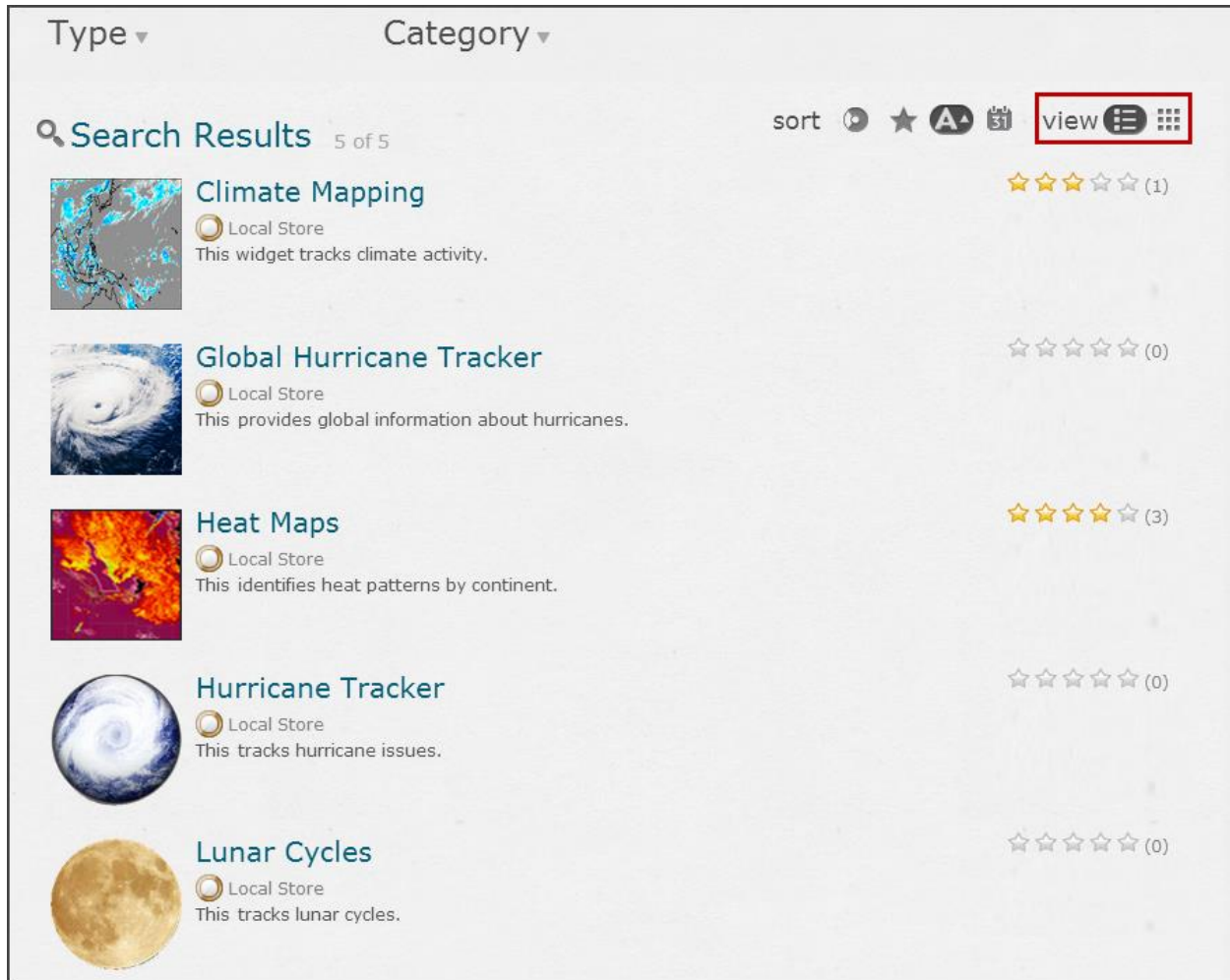
Figure 15: Search Results – List View

3.3   Expanded Explanation of Search

Searches in the Store are powered by a Lucene™-based index that is built on elasticsearch capabilities that enable detailed search functionality. You'll find specific Lucene search terms in Table 5: Search Criteria.

Some products use ElasticSearch like a database layer. The Store does not.

Lucene Scoring bases its score on the frequency a query term appears in a listing relative to the number of times the term appears in all listing.

Developers can influence these results by "boosting" the importance of matching search results to some fields. The Store does this by boosting the importance of name, description, requirements and dependencies (in descending order of boost value).

Note: In older versions of the Store, the listing's title was not "boosted" enough to substantially affect its rank in search results.

Here is how the above rules translate into behavior of certain initial searches done in the Store:

Table 3: Explanation of Search Results Order

Search Description	Result
Type a search term into the search box and press enter.	The store will return search results sorted in the following order: 1. Lucene Score 2. Rating 3. Title
Leave the search box blank and click the magnifying glass icon (or placing the focus in the box and pressing enter).	The store will return search results sorted in the following order: 1. Lucene Score 2. Rating 3. Title However, since there is no term to score, all listing will have the same score. Therefore sorting will actually appear to be rating first and title second.
Click the "All Listings" link on the Discovery Page.	This passes a sort and order parameter in the request (title, ascending) - so results will be sorted in the following order: 1. Title 2. Rating

It is possible that hits in other boosted fields (e.g. description) could rank listings higher than hits ranked by title if those other fields favor the terms heavily. There are a few ways to address this:

- Make an exact match on title the highest ranking result - this would involve restructuring the current query into a compound query where the search string is first considered as a whole before being split up into separate search terms. A result on an exact match in the title field would be boosted to a higher score than other matches.

- Structure the query so that boosted fields are queried/scored separately - this would heavily favor the title field without making it necessary that you have an exact match to see the listing high in the rankings. Examples:
  - Targeting App Component would score high on a query for target app component

3.4 Additional Search Information

Things that affect search results:

- Approval Status: a regular user (not an administrator) only sees
    - o listing that have been approved
    - o any listings they own

- Inside/Outside: local searches of a store will return both inside and outside listings. A search of a Partner Store will return only outside listings.

- String search criteria must be enclosed in quotes if there are embedded spaces, for example: "My App"

- The Store uses Lucene index search terms. For further explanation, see Appendix C: Lucene Index Search Terms.

4 Listings: Add, Create, Review

4.1 Listing Overview

Listings on the Discovery Page and the Search Results page appear in their Short Listing View. To see more listing information, click the listing's title, image or rating to open the Listing Quick View. The following sections describe all the listing views and the features they include.

4.1.1 Short Listing Views

The short listing view provides users with basic information about the listing. Listing details included in the short listing view are the listing's name, icon, originating store and ratings which are described below.

Figure 16: Short Listing View

Listings organized in carousels on the Discovery Page and listed on the Search Results page appear in short listing view. The Short Listing elements include:

- **Listing icon** — Click the listing icon to launch the Listing Quick View. See section 4.1.2: Listing Quick View for more details.

- **Listing name** — If the listing name is too long to fit under the listing icon, it will end with an ellipsis (…). The full name can be viewed by hovering over the listing name. Click the listing name to launch the Listing Quick View. See section 4.1.2: Listing Quick View for more details.

- **Listing's rating** — The rating of the listing and total number of votes cast is displayed under the listing name. The rating is read-only and votes cannot be cast from this page. To rate a particular listing, you must first click the listing and view it in the Listing Quick View. See section 4.1.2: Listing Quick View for more details.

- **Store Affiliation** – If configured, mulitple companies can enter listings into the Store. A listing's affiliation will appear below its name.

4.1.2   Listing Quick View

The Listing Quick View starts when a user clicks a Short Listing View from the Discovery Page or a search results page.
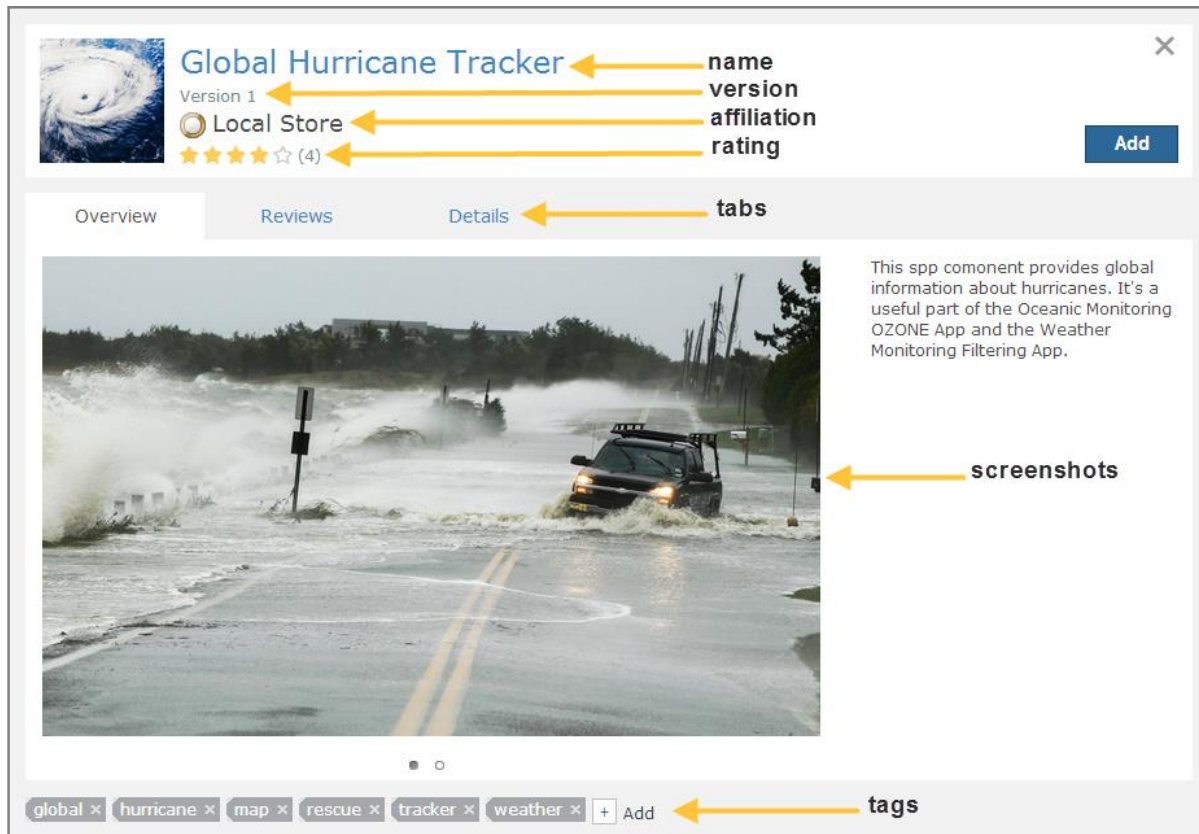
Figure 17: Listing Quick View

The Listing Quick View separates information onto various tabs. It includes all the elements from the Short Listing View (listing icon, name rating and store affiliation) as well as:

- **Version** – This field identifies the version associated with the listing.

- **Description** – A description of the listing appears on the Overview tab.

- **Screenshots** – If the listing includes screenshots, they appear on the Overview tab. If there are multiple screenshot, use the left/right arrows or the dots below the images to switch from one image to the next. Click the image for an expanded view.

- **Overview** – A description of the listing provided by the owner or an administrator.

- **Tags** – A list of user generated words used to describe the listing. From the footer, users can filter listings by tags which can be displayed in an alphabetical list separated into four columns or a cloud format.

- **Reviews** – User comments and ratings about the listing. If the user adds a listing to OWF before reviewing it, a prompt appears asking them to review it. See section 4.4: Review and Tag Listings.

- **Details** – Information about the listing's type, categories, owner, requirements, etc. See section 4.1.2.1: Listing Details.

When the listing opens, its Overview tab appears. To see reviews or details, click the respective tab.

4.1.2.1 Listing Details

The Details tab shows the listing specifications, requirements and intents. An administrator can customize what information appears and its order.
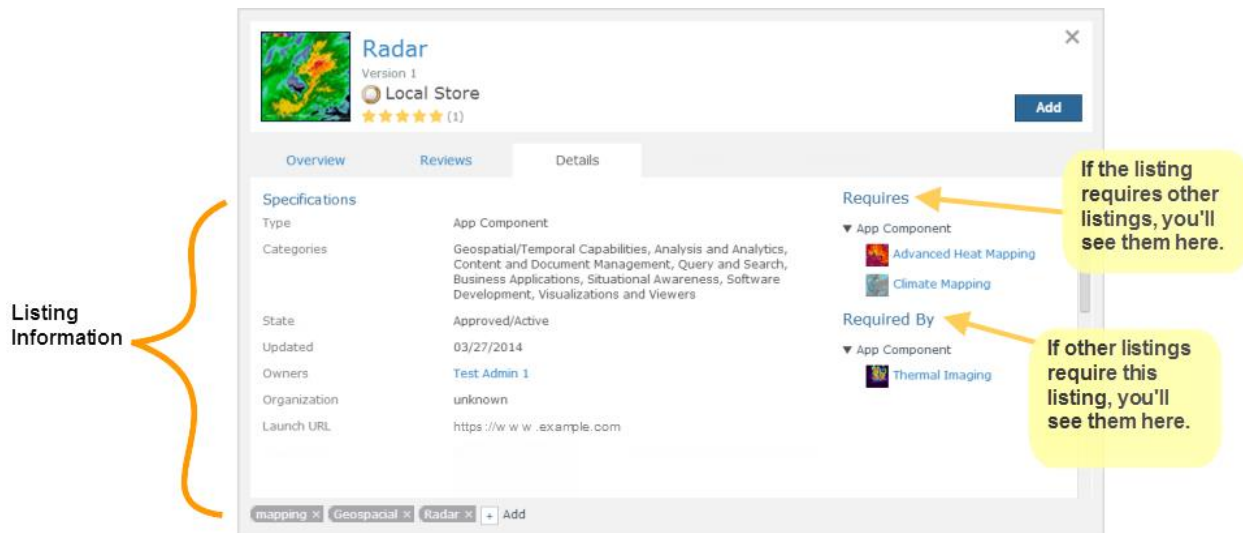
Figure 18: Details tab

The Details tab can include information about:

- Listing requirements and dependencies

- Association with organization, technical point of contact, listing owner

- Modified date

- Type-specific listing information

- Intents (if the listing has any)

Note: An administrator must enable the Scorecard icon function to allow the icons to appear on the Details tab.

Administrators configure which fields appear under the Specifications label. If you're looking for listing information that is not displayed on the Details tab, you may want to contact your administrator.

4.1.2.2 Admin and Scorecard Tabs

Only **listing owners** and **administrators** will see the Admin and Scorecard tabs on the Listing Quick View. From the Scorecard tab, owners answer yes or no to compliance questions. The Admin tab displays the listing's Changelog.

For more information, see the Quick Listing section of the Store Administrator's Guide.

Note: The Store provides links to identified applications. Access controls and application operation are the responsibility of application owners.
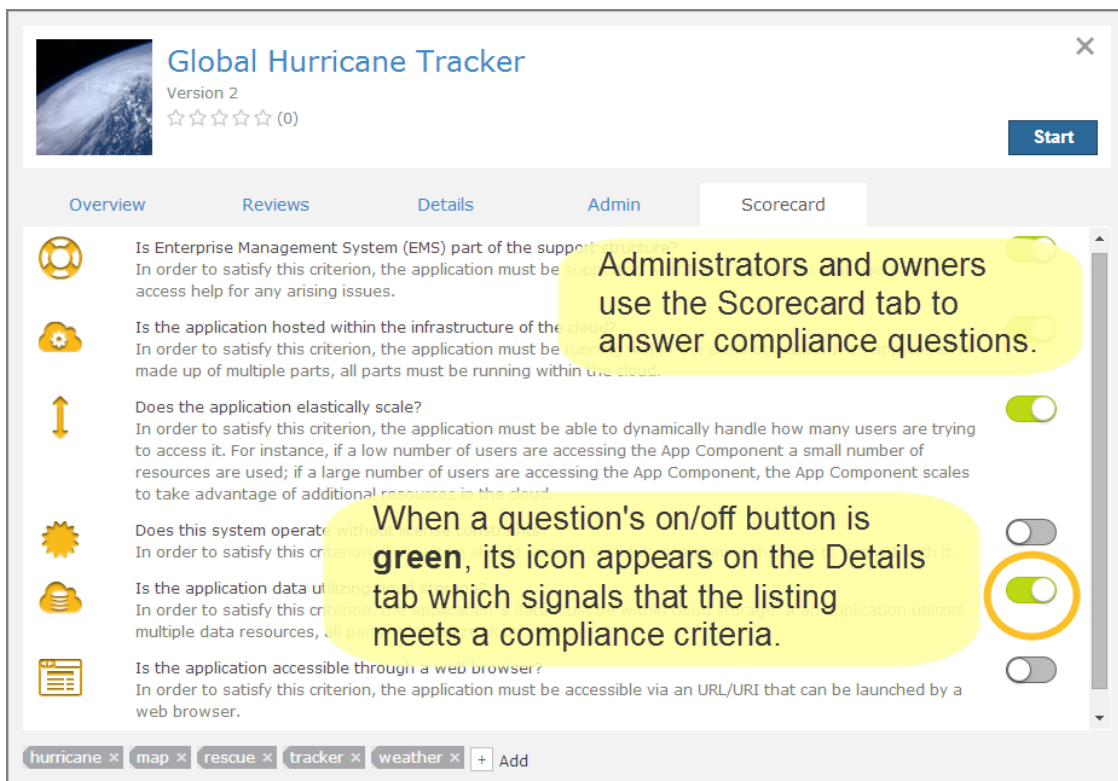
Figure 19: Scorecard Tab (only visible to admins and owners)

To delete a listing, perform the following steps:

1. Click the listing name or icon to display the Listing Quick View.
2. Click the **Admin tab**.
3. Click the Delete button.
4. A warning message appears; click OK to remove the listing from the system.

4.2   Add Listings to OWF

Figure 20: Add Button on Quick View

Click the **Add** button, located in the upper-right corner of the listing, to save a copy of the listing to your My Apps or App Components windows in OWF. These windows are accessible from the My Apps and App Components buttons on the toolbar, respectively. The Add button only appears in the listing's Quick View if the Store is running inside an instance of OWF. If you already added the listing to your instance of OWF, a green Favorites Flag appears over the left corner of the listing icon and a Start button replaces the Add button on the Quick View.

When you click the **Start** button on an App Component, a prompt will asked to which app you would like add the component. After selecting one, another prompt will direct you to select a pane where the component will start (if the app has more than one pane).

The Store does not dictate or ensure the functionality of listings. Proper listing functionality is the responsibility of the approving administrator and the listing owner.

Note: Not all listings can be added to OWF. The Listing Type must have a launch URL, icons and be OWF Enabled.

Note: The Start button will only appear on an OZONE App if the Store is associated with OWF version 7.12.0 or newer. The Add button will not appear if the Store is associated with an OWF version 7.3.0 or older.

4.3   Add Listings to OWF

4.3.1   Start a Web App

Web Apps start in OWF **or** a new browser tab.
Note: The Web App owner or an administrator uses the Listing Create/Edit Page to decide which way the Web App will open on the Quick View. The Web App will open in a new tab or new window depending on the browser settings.

- If the listing is configured to start in a browser tab, it will automatically open in a new tab when you click Start:

Figure 21: Web App opening in a New Browser Tab

- If the listing is configured to start in OWF, it will be added to OWF as an application. To navigate to it in OWF, click My Apps on the Toolbar and Select its name.

4.3.2   Add Favorites Flag

After you add a listing from the Store to OWF, a green flag appears over the left corner of the listing icon on its Quick View, the Discovery Page and in search results. When you open the Listing Quick View, a Start button replaces the Add button. This notifies you that the listing already exists in your instance of OWF. Click Start to open the listing in OWF. If you delete a listing from OWF, the flag will disappear from the corresponding listing in the Store.

Figure 22: Favorites Flags on the Discover Page and Listing Quick View

4.4   Review and Tag Listings

The following image overviews the Reviews tab on a Listing Quick View. While tags appear on every tab of the Listing Quick View, they are explained here as part of reviewing a listing.

Figure 23: Reviews/Feedback Tab

The Reviews/Feedback tab:

- Displays the listing's average star rating and all user feedback

- Provides a mechanism for leaving user feedback.

- Clicking the row of a specific comment takes you to the profile of the comment's author. Users have the ability to edit or delete their own comments using the Publish and Cancel buttons.

- All of the listing's associated tags appear in the lower portion of the Listing Quick View.

Note: Administrators have edit/delete privileges for all comments.

4.4.1   Add Comments

From the Review tab on the Listing Quick View shown below, a user can view comments associated with a listing. Users can add a comment by selecting the tab and entering a 250-character comment related to their experience with the listing. See the image below for details.
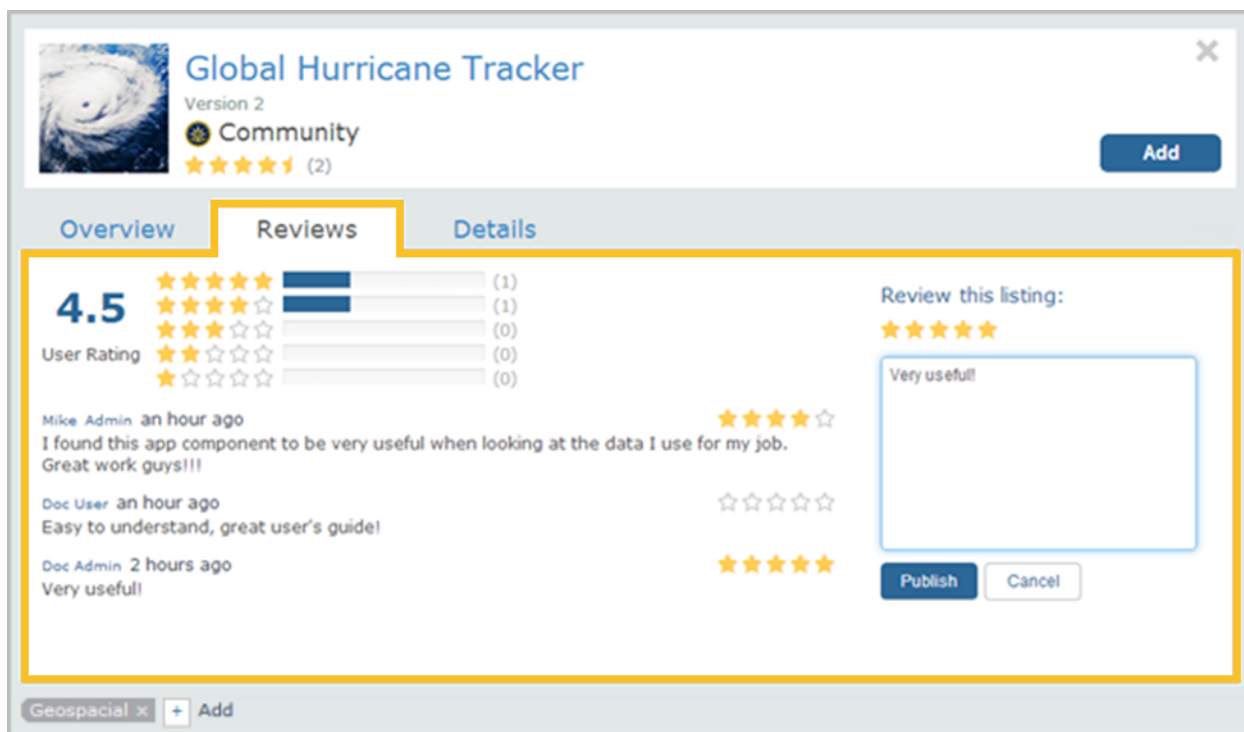
Figure 24: Adding Feedback

A user can edit their existing comment by clicking in the text box and then, clicking Publish.

Note: Administrators have edit/delete privileges for all comment.

4.4.2 Add Ratings

Users have the ability to rate listings. If a user adds a listing to OWF before rating it, a prompt appears in the Quick View heading asking them to review it:
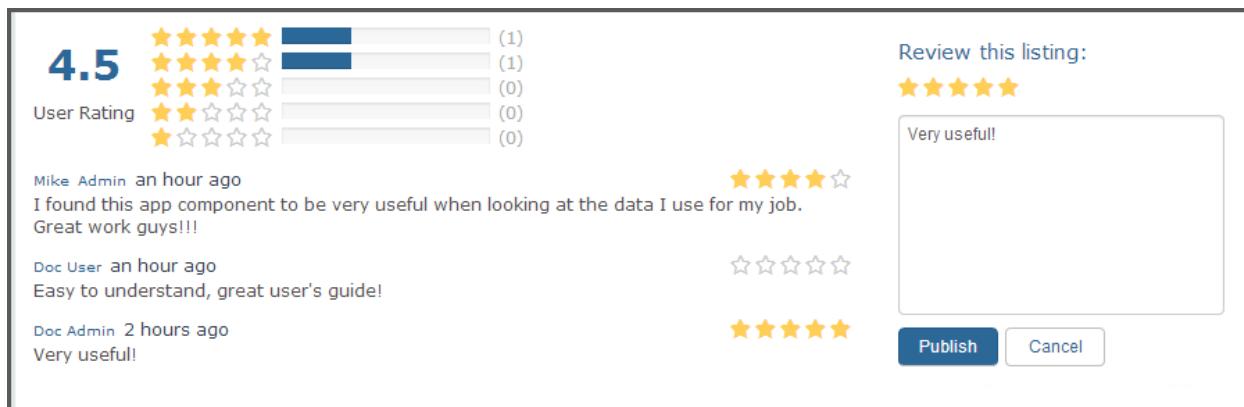
Figure 25: Rating a Listing

 – The numbers of stars shows the user's ratings for a listing.

⭐⭐⭐⭐⭐ ▬▬▬▬▬ ➔(2) – The number of listings for each starred rating.

4.4.3 Add Tags

Tags are user generated words that describe the listing. Any user can add them to any listing. However, only the person who added the tag or an administrator can remove it from a listing. Changes to tags appear in the listing's Changelog on the Admin tab.

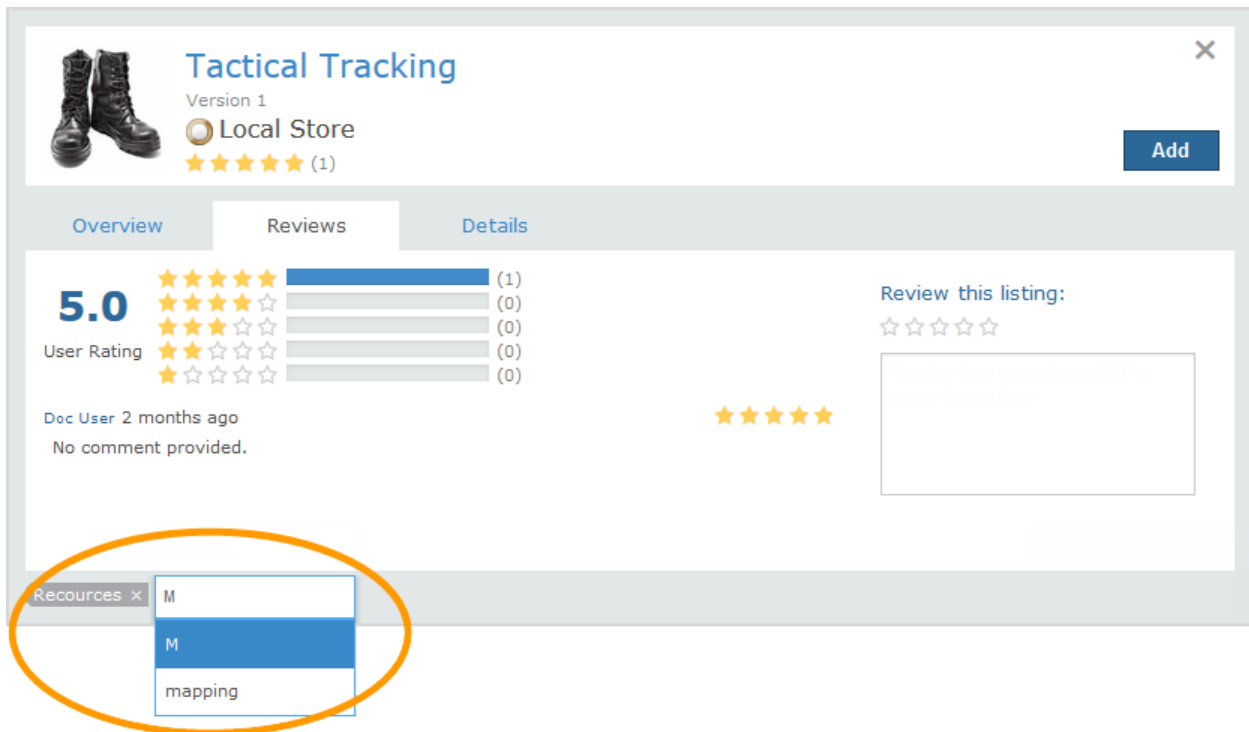To add a tag, click the Add button at the bottom-left of the listing. A drop-down opens and asks you to start typing. If a tag exists in the system that is similar to the letters you are typing, it will appear and you can select it:

Figure 26: Adding Tags to Listings

- From the Store footer, click Tags to filter listings by tags which can be displayed in an alphabetical list separated into four columns or cloud format.
- From your User Profile page, you can remove any tags that you entered. If you entered a tag that is already in the system, removing it only removes it from the listings to which you added it, not all the listings in the system. To remove a tag you added to a specific listing, open the listing and click the X on the right side of the tag.
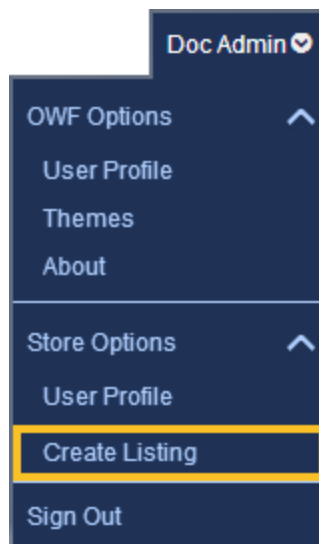
4.5   Create Listings

4.5.1   Walkthrough: Create a Listing

Any software application or component that a user enters into the Store is called a "Listing." Listings can be various types of Web content.

This section explains how to create a Listing:

1. Start by clicking "Create Listings" from one of three places: the drop-down User Menu in the toolbar; the My Listings page or in the Footer at the bottom of the page.

Figure 27: Create Listings

2. This opens the Listing Create/Edit Form. After naming your listings, you'll want to select a Type. The store includes three default types:

   - **App Component** — A lightweight, single-purpose application that offers a summary or limited view of a larger application. After OWF users add an App Component from the store, they can add it to an Application; see the OWF User's Guide for instructions.

   - **OZONE App** — A collection of App Components (previously called widgets) arranged in specific layouts. To create an OZONE App, first push it from OWF to the Store and continue to step 3. When a user adds an OZONE App to OWF from the Store, it will appear in My Apps on their OWF Toolbar.

   - **Web App** — A program that cannot interact with other App Components. Web Apps automatically open as their own OZONE App. When a user starts a Web App from the store, it will appear in My Apps on their Toolbar.

     Note: An administrator can add any listing Type to the drop-down list.

3. After choosing the listing type, the Create/Edit Form will customize its fields specifically for the Type of listing. Every listing has some mandatory fields such as Name, Type and Owner that are identified with red asterisks. If you're ready to submit the listing, click save and go to section 4.5.3: Submit a Listing for Approval.
If you'd like to save the listing before publishing it. See 4.5.2: Save Incomplete Listing Form for information on how to save a listing before submitting it.

Figure 28: Create/Edit Form - Part 1

OWF Properties

Universal Name ⓘ

Singleton ⓘ

Visible ⓘ

Runs in Background ⓘ

Mobile Ready ⓘ

Recommended Layouts ⓘ

| Accordion | Desktop | Portal | Tabbed |

Approximate Size ⓘ

| Extra Small | Small | Medium | Large |

Intents ⓘ   ➕ Add

App Component Properties

Small Icon URL ⓘ   *Enter the URL to a small icon representing the listing - recommended size 16 x 16*

Medium Icon URL ⓘ   *Enter the URL to a medium icon representing the listing - recommended size 64 x 64*

Large Icon URL ⓘ   *Enter the URL to a large icon representing the listing - recommended size 220 x 137*

Launch URL ⓘ*   *Enter the URL to access the listing being submitted*

Alternate POC Info ⓘ   *Select a value for Alternate POC Info*

Franchise Store Characteristics

Owners ⓘ *   Doc Admin ✕

Technical POC ⓘ   Doc Admin

➕ Add

Contacts

| Type* | Name* | Organization |
| Technical P... ▼ | | |

| | Email* | Secure Phone* | Unsecure Phone* |

➕ Add

Organization   Test Admin Organization

Requirements   *Enter prerequisites necessary to utilize the listing*

Dependencies   *Enter dependencies (external systems, technologies, etc) for the listing*

Save   Close

Figure 29: Create/Edit Form - Part 2

The fields in the Add Listing Dialog window are described below:

*Note: All the fields mentioned below will **not** appear in every listing type. Also, administrators may include additional custom fields that are not defined.*

- **Name** — Displays the name of the listing. Names are not required to be unique within the system.

- **GUID** — Display a unique identifier that cannot be edited. It is a searchable field. This field only appears AFTER a listing is created. It will not be visible the first time a user populates the Add Listing dialog window.

- **Type** — Defines the listings technology (e.g. App Component, OZONE App, Web App, etc.). Types can be added and removed from the Store as needed by the system administrator.

- **State —** Assign a state (e.g. active, retired, etc.) to a listing. States can be added and removed from the Store as needed by the system administrator.

- **Version** — Displays the version number an administrator assigned.

- **Release Date** — The month/date/year in which the listing was or will be released. This is for informational purposes only.

- **Description** — To make it easier for users to determine the nature of the listing, a succinct summary should be captured in the first few lines of the description." This field can contain 4,000 characters.

- **Categories** — The categories to which a listing will be associated. An administrator can add and remove categories from the Store as needed. The category groupings can be as simple as "category b" or as descriptive as "geospatial category." A listing can be associated with multiple categories.

- **Tags** – A list of user generated words used to describe the listing. Owners and administrators can add tags from the Create/Edit Form. Other users can add them from the Quick View.

- **Required Listings** – The listing that your listing needs to function. For instructions, see section 4.7.1: Assign Required Listings.

- **Technical Properties**

  - **Installation URL** – Allows a user to enter various URLs which offer listing resources.

  - **Resources** – Click the + to add resources to the listing. Consider user guides, help documents or instruction manuals. The label will appear in the Details section of the listing, it will link to the URL provided in the Resources section.

  - **Screenshots** – Houses the small and large URLs for images that appear in the Detailed section of the listing.

- **OWF Properties** — Appears when an OWF compatible type is selected.

  o **Singleton** — Designate if a listing can have only one instance launched in OWF.

  o **Visible** — Dictates if it will appear in the App Component Menu in OWF.

  o **Run in Background**— Designates if a listing should only run in the background when needed/launched by OWF.

  o **Mobile Ready** — Suggests that a listing can run on a mobile device. This setting only applies to MONO instances. MONO is a mobile project using the Store and OWF. If the Store is running in a MONO instance, only Mobile Ready listings will appear.

  o **Recommended Layouts** — Suggests OWF application layouts that complement the listing within OWF.
  Note: If the Type has the "OWF Compatible" flag checked, a listing will be made available to an associated OWF instance. See the Administrator's Guide for more details.

  o **Approximate Size** — The iFrame window size (in pixels) where the listing will open in OWF:

    ▪ Extra Small size = 350 x 480

    ▪ Small size = 350 x 768

    ▪ Medium size = 650 x 1050

    ▪ Large size = 1050 x 1050

  o **Intents** – Use this field to add one or more intents. Find more information about adding intents in Appendix B: Intents: Create & Edit Dynamic Listings.

  o **Stack Context** – In applicable, enter a title that will be added to the root of the OWF Instance and serve as the exact URL location for the Stack, as shown in the following example:
  https://www.exampleOWFinstance.com/*StackContext*

  o **Universal Name** –A value that can be used as a listing's global identifier across all instances of OWF and Stores. This differs from a GUID which is unique to a specific installation.

- **App Component/Web App Properties**

  o **Small Icon URL** – Address for the image that identifies the App Component on browser tabs or other small spaces. For best results use an image that is 16x16 pixels.

  o **Medium Icon URL** – Address for the image that identifies the App Component in OWF and most places in the Store including the Detailed

Listing page and default search results. For best results use an image that is 64x64 pixels.

- o **Large Icon URL** – For best results use an image that is 220x137 pixels.

- o **Launch URL** – Location addresses for the App Component's launch URL.

- o **Opens in a new browser tab** – This field *only appears on Web Apps* and Types that require a Launch URL and do not have any OWF properties. It designates if the listing will open in OWF or in a new browser tab.

    - When checked, the listing will open in OWF and a copy of it will be saved as an App which is accessible from the My Apps window.

    - If unchecked, the listing will open in a new browser tab or window depending on the browser settings.

- **Franchise Store References**

  - o **Owner(s)** —Pre-populated by the authenticated username at the time the listing is created. Ownership can be reassigned by typing a new owner's name in the owner field on the listing page. To add more than one listing owner, click the + button below the Owners field.

  - o **Technical POC** — While the field can be populated with any "point of contact" information that the submitter wishes to enter (e.g., email, phone), it is pre-populated with the authenticated username at the time the listing is being added. To add more than one technical POC, click the + button below the field.

  - o **Organization** —Pre-populated with the organization as set-up in the default custom security modules. However, in a production environment, the organization data will be populated from the user's contributor profile information that is returned from the particular security module being used. For more about contributor profiles see section 5.1: User Profile.

  - o **Requirements** — Allows the user to note any software or hardware requirements the listing depends on for proper functionality.

  - o **Dependencies** — Allows the user to note any additional items (such as software, operating systems or additional listings) that add to the overall functionality of the listing that is being created.

  - o **Additional Contact Fields** – Administrators can create required or optional Contact Fields that appear under the Franchise Store Reference heading on the Listing Create/Edit Form. The fields include: Type that describes the field; Name that identifies the contact person; Organization that identifies an affiliation; Email and Phone numbers. Mandatory fields include Type, Name, Email and one phone number. If the field is not required, remove it using the minus sign that appears on hover.

- **Custom Fields** — Administrators can associate custom fields with specific listing types. The custom fields can be text, drop-down, checkbox or image URL fields. They can appear in any section of the Create/Edit listing page and may or may not be required.
  Note: Requiring Custom Fields may cause errors for administers who try to add listings from OWF to the Store because listings coming from OWF will not have those required custom fields.

4.5.2   Save Incomplete Listing Form

When creating a listing, including incomplete listings, you must complete all the required fields associated with the listing's type. Once completed, clicking `Save` will create the listing and mark its status as "in progress." At this point, the listing is saved but not submitted for administrator approval. To submit the listing immediately, proceed to section 4.5.3: Submit a Listing for Approval. However, if you do not want to submit it immediately, you can navigate away from the listing without losing any data.

To continue editing a saved listing:

1. From the drop-down User Menu, click User Profile.

2. This opens your User Profile. Click the Listings tab.

   Note: If the listing's creator reassigns ownership, the listing will NOT appear in the original owner's "My Listings" page. Instead it will appear in the new owner's User Profile.

3. In Progress listings appear on the left. Click the name of the one you want to open.

4. The Listing Quick View opens. To submit without changes, proceed to the next step. To edit any of the listing information:

   a. Click the Admin tab.

   b. Click Edit in the lower-left corner of the Admin tab. The Create/Edit Listing Form will open populated with the information you saved.

   c. Make your changes and click Save.

5. Click Submit.

   Note: Only administrators and the owner can make changes to the listing.

4.5.3   Submit a Listing for Approval

After clicking Save (on the Create Listing form) the Store will open the Quick View window on the My Listings page. Clicking Submit on the Quick View indicates the listing is ready and submits the listing for administrator approval. Once submitted, the user will be presented with the success message, "Your item has been submitted for approval".

A user can see all of their created listings by clicking on the "My Listings" link under the drop-down user menu on the right-side of the banner. Once clicked, the user will see a list of approved listings and a list of non-approved listings if any exist.
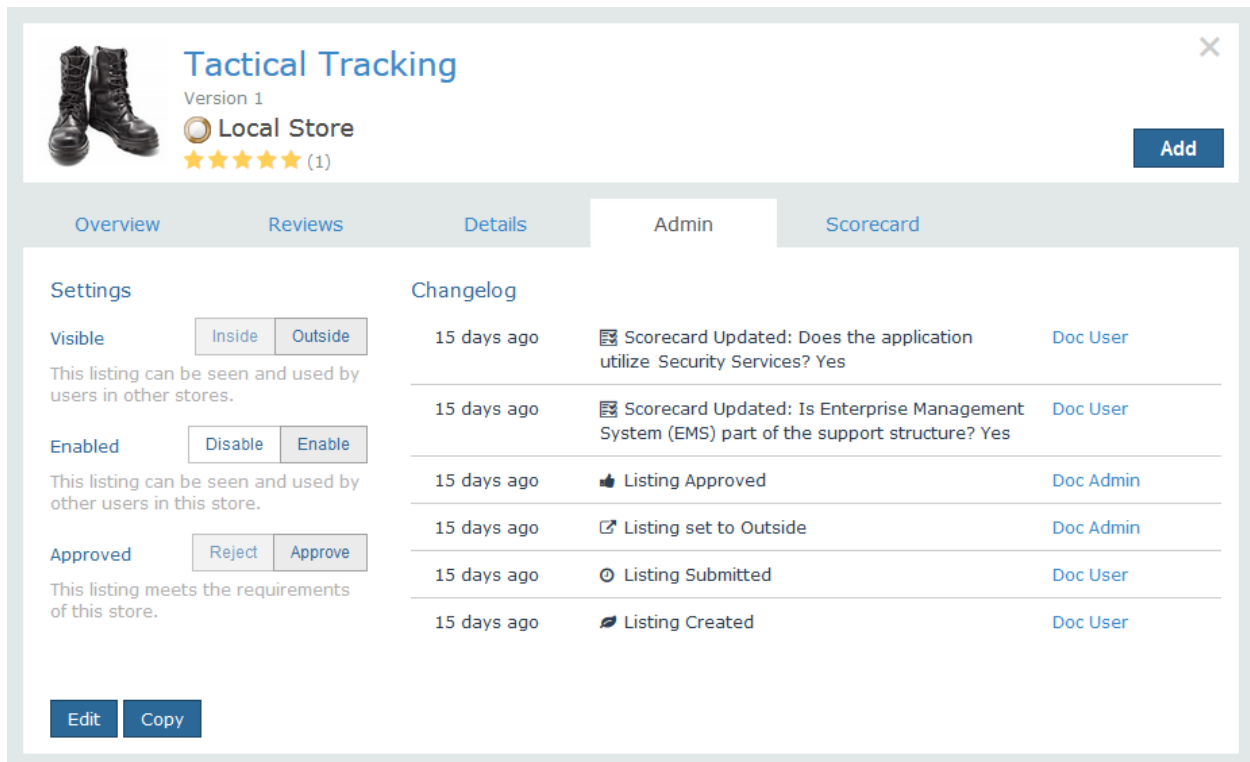
If non-approved listings do not exist, then the non-approved listings list will not be shown. The approved listings table is always shown. The non-approved listings grid can show the following statuses:

- **Pending** — Listing is submitted and awaiting administrator approval.

- **Rejected** — An administrator has rejected the listing.

- **In Progress** — Saved by the user, but not yet submitted to an administrator. See Figure 32.

4.6   Edit Listings

An approved or pending listing can always be edited by the listing owner, provided that the system has been configured for owner-edits. If the Store is not configured for owner-edits, the owner can edit the listing in an "in progress," "pending" or "rejected" state.

4.6.1   Edit Approved Listings

Figure 30: Admin tab on Listing Quick View Page

If the system is configured to allow editing after listing approval, owners can edit their approved listings. Users who have the ability to edit a listing will see an Admin tab on

the listing Quick View (Figure 30). Use the following instructions to edit an approved listing:

1. Click a listing icon to open the Quick View window.

2. Click the Admin tab on the Quick View.

3. Click the Edit button to open the approved listing form.
   Note: If administrators' do not allow editing after approval, the Edit button will be disabled.

4. Edit the data in the form and then click Save. The changes are automatically applied to the listing.

   Note: Editing a listing type may add or change the listing's custom fields.

From the Admin tab, a listing owner can:

- **Edit**—Change any of the listing data. An owner's editing permissions are determined by Store administration.

    o Without owner-edit configuration in place:

        ▪ The listing change will be saved but not submitted, thus it has a status of "in progress."

        ▪ If an administrator rejects a submitted listing, the listing will have a status of "in progress."

    o If the Owner-edit configuration is in place:

        ▪ The owner of the listing will always be able to edit the listing, regardless of its state.

- **Copy**—Allows an owner to duplicate a listing. Owners can copy "approved" and "in progress" listings.

- **Disable**—Allows the owner of a listing to remove it from circulation. An owner will still see the listing when browsing or performing searches. Other users will not see the listing at all.

    Note: Disabling a listing causes it to no longer appear in the Store, be mindful of whether the listing is required by other listings. While there will be no impact on people who have already added the listing to their instance of OWF, future users may not be able to use primary OZONE Apps or App Components if their required counterparts are disabled.

4.6.2 Edit Pending Listings
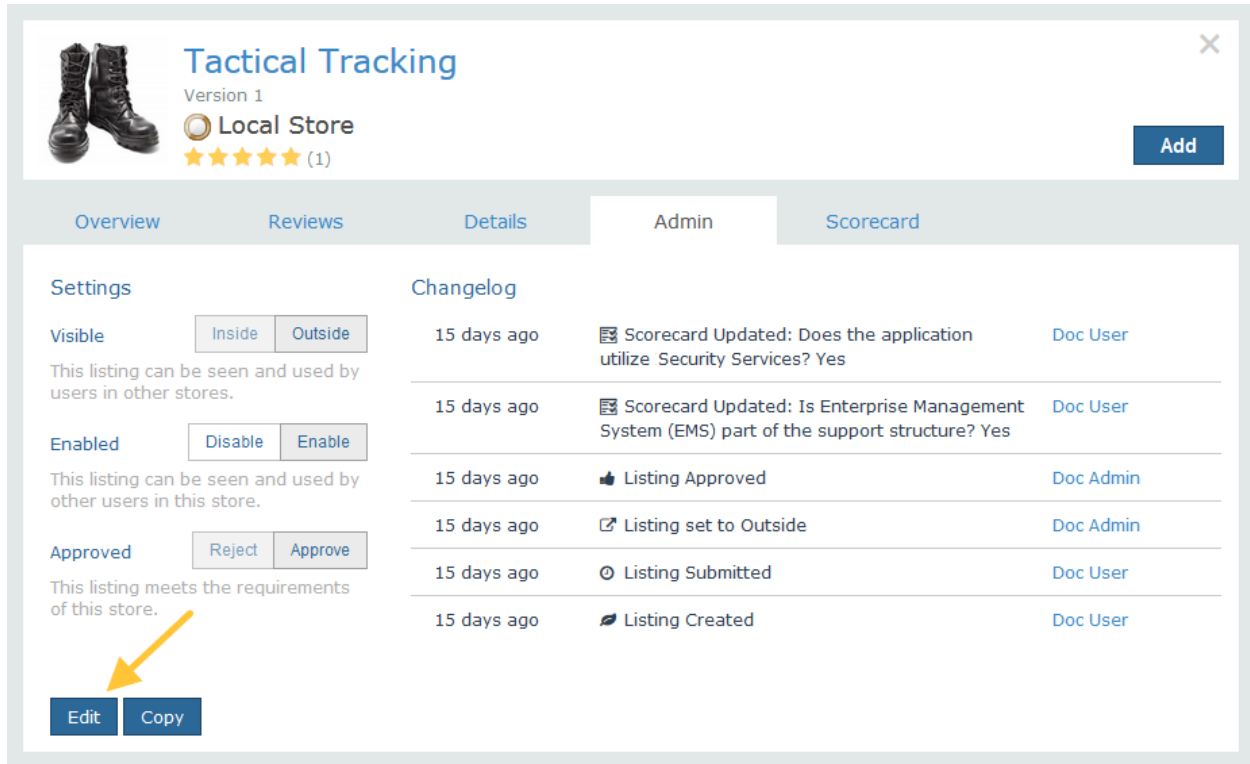
Figure 31: Edit Pending Listing

Users can access their pending listings through the drop-down User Menu by clicking User Profile. Pending listings appear under the Listing tab on the User Profile window. To edit a Pending listing:

1. Select a pending listing under the "Pending" heading.

2. On the Listing Quick View, click the Admin tab.

3. Click Edit from the lower-left (Figure 31) to open the Create/Edit form. The Listing Pending Approval form will show the same fields as the New Listing Form including the listing's current data.

4. Make changes to this form and then click Save.

5. Click the Cancel button to revert the listing's changes back to its pre-edited data.

   Users will see the following message at the top of the Listing Pending Approval form when editing a listing which is pending approval.

Figure 32: Pending Listing

A user can also edit a listing rejected by a Store administrator.

To edit a Rejected Listing:

1. Click the Admin tab on the Listing Quick View. You'll see the reason for the rejection in the Changelog. (Figure 31).

2. Click Edit, the Create/Edit Form will open displaying a Rejected heading. To see the Rejection Justification, click why? An example is shown below:
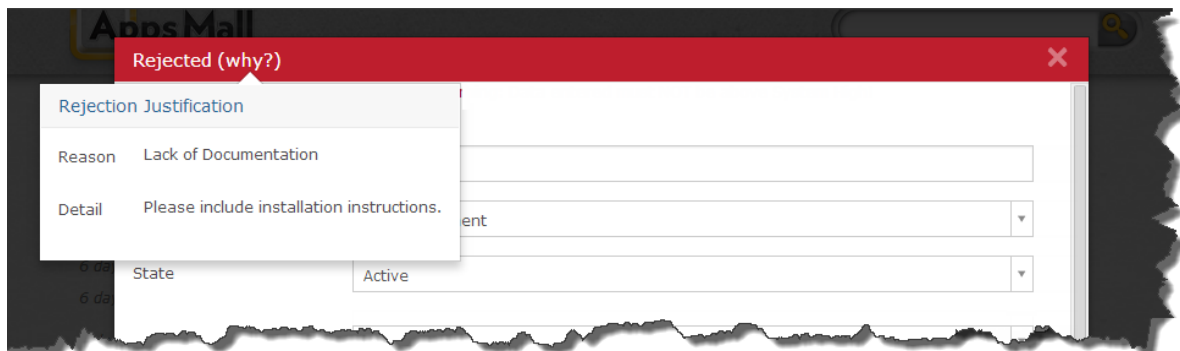
Figure 33: Rejected Listing

3. If you opened the Rejection Justification, click why again to close it.

4. Change the form and then click Save.

5. To re-submit this listing for Store approval, click the Submit button from the upper-right side of the listing's Quick View.

4.7 Required Listings

4.7.1 Assign Required Listings

Administrators and listing owners can designate specific relationships between listings with Required Listings. When an owner adds Required Listings to their listing, the Required Listings are automatically added when the listing that requires them is added to OWF.

To add required listings when you are creating a listing:

1. Use the drop-down user menu to select Create Listing, as explained in section 4.5: Create Listings.

   Note: If you're adding the relationship to an existing listing, open the Create/Edit Listing form using the instructions in section 4.6 : Edit Listings.

2. Click the Required Listing field; it changes to a drop-down field.

3. Scroll to the listing(s) you want to add and repeat until all required listings are associated with the listing as shown below:
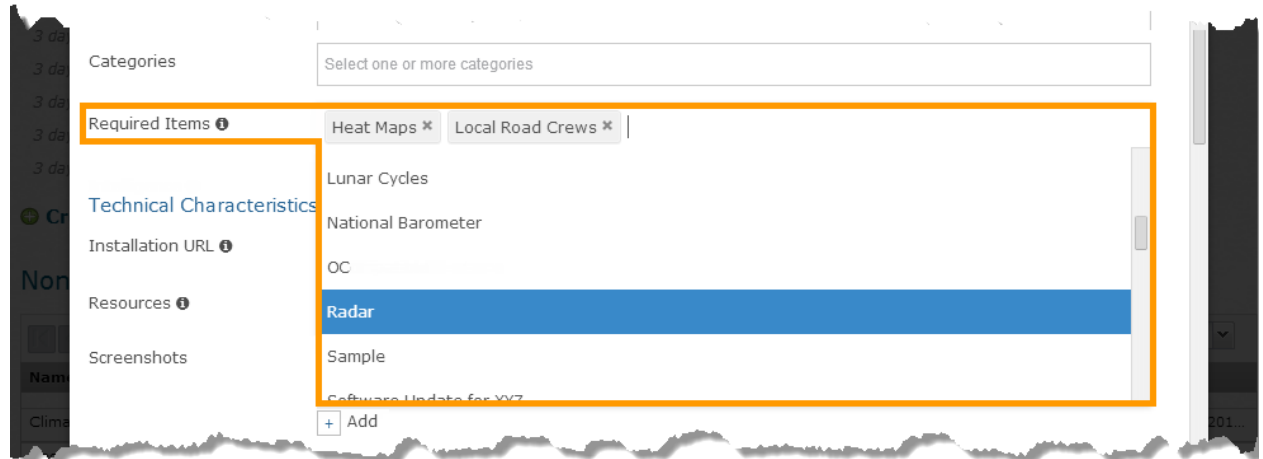
Figure 34: Add Required Listings from the Create/Edit Listing Page

Optional: To remove a listing from the Required Listings field, click the X to the right of the Required Listing.

4. When complete, move to the next field on the Create/Edit Listing form.

5. To save the association, you must click Save at the bottom of the form. The newly added required listings will be seen under the Details tab on the Listing Quick View.
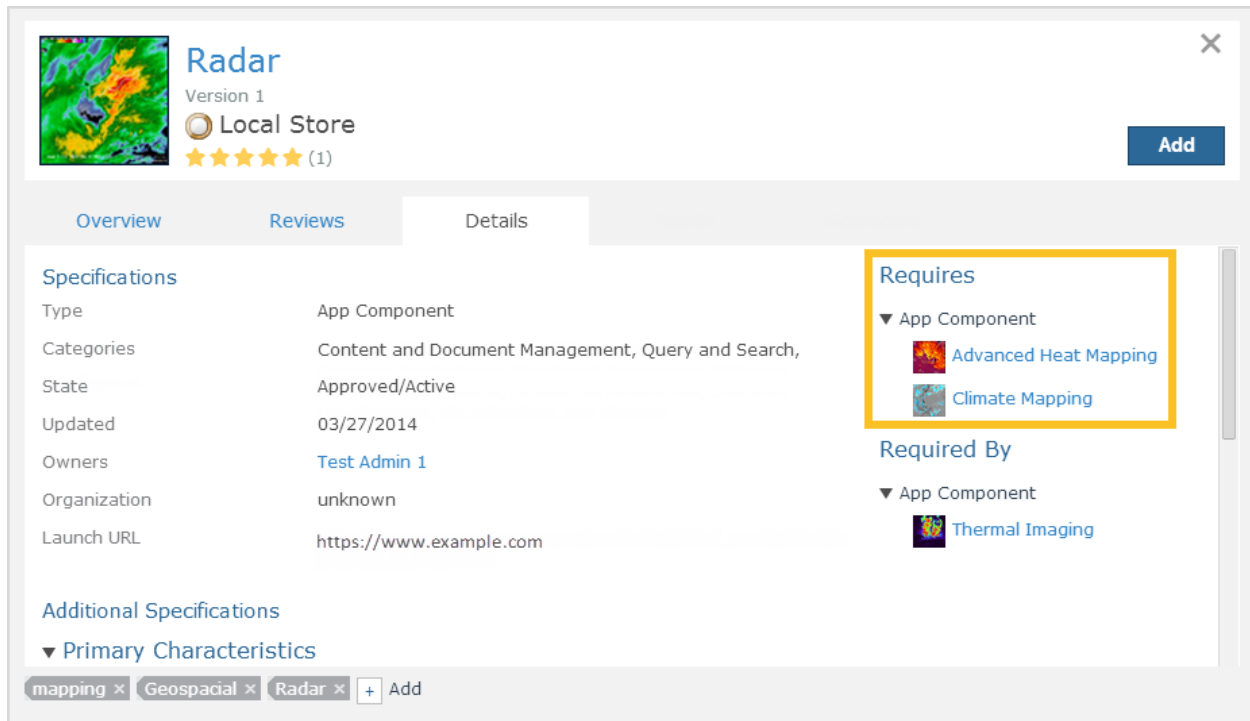
Figure 35: Quick Listing display of Required Listing

On the right side of the Details tab, the Requires section displays all the required listings. To view one, click its name or icon. It will open in the window. To return to the initial listing, click the Back to Listing button in the upper left:
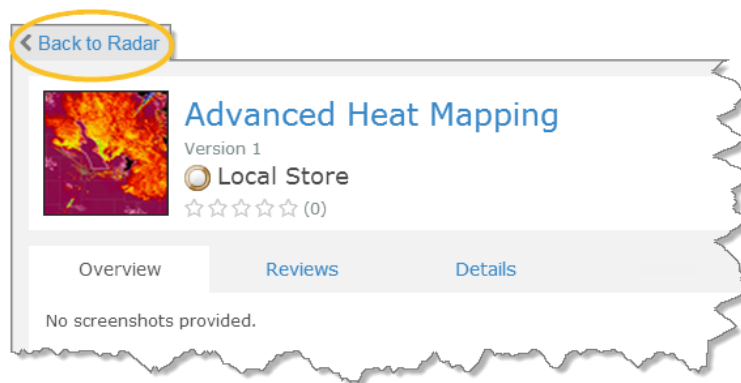
Figure 36: Back to Listing button

To remove a Required relationship, a listing owner or administrator must open the Create/Edit form by clicking the Admin tab and then clicking Edit. On the Create/Edit form, click the X beside the Required Item you want to remove. Then, click Save at the bottom of the form.

Note: While the required relationships between the listings is removed, no changes are made to the actual listing. They will not be deleted from the system.

4.7.1.1 "Required by" Association

As discussed in 4.7: Required Listings, listings can require additional listings for their functionality. When this type of association is made, not only does the primary listing require the secondary listing, but the secondary listing is labeled as being "required by" the primary listing. See the highlighted area of the figure below, for details:
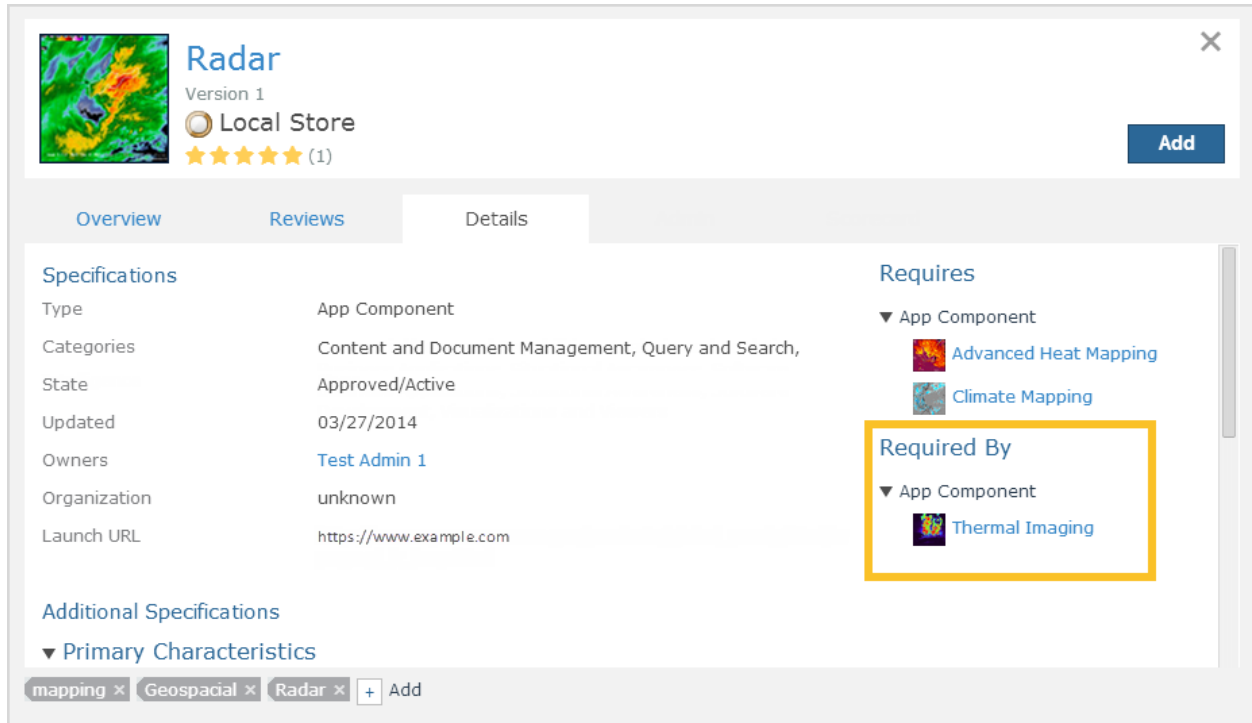
Figure 37: "Required By" Notation

4.7.1.2 Required Listings in the Recent Activity and Changelog

With the addition of both "required" and "required by" listings, four unique notification types have been added to "My Listings" pane:

- The listing no longer requires < listing name>.

- The listing is no longer required by < listing name >.

- The listing now requires < listing name >.

- The listing is now required by < listing name >.

5   Customize Your Experience

5.1   User Profile

From the User Profile page, users may view all of the listings that the contributor has added (contributions) to the Store, as well as any comments or tags that the contributor wrote about any listings in the Store. Users can edit their own profiles and see all of their listings including ones that are pending or reject. Any user can read another user's profile but they will only see their approved listings. Administrators can see and edit any other users' listings, reviews and profile information.

To edit your profile:

1. Click User Profile from the drop-down User Menu.

2. When the Profile window opens, click the Bio field on the Profile tab to edit your personal description.

3. Click the [✔] to save.
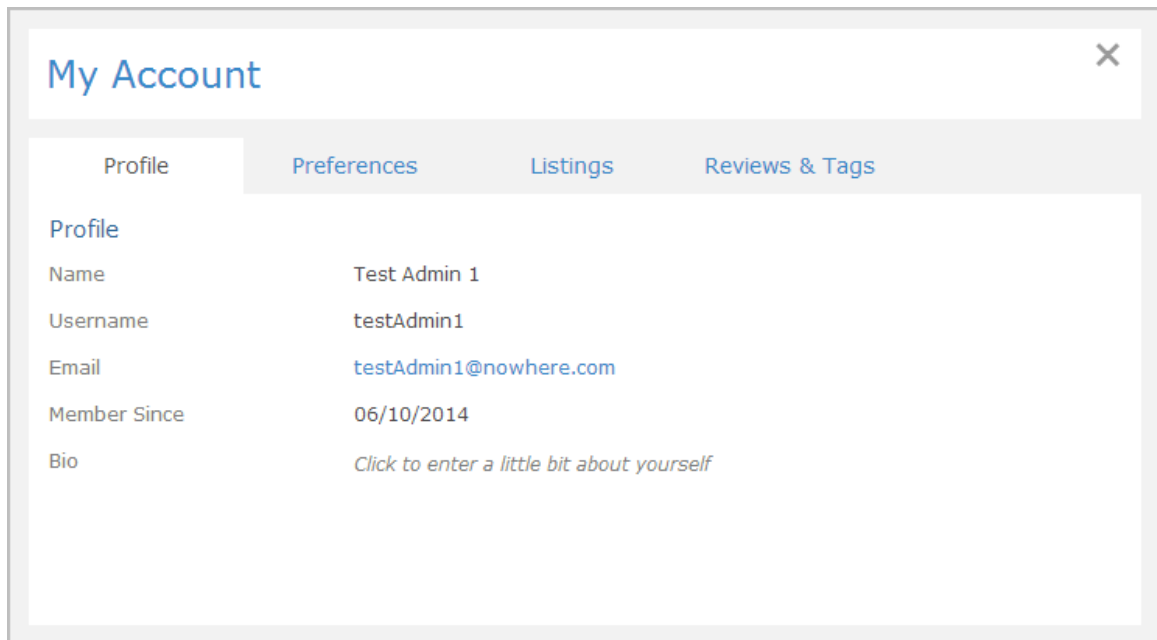
Figure 38: Contributor Profile Page

Only the creator of the profile or an administrator can edit a profile. Once saved, any user can see another user's profile when they click the user's name under Recent Activity on the My Listings page, the Review tab on the Quick View, etc.

The Contributor Profile contains the following tabs:

- **Profile** — Allows the users to enable or disable Store animations. Some users prefer to not see animations for personal or system performance reasons. By

default, the animations are disabled. To enable, click the slider button beside the Enable Animations field under the Preferences heading on the right side of the window.
Note: Only the profile owner controls their own animations. Administrators cannot change them for anyone else.

- **Listings** — Shows all listings owned by the user. Under the Listings tab, listing types (App Component, OZONE App and Web App) are separated by Pending, Approved, Rejected and In Progress. To hide individual listing names and icons, use the triangle to the left of a listing type. On the right, Recent Activity displays any change that occurred on one of the listings owned by that user. For more information about terms used in the Recent Activity log, see 5.1.1: Recent Activity Terms.

  Note: When a user views another user's Listing tab, only the approved listings appear. Administrators will see all the listings.

- **Reviews & Tags** — Shows all the comments, ratings and tags that the contributor made for listings in the Store. From this tab, users can delete tabs that they created by clicking the X to the right of the Tab. If a user deletes their tag, it will be removed from all listings in the system that use it. If they click a listing that is associated with a tag, that listing's Quick View will open. To return to the profile, click "Back to UserName" in the upper left corner.

5.1.1 Recent Activity Terms

The following terms are used in the Recent Activity log in the Store:

- **Submitted** — The owner submitted the listing for administrator approval.

- **Rejected** — An administrator rejected the listing.

- **Modified** — An owner or administrator of the saved listing modified it.

- **Created** — Refers to the first time the listing was saved.

- **Approved** — An administrator approved the listing.

- **Enabled** — An administrator or owner enabled a listing.

- **Disabled** — An administrator or owner disables a listing.

- **Inside** — An administrator makes a listing visible to users inside the Store.

- **Outside** — An administrator makes a listing visible to other Stores.

- **Tag** – When someone adds a tag or an administrator deletes it.

- **Review** – An administrator can edit or delete a review.

To learn how "required" and "required by" listings appear in the "My Listings" pane, see section 4.7.1.2: Required Listings in the Recent Activity and Changelog.

5.2   Change Themes

The Store ships with three themes: Carbon, Cobalt and Oxygen.
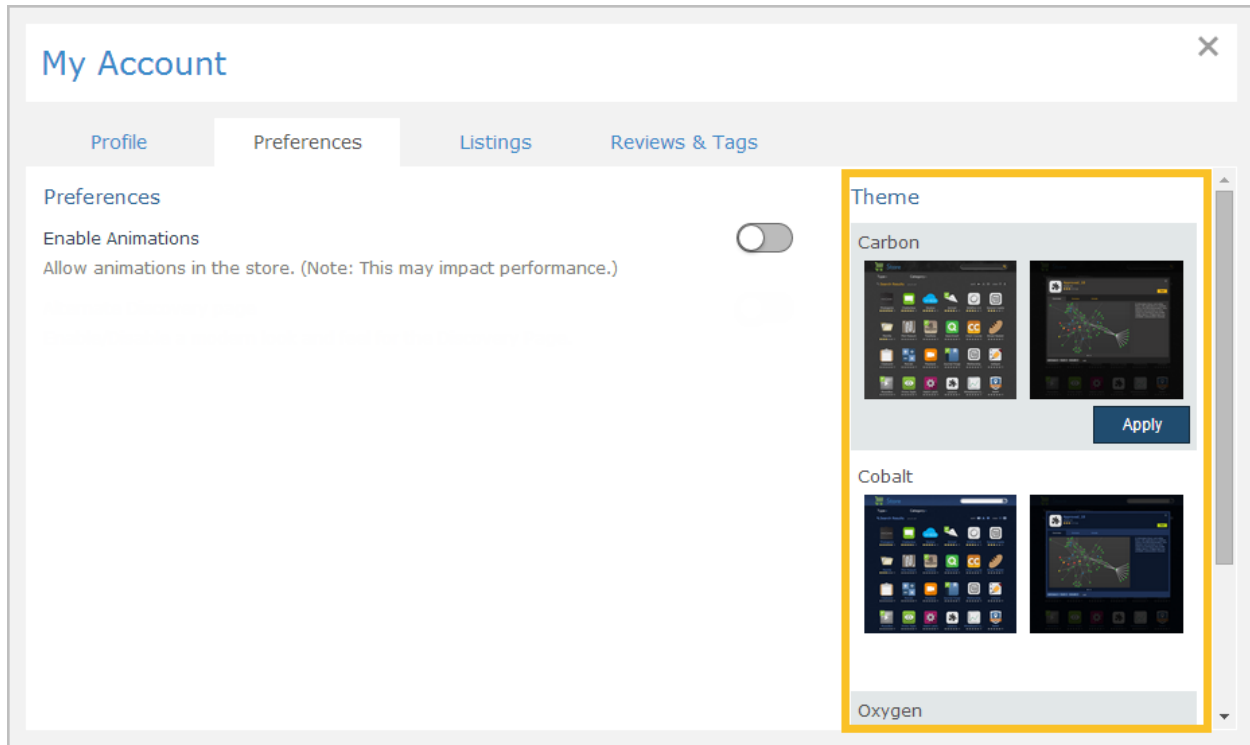
Figure 39: Theme Picker in the User Profile

To change Store themes:

1. Click the drop-down User Options located above the search bar on the right-side of the Banner.

2. Select User Profile.

3. From your User Profile window, click the Preferences tab.

4. The theme selector appears on the right. To change themes, select one and click Apply.

5. The screen will change to the new theme.

5.3   Enable/Disable Animations

To improve lag on slower systems, you may want disable animations.

To do this:

1. Click User Profile from the drop-down User Menu.

2. From the User Preferences tab, click the Enable Animations slider button.

3. This enables animations in the Store. To disable animations in the OWF, follow the steps in 5.3: Enable/Disable Animations.

Note: Enabling animations may cause issues with third-party plug-ins like Google Earth.
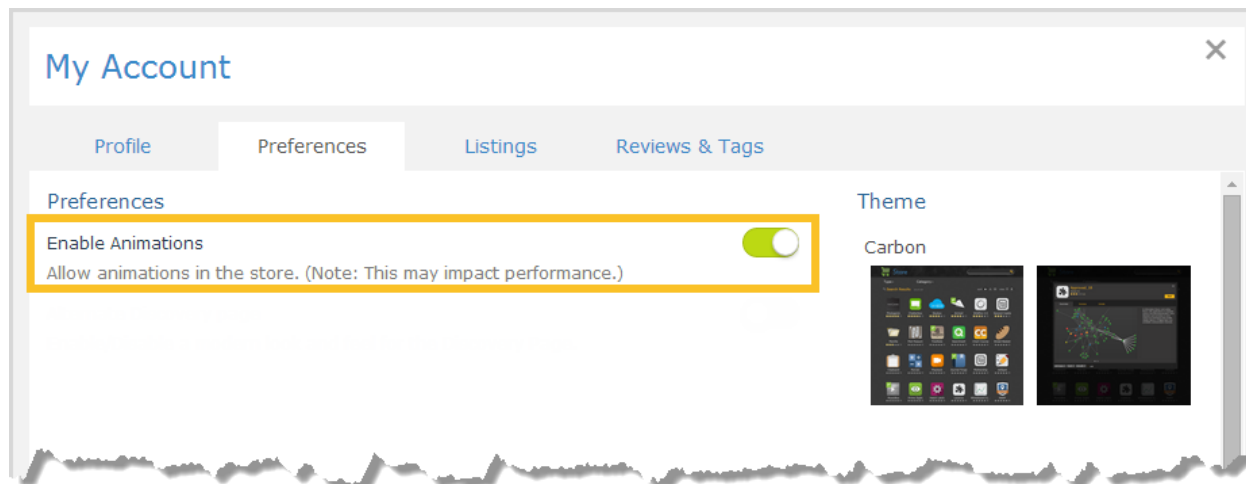
Figure 40: Animations in the Store

Appendix A Glossary

Table 4: Glossary

Term	Definitions
Accordion Layout	Accordion layouts display app components in equal, horizontal panes. When an app component is added to the application, all the app components are resized to display equally in the OWF window. The OWF window does not scroll. Each individual app component will scroll using its own scroll bar.
Affiliated Store	See Partner Store
Applications/Apps	Apps can compile resources and make them easy to access. They allow administrators and users to group App Pages into folder-like collections that allow for easy transition from one page to another.
App Builder	A tool in OWF where users can create or edit their own customized Applications.
App Component	A lightweight, single-purpose Web application that offers a summary or limited view of a larger Web application. Formally referred to as a widget, an app component is a global description for a piece of Web content that can be configured by the user and displayed within an application.
App Component Menu	The App Components Menu displays all available application components. Use this feature to start or add components to an application.
Application Divider	The horizontal or vertical lines that separate panes in an application layout.
Application Layout	The outline of each section of an Application.
Application Layout Type	There are five standard types (accordion, desktop, portal, tabbed, fit). You can use them as a section of the application layout or the whole layout.
App Page	App Pages have customizable layouts that organize app components and improve users' workflows.
Approval	After a user creates a listing, they must submit it to an administrator for approval.

Term	Definitions
Dashboard Designer	This is the retired name for the App Builder.
Desktop Layout	Similar to the desktop on most personal computers, allow the user to open app components from the My Apps menu and place app components freely in the window and minimize them on a taskbar.
Dividers	(see Application Dividers)
Favorites Flag	After a user adds a listing from the Store to OWF, a green flag appears over the left corner of the listing icon on its Quick View, the Discovery Page and in search results.
Filters	A feature used to reduce the number of search results type or category.
Fit Layout	Fit layouts allow a user to place a single app component on the screen. An open app component shows no border or chrome and will occupy the full size of the available framework. Think of it like making a PowerPoint presentation full screen within the designated OWF window. If a user wishes to open an additional app component, they will be notified that the initial app component will be replaced by the new one.
Help	Repository of instructional guides and video tutorials.
Intent	Intents are the instructions for carrying out an app component's intentions.
Listing	Any software application or component that a user enters into the Store is called a "Listing." Listings can be a various types of Web content.
Listing Approval	(See Approval)
List View	By default, the Store returns search results in a grid view. To view the Search Results in List view, click the ⊟ icon in the upper-right corner of the Search Result page.
Marketplace	Proper name for the Store, this guide uses Store as a generic term because some users may customize their systems and remove the term Marketplace.

Term	Definitions
My Apps Menu	In OWF, this button opens the My Apps Menu used to find, start and manage applications. Use the menu to get details about an applications and application pages, discover new applications in the Store and access the App Builder.
My Listings tab	The second tab on the User Profile, My Listings shows recent activity, non-approved listings and approved listings.
OZONE	The name of the whole system which comprises OWF and the Store.
OZONE App	The name used for Applications or Apps in the Store, see Application for a complete definition.
OWF	A framework that allows information from different companies and servers to communicate inside a browser window without sending information back to the respective servers.
Owner (Listing)	Pre-populated by the authenticated username at the time the listing is created. Ownership can be reassigned by typing a new owner's name in the owner field on the listing page. To add more than one listing owner, click the + button below the Owners field.
Panes	(see Application Panes)
Partner Store	Previously called an Affiliated Store, a Partner Store is a store that another organization uses for their system. When a local store is connected to a Partner Store, users in the local store can search for and add listings from that store.
Pending Listing	After a listing is submitted to (or rejected by) an administrator it is pending until an administrator approves it.
Portal Layout	Portal layouts comprise a column-oriented layout that organizes app components of varying heights. Each new app component loads above the first one on the screen. The user drags a dividing bar to specify app component's height. The app components and the OWF window scroll.
Quick View (Listing)	When a user clicks on a listing from the Store's Discovery Page or Search Results, the Quick View appears providing basic information about the listing.

Term	Definitions
Rejection Message	The message that appears when an administrator rejects a listing.
Required Listings	An association between listings. Ex. If Listing A needs Listing B to function, Listing B is a Required Listing.
Short View	The short listing view provides users with basic information about the listing. Listing details included in the short listing view are the listing's name, icon, originating store and ratings which are described below.
Store	Hosts an assortment of available listings; users can search and add any of those listings to their App Components menu.
Tabbed Layout	Tabbed layouts display one app component per screen. Like browser tabs, the tabs at the top of the screen switch from one app component to another.
Toolbar	The navigation bar at the top of the application. It links to a user's applications, app components, the Store, online Help and a host of options from the drop-down user menu.
User	A person signed in to the OZONE application without administrative privileges
Web App	A program that cannot interact with other App Components. Web Apps automatically open as their own OZONE App or in a new browser tab.
Widget	The name App Components used to be called.

Appendix B   Intents: Create & Edit Dynamic Listings

Intents are the instructions for carrying out an app component's intentions.
Note: This information is only metadata used as a placeholder. For any intents to function in OWF, a developer has to code the actual function into an app component. Instructions for doing this are found in the OWF Developer's Guide.

There are three main aspects to intent:

- **Action** – The app components action, think of actions as verbs like view, share, edit, etc.).

- **Data Type** – The type of data that is requested or sent.

- **Send/Receive** – The direction of the intent request. An app component can send, receive or send and receive an intent request.

Intents allow users to determine how app component(s) use and share data. This binding capability enables an app component that collects data to easily send that data to an app component that displays data in an understandable way.

Example: The NYSE app component records daily stock exchange rates. It stores the data as a giant file that is difficult to read and understand. To make the data useful, the NYSE app component has a "send" intent that allows it to identify app components that can graph data. Any app component that has can "receive" graphing intents will appear. Then, the user decides which graphing app component they want to send the NYSE app component's data.

Note: App Components may have multiple intents associated with them. Users cannot create app component intents. Administrators and developers (logged in as administrators) add app component intents through the OWF interface. Developers also add the intents through app component descriptor URLs. OWF follows standard Web Intent specifications documented at Webintents.org.

B.1.1   Add Intents to Listings

When an OZONE App Component is created in the Store, there are no intents associated with it. Users/listing owners can create, edit and delete intents for OZONE App Components using the Create/Edit Listing page.

To add an intent:

1. Open the Create/Edit Listing Page see section 4.5: Create Listings.

2. On the Create/Edit Listing page, select listing type: App Component

3. Scroll to the Intents field and click Add.

4. Select the intent's action, data type and select the direction(s) of the intent.

   The Store ships with the following **Actions**:

- **Edit** - Allows app components the ability to edit a specified data type.
- **Pick** - Allows app components the ability to pick files from their service to use in a client app component.
- **Save** - Allows app components the ability to save data.
- **Share** - Allows app components the ability to share a specified data type.
- **Subscribe** - Allows app components the ability to subscribe to a specified data type.
- **View** – Allows app components the ability to view a specified data type.
- The Store ships with the following **Data Types**:
  - o **Audio** - Audio files
  - o **Image** - Image files
  - o **JSON** - JSON documents
  - o **Text** - Textual information
  - o **URI** - URI - Uniform Resource Identifier
  - o **Video** - Video files

App Components can **send** and **receive** intents:

- **Send** – Allows app component to send information to other app components
- **Receive** – Allows app component to receive information to from other app components

Users cannot create new intents, however administrators can, see the Store Administrator's Guide for details.

B.1.2 Edit & Delete Intents

To edit or delete a listing's Intent, start by editing the listing:

1. Open the Edit Listing Page see section .

2. On the Edit Listing page, scroll to the Intents section.

3. To change the intent:

   a. **Edit**: In the intent field, select a different Action or Data Type from the drop-down menus or click the Send or Receive button to edit the direction.

   b. **Delete**: Scroll to the intent field that you want to remove. On the far left, click the ☐.

Appendix C   Lucene Index Search Terms

The following table will provide instructions for users who want to conduct extremely specific searches. These terms are based on the Store fields used in the Lucene indexes. For instruction on Lucene-based query delimiters (i.e. wildcards, etc.) see the Lucene documentation.

To perform a detailed search, enter a search term from the following table in the Search Window followed by a colon and the search criteria. For example, to search for listings that are pending, enter: **`approvalStatus:Pending`**

The following examples use the extremely specific searches:

- Compound conditions are connected with AND/OR operators. For example, **`isOutside:true AND types.title:"App Component"`** returns all app components visible to users outside the Store.

- Parentheses are used to group conditions. For example, **`NOT( isOutside:true AND approvalStatus:Approved)`** returns all types that are not approved or that are not visible to the outside.

Table 5: Search Criteria

Store Name	Search term	Description of search criteria	Search criteria
Approval status	approvalStatus	Results by status	Approved, "In Progress", Pending
Date approved	approvedDate	Results by approval date	date in the following format: yyyyMMdd'T'HHmmss.SSSZ
Average rating	avgRate	Results by average rating	Numeric
Categories	categories.title	Results by category title	category name
Comments	itemComments.text	Results by comment	a word within the comment text
Comment Total	totalComments	Results by the number of assigned comments	Numeric
Date of last activity	lastActivityDate	Results by the date of last activity	Date in the following format: "yyyyMMdd HH:mm"

Store Name	Search term	Description of search criteria	Search criteria
			Note: Two spaces between day field and hour field
Enable/Disable	isHidden	Results by the enable/disable feature	0 or 1
Organization	organization	Results by the owners' organizations	a word in the organization name
OWF Background Properties	owfProperties.background	Results by the Background field	true or false
OWF Singleton Properties	owfProperties.singleton	Results by the Singleton field	true or false
OWF Visible in Launch Properties	owfProperties.visibleInLaunch	Results by the Visible in Launch field	true or false
Owners' display names	owners.displayName	Results by owners' name	owners' first or last name
Owners' username	owners.username	Results by owners' username	owners' complete username
Release date	releaseDate	Results by the release date	"yyyyMMdd"
State	state.title	Results by state	name of state
Technical point-of-contacts	techPocs	Results by technical POC	value entered in the Technical POC fields
Total Votes	totalVotes	Results by the number of users that rated the listing	Numeric
Types	types.title	Results by type	name of type

Store Name	Search term	Description of search criteria	Search criteria
URL (for documentation)	docUrl	Results by documentation URL value	full URL in quotes
URL (for installation)	InstallUrl	Results by installation URL value	full URL in quotes
URL (for launch)	launchUrl	Results by launch URL value	full URL in quotes
URL (Large Image)	imageLargeUrl	Results by large image URL value	full URL in quotes
URL (Small Image)	imageSmallUrl	Results by small image URL value	full URL in quotes
URL (screenshot1)	screenshot1Url	Results by screenshot URL value	full URL in quotes
URL (screenshot2)	screenshot2Url	Results by screenshot URL value	full URL in quotes
Version Name	versionName	Results by version name	value entered for version (usually numeric)

Appendix D   Known Issues

- Listing from Partner Store versions that predate version 7.14.0 will **not** have traversable Required/Required By or Profile relationships. Allowing those relationships to interact via the Profile and Quick View windows did not occur until version 7.14.0. To use this functionality, upgrade to a newer version of the Store.

- Functionality is maintained for IE7. However, due to the level of effort required to maintain older browsers and the assurance of style consistency in modern browsers, stylistic inconsistencies will not be pursued.

Appendix E Index

The following index lists every place in the document that the respective term appears. Be mindful that the index (which is generated automatically) includes every occurrence of the term. This may misrepresent some terms, for example, references to the App Component Menu will also appear in App Component column.