



Orchid Fusion VMS Application Partner Platform Developers Kit

Introduction

Orchid Fusion Apps are independently created extensions for integrating third party applications and custom functionality within the Orchid Fusion UI. Apps have authenticated access to the Orchid Fusion and Orchid API. After an initial registration, app developers are provided a unique key to begin developing and authoring their own Orchid Fusion Apps.

Orchid Fusion UI App Location

Each Orchid Fusion App is listed in the main navigation menu under the “Apps” sub-menu ([Figure 1](#)) and the left menu ([Figure 2](#)). Selecting an app from the navigation menu will navigate the user to the app’s page ([Figure 3](#)) where the app’s web content is rendered in an HTML iframe. Located at the bottom of the app’s page is the app’s provider name (author) and support information ([Figure 3](#)). Currently, Orchid Fusion Apps are contained only to the navigation windows and their own page, excluding all other UI components including the stage, timeline bar, and video.

Orchid Fusion App Hosting Architecture

There are two ways to host an Orchid Fusion App; Orchid Fusion hosted or externally hosted. Using Orchid Fusion hosted architecture, the app’s web content (HTML/JS/etc) is hosted directly on the Orchid Fusion server ([reference](#)). App developers are encouraged to use this architecture since it simplifies content management and authentication (reference **Orchid Fusion/Orchid Core API Authentication**). A walkthrough on how to create a Orchid Fusion hosted app can be found [here](#). However, if an app developer wants to render dynamic content independent of Orchid Fusion then external hosting is recommended ([reference](#)). In this mode the app’s web content is hosted on a server/service outside of Orchid Fusion. This allows an app developer to effectively change the UI at anytime without redeploying the Orchid Fusion App.

No matter which hosting architecture is used, app developers must be aware of cross-origin requests and CORS ([reference](#)).

Orchid Fusion/Orchid Core API Authentication

In most cases a Orchid Fusion App will need to access the Orchid Fusion API. If the app is Fusion hosted then the Orchid Fusion App can make direct requests to the Orchid Fusion API using the current authenticated user’s session (via browser cookie). An externally hosted app must first obtain the Fusion session ID (FSID) from the request header before making requests to the Fusion API ([reference](#)). In the case where a Orchid Fusion App needs to access the Orchid API the Fusion Orchid Proxy is recommended ([reference](#)). Orchid Fusion Apps can use the same authentication methods as the Fusion API to access the Orchid Proxy.

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Orchid Fusion App File Structure

Each Orchid Fusion App is located in its own folder within the Orchid Fusion Apps directory. The apps directory is specified by the “fusion.apps.path” property in the “fusion.properties” file. Each app requires a “conf” folder that contains the “app.json” configuration file. The “app.json” contains required fields that define vendor specific information, integration settings, and references to application artifacts ([reference](#)). For Orchid Fusion hosted apps an additional “web” folder contains all HTML assets for rendering the Orchid Fusion App.

Orchid Fusion App Installation

App developers can manually configure the app directory and files during development but a platform specific installer is recommended when deploying to a production Orchid Fusion server. For Linux based systems, either deb or rpm based packages are recommended. For Windows, [NSIS](#) or [WiX](#) are free toolsets for creating a Windows installer. In order to find the Orchid Fusion Apps root installation directory the installer should parse the “fusion.apps.path” property from the Orchid Fusion properties file.

The Orchid Fusion properties file location is based on the target operating system:

- **Linux** - canonical location “/etc/opt/fusion/fusion.properties”
- **Windows** - “<INSTALL_DIR>\conf\fusion.properties” (INSTALL_DIR value, registry HKLM\SOFTWARE\IPConfigure\fusion\Install_Dir)

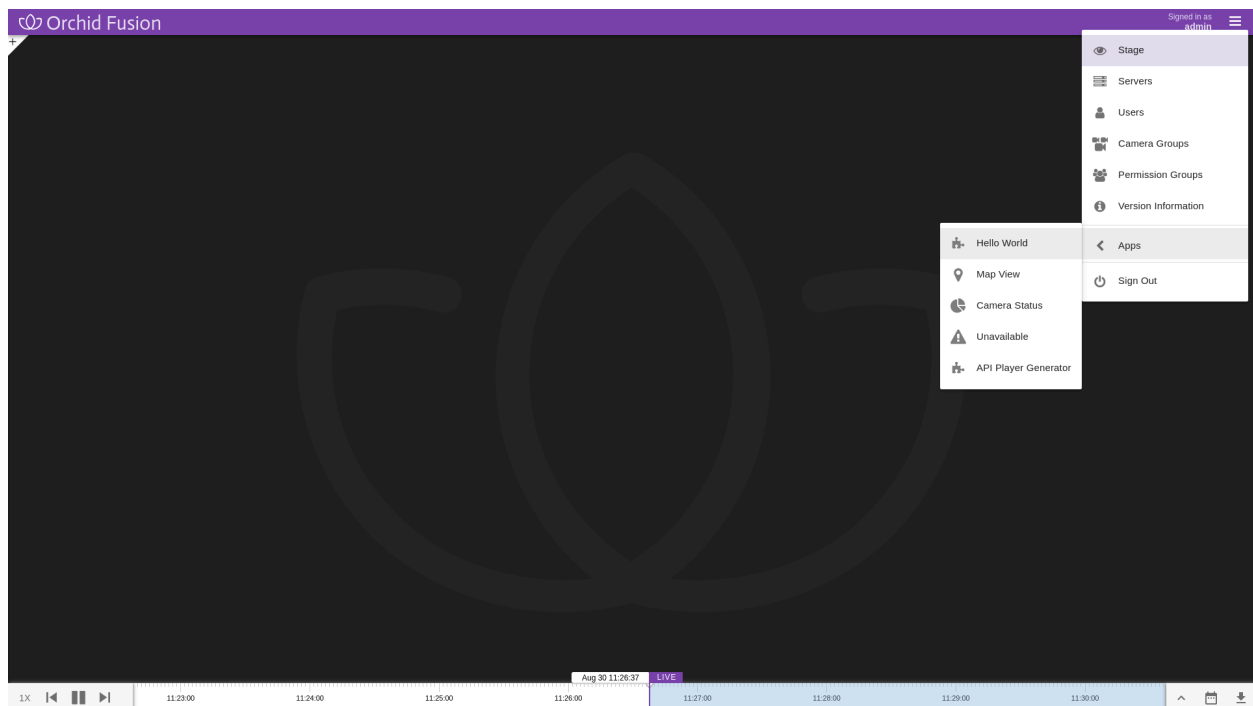


Figure 1. Orchid Fusion App Sub-Menu

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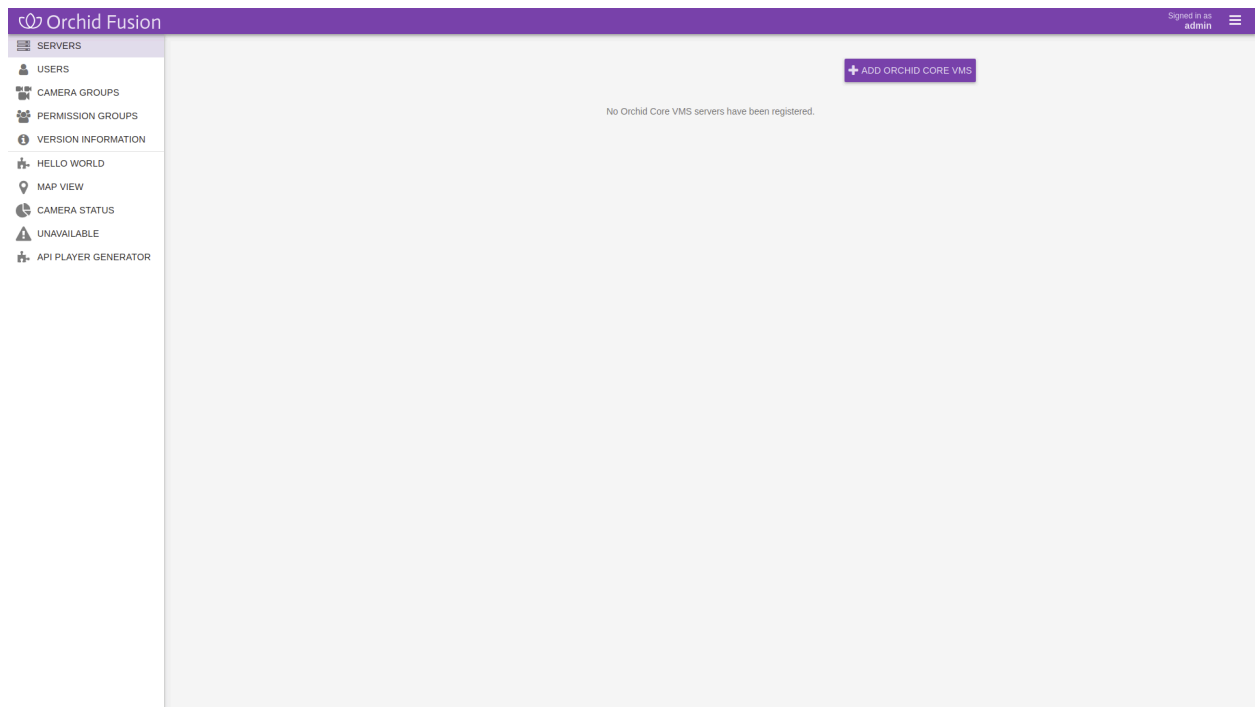


Figure 2. Orchid Fusion Left Menu

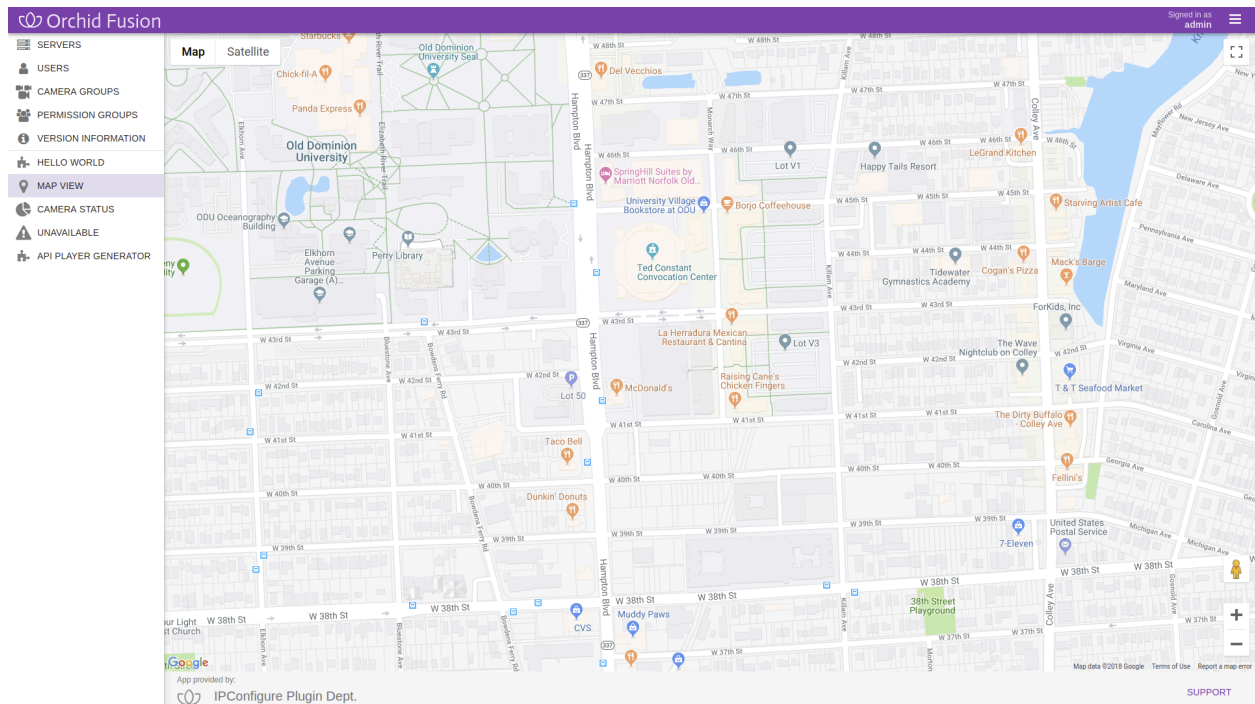


Figure 3. Orchid Fusion App's Page



Notes: