

VirtualViewer® HTML5

Integration Guideline

Understanding the Terminology

VirtualViewer® HTML5 Client: This is the HTML5 web-based client within the VirtualViewer product. The HTML5 client may be embedded within another application page or iFrame, as well as launched in a separate browser tab or browser window. The VirtualViewer HTML5 client communicates with the Content Server to traffic document content to and from the underlying file system. The index.html uses Javascript and CSS, which are located in the JS and CSS folders of the VirtualViewerHTML5 directory.

VirtualViewer Content Server: The VirtualViewer Content Server (or “servlet” as it is sometimes called) is the server portion of the VirtualViewer solution. Within this portion are the format libraries and the Snowbound libraries that power the VirtualViewer HTML5 Client and allow it to perform many of its viewing, conversion, annotation/redaction and document workflow tasks.

Content Handler: VirtualViewer Content Handler is a file the content server will use to perform the retrieval and saving of documents from within your content repository. The file is comprised of many API's that allow VirtualViewer to communicate with any content repository, file system, data base...etc. This file can be extended or rewritten and a sample of this file named “sampleContentHandler” is provided with the product. More details on the Content Handler and the API's within can be found in the “VirtualViewerAdministrator Guide” in the chapter labeled “Connecting to your document store”.

Typical Integration Practices

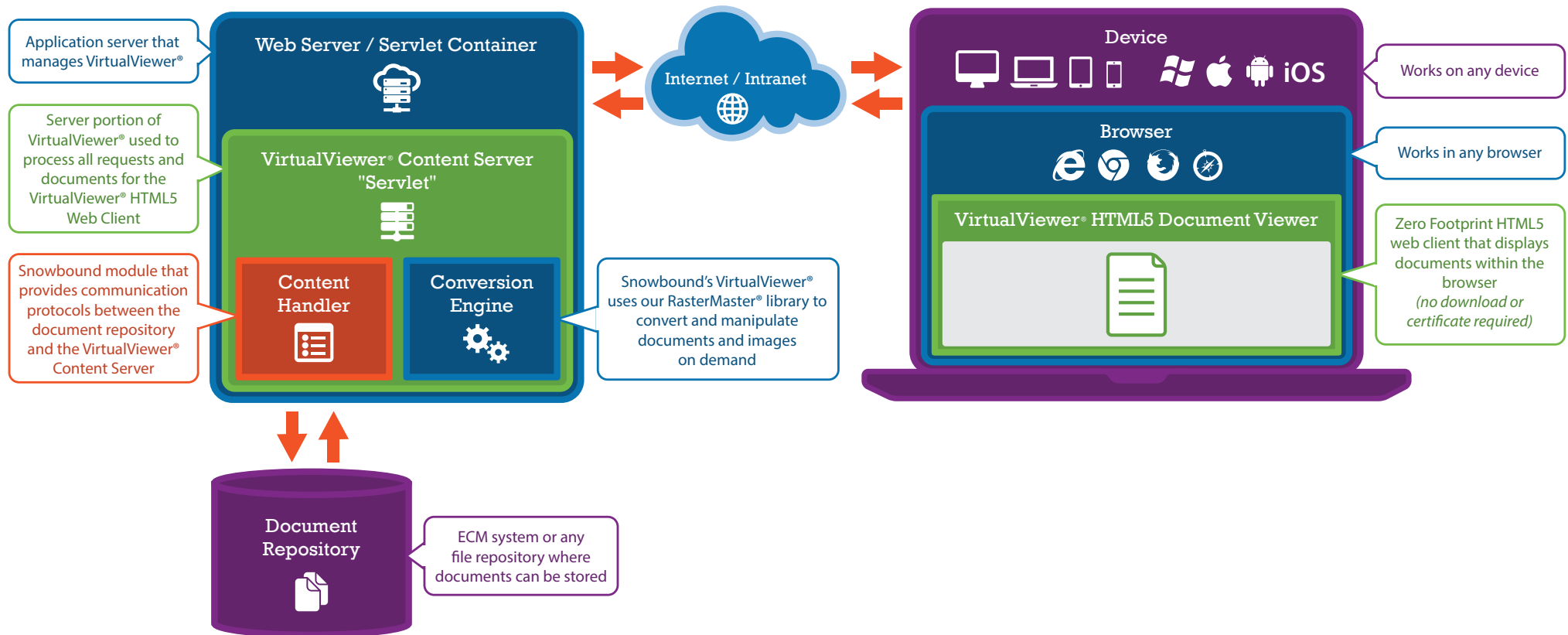
A typical integration of VirtualViewer HTML 5 into any web-based application is as follows. The VirtualViewer solution is delivered in one main directory (.war file for Java or .MSI for .NET versions). The main directory within is the VirtualViewerHTML5 folder. Located within this main folder are the Client files and the Server files. To integrate the VirtualViewer solution into another application, a typical deployment would involve embedding the index.html file into an application page or iFrame. You may use the files located in the JS and CSS folders to configure the VirtualViewer HTML5 client in terms of feature capability and UI design.

At the server level, VirtualViewer is configured to read to and from the “Sample_Docuemnts” directory in the VirtualViewerHTML5 main directory. VirtualViewer by default is using the sample Content Handler provided, which reads and writes from this or any file directory. You are free to either extend or rewrite this content handler to communicate with your own file system or content repository. You can read more about deploying your own custom content handler in the VirtualViewer Administrator Guide in the chapter labeled “Connecting to your document store”.



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Architecture Diagram





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Files Cheat Sheet

Below is a list of all the relative Snowbound files and folders delivered in the VirtualViewer HTML5 main directory. These are the files you will most likely be editing and integrating.

VirtualViewerHTML5 Client Files:

- ***index.html** - The HTML file that represents VirtualViewer. This is the file that is commonly embedded within an iFrame or launched in a separate window or browser tab. This file also contains all the Div's for the user interface.
- ***config.js** - Configuration file for VirtualViewer's functionality. Here you can set values that configure how VirtualViewer's user interface will appear and also how viewer functions will perform and operate.
- ***CSS folder** - This folder contains all the style sheets used to configure the layout of the HTML within VirtualViewer. This is mostly for UI design.
- ***JS folder** - This folder contains all the javascript files VirtualViewer will use to perform many of its functions. Some of these files may be edited to change/add custom javascript.
- ***Resources** - This folder contains all of the resources for the HTML5 client. These are the buttons, icons, graphics, etc..., used in the user interface.
- ***Resources/locale** - This folder contains all the localization files used to change the language options in the HTML5 client.

VirtualViewer ContentServer Files:

- ***Sample-Code** - This folder contains simple samples for both the HTML5 client and the Content Server.
- ***WEB-INF/web.xml (web.config .NET version)** - This is the main configuration file for the Content Server. Here you will set parameters for integration with the HTML5 client, options on format rendering, caching options, and general server behavior for reading/writing documents.
- ***WEB-INF/VvAjaxServer.jar/com/snowbound/snapserve/servlet/fileContentHandler (bin/fileContentHandler .NET version)** - This is the location for the sample Content Handler. By default, the sample Content Handler will read and write from the "Sample-Documents" folder. This can be changed via the "filePath" parameter in the web.xml file (web.config for .NET version). As mentioned above, the Content Handler is the main point of integration with your file system or content repository. With these API's you will either extend the existing content handler or write your own custom content handler.