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# Oracle Outside In Technology Statement of Direction

## Disclaimer

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## Purpose

This document is an overview of a development project to provide a new conversion output solution in the Outside In family of software development kits (SDKs). It is intended solely to help you assess the business benefits of integrating this output solution into your application.

## Introduction

Outside In Technology is a family of SDKs that provides ISVs various methods to access, transform and control unstructured content. The content on which it operates is the output of current and legacy desktop productivity applications such as word processing documents, spreadsheets, presentations, emails, and vector-based and bitmap based drawings. A summary of the current SDKs and their capabilities is presented in the table below.

SDK	CAPABILITIES	EXTRACT CONTENT	CONVERT CONTENT	DISPLAY CONTENT TO USER
Clean Content	Extracts content and delivers it interactively or as XML	●		
Content Access	Extracts content and delivers it interactively	●		
Search Export	Extracts content and delivers it as XML for search	●		
XML Export	Converts content to rich XML	●	●	
HTML Export	Converts content to static HTML	●	●	●
Image Export	Converts content to images		●	●
PDF Export	Converts content to PDF or PDF/a		●	●
Viewer	Displays content in client side viewer			●

Although these capabilities are robust and address many use cases, we are continuing to innovate to embrace modern software trends and to lead the document extraction, conversion and viewing market. The following requirements and market changes call for an additional solution in our product suite:

- Proliferation of knowledge workers' use of mobile devices requires the ability to display and interact with content on mobile devices, regardless of form factor or operating system.
- Increasing software management overhead costs require the ability to display and interact with content without installation of any additional software on the client.
- Rapid adoption of the "modern" browser and its support for advanced HTML enables high-fidelity rendering of native files in a browser without additional components.

In order to meet these requirements and take advantage of modern browser capabilities, a new Outside In output solution is in development that will convert native file content into to high-fidelity, interactive and scriptable HTML5.

## Outside In Web View Export

### WHAT IS IT?

Outside In Web View Export (WVX) will be a software developer's kit (SDK) that will enable an application to produce high quality HTML5 renditions of documents created by standard business software. Unlike other document-to-HTML products, the output that will be produced by WVX is intended to resemble the look and feel of the native applications in which the documents are produced. HTML5 and CSS3 will allow for a high level of fidelity, and a robust Javascript API will allow the WVX output to be interactive and customizable.

This "web view" of a document will require only the native capabilities of the browser – no plug-ins or external libraries will be used. Web View Export will require an HTML5-capable browser, but nothing else.

### WHAT CAN I DO WITH IT?

If you want more than just a high-fidelity display of a document, you will be able to enable web views to interact with the functions of your own web application by linking your own Javascript files to the WVX output. Scripting will allow you to customize how the view of a document behaves in response to user actions. It will also allow you to use your application's own design for the look and feel of user interface controls, and will enable you to extend the functionality of the web view.

Out of the box, web views will be capable of high-quality display with interactive features such as zoom and rotation. Document data will be made available through a Javascript API. Highlighting capabilities will also be available, with the ability to add highlights programmatically or through user interaction. Descriptions of highlights will be able to be retrieved and re-applied in a different session and/or on a different browser.

### HOW DOES IT WORK?

The planned architecture of Outside In Web View Export consists of two major components:

An **export module** with a robust API similar to other Outside In export products, which produces high-quality renditions ("web views") of input documents.

A set of **static assets** that will be used by the web views. By "static", we mean they are not generated from the input document, but will be created in advance as part of the SDK. These assets will include the Javascript library used by web views to provide the interactive viewing experience, and which also will expose a browser-side API that will allow web developers to customize and extend the capabilities of the web view. Additional static assets will include CSS and image files.

## ANSWERS TO SOME BASIC QUESTIONS

### **What can be used as input documents?**

Outside In Web View Export will operate on files created by hundreds of different applications. See <http://www.oracle.com/us/products/middleware/content-management/outside-in-tech/oit-supported-formats-1956984.pdf> for a complete list of planned supported formats. Out of the box, WVX will access any file on the local file system (with appropriate permissions.) The Export API also will allow your application to implement read/write functions that can replace operating system file access, to provide document data from any other storage system.

### **What is produced as output?**

The Export API will require that the exporter specify a primary output file. (As with input documents, the exporter will be able to replace the use of the local file system if so desired.) WVX will produce at least one HTML file, one Javascript file, and one CSS file in each web view of an input document. Depending on the configuration settings and the complexity of the input document, it may also produce image files, font files, and additional HTML files. When writing to the file system, the default behavior of WVX will be to place all generated output files in the same directory as the primary output file.

### **What else must be served with the output?**

The static assets provided with the Web View Export SDK will need to be made available to the browser in order for a document's web view to display properly. The web views will expect these assets to be served from a common URL directory, which is configurable.

## Conclusion

The Outside In family of SDKs provides ISVs with many methods to extract and render native file content. Browser advancements now make it possible to address new requirements arising from increased mobile device use, the need to reduce software management overhead, and the adoption of modern browsers. Oracle Outside In Web View, currently in development, will provide ISVs with the ability to convert native file content into to high-fidelity, interactive and scriptable HTML5.



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