



Purpose

The Interplay® SOAP API makes integration between Interplay Media Asset Manager and other software systems simple, quick, robust, and scalable. The Interplay SOAP API leverages Interplay's service-oriented architecture and is based on open standards such as XML (eXtended Markup Language) and SOAP (Simple Object Access Protocol).

Interplay Integration Service provides a high-level SOAP API for simple and quick integration with the Interplay backend. It is publicly available to Interplay users and will be maintained in future releases.

The low-level SOAP APIs of individual Interplay services like Video Analysis Service, User Management Service and Workflow Engine allow for direct integration with specific Interplay services and are used by Interplay applications. These low-level SOAP APIs are not publicly available and are subject to change in future releases.

Functionality

Interplay Integration Service provides SOAP API calls for user authentication and authorization, creation and deletion of media objects, retrieval and update of metadata, query for metadata and essence file locations, and initiating workflows. It provides the following functions:

Authentication	User authentication and authorization. Used to validate the user's identity based on a user name and a password, and authorize that user to invoke certain functions as well as see certain GUI configurations based on the rights associated with his or her role.
Metadata Access	Create and delete media objects Get the metadata associated with a media object identified by a Interplay ID or a legacy (external) ID. Update the metadata (attributes, strata) associated with a media object
Material Access	Get access to essences. Resolve essence file locations, storage status and storage transfer status.
Job Interface	Create, monitor, start, stop, and delete jobs based on predefined workflow templates. These workflow templates describe workflows using Interplay's Simple Workflow Description Language (SwoDL). These can be workflows for importing, exporting, and processing media objects and essence files. In addition, job parameters can be set and modified.

Interplay SOAP API

Interplay Media Asset Manager

Query for Media Objects	<p>There are three types of metadata queries available:</p> <p>Simple queries by which all attributes and strata included in the data model can be searched using a single query line using Boolean operators and wildcards. The media object properties, the sorting order and the maximum number of hits to be returned in the hit list can be specified.</p> <p>Advanced queries by which specific attributes available in the data model can be searched using Boolean operators and wildcards. The media object properties, the sorting order and the maximum number of hits to be returned in the hit list can be specified.</p> <p>Strata queries by which specific strata available in the data model can be searched using Boolean operators, wildcards and the “overlap” operator from Allen’s temporal logic. The media object properties, the sorting order and the maximum number of hits to be returned in the hit list can be specified.</p>
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All of the above functions use authentication and authorization to verify the identity and the rights of the user to invoke a function. In all of these functions, individual media objects can be referenced using Interplay’s unique global identifiers (GUIDs) or any of the legacy IDs used by the installation.

Capacity and Performance

The Interplay SOAP APIs support the same number of concurrent messages as the underlying services. To scale the SOAP API for very large systems, the different functional groups of the APIs can be distributed to separate servers.

Building Integrated Solutions

The Interplay SOAP API allows system integrators, partners and users to integrate Interplay with existing systems on process-to-process communication level, facilitating integration with third party products.

Third party systems can trigger jobs and request. A “Technical Design Specification” document for the SOAP API, containing the full API specification with examples, can be provided upon request, although this is usually under a mutual Non-disclosure Agreement (NDA).

Supported Platforms

Interplay applications require Intel-based workstations with Windows XP SP2 or Windows Vista (32 bit) operating system, Microsoft Internet Explorer 7 or 8 and .NET framework. Web based end-user applications also run under Safari 4.x. Interplay server components require Intel-based servers with Windows 2003 or 2008 Server, .NET framework and MS SQL Server 2005 or 2008 databases.

For more information visit www.avid.com/interplay

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