

ORIGIN

Server and Service Management System

The Origin Management system complements the Edgeware on-demand video servers by providing comprehensive monitoring, content management, playlist and configuration tools.

Origin provides a unified interface for monitoring, content management, playlist/playout scheduling and configuration of Edgeware server systems. Origin runs on a Linux server and is accessed through a web browser.

Origin has four modules, Monitoring, Content Management, Playlist/Playout Management and Configuration, that can be used individually or in combination. An API is also available for integrating Origin with third party management systems.

Monitoring

Log messages delivered by the video servers are collected by the Origin Monitoring module and stored in a database. Information on all sessions, together with network specific information, system status and alarms are logged. Origin provides tools for monitoring system usage and fine tuning the settings for optimal use of network resources. Both live status displays and aggregated views are available. Some examples of views are:

- Aggregated streaming bandwidth
- Number of active streams
- Content popularity statistics
- Per client statistics
- Asset propagation status (Convoy)
- Server status
- Alarms

Content management

The Content management module provides a simple ingest path for assets and metadata into the video servers. Assets can be physical files, virtual assets (playlists) or live TV streams with associated recording schedules. All new assets are checked for compatibility with the video servers, and metadata is validated. Watch folders can be configured to allow automatic ingest of uploaded files, or ingest can be initiated by the operator. Semi-static metadata can be associated with each watch folder, or provided through XML files for full flexibility.

Metadata can also be edited or entered manually through the user interface. The user interface has been designed to allow easy management, even of large asset libraries, through the use of advanced filtering of the presented information. Warnings are



Origin web-based user interface

generated for any condition that could impact on the service, for example when an invalid asset is found or when an expected asset is missing too close to the specified publish window.

Playlist/Playout management

The Playlist manager is used to create playlists, or virtual assets, by combining multiple physical assets into a logical unit. A playlist can be used to insert ads into a movie or to extract a section of a long file. A playlist is made up of a number of clips, where a clip is defined by reference to a physical media file, a start offset and a length. Trick play can be disabled on a per-clip basis. Once defined, a playlist can be used just like any other asset, for on-demand viewing or multicast playout.

The Playout manager is used to define multicast playout schedules, e.g. for Barker channels or NVOD applications. The Playout manager provides a graphical editor for creating and managing playout schedules, where playlists are scheduled for playout at specific times on a defined channel. Any number of channels can be used, up to the playout bandwidth available on the Orbit servers used for the playout. Multicast playout can be used in parallel with normal VOD operation on all Orbit servers.

Configuration

Origin can also be used as a central configuration interface, by providing access to the local configuration pages on each video server.

Origin gives you easy to use tools to monitor and manage your Edgeware server systems.

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