

Origin™

Management System for the Orbit 2x Servers

Preliminary

The Origin Management system complements the Orbit 2x streaming servers by providing comprehensive configuration and monitoring tools.

Origin provides a unified interface for configuration and monitoring of single- or multi-server systems. It provides easy access to all configurable parameters as well as aggregated statistics. Through the use of Origin, the management of streaming server systems is greatly simplified. The tools for optimizing network resources and server utilization will reduce the capital expenditure.

The Origin system is centered around a database that stores configuration information for all servers as well as logging information. A web-based user interface provides access to the database from any web browser. For high reliability operation multiple management servers can be run in parallel.

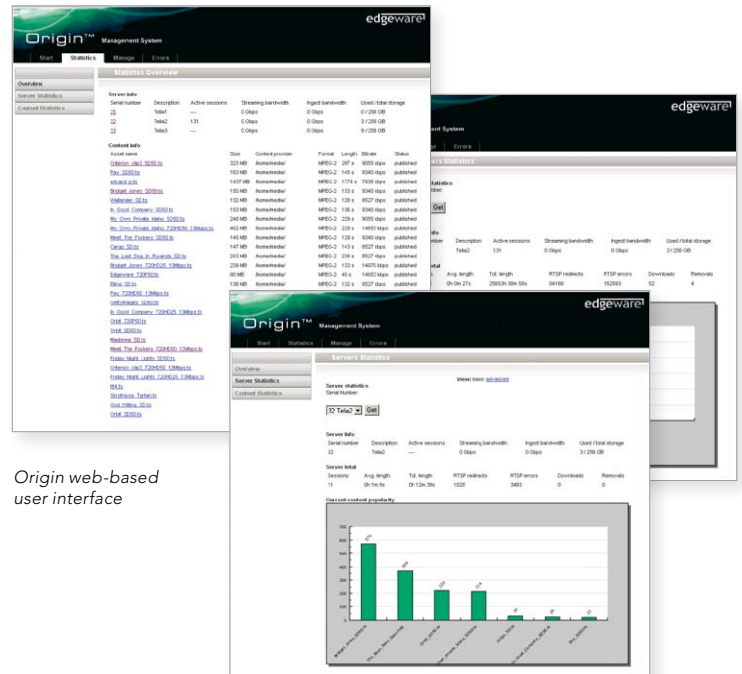
Configuration

With the use of Origin, single or multi-server systems are configured through a common user interface. Configuration information is stored in the database, with support for centralized backup and restore. Server groups can be created to simplify setup of servers with identical configuration. It is also easy to add new servers to an existing installation.

Each user is uniquely identified and different access levels can be assigned to each user to make sure only users with the right privileges can make critical configuration changes.

Monitoring and Reporting

Each Orbit 2x server delivers log information using standard *syslog* messages, which are collected by the Origin system and stored in the database. The messages contain user specific information, network specific information, as well as alarms when abnormal conditions are detected. Origin provides tools for monitoring system usage and fine tuning the settings for optimal use of network resources. It is also easy to identify if the system is operating near its specified limits, which may indicate that additional streaming or storage capacity is needed. The user interface presents both live status displays and aggregated views.



Origin web-based user interface

Some examples of available views are:

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

The system uses open standards, such as *syslog* messages, a SQL database and a PHP/web-based front end that allows for great flexibility and customization. Data can be extracted from the database for use with other tools.

With the introduction of Origin, the management and operation of streaming server systems is greatly simplified by providing a unified interface and extensive configuration, monitoring and logging capabilities.

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