



SeaChange®
 ≡ **Axiom™ Data Warehouse**
 Version 4.0

Comprehensive Reporting for On Demand Systems

The SeaChange® Axiom™ Data Warehouse is a web-based reporting platform for SeaChange Video on Demand installations. It includes a wide variety of predefined reports that provide system operators with a comprehensive view of system operation. Tools are provided for administrators to create additional custom reports as required.

Reports can be run interactively, or scheduled to execute at specific times. Scheduled reports can be configured to run daily, weekly or monthly. A complete schedule of reports can be set through the administration screens.

Reports are generated using Crystal Reports, and can be rendered in various formats including MS Word, MS Excel, PDF and RTF. Reports can be exported via email or FTP, either on request or automatically when generated.

Features

- Web-based UI with simple, intuitive and consistent layout
- A “watch list” provides instant status and navigation to recently run tasks and tasks that are pending or running
- Previously run reports can be downloaded at any time
- Flexible parameter lists can be defined for each report
- Many new performance enhancements, including report prioritization, queue management, index fragmentation repair and data import optimizations
- Enhanced security through new user management and authorization functions and centralized audit logs
- International character set support
- HTTP-based external interface allows external applications to request reports or maintenance tasks

Standard Reports

The Axiom Data Warehouse includes the following standard reports:

General

- System Summary – System Summary information.
- TechOps – One page summary of operations data.
- System Performance – Summary and/or detail regarding system performance.



Maintenance

- Asset DB Sanity – Checks and summarizes asset database content.
- Busy Errors – Errors generated when purchase was requested and not fulfilled.
- Daily Activity – Functional activity of system.
- Error Data Details – Error details for text export.
- Error Details – Error summary and details.
- Failure Percent Date and Hour – Failure ratio by node group, date and time.
- QAM – QAM statistics.
- Site Error Summary – Preview Statistics.
- Streaming Errors Detail – List of all failed CM requests.
- Tuning – Tuning statistics.

Maintenance - Content

- Asset Errors – Asset summary and details
- Content Report – Summary of available VOD content.
- Element Summary – Asset element counts, playtime and normalized playtime.

Maintenance – Resource Planning

- Stream Utilization by Nodegroup – Peak stream usage by nodegroup.
- Stream Utilization – Peak stream usage.
- System Stream Trends – Projects trends in stream capacity exhaustion.
- System Stream Usage – Utilization, contention and peak time by day, utilization and contention per node.

Maintenance – User Experience

- Short Stream Life – Summary and detail associated with shortlived streams.

Marketing

- Accounting Buys – Accounting by asset or studio.
- Key Marketing Metrics – Statistics relating to user control of streams.
- Monthly Buys – Monthly asset purchases.
- Previews – Preview statistics.
- STB Activity – Streaming and orders for a specific settop box.
- STB Summaries – Streaming order totals for each settop box.
- Studio – Summary of orders by studio.

- Usage Frequency – Preview statistics.
- User Behavior – Statistics relating to user control of streams.
- Weekly Buys – Weekly asset buys.

Provider

- Provider – Summary and detail for providers.
- Session Count Data – Histogram data of settop boxes per number of sessions.
- Session Summary Data – Statistics of assets ordered.
- Shelf Management – Content by provider.
- Streaming Data Detail – Streaming details about orders.
- Streaming Detail – Streaming details about views/buys.
- Zero Order Data – Assets with zero orders.

Ad Placement

- Ad Error Details – Ad stream error summary and details.
- Ad Streaming Detail – Ads streamed per buy.
- Ad View Data – Ads placed for text export.
- APS Errors – Errors in streams with ad content.
- APS Performance – Performance summary of the Ad Placement System.

Performance Characteristics

Data import and report generation performance has been significantly increased in V4.0 of the Data Warehouse. However, data import performance varies according to hardware configuration, number of streams and billing transactions in a day. Report generation can take anywhere from a few seconds to an hour or more depending on the type of report and the amount of data required to fulfill the report.

Compatibility

Version 4.0 of the Data Warehouse can be installed over any prior release.

- Version 4.0 can run on any of the three hardware configurations currently running in the field.
- DW version 4.0 is compatible with all versions of VOD up to and including version 3.2.