

BATON® with Cisco UCS

BATON's integration with Cisco Unified Computing System (UCS) helps media companies to provide maximum security, stability and flexibility for their product.

File-based digital media has changed the way media is delivered across end user devices, thus raising the potential for **content monetization** and **operational efficiencies**. Operational efficiency can improve when content quality is assured despite multiple transformations across various stages of the content lifecycle.

All the conversions and transformations leading up to media delivery make it an imperative for broadcasters to maintain the end user content quality. Therefore, media validation needs to be automated using an intelligent and flexible environment that can process huge volumes of data in an accurate and consistent manner.

BATON

BATON, industry's leading enterprise-class automated file-based QC solution is used by major broadcasters, post-production houses, IPTV, satellite and archiving companies for its thorough list of quality checks and enterprise-wide scalability.

BATON has been deployed in production use by global media companies of all sizes. BATON supports a wide range of media formats and offers comprehensive quality checks, including extensive subtitles and CC verification, audio language identification, PSE correction, loudness detection and correction. BATON's powerful Media Player for frame-accurate review, rich QC analytics and smart workflow tools are the best in class in the industry.

Solution Overview

- **Comprehensive Verification Methodology:** BATON and Cisco UCS integration provides comprehensive verification methodology thereby enabling content readiness.
- **Highly Secure and Flexible:** Provides secure and flexible environment for content verification
- **Seamless Integration:** Seamlessly integrates

Cisco UCS

Cisco Unified Computing System (UCS), introduced in 2009, acts as a server platform that comprises of computing components, virtualization support, networking and management. The companies using UCS in its product workflow are able to manage the deployment cost, thereby improve the scalability by assimilating different components to an organized platform that can be managed as a single unit.

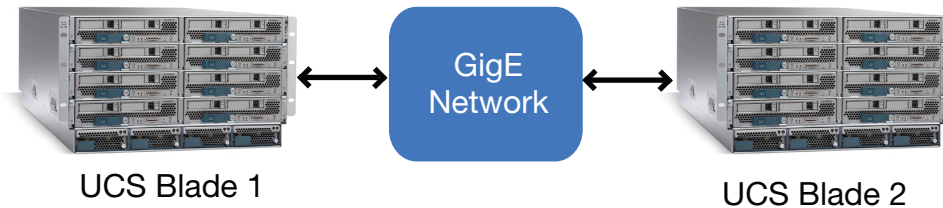
BATON Integration with Cisco UCS

In order to facilitate the BATON users to smoothly use Cisco UCS, BATON has been tested with Cisco UCS to ensure BATON's compliance with the open standards followed by the Unified Computing Systems and Nexus. This testing is termed as Interoperability Verification Testing (IVT). The main objective behind carrying out this test was to provide the Cisco CDN program partners with an approved, consistent and comprehensive verification methodology for acceptance of their application product into the Cisco CDN Partner Program.

The IVT test that was carried out at BATON end has verified its functioning with Cisco UCS with respect to performance of the verification manager, user interface and media file QC task.

Test Setup

BATON functionality has been tested on Cisco's UCS B and C series and BATON has successfully cleared the testing scenario. The test setup consisted of UCS B and C series managed by the UCS Manager (UCSM). On the basis of the deployment, more test units or devices might be added to the test bed.



Testing Architecture

Interoperability Verification Testing (IVT) Parameters

- BATON fresh installation
- BATON upgrade from an existing installation
- Connectivity between verification manager and checker
- Connectivity between database server and verification manager
- Smart Folder testing
- Media QC results for major types – transport, MXF, MP4
- Media QC run time for major media types – transport, MXF, MP4
- Test Plan import and export, Profiling of media files and Test Plan creation from profile

BATON - Key Features

- A comprehensive ML/AI enabled QC solution, available for Windows
- Hybrid QC platform with a combination of automated & manual QC checks on content
- Supports SD, HD, UHD, 4K Mixed workflows
- Intuitive, simplified and a very user-friendly web-based user interface
- Extensive time code related checks including start TC / discontinuity / GOP / LTC, VITC and more
- Built-in Test Plans for various Standards and Workflows such as DPP, iTunes, Netflix, Cable Labs, ARD_ZDF, Ingest, Playout and more
- First QC system to support VAST formatted ads
- Supports S3, Spectrum, Azure Blob Storage AMP, Avid Interplay and Google Cloud Servers, HTTP Server, IBM Cloud Object Storage, OpenStack Swift based storage

IVT Configuration

- Windows Server 2008 R2
- Firefox 30.0 or later
- Chrome 33.0 or later

Conclusion

BATON has been tested and proved to be compatible with the products using Cisco's UCS. The test validates that an application traffic or service requests on UCS do not consume excessive CPU and memory.

- Rich reporting features:
 - o Multi-language reports in HTML, XML, PDF, Excel and JSON
 - o Reports based on analytics, timeline, content structure and thumbnails
 - o Incremental reports of tasks in progress
 - o Compact reports to analyze verification summary
 - o Options to comment, tag, rate and compare reports
 - o Configurable e-mail, HTTP alerts including SNMP
- Supports user management & access control
- Comprehensive solution for task scheduling & monitoring
- Support for SOAP, XML-RPC, and REST APIs
- Efficient integration with media servers, transcoders, MAM archiving and workflow solutions through its easy to use web-services based APIs
- Scalable architecture for expansion of the BATON set up as QC needs grow