BATON Enterprise Release Notes

2025

This is **BATON Enterprise** version **9.3.2** for installation on the **Windows** platform.

The details of features added to BATON Enterprise version 9.3.2 are listed in the following sections.

The procedure for installing BATON is available in BatonInstallationManagerGuide.pdf.

The different BATON features and their usage instructions are available through an integrated help file within the application. Click the help icon available on BATON's home page.



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Product Updates

Optimization for Partial Analysis

 Optimized partial analysis of MXF(containingJ2K, ProRes, DNxHD, AVC-Intra video) and MP4(containingProRes, DNxHD, AVC-Intra video) files by enhancing the seeking mechanism to the required timecode.

New Checks

Dolby AC3/Atmos Audio Features

Feature Updates

Identify and report the profile level, version, number of programs in a file, and the standard frame and name recommendation for the Atmos SADM Format.

UI changes

For this, a new group, **Atmos SADM** Format, which is an XML-based format used to represent the audio metadata information in a structured form, is added under the **Dolby AC3/Atmos Audio** section.

The following checks are added under this group:

- Metadata Profile Level
- Metadata Profile Name
- Metadata Profile Recommendation
- o Metadata Profile Version
- o Program Count
- SADM Frame Recommendation

The checks to validate **the Dolby Atmos SADM** essences in MXF files will only work if the **BATONDOLBYATMOSSADM** license feature is available.

To know more, refer Online Help >> Test Plan Checks>>Elementary Audio Video Essence Checks>>Dolby AC3/Atmos Audio Feature

Test Plan Verification Settings

Compliance Support

 Detect and verify errors in MXF files against ARD_ZDF_XDF v1.0 Compliance.

To know more, refer Online Help >> Know Your Test Plan>>Configuring Test Plan Verification Settings>>MXF Settings>>Compliance

Algorithm Improvement

- Text recognition algorithm enhanced to improve performance of the following checks:
 - Time Code Text check
 - Telecaller Identification check



Licensing Updates

 BATON is transitioning to a new licensing mechanism to have better control over the licensing framework.
 Therefore, the existing license will not be valid after the upgrade. It is recommended to obtain a new license beforehand.

BATON Installation Manager (BIM)

The new user interface has been completely redesigned to offer a more streamlined and informative user experience.

- **Improved Navigation and UI**: A modernized dual-pane interface to guide you step-by-step through the installation process.
- **Minimum System Requirements Page**: Displays the hardware and software prerequisites before installation begins.
- Installation Checklist: Includes a dedicated screen for both manual and automated checks to ensure machine readiness.
- **Multiple Installation Modes**: Offers flexible options to suit different deployment needs.
- Automatic Detection of Domain in AWS: BIM automatically detects the domain configuration in AWS environment and accordingly sets the AWS domain configuration settings for installation.

To know more, refer BatonInstallationManagerGuide.pdf

BATON Database Manager

 Introduced new BATON Database Manager interface to manage backups and database operations for data protection and recovery.

You can perform the following operations using the Database Manager Tool to:

- Back up the databases
- Restore the backups
- View database information
- Monitor the activity logs

To know more, refer BATONDatabaseManagerUserGuide.pdf.

- Accessing BATON Database Manager using
 - BATON Interface: Directly access BATON Database Manager from the BATON UI via Setup > Services > Database Manager. To know more, refer Online Help >> Register and Access BATON

Components>>Use BATON Services>>Perform Database Management Tasks

- BATON Service Manager (BSM):
 - Access and modify port or start/stop the BATON database services.
 - A new service, Baton Database Manager v1 is added for managing the Database Manager tool. This service runs on the default port 8643.
 - Update the logon user for Database Manager.

To know more, refer BatonInstallationManagerGuide.pdf



Auto Shrinking of Checker Servers

- Optimized AWS EC2 Costs: Enabling the auto shrinking feature automatically shuts down inactive perpetual checker servers, helping reduce infrastructure, licensing, and usage costs.
- Configure the Auto Shrinking feature from the BATON UI
 - Mark Checker Servers for Auto Shrinking
 Enable the Checker Server for auto shrinking using the new option, Enable Auto Shrinking, added under the Checker Server's Basic Settings.
 - Define the Auto Shrinking Policy
 Manage auto shrinking behavior by configuring the Auto
 Shrinking Policy under the Scaling tab.

Visibility of the **Scaling** tab in the interface is license-controlled.

Download Project Folder and Backup Logs
 You can download project folders and backup logs of auto shrinking

tou can download project tolders and backup logs of auto shrinking checker servers, simplifying data access and backup.

To know more, refer Online Help >> Auto Shrinking

Configure and View alerts for Auto Shrinking
 Configure system alerts for auto shrinking events and view related alerts directly on the dashboard for better visibility and monitoring.

To know more, refer Online Help >>

- Configure BATON Setup>>Setup Alerts and Mails>>Set Alerts
- Dashboard Alerts
- View Core Summary of Auto Shrinking Checker Servers
 The detailed information about cores of auto shrinking checker servers is displayed in the Core Summary section of the Checker Servers page for better tracking and analysis.

To know more, refer Online Help >> Register and Access BATON Components>>Checker Servers>>Core Summary of Checker Servers

Interactive HTML-Based REST API Documentation

• An interactive HTML-based REST API documentation interface has been introduced to enhance usability of APIs. Use this new interface to view well-structured examples and directly try them out.

Highlights:

- Modern, customizable UI for viewing and interacting with REST APIs.
- "Try" feature to test and validate endpoints directly from the interface.
- Supports API key, bearer token, basic auth, and OAuth2 authentication.
- Detailed control over parameters (query, path, header, cookie, request body).

Accessing REST API Documentation

The new REST API documentation interface can be accessed by clicking the REST API Documentation option from the Help icon on the BATON interface.



UI Related Updates

View License Generation Related Information

As part of the licensing update, the following UI changes have been made to the License Generation Related Information section in the **License** page:

- o A new field, **Host Fingerprint**, which is a unique machine-specific identifier, has been added for enhanced license security. This fingerprint value of the machine is also included in the exported license file.
- LM LICENSE FILE Environment variable field is renamed to License File Path.
- INTERRAD_LICENSE_FILE Registry entry, INTERRAD_LICENSE_FILE Environment variable and LM_LICENSE_FILE Registry entry fields have been removed. These entries will not be available in the exported license text file.

To know more, refer Online Help >> Configure BATON Setup >> Control Licenses

View Real-Time Critical Alerts

Critical and workflow-blocking issues are now flagged instantly in the footer notification area of each page in the UI for immediate attention.

To know more, refer Online Help >> BATON Diagnostics Tool >> BATON Health>> Components of BATON Health

Identify issues using Alert Counter

Quickly identify related issues using the alert counter. This counter provides the total count of triggered dashboard alerts, with a background color indicating the highest severity level among the alerts.

- Enhanced the visibility of the Schedule File button. This button is now available on the top banner.
- Icons used to display task priority are enhanced for better visibility and to distinguish the tasks efficiently.

General Improvements

Direct QC of files from S3 content locations connected via a proxy server.

To know more, refer Online Help>> Reaister and Access BATON Components>> Reaister Content Locations >> Connect to Various Content Locations >> \$3 Server

- Track the files that are routed through a proxy for certain locations. A proxy-related flag is now automatically added to the corresponding BVR to indicate proxy-based access.
- A new set of built-in Test Plans has been added.
- Register BATON+ and BCC servers that use HTTPS protocol.



- All the customer-specific scripts and their related documentation done in the BATON Scripts.pdf file have been relocated to the scripts/user_scripts folder. This folder is available in the BATON installation directory.
- BATON automatically manages the cleanup of residual temporary RDB and AOF files created in BatonCache.

To know more, refer BATONInstallationManagerGuide.pdf

Compatibility Fix

• The Content-Type for XML-RPC API response header by default is application/xml. To make the Content-Type response header compatible with older BATON versions, by setting it as text/xml;charset=utf-8, please reach out to the BATON support team.



Performance

Optimizations

- Optimization has been done to use the hostname while connecting to Checker Servers, if the Use hostname/FQDN to connect checker servers and content locations setting available under Connection Preferences is enabled.
- Improved MP4 Multicore Optimization
 Enabling MP4 multicore optimization now results in better workload distribution across processors, thereby enhancing the overall performance.
- Faster loading experience on the Task page after optimization.
- Optimize performance and improve file-downloading efficiency by lowering the Maximum Error Reporting threshold value.
- Performance improvements made in the **EAS test tone** detection.
- Language identification (LID) and Speech-to-Text (STT) features enhanced to deliver improved processing speed, enhanced accuracy, and seamless user experience.
- Improved runtime performance for burnt-in text analysis (Subtitle, Time Code Text Detection, and Telecaller Identification).



Formats Supported

New Formats

- Sony 360 RA Audio under MP4 container formats.
- AV1 Video under MP4 and Matroska containers and elementary video formats.

Enhanced Format Support

- Decoding of 8,10,12,16, 24 and 32-bit **TIFF** files with **LZW** compression.
- If the color matrix value is not specified in the JPEG 2000 file, BATON automatically selects a default value based on the video's resolution.

To know more, refer Online Help >> Getting Started >> Formats Supported



New Checks & Settings

Video Quality

- Detect and report CIE color gamut errors
 - Introduced a new Color Gamut check containing the CIE Color Gamut sub-check. This check is available under both the Video Quality and Image Quality sections.
 - Moved the existing RGB Color Gamut check in the Color Gamut section.

To know more, refer Online Help >> Test Plan Checks >>

- Video Quality Checks>> Color Gamut
- Image Quality Checks>> Color Gamut
- Blank Bars check: Detect and report colored bars, other than black, that appear on the edge of a video frame.

To know more, refer Online Help >> Test Plan Checks >> Video Quality Checks>>Blank Bars

• Enhancement in **Shot Transition** check to detect shot transitions by defining the range for frame duration or time interval.

To know more, refer Online Help >> Test Plan Checks >> Video Quality Checks>> Shot Transition

 Detect video frames containing the keywords that mean "media offline", such as "media pending", etc. with the enhanced Media Offline check.

To know more, refer Online Help >> Test Plan Checks >> Video Quality Checks>> Media Offline

- Enhancement in PSE Video Flash check
 - Detect PSE flash errors as per ITU-R BT.1702 2023 (v1.0) guidelines.

To know more, refer Online Help >> Appendix >> PSE Guidelines and Versions

- Exclude the detection of spatial patterns during the analysis of PSE video flash errors.
- Select the No Sensitivity option under PSE Video Flash > Related Settings > Spatial Pattern Detection to disable the spatial pattern detection.

To know more, refer Online Help >> Test Plan Checks >>

- Video Quality Checks>> PSE Video Flash
- Image Quality Checks>> PSE Video Flash
- Enhanced Accuracy for Logo Detection
 - The check has been enhanced by implementation of an autocropping mechanism for input logo images. During the QC process, the selected logo images will automatically be cropped before performing the Logo Detection check, ensuring accuracy in detection.



- Enhancements done in QR code detection to
 - Display QR Code Data/URL in the error description of the verification report if the Decode QR Code setting is enabled in the QR Code check.
 - Identify and report QR code timecodes in SMPTE format.

To know more, refer Online Help >> Test Plan Checks >> Video Quality Checks >> QR Code

Audio Quality

EAS Message

EAS Tone Detection is done in Left, Right, and Center Channels and the detections are reported on a cumulative basis.

When the **Detect Simulated EAS Tones** setting is enabled, BATON uses the LID (Language Identification) installer instead of the STT installer.

To know more, refer Online Help >> Test Plan Checks >> Audio Quality Checks>> EAS Message

• EBU Loudness

- Support for EBU R128 S4 loudness standard added.
- Detect and report the loudness-to-dialogue ratio of an audio stream according to the **EBU R128 S4** standard. For this:
 - Configure the newly introduced Loudness to Dialogue Ratio (LDR) option under Loudness (EBU) check.
 - New error schemas added to report LDR errors.

To know more, refer Online Help >> Test Plan Checks >> Audio Quality Checks>> Loudness

• Detect test tone noise for a specified frequency using Audio Test Tones.

To know more, refer Online Help >> Test Plan Checks >> Audio Quality Checks>> Audio Test Tones

 Use Audio Phase Mismatch and Audio Maximum Level checks to log the total erroneous duration in terms of percentage of the total content duration in a media file.

To know more, refer Online Help >> Test Plan Checks >> Audio Quality Checks:

- Audio Phase Mismatch
- Audio Maximum Level

Sony 360RA Audio

This is a licensed feature. A new license, BatonSONY360RAMF is added to detect Sony 360 RAmf audio format.

- Detect and report Sony 360 RA audio format in media files.
- Two new checks introduced:
 - Level: Determines the audio encoding level.
 - Object Count: Identifies the distinct audio object count.

To know more, refer Online Help>> Test Plan Checks>> Elementary Audio Video Essence Checks>> Sony 360RA Audio Features



 A new section, Sony 360RA Audio Settings, has been added under Test Plan verification settings. This section provides and option Output Channel Configuration option to configure the channel-wise audio output for audio decoding and analysis.

To know more, refer Online Help>> Know Your Test Plan>> Configuring Test Plan Verification Settings>> Sony 360RA Audio settings

Video Description

 To maintain consistency across all supported formats, BATON will now report no color information as 'unspecified' when using the Color Information check.

To know more, refer Online Help>> Test Plan Checks>>Video Description Checks>>Color Information

Audio Channels

New option added to include or exclude the Low-Frequency Effects (LFE)
channel from the total channel count. This option is available under the
Related Settings and applicable only when the file contains an LFE
channel.

To know more, refer Online Help>> Test Plan Checks>>Audio Description Checks>>Audio Channels

Enhancements

Algorithm Improvements

Video Quality

- Algorithm for the following video quality checks improved:
 - Video Dropout check:
 - Concealment artifacts (high sensitivity)
 - Unwanted frames
 - Freeze frames
 - Media offline
 - Burnt-In Date check



Test Plan Verification Options

Audio Settings

• Specify **Audio Program Configuration** and **Audio Track Layout** for 26 channels.

To know more, refer Online Help >> Know Your Test Plan>>Configuring Test Plan Verification Settings>> Audio Settings>>

- Audio Program Configuration
- Audio Track Layout

H.264 Video Checks

 Detect SEI timecode and drop-frame flag information in H.264 video files with the new SEI Timecode check.

To know more, refer Online Help >> Know Your Test Plan>>Configuring Test Plan Verification Settings>>H.264 Video Settings>>SEI Timecode



BATON Settings

System Settings

TCP Alert Related Settings

- Configure alert timeout duration for TCP alerts to align with HTTP alerts and prevent excessive timeouts.
- Renamed the HTTP alert timeout setting to HTTP/TCP alert timeout under Alert Related Settings.

To know more, refer Online Help >> Configure BATON Setup >> Use System Settings >> Alert Related Settings

Hostname Usage Settings

• Use the VM hostname instead of IP address wherever VM URL is referenced to ensure consistency across reports and other sections.

Enable the new setting, **Use hostname/FQDN to connect Verification Managers**, added under **Connection Preferences**.

 The existing Use hostname to connect checker servers and content locations setting is renamed to Use hostname/FQDN to connect Checker Servers and Content Locations.

To know more, refer Online Help >> Configure BATON Setup >> Use System Settings >> Connection Preferences

Reset SMTP Server Configuration

• Reset SMTP server configuration to default by using the **Reset to Default** option added on the **Mail Server settings** page.

To know more, refer Online Help >> Configure BATON Setup >> Use System Settings >> Alert Related Settings

Control the Removal of Sensitive Information in BVR Reports

 Use the Exclude location credentials from BVR Report setting to control removal of sensitive information, such as location credentials and security keys, from BVR reports for enhanced security.

To know more, refer Online Help >> Configure BATON Setup >> Use System Settings >> Report Related Settings

Smart Folders

New Filters

 Check the bits per sample value using the Audio Bits per Sample filter, which is added as an audio stream property while defining pre or post-QC filters in a Smart Folder workflow.

To know more, refer Online Help>> Get Your Files Verified>> Use Smart Folders>> Define Workflow using Smart Folders>> Actions and Criteria for Filters

 Search or filter the smart folder activity logs by using the Severity and Text options.

To know more, refer Online Help>> Get Your Files Verified>> Use Smart Folders>> Access Activity Logs



BATON Settings

Revamped Smart Folder Status Page

- A consolidated table added for file names, task progress, and job types.
- The **Clean Pending/Running Jobs** button, previously under different job type tables, is available as a single button for all tasks.

To know more, refer Online Help>> Get Your Files Verified>> Use Smart Folders>> View Smart Folder Status



Verification Reports

New Format

 Export verification reports in FCP_XML format with EDL Markers from the BATON user interface.

File Verification

 Schedule Dolby Vision metadata files as sidecar file for all container formats.

Previously, analysis of DV metadata as a sidecar file was supported only for IMF container formats.

To know more, refer Online Help>>Test Plan Checks >> Data Checks >> Dolby Vision Metadata Features >> Compare Metadata with Container

• Verify Dolby Atmos files directly from content locations.

To know more, refer Online Help>>Do not Copy Files for Verification Content Locations

Naming Convention

 BATON saves the reports of manually scheduled files based on the naming convention set in the Report Settings under User Preferences.

To know more, refer Online Help>> Get Your Files Verified>> Manual Mode

Spot Checking

• During spot-checking, the verification report displays the timecode range of the detected spots in the media file.

To know more, refer Online Help>> Get Your Files Verified>>Optimize Content Verification>> Optimize Content Verification using Test Plan Settings>> Optimize Verification Using Selective Analysis >> Spot Checking

Project Folder

 Download the Project Folder for Checker Server in zipped format from the Report Preview page.

To know more, refer Online Help>> Verification Reports>>What is a Verification Report

Version Information

 Verification Reports in HTML, XLS and PDF formats now include a new Scheduled with field that shows the BATON version used to schedule the task.

To know more, refer Online Help>> Verification Reports>>

- Verification Report Summary
- Save Verification Report in Different Formats



Verification Reports

Detailed Statistical Report for Black Bars

BATON offers detailed statistical reports for Black Bars. With this update:

- All logged Black Bar sequence info entries can be exported in XLS format.
- The exported XLS report includes Black Bar Widths, Active Picture Coordinates, and Resolutions (calculated after excluding Black Bar widths)
- To export the report, enable the **Black Bars** check box under the Statistical Report option.

To know more, refer Online Help>> Verification Reports >> Analyze Verification Report >> Statistics in Verification Reports



Expansion Updates

Prioritization of Perpetual Over On-Demand Licensed Checker Servers

 The perpetual licensed Checker Servers with available core capacity are prioritized for task assignments over on-demand Checker Servers.

To know more, refer Online Help >> BATON Expansion >> Prioritization of Perpetual Over On-Demand Licensed Checker Server

Resource Optimization

 To optimize resource usage, BATON tracks the instances launched during Verification Manager or Checker Server expansion and automatically shuts down those that remain unconfigured and unprovisioned.

To know more, refer Online Help \gg BATON Expansion \gg Expand BATON on Cloud \gg Auto Expansion Policy

Editing Alerts

• Support for editing existing expansion alerts is unavailable if the expansion license has expired.

To know more, refer Online Help Configure BATON Setup>>Setup Alerts and Mails>>Set Alerts>>Configure Expansion Alerts

License Server Configuration Updates

- Support added to use a user token instead of an entitlement ID while configuring the license server for authorization and validation of expansion requests. This token can be obtained by contacting the BATON support team.
- UI Change: For this, a new field, User Token, has been introduced while configuring the license server, and all the previous fields have been removed.

To know more, refer Online Help >> BATON Expansion >> Expand BATON on Cloud Expand BATON on Cloud >> Configure License Server

Renamed Options

- The following UI labels in the **Expansion** feature have been updated:
 - \circ Expansion Tab \rightarrow Scaling Tab

Visibility of the **Scaling** tab in the interface is license-controlled.

AWS Settings → Scaling Settings

To know more, refer Online Help >> BATON Expansion >> Expand BATON on Cloud >> Scaling Settings

 $_{\odot}$ Expansion Policy ightarrow Auto Expansion Policy

To know more, refer Online Help >> BATON Expansion >> Expand BATON on Cloud Auto Expansion Policy



BATON Diagnostics

UI Revamp

Enhanced Log Filtering

- Filter and view logs for a specific date and time range using the Custom/Date Time option.
- Resource Type filter and its corresponding options in the Module dropdown have been renamed.
- A new **Debug** option added within the **Severity** filter.

To know more, refer Online Help >> BATON Diagnostics Tool >> BATON Logs >> Log Viewer

Extended Download Support

 A new tab, Log Download, is added under Logs, which includes the Download Log button and associated options.
 The Download Log functionality was previously available under the Baton Log Zipper.

To know more, refer Online Help >> BATON Diagnostics Tool

- Download the current database logs using the **Database Logs** option, added under **Log Download** tab.
- Download the backup logs of the Expanded Checker Server and Verification Manager, and Auto Shrinkable Checker Server using the Download Logs button.

To know more, refer Online Help >> BATON Diagnostics Tool >> Baton Logs

Tabs Renaming and Realignment

Dashboard tab renamed as Tasks and is moved under BATON Health.

To know more, refer Online Help >> BATON Diagnostics Tool >> BATON Health>> Components of BATON Health

 The Diagnostics tabs realigned as BATON Health, System Metrics, API Analyzer, and Logs.

Dashboard Alerts

- Dashboard alerts are raised in case any of the following occurs:
 - o Project folder access or permission issues
 - Checker Server is down
 - Content location connectivity issues

To know more, refer Online Help >> BATON Diagnostics Tool >> Dashboard Alerts



APIs REST

- New API added to Access the Number of Used Cores in Task. This API retrieves the total cores currently in use and the ones requested by tasks in the queue.
- New action Progress added in the Get Operation on Specific Task API to get the progress of the scheduled tasks.
- New parameter image_sequence added under the Create Tasks API.
 This is a boolean parameter that indicates if the scheduled TIFF file will be considered as a single image file or a sequence of images.

To know more, refer REST API Documentation from the BATON UI

XML-RPC

registerLicenseServer API

This API includes updates that are not backward compatible.

- Simplified the license registration process and improved security by using a single, secure token for validation instead of previously used credentials.
 - This token can be obtained by contacting the BATON support team.
- o For this, a new parameter, **token**, has been introduced in the API. With this change, the following parameters are now removed entitlementId, username, password, and flexClsId.

To know more, refer BatonXMLRPCAPI Guide.pdf

Conformance Check

A new conformance check: **5068** added in the **MXF container** section to report an error when a file does not have a correctly repeated index table in the footer partition.

BATON will report this error only if the check is enabled and **RDD9 Compliance** option is selected in the **Compliance** setting of the MXF Test Plan Verification Settings.



Removed Support/ Features

Windows Server 2012 End of Support

 Windows Server 2012 is no longer supported with BATON, starting from version 9.3.1.

Loopback Support Discontinued

- Loopback support for registering Checker Servers with dynamic IPs is no longer available. The **Loopback** button has been removed from the BATON Service Manager (BSM).
- During upgrades, existing loopback configurations remain functional but will trigger a dashboard alert prompting for Checker Server rereaistration.

CPU Affinity

 The Enable CPU Affinity setting has been removed. BATON now automatically manages allocated CPU usage for optimal performance without requiring manual configuration.

Documentation Support for APIs

- The **API Guide** option to open the PDF version of REST and XML-RPC APIs has been removed from the BATON UI.
- The documentation for XML-RPC API and Legacy REST API is available from the Docs/HelpContents folder within the BATON installation directory
- The previously available Swagger OpenAPI interface is now replaced with the new interactive interface.

