



Customer Release Notes

Version 8.2 Build 1.0

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Rev: 1.0

September 22, 2017

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1. Introduction

1.1 Purpose

The purpose of this document is communicating the major new features and changes in this release. It also documents known problems.

1.2 References

The following path links to relevant user guides: http://mip.volicon.com/

<u>mtp.//mp.voiicon.com/</u>

1.3 Definitions and Acronyms

The following defines acronyms or terms commonly used in this document.

Services	A/V programs along with associated metadata
ARL	As Run Log
STB	Set Top Box
TS	Transport Stream
MH	Media Hub- internal Observer component
СС	Closed Captions
OTT	Over the Top
ACE	Automated Content Export
ABR	Adaptive Bitrate

2. General

Volicon version 8.2.1 is a major release with many new features and fixes, including:

- Email equipment alerts when probes are not responsive
- Automated ARL Export
- Share to Box.com
- Schedule delayed Facebook posts
- Option to disable thumbnail sharing for specific destinations
- OKTA SSO integration
- Uplynk Volislicer Control in Deliver Application

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- Rapid ABR Publishing
- Database and UI changes for Multi-tenancy
- Share animated or still GIF's
- Advanced Content Export using XDS or DPI in addition to ARL
- Penalty Box (Show Faults only) in Volicon Multiviewer
- SCC sidecar closed caption export support
- New option for QoE analysis of perceived video quality (MOS)
- Adjust privacy of shared clips to YouTube

See "New Features in v8.2 QB1" section for more information.

2.1 Hardware consideration

- 8.2 supports only 64-bit systems (Central Server and Probe)
- The CEM and Thumbnails services can be installed directly on the CS if server has at least 8 GB RAM and less than 50% CPU utilization.
- In case of a standalone server (CS + Probe on the same machine), it is necessary to install the CEM and Thumbnails services on a separate server. The Thumbnails feature requires a large amount of storage- For one encoder, one day takes approximately ~400MB.
- For large systems with many channels of cc or thumbnails, as of 8.2 it is now recommended to have separate Central Modules Indexing Server(s). Contact Support for more information.

2.2 No Version Interoperability

There is NO Version Interoperability with any earlier version of the software.

- The Central Server and Probe must both be on 8.2 QB1 in order to communicate.
- In addition, the player must match the 8.2 QB1 software version in order to view content from a Client Machine.

3. Compatible Products and Platforms

This product was tested on the following platforms (or with the following products):

3.1 Operating systems

3.1.1 Central Server Installations

- Windows 2012 Server R2 x64
- Windows 10 x64
- AWS Win 2012 Server R2
- Windows 2016 Server x64
- Windows 7 Pro x64

3.1.2 Probe Installations

- Windows 2012 Server R2
- Windows 10 x64

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- AWS Win 2012 Server R2
- Windows 2016 Server x64
- Windows 7 Pro x64

3.1.3 PC Clients

- Windows 7 64-bit
- Windows 10 64-bit

3.2 Capture cards

3.2.1 Transport Stream Capture cards

- Hauppauge (Added support for 1069 card)
 - Hauppauge WinTV-HVR-2255 (old 2250) Driver Version 7.9.1.32199 (Driver Date 07/18/2014)
- Dektec
 - DekTec DTA-xxxx Driver Version 4.23.0.240 (Driver Date: June 2017)
 - o Supported: DTA 2111, DTA 2135, DTA 2136, DTA 2137, DTA 2145, DTA 2160

3.2.2 Other Capture cards

- Blackmagic Design
- Osprey

3.3 Browsers

3.3.1 HTML5 Only

The following HTML5 browsers are supported:

- Edge
- Safari
- Chrome
- Firefox

3.3.2 Internet Explorer

The following 64-bit versions of Internet Explorer are supported:

• IE11 (supported using HTML5 or ActiveX. New as of this version, default on IE is now HTML5 instead of ActiveX. Support can enable legacy ActiveX on IE if necessary.)

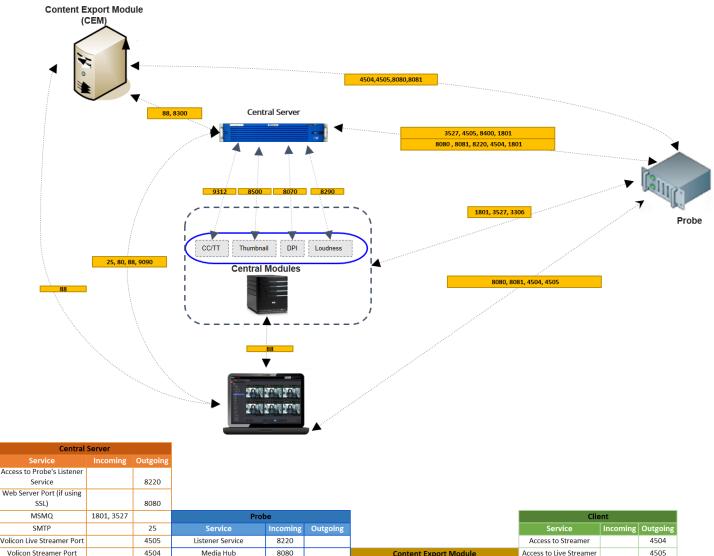
If you are using a non 64-bit version of Internet Explorer, please run the below executable for IE 64:



3.4 Ports requirements:

New to the 8.2 software are the following Ports:

- <u>8290 (Loudness Indexing)</u>, bidirectional between the Central Server and Central Module Server
- <u>3360 (MySQL)</u>, bidirectional between the Probe and Central Module Server



Volicon Live Streamer Port		4505	Listener Service	8220					Access to Streamer		4504
Volicon Streamer Port		4504	Media Hub	8080		Content Expo	rt Module		Access to Live Streamer		4505
MediaHub	8080	8080	Volicon Live Streamer Port	4505		Service			MediaHub	8080	8080
MediaHub	8081	8081	Volicon Streamer Port	4504		Volicon Live Streamer Port		4505	MediaHub	8081	8081
Web Socket	9090	9090	MediaHub	8080	8080	Volicon Streamer Port		4504	SMTP	25	
Thumbnails	8500	8500	MediaHub	8081	8081	MediaHub	8080	8080	Web Socket	9090	9090
Sphinx	9312	9312	Updater	8400	8400	MediaHub	8081	8081	HTTP	80	80
DPI Indexing	8070	8070	MSMQ		1801, 3527	CEM Port	8300	8300	CEM	88	88
Loudness Indexing	8290	8290	MySQL	3306	3306	CEM Port	88	88	Nginx	88	88

Central Module												
С	losed Captio	ning		D	PI Indexing			Thumbnails		Lou	dness Inde	king
Service	Incoming	Outgoing		Service	Incoming	Outgoing	Service	Incoming	Outgoing	Service	Incoming	Outgoing
										Loudness		
Sphinx	9312	9312		DPI Indexing	8070	8070	Thumbnails	8500	8500	Indexing	8290	8290
MSMQ	1801, 3527	1801, 3527		MSMQ	1801, 3527	1801, 3527	Nginx	88	88	MySQL	3306	3306
							MSMQ	1801, 3527	1801, 3527			

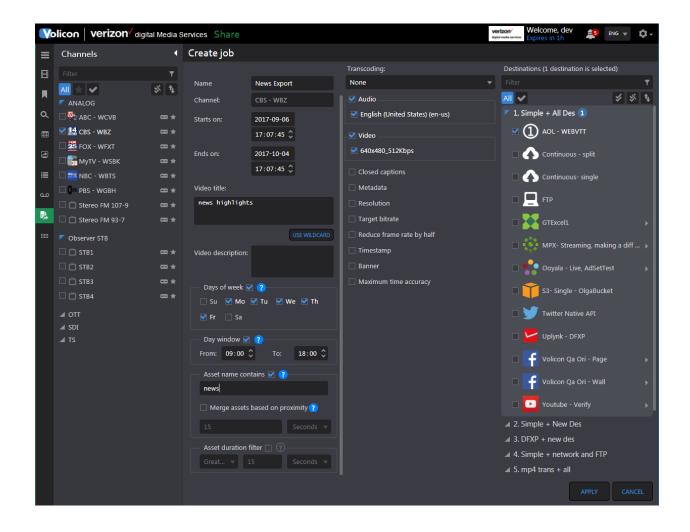
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4. New Features in v8.2 QB1

4.1 Automated ARL Export

As-Run log Export enables users of the system to set automatic share processes according to imported as run logs (programs) to the system. For example, you could set up a job to export any clips marked in your as-run logs as "news" that appear between 6-11pm on certain days of the week. ARL export will trigger immediately after imported as-run logs are processed by the system for the last day.



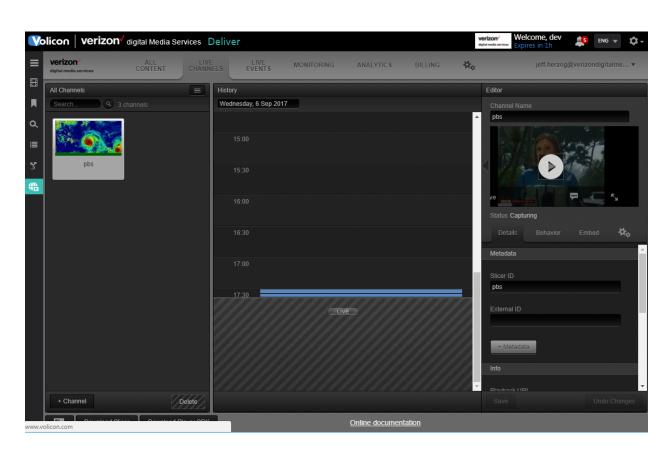
4.2 Uplynk Volislicer Control in Deliver Application

Volicon version 8.2 introduces "flip a switch" simplicity for converting high-resolution Volicon encoders into OTT origination points for Verizon Digital Media Service's Uplynk OTT streaming.

Leverage your existing investment in Volicon to serve as an encoding/origination point for any linear channels you want to bring to OTT.

Vo	licon	verizon√ digital Medi	a Se	ervices Deliver					verizon We digital media services Exp	Icome, dev ires in 1h	5 ENG 👻 🛱 🗸
≡	Uplyn	k Accounts	•	Encoders							
⊞									VOLICON ENCODERS	ONLY UPLYNK OTT C	ONFIGURED CHANNELS
		conventions_live		Volicon Encoder Name	Uplynk Account		Uplynk Channels		Enable Uplynk	Uplynk status	Test Player
م	◆	conventions_live		PBS - WGBH			pbs		OFF ON	capture	ŏ
:≡ 3		jeff.herzog@verizondigital		CBS - WBZ			pbs News1		OFF ON	capture	ŏ
				🛑 АВС - WCVB	None						ľ
				RBC - WBTS	None						
				🛑 МуТV - WSBK	None	Þ					
			TOX - WFXT	None	Þ						
				Stereo FM 93-7	None						
				Stereo FM 107-9	None	Þ	None	•			

In Volicon 8.2, a new Slicer Control UI displays all your Volicon encoders and lets you input your Uplynk credentials. You can then easily map any Volicon encoder to a particular Uplynk Slicer and enable slicing.



The Uplynk CMS is integrated into the Volicon deliver application, allowing you to easily monitor your live OTT feeds.

4.3 Rapid ABR Publishing

It is now possible to share multiple renditions of the same clip to "MPX ThePlatform" content management system. This allows easy transmit of ABR to this service without any further transcoding required.

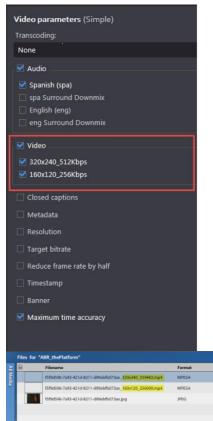
When sharing a clip from a channel that has sub-encoders, you can select multiple video streams, which are all simultaneously published to the platform during the Share process.

320 x 240

160 x 120

320 x 240

4604





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4.4 Share to Box.com

You can now upload clips to the Box.com service from Volicon Share.

Volicon verizon ⁷ digital Media Services Share			verla	welcome, dev Unlimited session	ENG -	· Q -
≡ Thumbnail		ublish				
B ABC - WCVB 2017-09-08 11:46:01.11	c					
	7					
9	Destination parameters					
	Box QA Box Accou Send to: System user: Jeff Herzog (Jeff) Custom address: Subject: nice clip		NLOAD			
CC all . Brighele (Underd States) + S+ 借 114601 0		OK CANCEL				
ELECT THUMBINAIL	(F)	End: 2017-09-0 Duration: 00:00 Expires in: 92 d				

4.5 Schedule delayed Facebook posts

Volicon Share now supports Facebook's capability to allow users to schedule posts for a future publication date and time. The scheduled time should be between 10 minutes to 6 months from the clip sharing time.

nation param	eters		
Chen's th	k e best - Pa	age	
te a post:			
Scheduled pu	ıblishing:	.	
017-07-24	13:33 🗘		
		ок	CANCEL
	Facebool Chen's th te a post: Scheduled pu	te a post:	Facebook Chen's the best - Page te a post: Scheduled publishing: 017-07-24 13:33

After scheduling a post, it can be seen in "Scheduled Posts" within the Facebook user interface.

4.6 Option to disable thumbnail sharing for specific destinations

You can now disable the sharing of thumbnail images to the same location as the video. The default is set to ON. This is available on Network, FTP, S3, GTxcel destinations.



4.7 OKTA SSO integration

You can now integrate Volicon with Okta for enterprise SSO (Single-Sign-on) support. Contact Volicon support for configuration information.

Vo	licon verizon ⁴ digital Med	ia Services Setup		verizon Welcome, dev typic redu services Expires in 1h	ENG 👻 🗘 🗸	
≡	Account Setup					
₩\$	Settings Applications					
276	Product type:	STB		Authentication type:	Okta	-
√	Closed captions:	Closed captions - CC		Identity Provider Issuer:	http://	Required
	Default to lowest subencoder:			Identity Provider Single Sign-On URL:	http://	Required
	Enable integrity export:			x509 Certificate:		Required
				SAML Adminstrator Name:	John Smith	Required
	Access full edit configuration:			SAML Adminstrator Email:	name@example.com	Required
	Allow audio scrubbing:			SAML Adminstrator URL:	http://	Required
	Allow share editor:			Homepage URL:	http://	Required
	PLR Raw values Enable:			Admin Group: ?		
	Show terms and conditions:					
	Player type using IE:	HTML5				
	Downtime Reporting Threshold:	1	min			
	Server host:	52.207.171.105				
	Maintenance message 🗌 ——					
Manan VC	licon.com			idp i	s not valid. saml2 is not valid SAVE CHANGES	CANCEL

4.8 Share animated GIF's to certain destinations.

You can now share animated GIF's from Volicon to certain share destinations, including:

- o Twitter
- \circ Network
- Local Export
- o FTP
- o Amazon S3
- o AOL
- o Akamai
- o GTXcel
- o BOX
- The Platform MPX
- o Brightcove

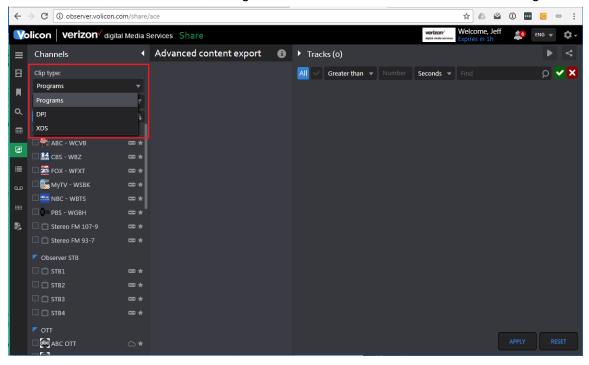
You can choose a low or high-quality GIF in the Export video parameters. For most destinations such as Twitter, to meet site requirements, using the low quality GIF setting is recommended.

V	olico	on verizo	on [/] digital Media Services Sha	zon' Welcome, Jeff Unlimited session	ENG	• \$•	
≡	•	Publish					
	Thumbnail	Clip Clip Clip Clip Clip Clip Clip Clip	Channel: CBS - WBZ Duration: 00:00:15:00 UPLOAD DOWNLOAD CBS - WBZ_2017_09_06_10_44	Video parameters (a. Simple + All Des) Transcoding: None HD H264 Video .mp4 HD Flash Video .flv Flash Video .flv Center Crop .mp4 H264 Video .mp4	Destinations (not selecter Filter ▲II ▲II. Simple + All Des ▲ 2. Simple + New Des ▲ 3. DFXP + new des ▲ 4. Simple + network at ▲ 5. mp4 trans + all	\$	T 5 % \$
9 III 🚯		Description: When: Save clip to AMERICA'S 4	CBS - WBZ	Low Quality GIF .gif High Quality GIF .gif Resolution Target bitrate Reduce frame rate by half Timestamp Banner Maximum time accuracy	 6. mpeg trans + all su 7. flv trans + all suppo All Destinations IBC Demo SMI + Banner + suppo 	orted	
			Duration: 00:0015:00 Expires in: 91 days		_	estinations are	not selected

4.9 Advanced Content Export (ACE) using XDS or DPI in addition to ARL

The purpose of the Advanced Content Export (ACE) feature is to easily cut out advertisements from linear content and intelligently and automatically create VOD assets based on metadata marking the boundaries of programs and ad breaks. Previously, this feature only worked with metadata from as-run logs (Programs) loaded to the Volicon system.

In 8.2, this feature was extended to also allow the use of DPI or XDS metadata to determine the ad boundaries and to generate the correct marks for the content segments.

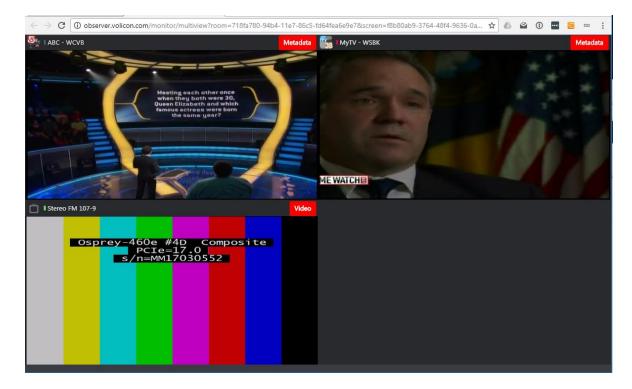


4.10 Penalty Box (Show Faults only) in Volicon Multiviewer

The Penalty Box is a new Volicon Multiviewer widget that will only present video players for channels that are currently experiencing fault conditions (e.g. black screen, low audio, metadata, etc). This allows operators in a central NOC to reduce the number of video screens they are regularly monitoring, and focus their attention only on problem channels rather than visually monitoring all channels operating in normal condition.

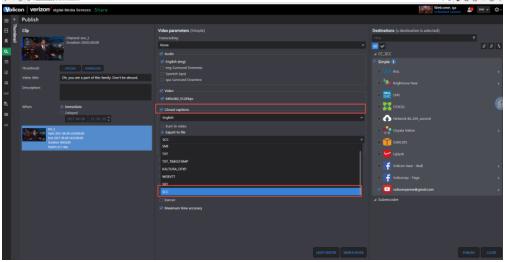
V	Dilicon verizon ^v digital Media Services Monitor	Velcome, dev kpires in 1h	ENG 🔻 🗱 🗸	
≡	Room Jeff - Screen Pen Show grid 4:3 cells: 2 x 3 3 x 4 4 x 6 6 x 8 7 x 9 16:9 cells: 3 x 3 4 x 4 5 x 5 6 x 6	7 x 7	Penalty box	properties
⊞	¥ ¥		Channels list	
M	Penalty box			T
٩	watching for Video, Audio, Metadata, Equipment faults 14 channels are selected		All 🖍 🖌	* \$
⊞			Marc - WCVB	
			🗹 💒 CBS - WBZ	
			V 🎇 FOX - WFXT	
Ľ			🗹 🌄 мутv - WSBI	< == ★
	➡		MBC - WBTS	
D			Market PBS - WGBH	 ★
			🗹 📋 Stereo FM 10	7-9 📼 🛨
-			Advanced	
			Fault types:	
			🗹 Video	
≡			🗹 Audio	
مە			Metadata	
	₹	×	🗹 Equipment	
			Max players per pa	ge:
			4	
			Autorotate pages e	very:
			10	sec

You can select the specific channels that the penalty box should monitor, as well as the maximum number of players per page. If the number of channels currently in fault exceeds the max players per page, the system will auto-rotate through all faults. You can define the auto-rotate wait time on each page. When viewing the chosen penalty box, the multiviewer will display no channels unless any are currently in fault condition. Each channel will display the fault type as a red overlay in the upper right corner.



4.11 SCC sidecar closed caption support for Share

Version 8.2QB1 adds support for the .SCC (Scenarist Closed Caption) format as a sidecar file when using Volicon Share to send clips to social media or CMS destinations.



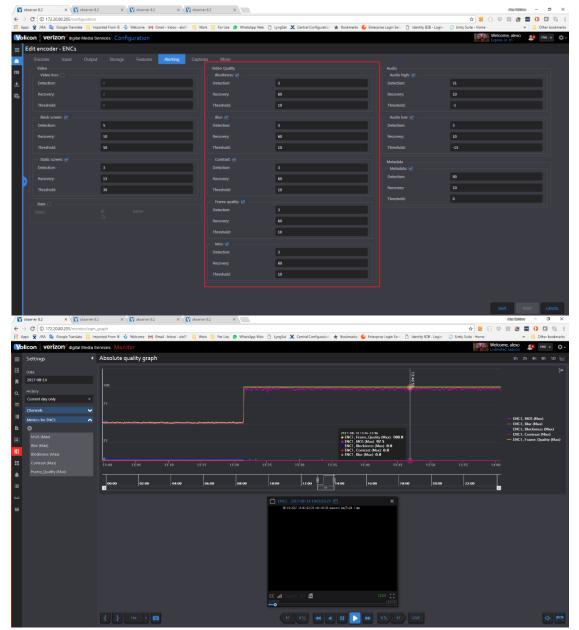
Note that the SCC export option is only available in Share, not export. If you need to obtain a local copy of the .SCC file, use the "share to local link" destination.

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4.12 New option for QoE analysis of perceived video quality (MOS)

Volicon Version 8.2 QB1 introduces support for video Quality of Experience (MOS) monitoring in addition to our standard Quality of Service (QoS) detection such as static screen, black screen, low/high audio, etc. This is a new optional add-on to your system. Available monitoring metrics include:

- Mean Opinion Score (MOS)
- Blurriness
- Blockiness
- Contrast
- Frame Quality



Contact your Volicon sales representative for more information about this add-on option.

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4.13 Adjust privacy of shared clips to YouTube

You can now adjust the privacy level of clips shared to YouTube destinations.

New destination
Youtube
Account name:
My Youtube account
Google account email:
voliconqanew@gmail.com
Privacy level:
Public 🔹
Public
Private
Unlisted
Add custom prefix/suffix to output files

4.14 Unique Prefix/Suffix on sidecar files in Share

You can now define unique prefixes or suffixes for supporting sidecar files such as the cc, mrss, and thumbnail files during the Share process. For example, if my exported clip name is mymovie.mp4, you can specify that the closed caption file is called mymovie-en_US.srt. This is useful for certain social media or CMS sites which have specific requirements for the naming conventions of these files.

type

nbnail

In .Ext Sf

In .Ext Sf

	File by
ld custom prefix/suffix to output	🗹 Via
25	Pr
	🗆 Th
	M CC
	Cli
	MI
	PC

4.15 Email equipment alerts when probes are not responsive

New email alerting feature to notify customer administrators when probe has not responded to the central server in a set amount of time. Once the probe recovers, the system will send a recovery notification email.

V	licon verizon ^v digital M	ledia Services System health			verizon dijitil meda	Welcome, dev Expires in 1h	ENG 👻 🗘 -
≡	Create 'Equipment' Ale	rt				Assign Channels	
Ω	General		Event type				Ŧ
<u>اه</u>	Alert name:	alert1	System Feed disconnected			🛛 🔁 💌	* \$
*	Email to:	dev dev (dev)				ANALOG	
	Email subject:	attention!	MediaHub input Lost			ABC - WCVB	œ★
*	M Enabled		Encoder storage			FOX - WFXT	
			Notification			🗆 🌆 муту - wsbk	
			Encoder stopped			BC - WBTS	
	Advanced		Encoder failed to start			🗆 🕼 PBS - WGBH	
	Do not send email on days:		MediaHub service stopped			🗌 🔲 Stereo FM 107-9	
			Input scrambled			🗌 🔲 Stereo FM 93-7	
	Do not send email in hours:	from: None 🔻 to: None 💌	MediaHub service error			Observer STB	
							∞ ★
		from: None 🔻 to: None 🔻	Probe not responsive	2	min	□ і́ stв2	□ ★
			Recoveries			□	== *
			Encoder started				<u> </u>
			Input feed recovered			■ OTT	≏*
							×
							 △★

5. Bug Fixes in v8.2 QB1

HTML5 Fixes:

- Audio Loudness metadata disappears from the HTLM5 player at the end of clip
- 1 frame rewind occasionally gets stuck
- HTML5\OTT encoders 1 frame rewind is stuck on frame 00
- HTML5 player jumps over gaps in content without providing the user notification of the jump/missing content
- HTML5 streamer does not support https protocol
- Playback for certain encoders experience "hiccups"

Continuous and Schedule Export Fixes:

- The Cont/Sch Export pages do not support a "read only" option for completed jobs
- For Schedule Recording pressing "Cancel" does not cancel the selection
- For Schedule Recording the "Play" button does not appear without performing a page refresh
- If a specific Content Export task is unexpectedly interrupted, the next task does not run
- When using a Client Machine with laptop resolution, the "Search and "Reset" buttons overlap on the Channels Dashboard on the Schedule Record page

STB Fixes:

- The sub encoder dropdown is missing from Schedule Record clip page
- The user has no means to check the number of recurrences selected for a job after it is created
- The Schedule Record page does not auto refresh, so the statuses being displayed may appear out of date
- The STB Services section is missing page numbers
- The "Country" drop down should be accessible with first character
- Manual mode: Remote buttons become un-clickable when user opens multiple encoders

Share Publishing and Export Fixes:

- YouTube Destination: Sharing a 1 hour clip fails due to an access token expired message
- Facebook Destination: The "Save" button should be grayed out until logged in
- The tooltips for Share Thumbnails Editing are missing
- Dual Language Teletext support for same languages
- Add ability to manage external videos and images for "intro/outro" and "embargo" on share
- On the Share Export Page the volume goes up and down when the up/down key is pressed on any dropdown
- Add download link for Exported clips on the Management Console
- Inconsistent tooltips appear for the "Upload/Download Thumbnails" section
- When exporting locally or with Share, the incorrect Time Zone is burned to video even when Auto is selected
- The Accepted File Formats are incorrect for the Banner
- Validation message appears after the export has failed, instead of disabling button

DPI Fixes:

- DPI Clips are not playing after reaching the end of the track. This behavior does not match other pages
- Clicking on the graph on the DPI Monitoring Page should highlight the corresponding event in the table
- On the DPI Monitoring Page, if the users selects the "End Track" button, it does not display message to user if the user is LIVE (for both HTML5 and ActiveX)
- On the DPI Monitoring Page, the Graph loses focus when user clicks on Hour interval
- DPI Monitoring does not refresh by itself and requires manual intervention
- When viewing the DPI Graph from an HTML5 browser, the Player opens in the play state though the controls show pause

General Front-End Fixes:

- Slate: Accepted file formats should be specified
- *XDS*: Extra apostrophe appears in Clip name
- *EPG:* No indication is provided to the User that a search is going on
- EPG: After a search, "List is empty" should be displayed if no records are found
- *Multiview*: Indication should be provided when "Delete" button is disabled
- Management Console: "Already exporting" job should not display the "Edit" button
- Management Console: Status search is not filtered correctly
- CC Search: Selecting one of the "Last Searches" returns wrong results
- CC Widget. The widget does not open synced to player time
- Audio Description: An alert appears on widget but list is empty
- CC widget on Viewer page does not work when the seekbar is bigger than 15min
- Schedule Export. Adding a destination to a specific profile adds it to schedule export job too

Permissions and Settings fixes:

- Settings/Permissions: User is able to delete himself from the assigned role
- Bookmarks: Users with "View" permission is unable to send clip via email
- Roles: Any changes made on the Roles page results in an license error being displayed
- *Destinations:* If a change is cancelled on the Designation page but the field has already by authenticated, the cancelation will not occur
- Distribution Profiles: Need to show which destination type when adding new destination
- Export Profiles: Need to add option of "reduce frame rate by half"
- *Users:* When adding a new User, the "Save" button should be grayed out if the required field "Email" is not entered
- Publish profiles created by a specific user are not visible to him

6. Known Bugs and Limitations

- *Multiview*: Memory leak on client server, browser hangs after a few hours of running
- CEM: CC/Thumbnails won't work for Brightcove if transport S3 has special characters
- CEM: S3 directory wild cards will not work if the destination is a transport
- Central Server fails to display encoder configuration after adding new TS encoder via Probe Manager
- DPI Graph: Sharp peak is shown on bottom graph is not reflected on the main graph
- When the ActiveX player is switching between different LTS chunks, it gets stuck during playback
- Configuration page When an encoder enters dummy mode, this is not reflected in the status section
- Player gets stuck and reports Format change due to encoder being in dummy mode
- If the same Users logs in twice, the system does not log out the first instance until the second instance performs an action i.e. creating a bookmark
- Exported long Programs displayed as "short" in the Excel file
- *HTML5*: When an encoder is stopped, instead of freezing playback, the player continues to move up in frames
- The Encoder Service crashes when one encoder cannot access the LTS storage
- HTML5: The player becomes "stuck" when the encoder switches back and forth between dummy_mode and normal mode