TECHNICAL OPERATIONS PORTAL USER GUIDE

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VLE Version 1.7.1

August 2017



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OUR VISION WAS BORN FROM BELIEF THAT IMAGES HAVE THE POWER TO MAKE US FEEL, THINK, REFLECT, AND CONNECT We are on a mission to reimagine the surfaces that surround you. Our elegant, intelligent displays will bring the walls of your business environment to life with motion, connectivity and functionality. Imagine multiple displays creating dramatic, synchronized content. Imagine customer specific experiences triggered by their presence. Your walls can now display a dynamic mix of images and videos showcasing your products and messaging, curated Facebook or Instagram feeds featuring your brand and even automated infographics showing your top-selling items. All of this power is under your control, making this solution easy, engaging and impactful.



ECOSYSTEM

The platform is comprised of seven essential elements; data, hardware, connectivity, the Cloud, a tool set, content, and apps. Each element enables the platform to effectively and efficiently deliver brand communications and advertising where appropriate to audiences in a simple, seamless and impactful manner.

OUR UNIQUE BENEFITS



HARDWARE

- The ON Liveboard is an elegant, thin, lightweight, low-power marketing and communications powerhouse that is available in a range of sizes and enclosures for varying environmental conditions
- ON Liveboards provide high-visual fidelity for the delivery of high-definition images, video and graphics which mirror the quality we're used to seeing in our homes and on tablets and smart phones
- ON Liveboards and ON.Module-equipped displays are smart devices connected to the Cloud, always listening to and aware of their environment and audience



CLOUD

- Our Cloud services reside on the robust and reliable Amazon Web Services infrastructure, simplifying device management and utilizing an SSL connection for each display to ensure security
- Combining connected Liveboards with our cloud infrastructure eliminates a complex constellation of expensive equipment and connectivity
- This approach enables you to scale your ON Liveboard network from 1 to 1 million devices
- The Cloud stores the dimensions of each ON Liveboard in the network and automatically resizes and renders content for the destination Liveboard before distribution
- All content is managed in the cloud, making global distribution as easy as local

CONTENT

- The platform offers a new form of responsive content delivery for ON Liveboards in public spaces
- ON Liveboards are transformed into a creative canvas to deliver dynamic and engaging one-to-many user experiences through applications
- Content is limitless as your imagination, from static images to video and animations, to interactive applications that increase engagement with your audience



DATA

- has created a data management platform (DMP) that synthesizes data from a wide array of sources and fuses them into understandable audience segments, enabling brands to more efficiently utilize available data
- Data is collected through Wi-Fi or beacon technology embedded in the ON Liveboards
- This data can be used to build an understanding of the people in your spaces, personalize messaging, and deliver targeted promotional or advertising messages

TOOLS

- Our set of content creation and management tools empower anyone to build and distribute dynamic and impactful creative content
- The Technical Operations Portal provides a single management pane for adding, removing and modifying users, organizations, and customer accounts
- The Technical Operations Portal also allows you to configure and schedule content distribution by display, location, tags or any other configuration that best fits your business needs
- The SmartStudio tool is a WYSIWYG editor that can ingest and manipulate your existing creative assets, add social and data feeds, and automatically format all content for output to your ON Liveboard network



TOOLS

AD.APPS

- AD.Apps are intelligent and autonomous programs which can control the messages and information on your ON Liveboards, using data from a range of sources and customizable conditions.
- AD.Apps can be simple or complex. An AD.app can be as basic as a container for a scheduled image or video, or a brand's social media feed. But things get interesting when you program rich-data connections to dynamically change content based on data triggers, like ads for sweaters when temperatures dip, or offers at restaurants based on current sports scores.
- AD.apps can even tie into third-party data sets, such as a point of sale system.
 Imagine a Liveboard in a retail store pushing ads depending on sales stock, or combining weather data with inventory information to feature ads for that location's best-selling summer dress when the temperature hits 80 degrees.



CONNECTIVITY

- ON Liveboards are designed and built to connect via Wi-Fi to the Internet and the Cloud
- Additionally, all ON Liveboards are can share a single Internet connection, and can connect with each other
- Speakers or other appliances can connect via Bluetooth

TECHNICAL OPERATIONS PORTAL USER GUIDE

NEW FEATURES IN VLE 1.7.1

Basic Monitoring Metrics and Alerts Viewable in Liveboard Overview

To give level one technical support fast access to the critical information they need to monitor liveboards, the Tech Ops Portal now has a Basic Monitoring Metrics Drawer for each provisioned liveboard on the Liveboard Overview page.

CHAPTER

When opened, the drawer shows :

- Alert status (and quicklink to the Alerts tab)
- Basic Hardware and Software metrics (player presence, CPU Temperature/Load, RAM, Heap, uptimes), and
- Display Shortcuts for various tasks (enabling EMS ticker, turning on debugging overlay, turning display off or rebooting display, launching command terminal).

Advanced Telemetry Metrics for Environment, Temperature, and More

Advanced metrics for level 2 support are now located on the Advanced Monitoring tab.

The Advanced Monitoring Tab adds specific metrics for environment (ambient and enclosure temperature, humidity, and ambient light) and power (backlight, video, overall powerdraw and consumption). The liveboard, playbacks and networks & sync metrics now have their own tabs.

You can now view history for each metric (including custom time range) and download a CSV log.

Merged & Simplified Liveboard Tabs

The following changes and simplifications have been made to Liveboard tabs:

- Profile & Provisioning tab and Settings tabs have been combined into one tab, Profile & Settings (Provisioning fields have been removed).
- The Applications and Firmware tabs have been combined into one tab, About Device.

Playlist Playback Changes (Items Per Pass)

When using **Items Per Pass** option for when directly scheduling a playlist, the playlist items will now be displayed for the dwell time of that liveboard on each pass (instead of the playlist items having to split the dwell time for each pass). Custom duration times for playlist items will now be respected (for directly scheduled playlists only; custom duration times for playlist items in an embedded playlist in a layout will still be ignored).



TECHNICAL OPERATIONS PORTAL USER GUIDE

CHAPTER

MANAGING AND MONITORING LIVEBOARDS

The pages found under the DEVICES header on the dashboard contain all the fields and settings necessary for configuring, managing, and troubleshooting your array of liveboards.

The liveboard is constantly reporting to the Technical Operations Portal, and metrics are updated with new data.

Advanced telemetry metrics will be available if the liveboard model has the proper sensors/capability to provide them. Consult your hardware manuals and/or the hardware team for more information.

If you see an N/A next to a metric, it could mean several things:

- the metric has not yet loaded
- if N/A persists more than a few seconds (and you see other metrics have loaded), the metric is likely not available because the liveboard doesn't have the capability to provide it
- the liveboard is offline.

Liveboard Overview Page

The Liveboard Overview page shows high level details of all liveboards managed (including active alerts and player presence metrics to quickly see liveboard health).

To view high level details of all liveboards managed:

- On the dashboard, under **Devices**, click **LIVEBOARDS**.

Ops//Portal	Live	eboard	s												
OUTFRONT	Shov	ving 20 liveb	bands of 84) 0 selec	ted							Q				
rganization Context		-	Name \$	Serial Number 🖨	Alerts T	Connectivity	Performance Quality	Network Quality \$	Playback Reports \$	Pinged 🖨	Location \$	Tags	Display Type 🗢 🕇	Orientation \$ T	EDIT
VICES		ŧ	Amazing Rob Board	DPC- 100CA2- 152220012	A 1	Online	Good	• Weak	On Time	Yes			liveboard	Landscape	
nage PROJECTS DATA SOURCES	٠	Œ	Couch Middle (0003)	DPC- 330TW1- 155030003		Online	Good	• Weak	On Time	Yes		Washingto	liveboard	Portrait	
BROWSE CONTENT	•	Œ	Yucef 4K	1d85e859	7	Online	Good	• Weak	On Time	Yes	♥ 1751, rue Richardson, montreal	test	liveboard	Landscape	
EVENTS EVENT GROUPS		ŧ	Moonshine	DPC- 110CA2- 160710547	-8	Online	Good	Strong	OnTime	Yes		pretzels a	liveboard		
ninistration USERS ORGANIZATIONS		ŧ	Couch Right (0022)	DPC- 330TW1- 155030022	1	Online	Good	• Weak	On Time	Yes		Boston	liveboard	Portrait	
agement. CLOUD		Œ	AaronPortr	DPC- 100CA1- 150410025	46 A	Online	Good	• Weak	OnTime	Yes			liveboard	Reverse Portrait	

Player Presence Metrics

Player Presence Metrics show TechOps and LiveOps personnel critical information to quickly diagnose liveboard connectivity.

Player Presence metrics are shown in several locations:

- In columns on the liveboard Overview Page
- In the Liveboard Basic Monitoring Drawer on the Liveboard Overview page
- On the header section of the Liveboard Detail Page

OUTFRONT	Stor	ving 20 livebo	ands of 84) 0 selected								Q				
Organization Cantest	-	-	Name •	Serial Number ‡	Alerts T	Connectivity ≑ T	Performance Quality	Network Quality \$	Playback Reports ¢	Pinged \$	Location ¢	Tags	Display Type ‡ T	Orientation \$ T	EDIT
Devices		œ	4k final	DPC-430TW1- 170210154		O Offline	Poor	Weak	Unresponsive	No		8	liveboard	Reverse Portrait	
Signage		Œ	78101X02C	78101X02C	÷	O Offlice	Poor	Weak	Unresponsive	No			liveboard	Portrait	
		Œ	78101XON6_	78101XON6	•	O Offline	Poor	Weak	Unresponsive	No					

NOTE: If these metrics are not displayed on the Overview Page. Click EDIT (right side of page) to access the Column editing page and turn them on.

Liveboard Basic Monitoring Drawer

 1 2 4 11 12 4 1 4 1 1 1 1 1 1 1 1 1 1 1		
No Alerts	Hardware	
Alerts	CPU Temperature	59° C / 138.2° F
Alcibo	Ambient Temperature	N/A
	CPU Load	6.01%
	Disk Primary	1.78 GB / 27.22 GB (6.53%)
	HEAP	12.20 MB / 192.00 MB (6.36%)
hisplay Shortcuts	RAM	313.03 MB / 1.69 GB (18.05%)
On Ticker	System Uptime	1 month, 1 week, 5 days, 3 hours, 25 minutes, 11 seconds
	Backlight	N/A
Overlay	Video	N/A
Disabled Daily Software Reboot	Power Draw	N/A
	Software	
Reboot Software Reboot	Connectivity	Online
Clear Clear Screen	Network Quality	Weak
	Playback Report	On Time
Launch Command Terminal	Service Uptime	3 weeks, 16 hours, 28 minutes, 33 seconds

Liveboard Detail Page Header

Live	eboard										
Device Organ ID: 1 Serial XMPP	e Name: Amazing Rob lization: Rob Number: DPC-100CA 9 Status: ["current":["id	Board 2-1522200 ":"5988ff8)12 f3d167	64e1d2d12:	19","type":	"ad"]}	ſ		NETWORK QUALITY	PLAYBACK REPORTS On Time	PINGED Yes
Schedule	Advanced Monitoring	Alerts 1	Wifi	Downloads	Content	Command Terminal	Screencapture	Profile & Settings	About Device		-

Table: Player Presence Fields

Presence Metric Type	Status	Meaning	Possible Source Causes					
XMPP Connectivity	Online	The communication protocol between the device and server is enabled.	N/A					
Whether liveboard and server are communicating.	Offline	The communication protocol between the device and server is disabled.	 Power outage Disconnected board Agent server is not responsive Internet is down Various XMPP Connectivity issues 					
	On Time	The reports are being received within 0-15 minutes.	N/A					
Playback Reports Measured by frequency	Delayed	The reports are being received at an average wait time of 16-60 minutes.	 Degraded network link quality Unusual network latency Asset w/duration time longer than 16 minutes The player may have become unresponsive The player might be disconnected 					
of reports being received by start time of asset playback.	Unresponsive	No reports have been received in the last 60 minutes.	 The player may have become unresponsive Network conditions may have deteriorated The player might be disconnected Asset w/duration time longer than 60 minutes 					
	No Schedule	All Schedules are cleared from the physical canvas board	N/A					
	Strong	Your Wi-Fi is strong and the communication between your player and server is good.	N/A					
Network Quality	Average	Your Wi-Fi is weak and the communication between your player and server is good. OR	 Wi-Fi coverage is diminished with some packet loss occurring Location of liveboard is below ground (subway system for instance), causing signal strength to be weaker Traffic shaping by Internet Provider. May 					
Measurement for the strength of Wi-Fi signal and ping time.		Your Wi-Fi is good, but the communication between your player and server is weak.	 require liveboard to be white listed on server Wi-Fi antenna damage. If issue persists and no geographical issues are present. Slow internet connection due to substandard router. 					
	Weak	The communication between your player and server is weak. Your Wi-Fi connection is weak too.	 Your device might be interfered by electromagnetic disturbances such as thick metal, concrete, etc. Slow internet connection due to substandard router Wi-Fi antenna damage 					
Pinged	Yes	Your device is responsive	N/A					
Message sent to the server to check if the player is alive.	No	Your device has been unresponsive for more than 2 minutes.	Player APKs are not up-to-dateThe player has crashed					
	Good							
PERFORMANCE QUALITY	Average	An aggregate result of XMPP Connectiv	ity, Playback Reports, Network Quality and Pinged.					
	Poor							

Title	Information						
Name	Liveboard name (from Profile & Settings Tab)						
Serial Number	Unique DPC ID of liveboard						
Alerts	Active liveboard alerts						
Location	Device location (only shown if address is entered in Profile)						
Tags	Tags assigned in Profile, can search by tags						
Display Type	 Filter by display types (only shown if Display Type is entered in Profile) All Liveboard LiveboardX Vision 						
Orientation	Liveboard orientation						
Organization	Organization liveboard is assigned to						
Edit EDIT	Custom settings for which fields will appear on this page and their order.						

Table: Other Liveboard Information Fields

Task	Directions
Filtering by Column	 The Alerts, Display Type, Orientation and XMPP Connectivity columns are filterable. Click the column header and select the option to filter by. To remove the filter, click the column header and select All. An easier way to remove the filters here which is to click the "Clear Filter X" button.
Filtering using Search	 You can search using information from the Name, and Tags fields. Start typing in the magnifying glass field at the top left of the page. The list will filter as you type. To remove the filter, delete the text in the Search field.

Basic Monitoring

- On the Liveboard Overview page, click [+] to expand the Liveboard Basic Monitoring Drawer.

The **Basic Monitoring Drawer** shows hardware and software metrics and information most important to level one support.

This drawer shows at a glance:

- Active Alerts (and a quicklink to the Alerts tab)
- Basic monitoring metrics (hardware and software) for a liveboard, with quicklink to Advanced Monitoring tab on the liveboard detail page
- Display Shortcuts to perform basic liveboard tasks (turn on EMS ticker, reboot liveboard, turn backlight off)

										Q,				
0	wiji 54 Uyeb	oards of / D selected	Clear Filters X											
	-	Name ‡	Serial Number \$	Alerts T	Connectivity	Performance Quality	Network Quality \$	Playback Reports ¢	Pinged \$	Location #	Tags	Display Type \$ T	Orientation \$ T	EDI
	E	Bendesk	DPC-110CA2- 160710583	A 1	• Online	Poor	· Wesk	Unresponsive	No	9 1591 Richardson, Quarber,		liveboard.	Reverse Portrait	
	Alerts			Basic Mor	nitoring									
	A	1 Alerts⊗		CF Amble	Hardware PU Temperature nt Temperature CPU Load	49° C / 120.2° F N/A 0.72 %								
	Display Sh	ortcuts			Disk Primary HEAP RAM	1.10 GB/27.200 10.97 MB/1920 315.82 MB/160	GB (4.04%) 00 MB (5.71%) 9 GB (18.21%)	1						
	Off	Ticker			System Uptime	2 days, 10 hours,	49 minutes, 5 se	conds						
	On	Overlay			Backlight Video	N/A N/A								
	Disabled	Daily Software Reboo	e		Power Draw	N/A								
	Reboot	Software Reboot			Software Connectivity	Online								
	Clear	Clear Screen		N	letwork Quality	 Weak 								
	Launch	Command Terminal			Nayback Report Service Uptime	Unresponsive 2 days, 10 hours,	48 minutes, 39 s	econds						
	Settings	Backlight: ON		See Ad	vanced Monitorin	φ								

Display Shortcuts

Shortcut	Function	Directions
Ticker	Enabling EMS Ticker	 To enable the Emergency Messaging System: 1. Move the Ticker slider to ON. 2. Click OK on the dialog. NOTE: You will need to have created an EMS datasource and uploaded relevant content to display EMS content. See "Configuring Emergency Messaging."
Overlay	Turns on a debugging overlay (same as the "show overlay" command from Command Terminal)	Move slider to ON.To remove overlay, move slider to OFF.
Daily Software Reboot	Defines daily time to reboot liveboard	 To make the liveboard reboot every day: Click the Daily Software Reboot button. Check box for Enable a Daily Reboot, and enter the time to reboot (12 hr/AM/PM format). Click Save.

Software Reboot	Reboots liveboard immediately.	 Click Reboot button. Liveboard immediately reboots. Liveboard behavior after reboot depends on what was configured during provisioning (either show logo or show content that was playing before reboot). NOTE: You can change this behavior using the Set Boot Asset Mode in Command Terminal.
Clear Screen	Removes all schedules from liveboard.	 Click Clear button.
Command Terminal	Launches Command Terminal.	— Click Launch button.
Backlight	Turn backlight on/off AND defines daily display time (turns off liveboard backlight)	 To save power, (or just keep the environment where the liveboard is in dark), you can turn the backlight off, or set the liveboard to turn off the backlight on the display for a certain period of time. Click the Backlight > Settings, and move slide for Enabled Backlight to OFF position. To turn backlight off every day, check the box and enter the time the display should turn on, and the time the display should turn off (12 hr/AM/PM format). Backlight Settings Enabled Backlight on daily between 9:00 AM and 5:00 PM Cancel Save Click Save. The shortcut display will now show the on/off time.

Basic Monitoring Metrics

Basic Monitoring Metrics (Hardware)

NOTE: Backlight, Video and **Power Draw** metrics have color-coded shortcuts. If status is green, the shortcut goes to the associated telemetry page; if the status is red, the shortcut goes to the **Alerts** tab.

Field	Description
CPU Temperature	Processor temperature
Ambient Temperature	Temperature in immediate proximity of liveboard (a few inches)
CPU Load	Current CPU processor usage
Disk Primary	Local storage in use (on SD card)
HEAP	Current heap memory size
RAM	Current RAM usage
System Uptime	Liveboard uptime since last powered off
Backlight	Power used for backlight at high level: Good (Green), Bad (Red), and N/A (Grey)
Video	Power used to display content on screen at high level: Good (Green), Bad (Red), and N/A (Grey)
Power Draw	Snapshot of overall power draw at high level: Good (Green), Bad (Red), and N/A (Grey)

Basic Monitoring Metrics (Software)

These are the player presence metrics found elsewhere in the Tech Ops Portal.

Field	Description			
Connectivity	Whether liveboard and server are communicating.			
Network Quality	Measurement for the strength of Wi-Fi signal and ping time.			
Playback Report	Measured by frequency of reports being received by start time of asset playback.			
Service Uptime	Super User Service Uptime			

Advanced Monitoring

Advanced Monitoring is a new liveboard tab that contains detailed metric information and history for level 2 technical support.

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There are Advanced Monitoring Tabs for:

Tab	Metrics
Liveboard	System Uptime Service Uptime CPU Load CPU Temperature Disk Primary Heap RAM
Environment	Ambient Temperature (External Sensor) Ambient Light (External Sensor) PRT Air Temperature Enclosure Air Temp (Top) Enclosure Air Temp (Bottom) PRT Air Humidity
Network & Sync	SSID IP Address Network Quality Signal Strength Link Speed Link Quality Median Disconnect Time Ping Time Clock Synchronization - NTP Server - Reachability - Average RMS Offset - Last Synced
Playbacks	Playback Quality Last 5 Playbacks (list) Schedule Deliveries (list)
Power	Main – Power Draw – Power Consumption – DPC Power (5V) – VIdeo Power (12V) – PRT Power (24V) – Power Supply Output (24V) – Backlight Power Auxiliary – Auxiliary (3.3V) – Auxiliary (5V)

View/Export History for Individual Metric

You can view history for almost all metrics (including custom time range) and download a .CSV log for that range. A metric with available history has a green arrow.

- Click the green arrow to open a history page.

45° C/ 113° F						
LIVEBOARD	Liveboard	> CPU Tem	perature			
ENVIRONMENT	-					
NETWORK AND SYNC	History	24 hours	•			
PLAYBACKS	range	From 2017/8/	19, 20:13			
POWER	88.00 °C - 5000 °C - 52.00 °C - 52.00 °C - 52.00 °C - 48.00 °C - 44.00 °C - 42.00 °C - 42.00 °C -	to 2017/8/20,	20:13	v		
		Aug 20	OB AM	12 PM	OG PM	

From here you can:

Г

- View different time ranges (24 hours, 14 days, one month, or custom range)
- Export the log of the selected time range (click Export log as .csv)



Viewing Advanced Liveboard Metrics

The Liveboard tab contains basic liveboard metrics previously on the Monitoring tab.

vice Name: Ben desk ganization: Videri 71 rial Number: DPC-110CA2-160 IPP Status: ("current":("Id":"597	710583 76543063685c72c1edcb68";"type":"ad"])		NETWORK QUALITY Weak	PLAYBACK REPORTS Unresponsive	PINGE No
dule Advanced Monitoring	Alerts 3 With Downloads Content Command Liveboard System Uptime	Terminal Screencapture Profile & Settings	About Device CPU Load		0
PLAYBACKS POWER	2 days, 10 hours, 54 minutes, 45 seconds	2 days, 10 hours, 54 minutes, 18 seconds	10%		
	CPU Temperature Ø 48°C/118.4°F	Disk Primary 1.10 GB / 27.20 GB (4.0 %)	 Heap 10.99 MB / 	192.00 MB (5.7 %)	۲
	RAM Ø				
	Logs Upload Tombstones				
	Filename	Last modified		Size	

Table: Advanced Liveboard Metrics

Field	Description	Related Alerts	
System Uptime	Liveboard uptime since last powered off		
Service Uptime	Super User Service Uptime		
CPU Load	Current CPU processor usage	DeviceCPULoad	
CPU Temperature	Processor temperature	DeviceCPUTemperature	
Disk Primary	Local storage in use (on SD card)	DeviceStorageSd1AvailableBytes	
HEAP	Current heap memory size (MB)	DeviceHeapAvailableBytes	
RAM	Current RAM usage (MB)	DeviceRAMAvailableBytes	

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Viewing Tombstones

Tombstones are only generated after a system crash.

- 1. Click **Upload Tombstones** to upload logs into a list.
- 2. Click desired log to download and view.

Viewing Advanced Environment Metrics

Environment metrics take input from external sensors (offboard sensors) and internal PRT sensors to show temperature, light and humidity data.

NOTE: Advanced environment metrics will only be available if the liveboard model has the proper sensors/capability to provide them. Consult your hardware manuals and/or the hardware team for more information.

vice Name: Amazing Rob Board ganization: Rob 1 lai Number: DPC-100CA2-15222 IPP Status: ("current": ":"59962e8b1f9ea046ffb8cd0b"	20012 "type":"ad"}]	CONNECTIVITY Online	NETWORK QUAL	ITY PLAYBACK REPORTS On Time	PINGET Yes
ule Advanced Monitoring Alerts	Wiff Downloads Content Command Term	ninal Screencapture Profile & Sett	ings About Devic	ie i	
	Environment				
NETWORK AND SYNC	External Sensors				
PLAYBACKS	Ambient Temperature	Ambient Light	Θ		
POWER	23.5° C / 74.3° F	N/A			
	Internal Sensors				
	PRT Air Temperature 💿	Enclosure Air Temp (To	op) 💿	Enclosure Air Temp (Botto	m)
	30.5° C / 86.9° F	31.6° C / 88.9° F		31.1°C/87.9°F	Θ
	PRT Air Humidity 😐				
	29.82%				

Table: Advanced Environment Metrics

Field		Description	Related Alert				
External Se	External Sensors						
	Ambient Temperature	Temperature in immediate proximity of liveboard (a few inches)	DeviceAmbientAirTemperature				
	Ambient Light	Measure of light (in lux units) in immediate proximity of liveboard, used in conjunction with liveboard Auto- brightness setting.					
		NOTE : Only available if liveboard has lighting sensor.					
Internal Se	nsors						
	PRT Air Temperature	Air temperature detected by PRT unit	DeviceEnclosureAirTemperature (PRT)				
	Enclosure AirTemp (Top)	Air temperature inside liveboard enclosure (top of unit).	DeviceEnclosureAirTemperature (will be triggered if either Top or Bottom Enclosure Airtemp is outside of specs)				
	Enclosure AirTemp (Bottom)	Air temperature inside liveboard enclosure (bottom of unit).	DeviceEnclosureAirTemperature (will be triggered if either Top or Bottom Enclosure Airtemp is outside of specs)				
	PRT Air Humidity	Humidity in immediate proximity of liveboard	DeviceENVRelativeHumidity				

Environment History

PRT AirTemperature, EnclosureAirTemp (Top) and EnclosureAirTemp (Bottom) are combined when shown in history (and in the exported CSV log).





Viewing Advanced Network & Sync Metrics

The Advanced Network & Sync Metrics page shows metrics associated with connectivity.

evice Name: AaronPortrait ganization: Aaron 49 rial Number: DPC-100CA1-15 4PP Status: ["current": 4": 5998d141838a38787c98 4": "599a230c64568b787c426	0410025 02f8",'type":"ad"],'pending": 3d2c",'type":"ad"]]		CONNECTIVITY Online	NETWORK QUALITY	PLAVBACK REPORTS On Time	PINGE Yes
edule Advanced Monitoring	Alerts Wifi Download	s Content Comm	and Terminal Screencap	pture Profile & Settings	About Device	
LIVEBOARD	Network and S	ync				
ENVIRONMENT	SSID		ID Address		Network Quality	
NETWORK AND SYNC	3310	_	IP Address		Network Quanty	-
PLAYBACKS			10.111246		HVerage.	
POWER	Signal Strength	•	Link Speed		Link Quality	
	-50 dBm		39Mbps		3 disconnects since last Thursday at 12:23 PM	
	Median Disconnect	Time	Ping Time	Θ		
	5437.5 ms		37 ms			
	Clock Synchronizati	on				
	NTP SERVER	129.6.15.29				
	REACHABILITY	75 % Success				
	AVERAGE RM5 OFFSET	0.0002578849962	4468386 seconds			
	LAST SYNCED	8:31 PM 08/20/2	017 Local Time (America 017 UTC Time	/Los_Angeles)		

Table: Advanced Network & Sync Metrics

Field	Description	Related Alert
SSID	Liveboard SSID	
IP Address	Liveboard IP Address	
Network Quality	Measurement for the strength of Wi-Fi signal and ping time.	
Signal Strength	Measurement for the strength of Wi-Fi signal	
Link Speed	Connection speed	
Link Quality	Number of disconnects since last indicated date.	
Median Disconnect Time	Median disconnect time	
Ping Time	Speed of liveboard (in ms) pinging cloud	DeviceNetworkPingTime
Clock Synchronization Metrics	Metrics that show whether the system clock is synchronized with the NTP server	
NTP Server	Server that uses UTC to synchronize our devices' system clock	
Reachability	Success rate registered on every received and missed packet from the source	
Average RMS Offset	Long-term average of the offset value of the source	DeviceNTPRMSOffset
Last Synched	Last time this metric was registered	

Viewing Advanced Playback Metricss

The Advanced Playback Metrics page has one metric, **Playback Quality** and shows Last 5 Playbacks and Schedule Deliveries.

NOTE: Last 5 Playbacks and Schedule Deliveries are also found on the **Liveboard > Schedule** tab.

Liveboard Device Name: Couch Right (0022) Organization: Jesse Corp D: 114 Erial Number: DPC-330TW1-155 IMPP Status: ("current":("id":"0") Id":"599630149f2ef13b7ebc4e5	030022 ypet"frane"("pending": 3"typet"fad"))	CONNECTIVITY Online	NETWORK QUALITY Weak	PLAYBACK REPORTS PINGE No Schedule Yes
hedule Advanced Monitoring	Alerts Wifi Downloads Content Command Terminal Scre	encapture Profile &	Settings About Device	
LIVEBOARD	Playbacks			
ENVIRONMENT				
	Playback Quality			
NETWORK AND SYNC	No Schedule			
PLAYBACKS				
POWER	Last 5 Playbacks			
	Playback ID Name		Playbach Type Last Pl	aved At (Last playback end time)
	14776 ArtCreatures-dragon_fantasy_art_feathers_1	8978_1080x1920-00	23 image	2017/08/17, 14:22:00
	14694 ArtAbstract-1-1305262023	02-0005	image	2017/08/17, 14:21:00
	15001 ArtTech-Milano-Engine-water	mark-0006	Image	2017/08/17, 14:20:00
	ArtScapes-star_art_sky_night_people_silhouett	e_98142_1080x1920-	0040 image	2017/08/17, 14:18:00
	ArtSpace-space_planet_light_night_sky_94	442_1080x1920-000) image	2017/08/17, 14:19:00
	Schedule Deliveries			
	Schedule ID	Stațus L	ast Dolivery Attempt	.Updated At
	59965014992#1367ebc4e53	delivered	2017/8/18,09:33	2017/8/18,09:33
	59960421ec0127767ed70268	delivered	2017/8/17, 15:02	2017/8/17, 15:02
	Playback Reports			
	Create a report of all the playbac	ks that occurred durin	g a specific period for this de	rvice.
	08/17/2017 1:05 P	и то о	8/18/2017 1:05 PM	+
	Showing 10 reports of 10			
	From e To =	CSV Downlo	ad o Status	÷ EDIT
	2017/8/13, 13:59 2017/8/14, 13:59	download CS	V readv	

Field	Description
Playback Quality	Frequency of reports being received by start time of asset playback. Same information as player presence metric Playback Reports .

Playbacks Tab	Information
Viewing Last 5 Playbacks	This section shows which content was played on a liveboard in the previous 90 seconds (data extracted from playback reports).
Viewing Delivered Events	This section shows the date and time of up to the last ten schedules delivered to the liveboard. When a schedule is edited, it's usually delivered immediately to the liveboard.

Running Playback Reports

Playback reports contain records of every asset playback for the liveboard in a selected range. Reports are now available for a defined range, and are generated asynchronously and delivered to a report list for later downloading.

To download a playout report:

- 1. On the dashboard, click LIVEBOARDS > [LIVEBOARD] > Advanced Monitoring > Playbacks.
- 2. Under the **Playback Reports** section, use the calendar to select a range for the report.

	(03/	30/20	17 10	47 AN	1			To 03/31/2017 10:47 AM	• • • •	
Showing 2 reports of 2		<		Ma	rch 20	17		>			
From ¢	To •	Su 26	Mo 27	Tu 28	We 1	Th 2	Fr 3	5a 4	SV Download \$	Status 🖨	EDIT
2017/3/22,06:00	201;	5	6	7	8	9	10	11	ownload C5V	ready	
2017/1/1, 06:00	2017	12 19	13 20	14 21	15 22	16 23	17 24	18 25	ownload CSV	ready	
		26	27	28	29	30	31,				
					0						

- 3. Click the green download button (+).
- 4. The playout report will first appear as PENDING in the list while it's being compiled, then show as READY. You can then click **Download CSV** to get the report.

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Table: Playback Report Fields

Each row of the CSV represents information about the asset played on the liveboard (some fields may be blank).

Field	Description
Player	Liveboard DPC ID (from physical liveboard)
VLE	Liveboard ID (provided by the server environment the liveboard is provisioned to)
Layout	Layout ID that contains asset (if layouts are used)
External	Project ID of Project that contains asset
Project Name	Name of Project that contains asset
Start Time	Playback start time
End Time	Playback end time
Duration	Playback duration
Duration Rounded	Playback duration rounded up or down to nearest second
Player Name	Liveboard name on which the playback occurred
IMS Market	OFM field
Unit Number	OFM field
Contract	OFM field
Version	Core application that plays content
Asset	Asset ID
Customer File Name	Asset name
Asset URL	Asset storage URL

Ū,	1	B	C	D	E	F	G	H	1	and a second	K	L	M	N	Ö	P	Q
8	Player	Vie	Layout	External	Project Name	Start Time	End Time	Duration	Duration Rou	Player Name	Ims Market	Unit Number	Contract	Version	Asset	Customer File Name	Asset Url
2	DPC-100CA1-150410025	13	null	365		2017-03-15T19:36:56	2017-03-15719:37:04.101	8	8	AaronLandscape				AdSync			
3	DPC-100CA1-150410025	13	null	365		2017-03-15T19:37:04	2017-03-15719:37:12.103	8	8	AaronLandscape				AdSync			
4	DPC-100CA1-150410025	13	null	365		2017-03-15T19:37:12.	2017-03-15719:37:20.104	8	8	AaronLandscape				AdSync			
5	DPC-100CA1-150410025	13	nut	365		2017-03-15T19:37:20	2017-03-15T19:37:28.095	7.99	8	AaronLandscape				AdSync			
6	DPC-100CA1-150410025	13	null	365		2017-03-15T19:37:28.0	2017-03-15T19:37:36,104	8.01	8	AaronLandscape				AdSync			
7	DPC-100CA1-150410025	13	null	365		2017-03-15T19:37:36.	2017-03-15T19:37:44.099	8	8	AaronLandscape				AdSync			
8	DPC-100CA1-150410025	13	null	365		2017-03-15T19:37:44.0	2017-03-15T19:37:46.306	2.21	2	AaronLandscape				AdSync			
9	DPC-100CA1-150410025	13	null	D		2017-03-15719:37:46.	2017-03-15T19:38:16.188	29.88	30	AaronLandscape				AdSync			
10	DPC-100CA1-150410025	13	null	0		2017-03-15T19:38:16	2017-03-15T19:38:26.220	10.03	10	AaronLandscape				AdSync			
11	DPC-100CA1-150410025	13	nuti	0		2017-03-15T19:38:26.	2017-03-15T19:38:56.034	29.81	30	AaronLandscape				AdSync			
12	DPC-100CA1-150410025	13	nuti	0		2017-03-15T19:38:56.0	2017-03-15719:39:26.031	30	30	AaronLandscape				AdSync			
13	DPC-100CA1-150410025	13	null	0		2017-03-15T19:39:26.0	2017-03-15T19:39:34,051	8.02	8	AaronLandscape				AdSync			
14	DPC-100CA1-150410025	13	null	0		2017-03-15719:40:07.	2017-03-15T19:40:35.853	28.6	29	AaronLandscape				AdSync			
15	DPC-100CA1-150410025	13	null	0		2017-03-15T19:40:35.4	2017-03-15719:41:05.860	30.01	30	AaronLandscape				AdSync			
16	DPC-100CA1-150410025	13	null	0		2017-03-15T19:41:05.	2017-03-15T19:41:29.116	23.26	23	AaronLandscape				AdSync			

Viewing Advanced Power Metrics

The Power tab displays metrics relating to both main and auxiliary (supplemental) power sources.

Power metrics (except Power Draw and Backlight Power) are shown in three units: voltage, current and power.

ial Number: 78101X02C0026 IPP Status: {"current": {"type": "	49001ABJ202 'ad'','id':''59938be933397!4578f8b7b4	"]]	• Onlin	2)	Average	On Time	Yes
dule Advanced Monitoring	Alerts Wifi Downloads Conte	nt Command T	ferminal Screencapture Profile &	Settings	About Device		
LIVEBOARD	Power						
ENVIRONMENT	A data						
NETWORK AND SYNC	IMditt						
DIAVRACKS	Power Draw	۲	DPC Power (5V)	۲	Video Power (12V	n ©	
- Childheng	• 107.2 W		Voltage: 4.97 V		Voltage: 11.99	v	
POWER	View Power Coreamplian		Current: 1.33 A		Current: 0.89	N.	
			Power: 6.59 W		Power: 10.61 V	v	
	PRT Power (24V)	۲	Power Supply Output (24V)	۲	Backlight Power	۵	
	Voltage: 24.4 V		Voltage: 24.48 V		• 102.32 W		
	Current: 0.89 A		Current: 5.06 A				
	Power: 21.59 W		Power: 123.91 W				
	Auxiliary						
	Augilians (2.230		Augilian (5) A	0	Augilians (120.0		
	Notice 2 221		Notices (071)		Mukinary (12V)	v	
	Current: 0.11 A		Current: 0.19A		 vortage: 11.92 Current: 0.04 / 		

Table: Advanced Power Metrics

	Field	Description	Related Alerts
Main			
	Power Draw	Snapshot of power usage of entire device (in watts)	
	Power Consumption (only metric history)	Cumulative power usage of entire device in kilowatt hours (kWh) since the last midnight interval began	

	DPC Power (5V)	Snapshot of power metrics used by DPC board	Device5vMainVoltage Device5vMainCurrent Device5vMainPower
	Video Power (12V)	Snapshot of power metrics for video	DeviceSystemis12VGood (high-level status of video power) Device12vAMainVoltage Device12vMainCurrent Device12vMainPower
	PRT Power (24V)	Snapshot of power metrics for PRT	Device24vInputVoltage Device24InputCurrent Device24InputPower
	Power Supply Output (24V)	Snapshot of power supplied by PSU	Device24vPsuOutputVoltage Device24PsuOutputCurrent Device24PsuOutputPower
	Backlight Power	Power used by LED driver for backlight. Backlight Power is a compound metric calculated from two other metrics: PA.24V_PSU_OUTPUT.POWER (minus) PRT. 24V_INPUT.POWER.	DeviceSystemIsBluFault
Auxiliary	·	·	
	3V3_Auxiliary	NOT CURRENTLY IN USE Metrics from alternative power sources	Device 3 v 3 Auxiliary Voltage Device 3 v 3 Auxiliary Current Device 3 v 3 Auxiliary Power
	5V_Auxiliary	NOT CURRENTLY IN USE	Device5vAuxiliaryVoltage

5V_Auxiliary	NOT CURRENTLY IN USE Metrics from alternative power sources	Device5vAuxiliaryVoltage Device5vAuxiliaryCurrent Device5vAuxiliaryPower
12V_Auxiliary	NOT CURRENTLY IN USE Metrics from alternative power sources	Device12vAuxiliaryVoltage Device12vAuxiliaryCurrent Device12vAuxiliaryPower



Power Metric History Page

A history page for any power metric will show voltage, current and power.

	Power > DPC	Power (5V)	
ENVIRONMENT			
	History		
NETWORK AND SYNC			
	Time range	24 hours	\$
PLAYBACKS		From 2017/8/19, 21:13 t	0
		2017/8/20, 21:13	
POWER	Voltage (V)		
	4		
	10.80 V -		
	10.40 V -		
	10.20 V -		
	10.00 V -		
	9.60 V -		
	9.40 V -		
	9.00 V -		
		Aug 20 DB AM	12 PM 06 PM
	4.00 A		
	4.00 A 3.80 A 3.40 A 3.20 A 3.00 A 2.00 A 2.00 A 2.00 A 2.00 A 2.00 A		
	4.00 A 380 A 360 A 320 A 320 A 260 A 240 A 220 A 220 A	Aug 20 OS AM	And a share you have not the the pro- tack to the state of the state o
	400 A 380 A 380 A 390 A 390 A 390 A 280 A 280 A 280 A 280 A 280 A 280 A 280 A 280 A 280 A 390 A	Aug 20 OS AM	and a star of the
	400 A 380 A 380 A 390 A 390 A 390 A 290 A 290 A 290 A 290 A 290 A	Aug 20 OS AM	and a second and a
	400 A 380 A 380 A 390 A 390 A 280 A 280 A 280 A 290 A 200 A 200 A	Aug 20 08 AM	
	400 A 380 A 380 A 390 A 390 A 390 A 280 A	Aug 20 09 AM	
	400 A 380 A 320 A 320 A 320 A 200 A 220 A 220 A 200 A 220 A 700 W 1500 W 1500 W 1500 W	Ag 20 05 AM	
	400 A 380 A 340 A 320 A 320 A 200 A 240 A 320 A 240 A 240 A 320 A 240 A 320 A 240 A 240 A 320 A 240 A 240 A 320 A 340 A	Aug 20 00 AM	
	400 A 380 A 380 A 320 A 320 A 220 A 220 A 220 A 220 A 220 A 220 A 220 A 220 A	Aug 20 Or AM	
	400 A 380 A 340 A 320 A 320 A 220 A 200 A 220 A 200 A 220 A 200 A 220 A 200 A		
	400 A 380 A 300 A 320 A 320 A 220 A 220 A 220 A 200 W 1700 W 18.00 W 18.00 W 1200 W 18.00 W 1000 W 1000 W 1000 W		arbu arbu arbu arbu arbu arbu arbu arbu



Configuring Basic Profile & Settings

When the liveboard is provisioned, it receives some basic settings like Wi-Fi network. However, there are some additional settings that you may want to configure on a new liveboard.

Configuring Liveboard Profile & Settings Options

— On the dashboard, click LIVEBOARDS > [click on desired LIVEBOARD] > Profile & Settings

Irganization: Videri D: 71 erial Number: DPC-110CA2-1607 MPP Status: ("current": idi":"597f56e287fd1f5976b7f65c'	10583 CONNECTIVITY NETWORK QUALITY "type":"ad"]} Online Strong	PLAYBACK REPORTS PINGED On Time Yes
edule Advanced Monitoring Alerts	Wifi Downloads Content Command Terminal Screencapture Profile & Sett	ings About Device
Liveboard Name	Ben desk	
Display Type	Liveboard +	
Schedule Delivery Mode	ccdse \$	
Schedule URL (optional)	https://videri.s3.amazonaws.com/dev/schedule/71/latest.json	
Dwell Time (in secs.)	8	
Number of Slots	8	
Reserved Slots		
Schedule Span (In Days)	15	
Screen Type	Entir Streen Type (Mison more service	
IMS Market	IMS Market	
Unit Number	Unit Number	
Owner	Enter Owner Name:	
Address	1591 Richardson, Quebec	✓ Stationary
GeoLocation	45,48520660000001 -73,560372	Autofill from address
Google [®]	SHAUGHNESSY ULLAGE ULTTLE UNROUNDY Costco Wholesale Costco Wholesale Costc	erms of Use Report a map error
Tags		
ttings	(7 m 20 m 20	
Timezone	America/Montreal	
HDMI Resolution	A010 •	1.000
Brightness	0	🗑 Automatic

Settings Tab Tasks	Directions
Schedule Delivery Mode	Ensure that the Schedule Delivery Mode field is set to either CCDSE or CCDSE_S3, or there may be playback issues.
Dwell Time	If not set, liveboard Dwell Time will default to 8 seconds. You may change this value, but the minimum dwell time is 2 seconds. NOTE : Content in playlists can have custom durations that override a liveboard's dwell time.
Tags	 The tags assigned to the liveboard here can be used with the new Rule Builder functionality to ensure only appropriate content will be displayed on this liveboard. NOTE: Admin users can create tags here. For more information, see the chapter, Tag Management. To assign tags to the liveboard: Click in the Tags field, and start typing. A drop-down menu shows available tags. Select tag to use. Repeat to add more tags. Click Save.
Reserved Slots	Enter the slot numbers, separated by commas to be reserved for emergency messaging.

Viewing, Acknowledging and Silencing Alerts

Pre-configured Alerts are triggered by events on the liveboards, or lack of events on liveboards.

 The number of active alerts is shown in several places (Liveboard Overview/Alerts column, Liveboard Basic Monitoring drawer, and on the Liveboard Alerts Tab).

wing 1 livebo	ard of ! Q selected Cle	ear Filters X						Q					
lan.	Name \$ Seria	l Alerts T	Connectivity ‡ T	Performance Quality	Quality 🖨	Playback Reports 🛊	Pinged \$	Location ‡	Tags	Display Type ≑ ▼	Orientation ‡ T	EDIT	
Θ	Yucef's 100 board left DPC- 100C 1522	A2- 11001	Online	Good	Strong	No Schedule	Yes		test	liveboard			
Alerts	_	Basic Mo	nitoring										
A	1 Alerts⊙	CPU Te	Hardware mperature Ambient mperature	49° C / 120.2° N/A	E								
Display Sh	ortcuts	Di	CPU Load sk Primary HEAP	1.49% 1.31 GB/27.2 9.64 MB/192	2 GB (4.8%) .00 MB (5.02%								
On On	Ticker	Syste	RAM em Uptime Backlight	106.49 MB / 1 10 hours, 47 m	.69 GB (6.14%) hinutes, 4 secor	nds							
iveboa evice Nam rganizatio 2: 11	ard n: Alfa n: Videri	00 61-150/100	20			ХМРРС	CONNECTIVI	TY	NETWORK	QUALITY	PLAYB	ACK REPORTS	PINGEI
MPP Statu	is: {"id": "58fe63a5	a9e153195174	ld124","typ	e":"ad"]]		• Or	line		Strong		OnT	Time	Yes

- Alerts on **Alerts History** list do not expire.
- When the condition that triggered the alert is no longer occurring, the alert will no longer be shown on the Alerts
 History list (this is a change from previous behavior, where an old alert would continue to be shown in Alerts History).

	rd					
Device Name: Organization:	Amazing Rob	Rob Board				
ID: 1 Serial Number	- DPC-10	0042-15222	20012			
XMPP Status:	["current"	":	CONNECTIVITY NETWORK O	UALITY	PLAYBACK REPO	DRTS PINGE
{"id":"59938bd	65b2e543	34578073d1	d""type";"ad"]]	100	On Time	Yes
chedule Advan	nced Monito	oring Alerts	1 Wifi Downloads Content Command Terminal Screencapture Profile & Sett	tings About De	evice	
Alerts History						
Showing 1 alert	of 1					
Alert Name		Severity	Message	Last Occ	urence Act	tions E
A DeviceCpuTe	emperature	e critical	Device DPC-100CA2-152220012 has been out of range for over 5 min: current value: 60	2017/8/1	15, 22:41	cknowledge
						Items per page:
ilence Setting	gs					
C Create Silence	e dí D					
Alert Name	tarte-di tari tar		Status End	Actions		F
In Densilier (
Alerts History	(legacy)					
Showing 3 alert	sors					
Device ID	Severity \$ T	Category ‡ T	Message	First Occurrence	Occurrences	Last Occurrence ¢
DBC 100CA2		Test.				
152220012	Medium	Temperature	1 Is CPU Temperature Is 83C	2017/5/15, 11:45	1	2017/5/15, 11:45
DPC-100CA2- 152220012 DPC-100CA2- 152220012	Medium	Temperature Presence	1 Is CPU Temperature Is 83C 1 Is Offline	2017/5/15, 11:45 2017/5/16, 14:34	1 22	2017/5/15, 11:45 2017/8/13, 17:49
DPC-100CA2- 152220012 DPC-100CA2- 152220012 DPC-100CA2- 152220012	Medium High	Temperature Presence Show Ad Falled	1 Is CPU Temperature Is 83C 1 Is Offline 1 Is 59776aee-8c8cdb Failed to Download From Https://layout-Dev.videri.com/player-Dist.zip Using HttpDownloadModel Because: ResponseCode: -1 Exception: EOFException	2017/5/15, 11:45 2017/5/16, 14:34 2017/7/26, 05:13	1 22 1	2017/5/15, 11:45 2017/8/13, 17:49 2017/7/26, 05:13
DPC-100CA2- 152220012 DPC-100CA2- 152220012 DPC-100CA2- 152220012	Medium High	Presence Show Ad Falled	1 Is CPU Temperature Is 83C 1 Is Offline 1 Is 59776aee-8c8cdb Failed to Download From Https://layout-Dev.videri.com/player-Dist.zip Using Http:DownloadModel Because: ResponseCode: -1 Exception: EOFException	2017/5/15, 11:45 2017/5/16, 14:34 2017/7/26, 05:13	1 22 1	2017/5/15, 11:45 2017/8/13, 17:49 2017/7/26, 05:13 Items per page:
DPC-100CA2- 152220012 DPC-100CA2- 152220012 DPC-100CA2- 152220012	Medium High gs (legacy	Temperature Presence Show Ad Failed	1 Is CPU Temperature Is 83C 1 Is Offline 1 Is 59776aee-BcBcdb Failed to Download From Https://layout-Dev.videri.com/player-Dist.zip Using HttpDownloadModel Because: ResponseCode: -1 Exception: EOFException	2017/5/15, 11:45 2017/5/16, 14:34 2017/7/26, 05:13	1 22 1	2017/5/15, 11:45 2017/8/13, 17:49 2017/7/26, 05:13 Items per page: 2 X Remove
DPC-100CA2- 152220012 DPC-100CA2- 152220012 DPC-100CA2- 152220012 inooze Setting O Create Snooze Category	Medium High gs (legacy	Presence Show Ad Failed	1 Is CPU Temperature Is 83C 1 Is Offline 1 Is 59776ace-8cBcdb Failed to Download From Https://layout-Devvideri.com/player-Dist.zip Using HttpDownloadModel Because: ResponseCode: -1 Exception: EOFException End Status	2017/5/15, 11:45 2017/5/16, 14:34 2017/7/26, 05:13	1 22 1 Acti	2017/5/15, 11:45 2017/8/13, 17:49 2017/7/26, 05:13 Items per page: 2 X Remove

Acknowledging and Silencing an Alert

- Active alerts can be acknowledged from the Alerts tab, which puts them into "silence" mode.

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To silence any alerts for a certain category:

1. On the dashboard, click LIVEBOARDS > [LIVEBOARD] > ALERTS tab.

Liveb	oard	2.7									
Device N Organiza ID: 1 Serial Nu XMPP St ["id":"59	lame: Amazing Rob ation: Rob umber: DPC-100CA atus: {"current": 90e87f07a2b2474	Board 2-152220 90705db";	012 "type":"ad	1"]]			CONNECTIVITY	NETWORK QU Weak	ALITY PLAYBAC Delaye	K REPORTS	PINGED Yes
Schedule	Advanced Monitoring	Alerts 1	Wifi	Downloads	Content	Command Termina	I Screencapture	Profile & Settings	About Device		
Alerts Hi	story										
Shawing !	I alert of 1										
Alert Nar	ne	Severity	Message						Last Occurrence	Actions	EDIT
A Devic	eCpuTemperature	critical	Device D	PC-100CA2-1	52220012	has been out of range	for over 5 min: curre	ent value: 62	2017/8/14, 12:41	Adenowie	dge
										Items	per page: 5 💲
Silence S	ettings										
OCreat	e Silence										
Showing	O silences of O										
Alert Nar	ne		Status			End			Actions		EDIT
No Resul	ts found.										

- 2. Click Create Silence (below Silence Settings).
- 3. Select an **Alert Name** and choose the length of time to silence the alert, before the alert will be displayed in the Alerts History list.

NOTE: This time is IN ADDITION TO the alert settle time.

want to slience DeviceCpuTemperature or: 5 minutes	*) alerts
	Cancel Create

4. Click Create.

Dismissing Silenced Alerts

To dismiss a silenced alert:

- Click Dismiss.

NOTE: If the Alert had been auto-silenced by clicking Acknowledge, the Alert will reappear on the Alert History list.

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Silenced Alert Names

The "alert settle time" is the time an alert condition must persist before the alert is triggered.

Alert Name	Alert Trigger Conditions	Alert Settle Time
DeviceCpuTemperature	Liveboard CPU temperature is: — less than -4°F/-20°C OR — greater than 176°F/80°C	5 minutes
DeviceCpuLoad	CPU load is greater than 0.99	5 minutes
DeviceHeapAvailableBytes	Heap is less than 10% max heap	5 minutes
DeviceRamAvailableBytes	There's less than 10% of RAM available	5 minutes

DeviceNetworkPingTime	Ping time is greater than 1000 ms for two minutes	2 minutes
DeviceStorageSD1AvailableBytes	Less than 10% of Primary SD card free space is available	10 minutes
DeviceEnvRelativeHumidity	Relative humidity is greater than 90%.	10 minutes
DeviceNtpRmsOffset	Value greater than .05 seconds	1 minute
DeviceSystemIs12vGood	Video power status good/bad	n/a
DeviceSystemIsBluFault	Backlight has a problem	n/a
Device Enclosure Air Temperature (PRT)	Enclosure air temperature from PRT is: — less than 32°F/0°C OR — greater than 140°F/60°C	30 minutes
DeviceEnclosureAirHumidity (PRT)	Enclosure air humidity from PRT is: — less than 10% OR — greater than 90%	60 minutes
Device5vMainVoltage	Voltage is less than 4.75 V or greater than 5.25 V $$	10 minutes
Device5vMainCurrent	Current is less than 0.5 A or greater than 2.4 A	10 minutes
Device5vMainPower	Power is less than 2.5 W or greater than 12 W $$	10 minutes
Device12vMainVoltage	Voltage is less than 11.4 V or greater than 12.6 V $$	10 minutes
Device12vMainCurrent	Current is less than 0.1 A or greater than 2.4 A	10 minutes
Device12vMainPower	Power is less than 1.2 W or greater than 28.8 W	10 minutes
Device24vInputVoltage	Voltage is less than 22.8 V or greater than 25.2 V $$	10 minutes
Device24vInputCurrent	Current is less than 0.4 A or greater than 12.5 A	10 minutes
Device24vInputPower	Power is less than 12 W or greater than 300 W $$	10 minutes
Device 24 vPsuOutput Voltage	Voltage is less than 22.8 V or greater than 25.2 V	10 minutes
Device 24 v PsuOutput Current	Current is less than 2 A	10 minutes
Device 24 v PsuOutput Power	Power is less than 50 W or greater than 590 W	10 minutes
DeviceAmbientAirTemperature (offboard sensor)	Ambient air temperature from offboard sensor is: – less than 32°F/0°C OR – greater than 122°F/50°C	10 minutes
DeviceEnclosureAirTemperature (offboard sensor)	 Enclosure air temperature from offboard sensor is: less than 32°F/0°C OR greater than 140°F/60°C Alert will be triggered by these values from either the Enclosure AirTemp (Bottom) or Enclosure AirTemp (Top) metric 	10 minutes
ALERTS NOT CURRENTLY IN U	SE	
Device3v3AuxiliaryVoltage	Voltage is less than 3.1 V or greater than $3.5V$	10 minutes
Device 3v3 Auxiliary Current	Current is greater than 2 A	10 minutes
Device3v3AuxiliaryPower	Power is greater than 6.6 W	10 minutes
Device5vAuxiliaryVoltage	Voltage is less than 4.75 V or greater than 5.25 V $$	10 minutes
Device5vAuxiliaryCurrent	Current is greater than 2.4 A	10 minutes
Device5vAuxiliaryPower	Power is greater than 12 W	10 minutes

Device12vAuxiliaryVoltage	Voltage is less than 11.4 V or greater than 12.6 V	10 minutes
Device12vAuxiliaryCurrent	Current is greater than 2.4 A	10 minutes
Device12vAuxiliaryPower	Power is greater than 28.8 W	10 minutes
DeviceNoPlaybackError	Scheduled content was not displayed	1 minute
DeviceHotspot1Temperature	Primary hotspot temperature is: — less than -4°F/-20°C OR — greater than 176°F/80°C	10 minutes
DeviceHotspot2Temperature	Primary hotspot temperature is: – less than -4°F/-20°C OR – greater than 176°F/80°C	10 minutes
DeviceHotspot3Temperature	Primary hotspot temperature is: — less than -4°F/-20°C OR — greater than 176°F/80°C	10 minutes

Snoozed Alerts (Legacy Alerts)

The alerts found in the Legacy Alerts section will be removed in future releases.

NOTE: Active Legacy Alerts will NOT be included in the active alert count found on Basic Monitoring area on the Liveboard Basic Monitoring Drawer or on the Alerts Tab count.

- Triggered Legacy Alerts are processed by the Tech Ops Portal and critical alerts are passed to Pager Duty service which then notifies Live Ops personnel.
- For all legacy alert categories except PRESENCE, alerts will only be triggered and passed to Pager Duty if there
 have been no previous alerts in the same category within the past 6 hours for a given liveboard.
- Alerts on Alerts History (legacy) list will expire 7 days from the first occurrence.
- Snoozed legacy alerts are not passed to Pager Duty.

Alert Category Alert Trigger Conditions Cpu Load CPU load is greater than 0.95 Cpu Temperature Liveboard CPU temperature is greater than 75°F/24°C Crash Any crash on the liveboard **Disk IO Error** SD card (liveboard storage) corruption has been detected **Disk Primarv** Primary SD card free space is less than 100MB **Disk Secondary** Secondary SD card free space is less than 100MB Failed Download A liveboard download was not completed, (either cancelled or cannot complete due to network conditions). Heap Heap is less than 38.4MB (20% max heap) Layout Error Problem with an object on a layout (possibly a datasource connected to an object) Presence Either of the following conditions: Liveboard goes offline for more than three minutes Liveboard goes offline more than three times in three minutes There's less than 500MB of RAM available Ram **Schedule Generation Failed** N/A Show Ad Failed Scheduled content is not shown

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Table: Legacy Alert Categories

Snoozing an Alert (legacy)

1. On the dashboard, click LIVEBOARDS > [LIVEBOARD] > ALERTS tab.

Snooze Settings (legacy)			
O Create Snooze			* Remove All
Category	End	Status	Actions
cpu_load	2017/8/14, 17:38	Active	× Remove

- 2. Click Create Snooze (below Snooze Settings).
- 3. Select an alert category type and choose the length of time to snooze, before the alert will be displayed.

Create New Snooze	×
I want to snooze All for: 5 minutes	‡ alerts
	Cancel Create

4. Click Create.

Removing Snoozed Alerts

To remove the snooze on an alert:

Click Remove or Remove All.

Viewing Current Liveboard Content (Screencapture)

Selecting Screencapture tab shows the current content of the liveboard (only if it's online).

NOTE: This is not a live feed of what is happening onscreen. There is a delay of approximately 10-15 seconds. The screen will go black between updates.





Viewing Liveboard Schedule

- On the dashboard, click LIVEBOARDS > [LIVEBOARD] > SCHEDULE.

Liveboard Device Name: AaronPortrait Organization: Aaron ID: 49 Serial Number: DPC-100CA1-150410025		CONNECTIVITY	NETWORK QUALITY	PLAYBACK REPORTS PINGED
XMPP Status: {"current":("id":"597e73aba6f4d260	i55cf2a26","type":"ad"}}	Online Screencapture Pro	Weak	Unresponsive No
	in bownoads content command to		one a Settings - About Dev	
Resume Schedule			« < 2017/7/S	30 → » 1 Day View 7 Day View
0:00 1:00 2:00 3:00 4:00 5:00	6:00 7:00 8:00 9:00 10:00	11:00 12:00 13:00 14:00	15:00 16:00 17:00 18	:00 19:00 20:00 21:00 22:00 23:0
1	0.00-00.00.00			
Legend: 🔲 Event 🔲 Playlist Event 🔲 Event	Tag Mismatch 🔲 Domination Event 🔲	Critical Alert Event		
ast 5 Playbacks				
Playback ID	Namo Play!	rack Type	Last Played At (Last playback end time)	
5968bc5d243a1c15b9d3a84c	la	ayout	2017/07/	30, 21:05:30
5968bc5d243a1c15b9d3a84c	la	ayout	2017/07/	30, 21:05:40
59686=53249%1=156939694=	la	ayout	2017/07/30, 21:05:10	
59686c5d249a1c15b9d9a84c	i la	ayout	2017/07/30, 21:05:20	
59686c56243a1c1569d3a84c	la la	ayout	2017/07/30, 21:04:50	
chedule Deliveries				
Schedule ID	Status	Last Deli	very Attempt	Updated At
597e73aba684d26055cd2a2A	delivered	2017/	7/30, 18:00	2017/7/30, 18:00
597d2228d#184a5d9f353a22	delivered	2017/	7/29, 18:00	2017/7/29, 18:00
anger Zone				
A CONTRACTOR OF THE OWNER OF THE OWNER				

Schedule Tab Tasks	Information
Viewing Scheduled Events	 Events are shown by slots in a 24 hour period. Click the arrows on the date rectangle to move forward or backwards by a day Click this icon on an event to launch the event's details page
Resuming the Schedule	 The Resume Schedule command can be used to resume playing scheduled content on this liveboard in situations when: an application has been directly played a liveboard has been cleared the PLAY command (from pop-out panel or Command Terminal) has been used to play alternate content)
Removing All Manually Scheduled Events	Click Remove All Manually Scheduled Events to remove all manually-scheduled events from this liveboard. To remove dynamically-scheduled events, edit the Rule Builder variables to no longer include this liveboard, or delete the event altogether from the event details page.
Viewing Playback and Deliveries	The last five playbacks are shown, a well as recent schedule deliveries. This information is also shown on the LIVEBOARDS > [LIVEBOARD] > Advanced Monitoring > Playbacks.
Viewing WiFi Data

THe WiFi tab gives detailed information about liveboard connectivity.

- On the dashboard, click LIVEBOARDS > [LIVEBOARD] > WiFi.

Device Name: AaronPortrait Organization: Aaron ID: 49 Serial Number: DPC-100CA1 XMPP Status: ["current":["id"	-150410025 :*597e73aba6f4d26055i	:f2a26',"type":"ad"]]	CONN On	ECTIVITY NETWO	ORK QUALITY	PLAYBACK REPORTS Unresponsive	PINGED No
chedule Advanced Monitor	ring Alerts 1 Wifi	Downloads Content	Command Termina	Screencapture Prof	file & Settings A	bout Device	
Turn On AP Mode							
Current Network							
5513	Videri						
i P Address	10.1.0.248						
UnitSpeed	13Mbps						
Signal Strength	-	-48 dBm					
All Networks							
SSID		Channel #	Security	Signal Strength	Options		
Videri		Channel #11	₽ PSR	-48 dBm	C	Disable Forget	
Videri		Channel #6	A PSK	-50 dBm	1	Disable Forget	
		Channel #5	@ PSk	-5B dBm	Connect	Configure	
		Channel #11	@PSK	-49 dBm	Connect	Configure	

Viewing Downloads

The Downloads tab will show both active downloads and the most recent downloads.

- On the dashboard, click LIVEBOARDS > [LIVEBOARD] > About Device.

Device Name: AaronPortrait Organization: Aaron D: 49 Ferial Number: DPC: 100CA1-15041 (MPP Status: ["current":{"Id":"597e	0025 73aba6f4d26055c	{2a26","type":"ad"}]		CONNECTIVITY Online	NETWORK QU Weak	JALITY PLAYBA	ACK REPORTS	PINGED No
chedule Advanced Monitoring	Alerts Wifi	Downloads 10	Content	Command Terminal	Screencapture	Profile & Settings	About Device	
Active Downloads								
Name			Local File	Path	Pri	ogresi	1	ire
2843cff2df67b498cfe4584099af	af5c.apk				0		ġ	/-1
1c453d3179f3b989d514e78678	6c8d94.jpg				0.00	1.1.1	0	/-1
4e4619ada6f3701edfa59d37d9e	8fab5-8.mp4						0	/-1
b46c8466d089054057605634b5	9a2fda.jpg					6 (F 10)	0	/-1
88eda3e350c72be12018cd3f39b	61a4f-67.mp4				(49)		49035836	/ 349269210
ee8575d4e0b3939ded8b08bcc4	78812d-15.mp4				6.9	6.8.9	Ó	/-1
ə0164df2918bd91963087c49dfa	3e3bf.mp4				6.76	6.2.6	0	/-1
eadfca0f699febd609d8d8c74ee2	207d.mp4					1.2.0	0	/-1
89fc20e7ecac88bcdf0b93b5923	5f5eb.apk				0.00		0	/-1
a6fe30045c7f931b81a3e2580b2	1ea44.mp4				0.00	1.1.2	0	/-1
0 Recently Completed Dov	wnloads							
File								
/storage/emulated/0/icanvas/web	Ad/5995b996-23	Ob3c.zlp						



Viewing/Deleting Local Content

On the dashboard, click LIVEBOARDS > [LIVEBOARD] > CONTENT.

The **Content** tab is where you can view and delete the contents of the local storage card.

NOTE: Deleting assets from the **Content** tab/SD card only deletes local assets. Assets remain in the cloud, unless they are deleted from the **Assets** tab for a project.

Device N Organiz ID: 49 Serial N XMPP S {"id":"55	Name: AaronPortrait ation: Aaron umber: DPC-100CA1 tatus: {"current": ?7e73aba6f4d26055	: L-1504 cf2a26	1002 ""typ	5 e":"ad	«]}			Y NETWOR Weak	K QUALITY	PLAY	BACK REPORT	rs Pinged No
	Advanced Monitoring	Alerts	a	Wif	Downloads	Content	~	1.	Constanting		C Fattland	About Device
Schedule	Advanced Monitoring				Downloads	Contestie	u	ommand terminal	screencapture	Profil	e a setungs	About Device
Constant Schedule	Advanced Monitoring	÷		vebAd	Commondes	Contain	•	C schedules	Screencapture	Proh	C2f6a6	1be10d3e634500
⊡sd1	Advanced Monitoring			vebAd pks		Contain	•	C schedules	Screencapture	Pron	C2f6a6	1be10d3e634500 Bdde30bca80b35b
Casd1				vebAd pks)))	schedules assets 595a33f3-4	Screencapture 8b9502	Pron.	2 c2f6a6 2 c2f6a6 2 047368 2 3af052	1be10d3e6345000 8dde30bca80b35b 19fdde75b03354c

Content Tab Tasks	Directions
Deleting Files from the Local Storage Card	WARNING : Deleting assets from the SD card can lead to undesired behavior with the hardware and software.
	To delete content from local storage:
	1. Click the main folder, and keep drilling down until you find the file to delete.
	2. Click on it, then click Delete .
	3. Click OK from the confirmation dialog.



Viewing About Device (Firmware & Applications)

- On the dashboard, click LIVEBOARDS > [LIVEBOARD] > About Device.

Applications that appear on this tab have been uploaded through PROJECTS to the appropriate project. After an application is scheduled, it will be downloaded and installed locally as needed, and will appear on the "All Installed Packages" list.

Device Name: B Organization: Vi ID: 71 Serial Number: I XMPP Status: ("c ("id":"597f56e2f chedule Advance	en desk ideri DPC-110CA2-1607: current": 87fd1f5976b7f65c" xd Monitoring Alerts	10583						
Serial Number: L Serial Number: L XMPP Status: {"c "id":"597f56e28 hedule Advance	DPC-110CA2-1607 current": B7fd1f5976b7f65c" d Monitoring Alerts	10583						
XMPP Status: {"cd ("id":"597f56e2f hedule Advance irmware Inform	current": 87fd1f5976b7f65c" d Monitoring Alerts		CONNECTIVITY	NETWORK QUALITY	PLAYBA	CK REPORTS	PINGE	0
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	Part Number	VVIS.HDMI						
	Hardware Info	DPC-110Rev01						
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Applications Tab Tasks	Information
Uploading Applications	To upload applications, see the Chapter, Creating Signage.
Playing Applications	 WARNING: When you play an application from this area, it will override any content playing on the liveboard. Click the green play triangle on the row of the application to play. It will continue playing until you: Assign another application to play Schedule some new content Run the CLEAR command (from Command Terminal or pop out panel) Click RESUME SCHEDULE on the LIVEBOARDS > [LIVEBOARD] > SCHEDULE tab
Deleting Applications	 WARNING: DO NOT DELETE iCANVASPLAYER, ADSYNC, or SUPERUSERSERVICE APPLICATIONS. These are the "core" applications of the liveboard. Click the trash can icon on the row of the application to delete.
Uploading Firmware	WARNING: UPLOADING FIRMWARE SHOULD ONLY BE PERFORMED BY QUALIFIED ADMIN
Installing Firmware	WARNING: INSTALLING FIRMWARE SHOULD ONLY BE PERFORMED BY QUALIFIED ADMIN



TECHNICAL OPERATIONS PORTAL USER GUIDE

DATA SOURCES

CHAPTER



Datasources provide input for dynamic event scheduling using Rule Builder and are also used in regular expression logic in the Creative Studio to change content in layouts.

Version 1.7 Datasource Improvements

We've made several improvents to make datasources more powerful and easier to use:

- Datasources are now independent from projects (but tied to organizations). Click DATASOURCES on the dashboard.
- Datasource options have now been expanded, with XML, HTML and TXT options added to existing RSS and CSV datasources.
- Sanitizers and formatters of several types are now available directly on the datasource details page. Datasource sanitizers allow you to select content from the datasource feed through an XPath selector, apply filtrations (by numerical or alphabetical value, or regular expressions) and apply a formatting method (Replace, Concatenate, SubString, Insert, ToLower and ToUpper).
- When datasources are used in the new Rule Builder functionality, the datasource detail page will show which event(s) the datasource has been used in (and provide a quick link to it).

Version 1.7 Upgrade Note

Due to the extensive improvements performed on the datasource service, all datasource references in layouts will need to be recreated after 1.7 deployment or they will not function.

Datasource Types

There are several types of data sources that can be used, both dynamic (RSS/XML/HTML feed) and static (CSV, TXT). You can also create a Dead Drop (linked to an FTP site).

Adding an RSS/XML/HTML Datasource

- 1. Click dashboard > DATA SOURCES.
- 2. Click Generate Datasource.
- 3. Enter name.
- 4. Enter feed URL.
- 5. Ignore **Special Handling Logic** (it's proprietary backend code).
- 6. In **Update Interval**, enter the update interval in seconds. Default is 300 (five minutes). The datasource is created to start getting updates immediately.
- 7. In Connectivity Hysteresis, enter a value greater than the Update Interval.
- 8. Click Save.



Datasources Dead Drops								
DATA SOURCE GENERA	TION							
	AME CA	Top Stories						
	uat http	://rss.cbc.ca/line	up/topstories.xm					
MARET	RSS	XML CSV	HTML T	хт				
SPECIALHANDLING	None			*				
LIBOATE INTERVAL (BEDD)	(CIS) 300							
CONNECTIVITY HYSTER	360	0						
(SECO)	IDS)							
		Ca	ncel 📳	Save				
Generate Datasource					Q			
Showing 3 data sources of 3								
Name * Tags	Last Error Time 🜲	Last Error Message 🖨	tast Update	Next Update	# sanitízers	Status	Actions	EDI

Field	Description
Name	Datasource name
URL	URL of RSS, XML or HTML datasource
MIME TYPE	Datasource type
Special Handling Logic	Emergency Messaging options
UPDATE INTERVAL (SECONDS)	Time after which the datasource will update. Default is 300 (five minutes). The RSS Data Source is created to start getting updates immediately.
CONNECTIVITY HYSTERESIS (SECONDS)	Time period after which Tech Ops Portal will assume that the datasource has gone stale. NOTE: This value should be greater than the Update Interval value.
After saving, more properties app	bear
Status	Datasource status (active/inactive)
URL/Source	Datasource URL
File	JSON File URL (with Launch icon)
Enable Updates	ON/OFF slider

Getting familiar with RSS Fields

Depending on how you will be using the RSS feed in the future, it's helpful to take a look at the feed and see what headers it contains. Every RSS feed is different, but most will have these basic headers:

- Name: Name of the RSS Feed
- Description: Description of RSS Feed
- Title: Entry title
- Summary: Short summary of entry (often similar to title)

View the content of an RSS feed:

- 1. Click dashboard > DATA SOURCES.
- 2. Click the Data Source.
- 3. Click the Launch icon next to the FILE field. A tab will open with sample content from the RSS feed.

Here's an example of an RSS feed from ESPN of Top News Stories.

This feed is pretty simple: name, description of the feed, then entries composed of title, summary and URL information.

{"type":"application/rss+xml","name":"ESPN Top News Feed","data":{"description":"Latest TOP news from ESPN.com","etag":null,"feed_url":"http://sports.espn.go.com/espn/rss/news","last_modified":"2015-06-18T19:36:50.000Z","title":"ESPN.com - TOP","url":"http://espn.go.com","entries":[{"title":"Sources: Hawks to buy out Ferry, promote coach","summary":"Sources: Hawks to buy out Ferry, promote coach","url":"http://espn.go.com/nba/story/_/ id/13106051/atlanta-hawks-promote-mike-budenholzer-team-president-leading-departure-gm-danny-ferry","entry_ id":"13106051"},{"title":"Dez makes surprise visit to Cowboys practice","summary":"Dez makes surprise visit to Cowboys practice","url":"http://espn.go.com/dallas/nfl/story/_/id/13106765/dez-bryant-makes-surprise-visit-dallas-cowboyspractice","entry_id":"13106765"},{"title":"Spurs' Duncan: \$20M loss won't influence choice","summary":"Spurs' Duncan: \$20M loss won't influence choice","url":"http://espn.go.com/nba/story/_/id/13105201/tim-duncan-san-antonio-spursalleges-lost-more-20-million-financial-adviser","entry_id":"13105201"},{"title":"Payton lauds first female official: 'She's ready'","summary":"Payton lauds first female official: 'She's ready'","url":"http://espn.go.com/nfl/story/_/id/13107668/ sean-payton-new-orleans-saints-endorses-sarah-thomas-first-female-official-nfl","entry_id":"13107668"},{"title":"De La Hoya: Won't unretire to fight Mayweather","summary":"De La Hoya: Won't unretire to fight Mayweather","url":"http://espn. go.com/boxing/story/_/id/13105601/oscar-de-la-hoya-not-interested-floyd-mayweather-rematch"."entry_id":"13105601"}

Keep these fields in mind when you go to the section, "Connecting a data source to an element."

Adding a Static Datasource (CSV, TXT)

CSV or TXT files are considered "static" in that they require manual updating in the Tech Ops Portal. You might use a CSV for a datasource when you have information that will be updated periodically, such as the prices on a menuboard. It is also helpful to define a CSV datasource to configure when offline content will be displayed.

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To upload a CSV/TXT file as a data source:

- 1. Go to **dashboard > DATA SOURCES.**
- 2. Click Generate Datasource.
- 3. Drag the CSV/TXT file onto the space. The upload page appears.

Conservation II	
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eader Row (A	11)
WeatherD	S2.csv text/csv
WeatherD\$2	0
37 bytes	
WeatherDS2	

- 4. Rename the file if desired.
- 5. **OPTIONAL**: If using a CSV, if you check "**Use Header Row**," the column headers will be displayed in the Tech Ops Portal interface when you are working with the data source.
- 6. Click Start. The file is uploaded, and appears in the list at the bottom of the Datasources overview page.
- 7. Click on the link to see the datasource details.

Data Sources		
Datasources Dead Drops		
D Created 2017/5/10, 12:12	O Last Feed Update	O Next Feed Update 12:12:03
Datasource Properties		
Status	Active	
Name	WeatherDS2CLJ	
Tags		
Source	URL	
Special Handling Logic	None	\$
File	https://videri-dev-library-datasources.s3.amazonaw	.com/dev/datasources/5913
Enable Updates	On 🗾	
Update Interval	300	seconda
Connectivity Hysteresis	3600	seconda

Updating the CSV or TXT File in a Data Source

- 1. Update the file as needed. **NOTE**: Ensure it has the exact same filename as the one currently in the Datasource.
- 2. Go to dashboard > DATASOURCES.
- 3. Drag the updated file onto the top of the page. The upload asset overlay appears.
- 4. Click **Start**. Although you will not get a confirmation, the file will be updated. To check, you can click on the Data Source (from the Datasource Overview page), then click the launch icon next to **File**. A new tab will open showing the contents of the file.

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File https://videri-dev-library-datasources.s3.amazonaws.com/dev/datasources/5913

Editing/Deleting an RSS/XML/HTML Datasource

- On the **Data Sources** overview page, click the row of the datasource to edit.

Task	Directions
Assign Tags	NOTE: Admin users can create tags here. For more information, see the chapter, Tag Management.
	1. Click in the Tags field, and start typing. As you type, a list will auto-complete with matching tags.
	2. Select tag to use. Repeat to add more tags.
	3. Click Save.
Disable Datasource	To disable the datasource, slide the Enable Updates slider to the OFF position, then click Save .
View Source File	In the File field, click the Launch icon to open a browser window with the raw code. NOTE : We recommend you view the JSON code using a formatter (such as Google Chrome's JSON Formatter extension).
View Raw Data	Under the Data Sanitization header, view data in the RAW DATA window.
Delete Datasource	 Check that datasource is not in use (look under <i>Usage</i> heading). Click Delete then OK in confirmation dialog.



Created 017/5/12, 16:39	◎ Last Feed Update 16/45/51	O Next Fee 16:50:51	ed Update
atasource Properties			
	Arthur		
Status	Active		
Name	CA Top Stories		
Tags			
Source	http://rss.cbc.ca/lineup/topstories.xml		
Special Handling Logic	None	\$	
File	https://videri-dev-library-datasources.s3.amazon	aws.com/dev/datasources/!	C'
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Enable Updates			
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Connectivity Hysteresis	3600	seconds	
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Adding an FTP Site Data Source (Dead Drop)

Use an FTP as a data source to easily update an image on a layout, whenever the image in the FTP directory changes.

To configure an FTP directory as a data source:

- 1. Go to **dashboard > DATASOURCES.**
- 2. Click Dead Drops tab.
- 3. Click Add Dead Drop.



tasources Dead Drops				
ADD A DEAD DROP				
NAME	Name			
HOST	Host			
USER	User			
DIRECTORY	Directory			
SPECIALHANDLINGLOGIC	None	\$		
UPDATEINTERVAL	Update Interval	SECONDS		
CONNETIVITY HYSTERESIS	Connectivity Hysteresis	SECONDS		
PATTERN	•			
PASSWORD	Password			
AVE & DELETE				

- 4. Enter the information about your FTP directory in the fields.
- 5. Click Save.

Table: Dead Drop Fields

Field	Description
Name	Dead Drop name
Host	FTP Host URL
User	Username for host
Directory	Path to FTP directory
Special Handling Logic	Emergency Messaging options
Update Interval (seconds)	Time (in seconds) after which the Tech Ops Portal will check for updated content in the FTP folder.
Connectivity Hysteresis	Time period after which Tech Ops Portal will assume that the datasource has gone stale.
Pattern	File type allowed (within permitted image types). For example, *.PNG.
Password	Host password
After saving, more propertie	es appear
Tags	Assigned tags
Last Update	Time/date of last update
Last Message	Last success or failure message
Protocol	ftp
RSS Feed	N/A
Artefacts Count	Dead Drop asset count

Datasource Sanitization

You can define one or more data sanitizers for each datasource.

Defining a Data Sanitizer

- 1. Go to dashboard > DATA SOURCES and click on a datasource to open its details page.
- 2. Click Add Sanitizer.

Data Sou	urce Sanitization		1.4
Order Sele	ector		O Add Sanitizer
1 =	■ ✓ New Sanitizer	۵.	
	Sanitizer Name		
	XPath Selector		
	<i>r</i>		
	Suggestions		
	+ bxt		
	Filter		
	select filter method	\$	
	Formatter		
	select formatting method	*	
Save & Del	lete		
		× Delete 🖺 Save As	🖹 Save

- 3. Use the **XPath Selector** field to drill down to the path expressions to extract. The *Suggestions* area will display the best choices.
- 4. Select Filter and Formatting options, and click Save.

Table: Filter and Formatting Options

Field	Options	Description
Filter		
	Select numerical values	
	Select alphanumeric values	
	Select based on regular expression de	efined
Formatter	~	

Replace Must define search value and replace value	 Returns a copy of a string with the all occurrences of pattern substituted for the second argument. The pattern is typically a Regexp; if given as a String, any regular expression metacharacters it contains will be interpreted literally, e.g. '\d' will match a backlash followed by 'd', instead of a digit. pattern: If replacement is a String it will be substituted for the matched text. It may contain back-references to the pattern's capture groups of the form \\d, where d is a group number, or \\k<n>, where n is a group name. If it is a double-quoted string, both back-references must be preceded by an additional backslash. However, within replacement the special match variables, such as \$&, will not refer to the current match.</n> replacement: Value to replace with.
Concat Must define text to append	Concatenates the given object to give selector. value: Value concatenate.
Substring	 Returns a substring containing length characters starting at the index. If passed a range, its beginning and end are interpreted as offsets delimiting the substring to be returned. Start: Beginning of the sub string. Length: Number of character to extract.
Insert	Returns a string where insert value is appended at that index given by start. – Index: Index to insert at. – Text: String to insert.
ToLower	Returns a copy of a string with all uppercase letters replaced with their lowercase counterparts. The operation is locale insensitive—only characters "a" to "z" are affected. NOTE : Case replacement is effective only in ASCII region.
ToUpper	Returns a copy of a string with all lowercase letters replaced with their uppercase counterparts. The operation is locale insensitive—only characters "a" to "z" are affected. NOTE : Case replacement is effective only in ASCII region.

Viewing Sanitized Data

When a data sanitizer has been defined for a datasource, you can view the sanitized data in two places:

- From datasource overview page (click EYE icon [©] on row of datasource)
- From datasource details page (shows RAW DATA vs. SANITIZED DATA at bottom of window).

Raw Data	Sanitized Data
<pre>1 <?xml version="1.0" encoding="UTF-8"?> 2 <rss version="2.0"> 3 <channel> 4 <title> 5 <![CDATA[CBC Top Stories News]]> 5 </title> 7 <link/>http://www.cbc.ca/news/?cmp=rss 8 <description> 8 <![CDATA[9 CDATA[9 CDATA[9 CDATA[9 </description> 9 </desc</th><th><pre><?xml version="1.0" encoding="UTF=8"?> <rss version="2.0"> </time> </time></th></tr><tr><td><pre><language>en-ca</language> <language>en-ca</language> <lastBuildDate>Tue, 18 Apr 2017 21:48:21 EDT</lastBuildDate> <copyright> <![CDATA[Copyright: (C) Canadian Broadcasting Corporation, http://v </copyright> <docs> <![CDATA[http://www.cbc.ca/rss/]]> <image/> <title>CBC.ca</title> <ur>></ur><td><pre><language>en-ca</language> <lastbuilddate>Tue, 18 Apr 2017 21:48:21 EDT</lastbuilddate> copyright> <![CDATA[Copyright: (C) Canadian Broadcasting Corporation, http:/ </copyright> </copyright> </copyright> </copyright> </copyright> </docs> <![CDATA[http://www.cbc.ca/rss/]]> <title>CBC.ca</title> <</pre></td></description></channel></rss></pre>	<pre><language>en-ca</language> <lastbuilddate>Tue, 18 Apr 2017 21:48:21 EDT</lastbuilddate> copyright> <![CDATA[Copyright: (C) Canadian Broadcasting Corporation, http:/ </copyright> </copyright> </copyright> </copyright> </copyright> </docs> <![CDATA[http://www.cbc.ca/rss/]]> <title>CBC.ca</title> <</pre>

NOTE: This datasource sanitization comparison window will only appear for datasources ingested as of version 1.7.

Viewing Datasource Usage

The Usage area on the datasource details page shows a list of the events in which the datasource is used in a rule. Click the Launch icon \square to jump to the event.

his datasource is curre		
Where	Name	
Event	Monkey	C [*]
Event	Monkey	C
Event	Penguin	C.
Event	Penguin	C [*]
Event	Shark	C.
Event	Butterfly	C.
Event	Rays	C.
Event	Rays	12

CREATING SIGNAGE

CHAPTER



Signage Terminology

- Organization: Organizations contain Projects and have liveboards assigned to them.
- Projects: Projects contain assets, layouts, playlists, schedules and event groups and are the access point to Creative Studio functionality.
- Assets: Assets are images, videos, applications.
- **Containers**: Containers are layouts, playlists, schedules and event groups.
- Layouts: Layouts are created in Creative Studio, and are combinations of assets, text, or other elements.
- Creative Studio: Creative Studio is a web-based application (accessible through Technical Operations Portal) for creating content-rich digital signage layouts.

Creating Signage Process

Here are the basic steps to creating signage in Technical Operations Portal/Creative Studio:

- 1. Create Projects within the Organization.
- 2. Add Assets to the Project.
- 3. Create a layout and launch Creative Studio.
- 4. Design the layout, adding assets and connecting data sources to assets if desired.

After uploading assets and designing layouts, read the chapter, **Scheduling** to learn how to schedule assets and layouts.

Projects

Viewing Projects Overview Page

To see projects:

- 1. Pull down the **Organization Context** menu and select an Organization.
- 2. Click **PROJECTS**. All projects for that organization are shown.



Ops//Portal	Aaron's Pro	ojects				
OUTFRONT	Recently Accessed	d Burg			- 15	
rganization Context			100		J. Contraction	-
Aaron \$	NO.OF THE MOINT AND					
evices					-	
LIVEBOARDS	delever Arguer in Date offer Sederer Arguer of the Andrew Sederer and Andrew Sederer and Andrew Sederer and Andrew Sederer Sed	a contraction of the second se			Re.	
nage	Demo	12 Kasey	Portrait	109 Landscape	83 Sliced	La 16
PROJECTS	O Create			0		
DATA SOURCES	O Create	5		Q		
PROJECTS DATA SOURCES BROWSE CONTENT	O Create Showing 5 projects of Name +	5 Assets 🗢	Created Date 🛳	Q.	Artions	EDIT
PROJECTS DATA SOURCES BROWSE CONTENT TAG MANAGEMENT	O Create Showing 5 projects of Name ▲	5 Assets \$	Created Date \$	Q Last Update Date 🖨	Actions	EDIT
PROJECTS DATA SOURCES BROWSE CONTENT TAG MANAGEMENT reduling	O Create Showing 5 projects of Name - Demo	/5 Assets ≎ 12	Created Date \$ 2017/4/12,04:47	Q Last Update Date \$ 2017/4/12, 12:24	Actions	EDIT
PROJECTS DATA SOURCES BROWSE CONTENT TAG MANAGEMENT reduling EVENTS	O Create Showing 5 projects of Name + Demo Kasey	Assets ≄ 12 0	Created Date \$ 2017/4/12,04:47 2017/2/20,07:39	Q Last Update Date \$ 2017/4/12, 12:24 2017/2/20, 07:39	Actions X	EDIT
PROJECTS DATA SOURCES BROWSE CONTENT AG MANAGEMENT Induling EVENTS EVENTS	O Create Showing 5 projects of Name * Demo Kasey Landscape	Assets \$ 12 0 83	Created Date \$ 2017/4/12,04:47 2017/2/20,07:39 2016/8/26,05:46	Q Last Update Date ≎ 2017/4/12, 12:24 2017/2/20, 07:39 2016/8/26, 05:46	Actions X X	EDIT
	Create Showing 5 projects of Name * Demo Kasey Landscape Portrait	5 Assets ¢ 12 0 83 109	Created Date \$ 2017/4/12,04:47 2017/2/20,07:39 2016/8/26,05:46 2016/8/26,05:25	C Last Update Date \$ 2017/4/12, 12:24 2017/2/20, 07:39 2016/8/26, 05:46 2016/10/11, 11:18	Actions X X X	EDIT

Project Icon Information



Filtering Project List

To search for projects by name (filter project list):

- Click inside the magnifying glass field, and start typing. The list of projects will filter as you type.

Creating a Project

To create a project:

- 1. On the dashboard, under **Organization Context**, select an Organization from the drop-down menu.
- 2. On the dashboard, click **PROJECTS**.
- 3. Click Create.

Project Name	×
My Awesome Project	
	Cancel OK

4. Name the project, and click **OK**.



Deleting a Project

Deleting a Project	Information						
Deleting a Project from the Overview Page	 Click PROJECT Find the row Jesse Org's Proj Recently Accessed 	CTS. of the proje ects	ect to delete,	and click the >	K icon (un	der Actions heading).	
	O Create			Q			
	Name Ac	ssets 🖨	Created Date	Last Update Date 💠	Actions		
	ACME 1		2017/3/24, 11:48	2017/3/24, 11:48	×		
	Ilias' project 3		2017/3/21, 14:16	2017/3/21, 14:16	×		
Deleting a Project from the Details Page	1. On the dash! Projects Aaron's Projects Name Organization Save & Delete 2. Click Delete	ects / Sliced Sliced Aaron	PROJECTS	> [PROJECT] > Settir	I gs tab.	

You can delete a project from the overview page or the details page.

Assets

Viewing Assets Overview Page

To view all assets in a project:

- Click PROJECTS > [PROJECT] > Assets tab.
- To filter assets by name (or tags), start typing in the magnifying glass field; list will filter as you type.



Pro	jects								
-	Aaron's Project	s / Demo							
sets	Layouts Events	Schedules Playlists Event	Groups Settings						
						÷		53	
			RAG AND DROP	FILES HERE					
			-11						
			14						
		Peacemended Ne types In	nages (.png), videos (.n	np4) and appl (apk) up to 3	GB in files	Izp			
_		Peadminiended file types: In	n: jes (.png), videos (.n	np4) and appl (upk) up to 3	GB in film	Im		4	
-		Readministed Me types In	na ges (.png), videos (.n	npA) and appl (apk) up to 3	GB In Nes	Im		÷,	37
-		Resonanced Ne types In	nages (.prig), videos (.n	np4) and apps (apk) up to 3	GB in Nica	Im		ļ.	33
a	no 12 assets of 12	Restminished file types: In	nages (.prg), viideos (.e	np4) and apps (apk) up to 3	GB in Mea	In			
Q howi	ng 12 assets of 12 Thumbnail	Destected	mages (.ong), Videos (.o Media Type 🍸	np4) and apps (appk) up to 3	Tags	Actic	ons		EDIT
Q nowi	ng 12 assets of 12 Thumbnail	December of the type: In December of the ty	Media Type 🝸	np4) and anns (apk) up to 3 Created At \$ 2017/04/12, 12:44:04	Tags	Actic	ons	×	EDIT
Q howi	ng 12 assets of 12 Thumbnail	O selected Name A Add some color to your day	Media Type 🝸 Image image	Created At \$ 2017/04/12, 12:44:04 2017/04/13, 05:41:55	Tags	Actic C	ons ②	×××	EDIT
Q howi	ng 12 assets of 12 Thumbnail	D selected Name * Add some color to your day Aquarium Butterfly	Media Type 🝸 Image Image	Created At \$ 2017/04/12, 12:44:04 2017/04/13, 05:41:55 2017/04/13, 05:41:56	Tags	Actic	ons ② ③ ③	×××××	EDIT

Viewing Asset Details

- To view Asset details, click on the row of the desired Asset. The Asset Details page appears.
- Click on any other tab to close the Asset details page.

Showi	ng 12 assets of 12 0 se	lected							
	Thumbnail	Name *	Media Type 🔻	Created At 🖨	Tags	Actio	ons		EDIT
•		Add some color to your day	image	2017/04/12, 12:44:04		¢	0	×	
		Aquarium	Image	2017/04/13,05:41:55		¢	0	×	
Asse	t details		ID:	15045	DUC		3		
	Name	Aquarium			KUD	H,	2		
	Contract ID	Contract ID			HOL	R.	2		
	Tags	Animals > aquarium Animal	s > Audubon Society			2			
	Orientation	portrait	108	0×1920	Anadad vil 12 + haaday d J tischelees	son Aquania te Americas talim time t			

Viewing Asset Impressions

Asset impressions in the Tech Ops Portal are the number of plays of a particular asset.

To view asset impressions:

Click PROJECTS > [PROJECT] > ASSETS tab > on asset row, click the Impressions icon
 .

sets Layouts Events Schedule:	s Playlists Event Groups Settings		
History		Daily Impressions	
From:	То:	Date:	
05/19/2017 12:00 AM	05/26/2017 11:59 PM	05/26/2017 12:00 AM	
		Legend O Liveboard Asset Name	Impressions
	DF	C-100CA2No playbacks	
		C tool available	
	field value	Count	
	DPC-10 DPC-10 OCA2-1	28	

Uploading Assets

Approved Asset Formats

The following asset formats are allowed in the system.

NOTE: If you attempt to upload an unapproved media format, you will see an error.

Table: Approved Asset Formats

Media Type	Approved Formats
Still Images	PNG 24 bit, RGB colorspace Compression enabled
Video	MP4 container format 1080p H.264 Main Profile @30fps, no B-frame, constant bitrate, 10-30 Mbps
Audio	Multi-channel PCM – 48 kHz, 16-bit, stereo (Little Endian) (5.1 stereo if available) AAC 22khz stereo @ 112kbps. NOTE: We do not support pure audio files, only audio within videos.
Applications	Android Application Package (APK)

Table: Transcoded Video Containers and Codecs

NOTE: The following additional formats are supported by the ingestion engine but not recommended. The system will transcode them to the recommended format. Use at your own risk.



Container	Codec	Description
3g2	mpeg	QuickTime/MPEG-4/Motion JPEG 2000 format
3gp	mpeg	QuickTime/MPEG-4/Motion JPEG 2000 format
3gpp	h263	Files with the .3gpp extenstion, differs from .3gp and .3g2
avi	dvsd	AVI format
f4v	h264	Video for Adobe Flash Player
flv	h264	
h264	h264	raw H.264 video format
m4v	h264	raw MPEG-4 video format
mkv	h264	Matroska file format
mov	mpeg	QuickTime/MPEG-4/Motion JPEG 2000 format
mp4	mpeg	QuickTime/MPEG-4/Motion JPEG 2000 format
mpeg	mpeg	MPEG-1 System format
mts	h264	Advanced Video Coding High Definition - Sony/Panasonic HD camcorder format
ogv	theo	Files with the .ogv extension, differ from .ogg
webm	vp8	

To upload single or multiple asset(s):

- 1. On the dashboard, click **PROJECTS > [PROJECT] > ASSETS** tab.
- 2. Drag and drop an asset file(s) onto the Assets tab. The "Drop files here" rectangle appears on the page.

ets	Layouts	Events	Schedules	Playlists	Event Groups	Settings			
0	Cancel	• Uplo	ad All (1a	sset)					
	pitpatlog	02.jpg 35	KB						
C.									
G	pitpatlogo	2							
	pitpatlogo Ø Gancel	2 ① Star	t						
1	pitpatlogo Ø Cancel	2	t						
	pitpatlogo Ø Cancel	2 O Star							
4	© Cancel	2 O Star			17				
a	© Cancel	2 O Star	t		1				

- 3. Change the asset name(s) if desired by typing them in the field(s).
- 4. Click Start or Upload All. The asset appears on the asset list for the project.
- 5. Click any of the **Project** tabs to close the Asset details page.

Copying Assets Between Projects

- 1. Click **PROJECTS > [PROJECT] > ASSETS** tab.
- 2. Find the row of the asset(s) to copy and check the checkbox(es).
- 3. Click Copy.

Choos	se an	Select an org>				\$		
organ	ization	Aaron Devops Jesse Org Videri						
O Sci Showi	hedule Copy	× Delete			Q			
O Sci Showi	hedule Copy ng 2 assets of 2 1 Thumbnall	× Delete selected unselect Name ◆	Media Type 🝸	Created At 🗢	Q. Tags	Actions		EDIT
O Sci Shawi	hedule Copy ng 2 assets of 2 1. Thumbnail	x Delete selected unselect Name * Loop	Media Type 🝸 video	Created At \$ 2017/03/29, 13:27:15	Q Tags	Actions	×	EDIT

- 4. **Choose an Organization** from the dropdown menu and choose a project from the **Choose a Project** drop-down menu.
- 5. Click **Copy to Project**. The assets are copied to the other project.

Deleting an Asset

You can delete an asset from the overview page or the details page.

NOTE: Deleting an Asset from these areas means deleting it from the Cloud, so it cannot be downloaded by liveboards.

Deleting Assets	Information
Deleting Assets Deleting an Asset from the Overview Page	Information 1. PROJECTS > [PROJECT] > ASSETS tab. 2. Find the row of the asset to delete, and click the X icon (under Actions heading). 3. Click OK from the confirmation dialog. Stock Image: 2017/04/12 124404 Stock Image: 2017/04/12 124404 Image: 2017/04/12 124404 Image: 2017/04/12 124404 Image: 2017/04/12 124404 Image: 2017/04/12 124404
	Chrientadon landicane 1700 a K Delete 100 Save

Deleting an Asset from the Asset Details	1.	On the c	dashboard	d, click PROJECTS > [Pl	ROJECT] > Sett	tings tab.			
		Go	Name pitpat Intract ID Contr Tags Intraction Accustr	esp estD dt2x4HD X Delete	Skinter OF	The Shurl 1			
Deleting Multiple Assets	2. 1.	Click D Select th	elete , the ne checkk	n click OK from the cor	nfirmation dialo lete, then click I	g. Delete.			
		© Sched	lule 👒 Taj	nging Copy X Delete				ĵ	
		© Sched Q Showing	lule 💊 Tag 13 àssets of 1 Thumbnail	iging Copy × Delete 3 3 selected unselect Name	Media Type 🔻	Created At \$	III Tags	Actio	ons
		© Sched Q Showing :	lule Tag 13 assets of 1 Thumbnail	Iging Copy × Delete	Media Type 🔻 image	Created At \$ 2017/04/12, 12:44:04	Tags	Actio	ons ②
		© Sched Q Showing :	lule State	iging Copy X Delete 3 3 selected unselect Name Add some color to your day Aquarium	Media Type T image image	Created At \$ 2017/04/12, 12:44:04 2017/04/13, 05:41:55	III Tags	Actio	ons O



Layouts and Creative Studio

The Creative Studio is a web-based application for creating content-rich layouts for digital signage. It is launched from a layout within the Tech Ops Portal.

Launching Creative Studio

- 1. Click **PROJECTS > [PROJECT] > LAYOUTS** tab.
- 2. Click on an existing layout, or click Create button.
- 3. Enter layout name, and click **OK**. A layout icon appears.
- 4. Click the middle of the Layout icon. Creative Studio launches on a new browser tab.

Creative Studio Components



- There are rulers (in pixels) around the layout area
- When you are moving a item around the layout area, there is a soft "snap" to the grid



Left Panel (elements)	Layout Area (middle)	Right Panel (layers and element tabs)
This panel shows all the elements that can be placed on a layout.	This section shows the contents of the layout.	The right panel shows Layers and Layout information tabs.
- Multimedia: images and videos		Layers tab shows:
 Text: styleable text blocks 		 The layered order of the elements on
 Ticker: Scrolling text 		the layout (the first element in the list
 Count Up/Down Timer 		
 Clock: digital clock object 		 The settings for each element on the layout
 Schedule: embeds schedule 		Layout information tab shows:
container into layout		 Name, dimensions and other layout
 Playlist: embeds playlist container into layout 		settings

Creative Studio Menu



Using the Zoom Slider

The Zoom Slider zooms the view in and out of the layout board.

- Drag the slider right to zoom in, and left to zoom out.
- The white dot represents 100% view on the layout.

Defining Background Color

NOTE: Even if you intend the background to ultimately be black, changing the background to a slightly different color helps you to see the layout edges while designing.

To define a background color for the layout:

- 1. On the right panel, click the **Layers** tab.
- 2. Click the **Background** field.
- 3. Enter a hexadecimal value for the background color.
- 4. Click the **Save** icon in menu bar.





Defining Layout Size

The layout size should match the physical size of the liveboard the layout will be displayed on. If the physical panel differs from the size of the layout, the system will align the layout to the top left corner and fill any extra space with black.

Layout Setting	<u>S</u>
Field	Description
Name	Layout Name
Width	Layout Width
Height	Layout Height
Show Rulers	Option to show rulers on layout area
Rulers color	Color picker to choose rulers color
(Rulers) Opacity	Slider to define rulers opacity
Show grid	Checkbox to show grid on layout area
Snaps to grid	Checkbox to turn on option that objects will "snap" to grid when moving them
Snap Toler- ance	How close the object has to be to gridlines to "snap" to it
Width	Grid square width (in pixels)
Height	Grid square height (in pixels)
Grid Color	Color of gridlines
Grid Opacity	Opacity of grid

Ŧ	٠
Layout	
Name	
testing2	
Width	
1080	
Height	
1920	
Rulers	
Show rulers	
Rulers color	
Opacity	
Grid	
Show grid	
Snap to grid	
Snap tolerance	
10	
Width	
40	
Height	
40	
Grid color	
-	
Opacity	
	_

Adding Elements to the Layout

Adding a Multimedia Element (image or video)

To add a multimedia element:

- 1. In the left panel, click on the Multimedia area, and drag a block into the layout area. A generic block appears.
- 2. In the right panel, under the **Multimedia** heading, click the **DATASOURCE** icon (the thing that looks like a cake).

🕞 Multimedia	
src	
Rule (undefined)	

The Source dialog box opens.



- 3. Select **Asset** from the choices on the left side. The assets available in the project are shown. To narrow your options:
 - type in the search field

click the image button to show only images

- click the video button to show only videos
- 4. Click the asset to place on the layout. The asset is placed on the layout and is selected.

NOTE: When a video element is placed, player controls are shown in Creative Studio, but will not be shown when the video is played on the liveboard.

Field	Description	src
Src	Asset content	Rule (undef
Loop	Whether video content will play continuously	loop
Top/Left	Distance in pixels from the top and left borders of the layout	false
Width	Multimedia element width in pixels	Style
Height	Multimedia element height in pixels	
		0
		top
		top 0
		top o width
		top 0 width 1080
		top 0 width 1080 height

Resizing an Image

You can resize an image manually, or by exact measurements.

Resizing an Image Manually

To resize an image or video:

- Ensure the layout is in **Resize Mode** (click Resize icon 1.
- 2. Click on an image/video to select it.



- 3. Pull the handles on top, bottom, left and right to resize the image/video.
- 4. Click Save icon.

Resizing Using Exact Measurements

If you want to be sure to resize the image/video exactly, use the width/height fields.





- 1. With the image/video selected in **Resize** mode, click the Layers tab.
- 2. Click the **Multimedia** layer.



- 3. Calculate the final dimensions of the resized image/video. For example, to make it bigger, multiply both width and height by two, and enter those dimensions in the width/height fields.
- 4. Click the Save icon.

Cropping an Image or Video

You can crop an image or video manually, or by exact measurements.

Cropping an Image or Video Manually

To crop an image or video:

- 1. Switch to Crop Mode (click Crop icon
- 2. Click on an image/video to select it.



3. Pull the handles on top, bottom, left and right to crop the image/video. You'll still see the rest of the image, but won't after you leave Crop Mode.

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- 4. Click **Save** icon.
- 5. Click the **Resize Mode** icon **to** switch back to regular mode.

Cropping Using Exact Measurements

In Crop Mode, you can also crop by exact numbers.

- 1. With the image/video selected in **Crop** mode, click the Layers tab.
- 2. Click the Multimedia section, then scroll down to the Crop section.



- 3. Use the up/down arrows for each side of the image to crop it (positive numbers crop into the image).
- 4. Click the **Save** icon.

NOTE: After cropping using either method, the border/handles on the image stay at the original uncropped size, and can still be used to resize the image.



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Adding a Text Block Element

To add a text block:

- 1. In the left panel, click the Text element and drag it into the layout area. A generic text block appears.
- 2. In the right panel, click on the heading for the **Text** layer.
- 3. Replace the generic text with the desired text.
- 4. Use the other options in the Text settings panel to style the text.

	Description	Text
Field	Description	text
Text	Text block content	Are you a replic
Font Size	Font size (default is 20 pixels)	
Letter spacing	Space between letters (kerning)s	Style
Line height	Space between lines of text (leading)	
Text Align	Text alignment within block (left, center, right)	font size
Font Family	Font	60
Color	Hexadecimal value for text color	letter spacing
Background	Hexadecimal value for text background color (transparent by default)	0 line height
Top/Left	Distance in pixels from the top and left borders of the layout	1.2
		text align
		left
		font family
		Roboto-Regula
		color
		#ffffff
		background
		transparent
		left
		538
		top
		630
		12-39-2



Adding a Count Up/Down Timer

- 1. In the left panel, click on the **Count Up/Down Timer** element and drag it into the layout area. A generic timer block appears.
- 2. In the right panel, use the options to configure the timer.

Field	Description
Field	Description
count both ways	Defines whether a countdown stops at zero (false) or counts the reverse way after reaching zero (true)
format	Default format is H/m/s. Can add/change text in between. Other values are:
	— %Y - year
	— %M - month
	— %W - week
	— %d - day
	— %h - hour
	— %m - minute
	– %s - second
target date	The target date/time for the counter.
	 A target date in the future will have the counter count down to that date.
	 A target date in the past will count up from that time.
font size	Font size for countdown text
letter spacing	Space between letters (kerning)
line height	Space between lines of text (leading)
font family	Countdown text font
color	Hexadecimal value for countdown text color
background	Hexadecimal value for countdown text background color (transparent by default)
top/left	Distance in pixels from the top and left borders of the layout

EXAMPLE: To set a countdown for today:

- 1. In Target Date, enter today's date in the MM/DD/YYYY format.
- 2. Then use the arrow key to move the cursor right to expose the time settings.
- 3. Click on the hour, and either type or use the up/down arrow to change.
- 4. Repeat this for minutes and for AM/PM.

OR

You can click the DOWN arrow to expose the Calendar and pick a date.

CountDown	•
count both ways	
false	000
format	
Y[y] M[m] W[w] d[d] H:mr	
target date	
2017-04-10T13:18:00	
Style	
font size	
60 🕄	
letter spacing	
line height	
1.2	
font family	
Roboto-Regular 🛟	
color	
#ffffff	
background	
transparent	
left	
199 🕄	
top	
864 🕄	



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Adding a Clock Element

1. In the left panel, click on the **Clock** element and drag it into the layout area. A generic clock element appears.

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2. In the right panel, use the options to format the clock.

Field	Description	Clock
format		format
Tormat	text in between. Other values are:	hh:mm:ss A
	– d: day	
	— YYYY: year	Stulo
	— YY: year	Style
	 MM: zero prefixed month 	
		font size
	— M: month	60
	- W: Week	letter spacing
	 h. nour hb: zero prefixed bour 	0
	- H. 24 hour	
	 HH: zero prefixed 24 hour 	line height
	 m: minute 	1.2
	 mm: zero prefixed minute 	font family
	– s: second	Roboto-Regular
	 ss: zero prefixed second 	color
	 DD: day of month 	#ffffff
	 dd: day of week in words (english only) 	
	 Z: time offset from Zulu/UTC 	background
	 ZZ: time offset from Zulu/UTC with no colon 	transparent
font size	Font size for clock text	left
lottox ana sing		161
	Space between letters (kerning)	top
line height	Space between lines of text (leading)	636
font family	Clock text font	
color	Hexadecimal value for clock text color	
background	Hexadecimal value for clock text background color (transparent by default)	
top/left	Distance in pixels from the top and left borders	

Adding a Ticker Element

- 1. In the left panel, click on the **Ticker** block and drag it into the layout area. A generic ticker element appears.
- 2. In the right panel, use the options to configure the ticker.

A ticker element shows scrolling text in a block. The source can be user-entered text, or information from a data source.

Ticker Element	Settings
Field	Description
feed	Source of ticker content (data source, text, rule)
scroll speed	Speed of ticker scrolling
font size	Font size (default is 20 pixels)
letter spacing	Space between letters (kerning)
line height	Space between lines of text (leading)
font family	Ticker text font
color	Hexadecimal value for ticker text color
background	Hexadecimal value for ticker text background color (transparent by default)
top/left	Distance in pixels from the top and left borders of the layout





Adding a Schedule Container Element

NOTE: When you embed a schedule container in a layout, custom duration values will be ignored, and the liveboard's dwell time will be used. Additionally, any event-based rules or schedule info blocks will be ignored. Layout engine rules must be used to apply rules-based functionality in layouts.

To add a schedule container element:

- 1. In the left panel, click on the **Schedule** Element and drag it into the layout area. A black block appears.
- 2. In the right panel, click on the heading for the SCHEDULE layer (to open it), then click on the DATASOURCE icon (the thing that looks like a cake).
- 3. The dialog box opens.



- 4. Click Schedule from the choices on the left side. The schedules available in the current project are shown.
- 5. Click the schedule to embed.
- 6. The schedule is placed and is selected.

Schedule Settings

Playlist settings are for schedule source, schedule object size and placement. You can place manually, or enter specific values here.

Field	Description
schedule	Source of the schedule object
top/left	Distance in pixels from the top and left borders of the layout
width	Width of playlist object in pixels
height	Height of playlist object in pixels





Adding a Playlist Element

NOTE: When you embed a playlist in a layout, custom duration values will be ignored, and the liveboard's dwell time will be used. Additionally, any schedule info blocks will be ignored. Layout engine rules must be used to apply rules-based functionality in layouts.

To add an playlist element:

- 1. In the left panel, click on the **Playlist** Element and drag it into the layout area. A black block appears.
- 2. In the right panel, click on the heading for the PLAYLIST layer.
- 3. In the right panel, under the PLAYLIST heading, click on the DATASOURCE icon (the thing that looks like a cake).
- 4. The dialog box opens.

- 5. Click **Playlist** from the choices on the left side. The playlists available in the current project are shown.
- 6. Click the playlist to embed.
- 7. The playlist is placed and is selected.

Playlist Settings

Playlist settings are for playlist source, playlist object size and placement. You can place manually, or enter specific values here.

Field	Description
playlist	Source of the playlist object
top/left	Distance in pixels from the top and left borders of the layout
width	Width of playlist object in pixels
height	Height of playlist object in pixels





Arranging Elements in Layers

You can move elements forward and backward in layers on the layout.

- To move an element forward: click
- To move an element backward: click
- To move an element to the front; click
- To move an element to the back: click

NOTE: When viewing layers in the right panel, the layer at the top of the list is the one farthest back (Background will always be at the top, and cannot be moved).

Saving a Layout As Another Name (Save As)

To save a layout as another name (Save As):



Click the Save As icon 1.

Enter a new lavout na	
Enter a new layout na	ime
PitPat Spring 2016	(Copy)

2. Name the alternate layout, and click OK.

NOTE: The original layout stays open. The new layout you named is located in the same project folder as the original.

Copying Layouts Between Projects

- Click PROJECTS > [PROJECT] > Layouts tab. 1.
- 2. Find the row of the layout to copy, and click the copy icon


sets Layouts Even	its Schedules Play	lists Event Groups	Settings			
O Copied layouts do no	t retain assets from the	origin layout. Only the t	ase components and	rules are copied over to the new layout.	_	
Comulavou						
сору сауоц						
Choose a project	Globochem Spring	2017			•	
ayout Name	Globochem Dor	mination Copy				
				Cancel Copy to Proje	ct	
O Create	-					
Q						

- 3. Choose a project from the **Choose a Project** drop-down menu.
- 4. Enter a name for the copied Layout in the Layout Name field.
- 5. Click Copy to Project.

WARNING: Only the layout size, base components (text, ticker, etc) and rules will be copied to the new layout. Assets will NOT be copied with the layout.

Connecting Data Sources to Empower Layout Elements

Version 1.7 Migration Warning

All datasource references in layouts will need to be recreated after 1.7 deployment or they will not function. Any datasource references that were not recreated will be displayed as a URL on a layout.

The power in the Creative Studio is connecting layout elements to data sources. Most attributes of an element can be configured dynamically (height, width, position, color, font, etc) based on data source output.

Almost every setting for every element in the Creative Studio can be hooked up to a data source. Some examples of how this ability can be used:

- A menu board design with prices as text elements. The text elements can be connected to cells on a CSV file. So
 when prices are updated, you only need update the CSV file and prices will automatically update.
- A multimedia object attached to an RSS feed that can change based on temperature reported (an ad for hot chocolate when temperature dips below 40 degrees, an ad for iced tea when it goes above 80 degrees).
- A picture of a sun, that can grow larger as the temperature rises (temperature data tied to the height and width values of an image)
- A layout that will change based on an ESPN feed that reports the winner of a game
- An image connected to an FTP directory that will update whenever the contents of that FTP directory is updated

You can connect a datasource to a layout element to change the element as data from the datasource comes in. Or, you can have an element refer to information from a static data source, such as a CSV. There are several parts to set up this process:

- Creating the data source (see the chapter, **Data Sources**).
- Connecting the data source to the element in Creative Studio
- Configuring a rule using the rules engine in Creative Studio to describe the actions to be taken

Connecting a Data Source to an Element

Connecting a Ticker Element to an RSS Feed

- 1. Launch Creative Studio.
- 2. Ensure you have created an RSS Data Source.
- 3. In the left panel, click and drag a Ticker element, into the layout area. A generic block appears.
- 4. In the right panel, under the **Ticker** heading, click on the DATASOURCE icon (looks like a cake). The data source dialog box opens.
- 5. In the left panel, click **Data Source**.
- 6. From **Select Source**, pull down the menu and select the RSS Data Source you created earlier.



In Selector path, the items available in the RSS field are shown.



Click on the orange box items in the Selector Path field to add to the selector to be displayed. As you click on the orange boxes, selected item will turn green, and additional lower level orange items will be displayed. Keep clicking to drill down.

NOTE: Chances are you will start with "entries" as that selector then will open to show "title" and "summary" selectors.



X		Setting field 'src' of	of object 'Multimedia'
	Asset		
9)))	Data Source	Select source	СВС
A	Text	DataSource URL	https://videri-dev-library-datasources.s3.amazonaws.c Londed 13 KB bytes
•	Hule	Selector path	S.entries[0].title entries × [first] × title ×
		Default Value	Default value Default value used while data is loading, or if data could not be loaded.
		Resolved data	Health minister "outraged" by Supreme Court's modest pot ruling
			Set

7. The current contents of the selectors you've chosen will be shown in the **Resolved data** field at the bottom. When you find the data you are looking for, click **Set**, and click X to close the Data Source window. The ticker will show the first entry title, which will be updated according to the polling interval defined in the RSS Data Source.

NOTE: The First 5 selector is not currently functional.

Setting Up Offline Mode Default Content

This section describes how to:

- Define the time period after which a liveboard is considered "offline"
- Configure default content shown when liveboard is offline
- 1. Create an RSS feed/data source with a CSV file that refers to content that you would like to display when a liveboard goes offline.
- 2. In this data source, In the **Connectivity hysteresis (in seconds)** field, enter the number of seconds for the liveboard to be offline before the default content will be shown. The default value is 3600 seconds (one hour).

Data Sources			
Datasources Dead Drops			
O Created 2017/5/10, 12:12	O Last Feed Update	O Next Fee 12:12:03	d Update
Datasource Properties			
Status	Active		
Name	WeatherDS2CLJ		
Tags			
Source	USL		
Special Handling Logic	None	٠	
File	https://videri-dev-library-datasources.s3:amazonaw	s.com/dev/datasources/5913	C.
Enable Updates	On 📄		
Update Interval	300	seconda	
Connectivity Hysteresis	3600	seconda	

NOTE: Make sure that the Connectivity Hysteresis value is HIGHER than the Update Interval value.

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3. Click dashboard > PROJECTS > [Project] > Layouts.

- 4. Click Create to create a new layout.
- 5. Drag a multimedia object onto the layout. In the right panel, under the **Multimedia** heading, click on the DATASOURCE icon (the cake icon).



- 6. The data source dialog box opens.
- 7. In the left panel, click **Rule**.

X	Setting field 'src' of object 'Multimedia'
Asset	x 1 1 AND OR >= > < <= = != primitive ds asset append
Pule	If ⇒ insert item Then ⇒ insert item
	Eise > insert item

8. Click If > insert item button and then click ds (data source) at the top. The Data Source dialog opens again.



- 9. Click Select source drop down menu and select the CSV to be used.
- 10. In the **Selector path** field, click on or enter the desired selector (i.e.: \$[0][0]). The "Resolved data" field displays the expected value.

- 11. In the Default Value field, enter "OFFLINE" (though a default value of your choice is an option).
- 12. Click SET.
- 13. Click the **append** button and click the = operator button at the top. The [=] operator appears at the end of the "If" condition field.
- 14. Click append, then click primitive. The Text field appears.



15. Enter "OFFLINE" in the Text field and click Set. "OFFLINE" now appears at the end of the "If" condition field.

Х		Set	ting field	src' of	objec	t 'M	ultim	edia'					
E E A	Asset Data Source Text	× J asset	AND sppend	OR	>=	\$	۷	4	-	,t=	prin	nitiva	ds
¢	Rule	if OFFLI Then ⇒inser	√E Litern										
		<pre>expression Else > inser</pre>	item -										

16. Click the **Then > insert** item, click **asset** at the top. The Multimedia selection page appears.





17. Click the desired image (and then the desired size). You are now back at the "Rule" section.

×		Setting field 'src' of object 'Multimedia'	
2	Asset	the second se	
8	Data Source	# OFFLINE	
A	Text		
٠	Rule		
		AXPRESSION	
		Else > insert item	
		Set Rule	

- 18. Click Set Rule.
- 19. Click Save icon (at the top left of Creative Studio).
- 20. Schedule the layout.

You can test this by setting the display to AP MODE. After about 30 seconds, you should see the asset you just configured to be shown.



TECHNICAL OPERATIONS PORTAL USER GUIDE

CHAPTER

CONFIGURING EMERGENCY MESSAGING





The Emergency Messaging System (EMS) is a feature commonly used for the liveboards in the public transit environments (train and subway stations) to communicate public service announcements such as Amber Alerts, a metro line going down, traffic interruptions, etc.

When EMS is running, its content will override any scheduled events on the assigned liveboards, including dominations and critical alerts.

There are two methods to provide data for EMS: Data Sources and Dead Drops. Each method has several **Special Handling Logic** options, hard-coded instructions in VLE for displaying EMS text, images and layouts specific to the liveboard location.

The Emergency Message System can support JPEG image files and text files (TXT).

Location	EMS File Suppo	Content Source Type	
	JPEG TXT		
Urban Panel	Х	Х	Dead Drop
WMATA	Х	Х	Dead Drop
Penn Station	Х		Dead Drop
Grand Central	*Hardcoded image	Х	Datasource



Configuring EMS Process for WMATA/Penn Station/Urban Panels

Due to the overriding power of EMS scheduling, the exact order described in this guide must be followed, or potentially undesired behaviour may occur. The prescribed order is:

- 1. Assign tags to target liveboards.
- 2. Enable Ticker in Liveboard Display Shortcuts (turns on EMS).
- 3. Create/configure Dead Drop.
- 4. Upload files to FTP site.

Naming Files and Creating/Assigning Emergency Liveboard Tags

EMS tag categories and tags will have likely been created already, and you only need to assign them to the relevant liveboard.

The most importand rule to remember is: **TAGS AND EMS CONTENT FILENAMES MUST MATCH**. It doesn't matter if you change the filename to match the tag or vice versa, but they must match. Do the renaming before you begin this process, however.

- If the JPEG image to be used is named alert1, make sure the tag you assign is also alert1.
- If the (.txt) file to be used is named line-a, make sure the tag you assign is also line-a.

Defining Transit Line Icons for Alert/Advisories (WMATA and Urban Panel Only)



To change the icons for the various subway lines that appear on the ouside edges of the ticker area, append the name/ number of the line to the filename and tags.

AGE BD FM G UZ N Q R S 123 L 7 4 5 6

Examples:

- For an alert for the N line, the filename and tag should be: Alert-N
- For an advisory message for the 7 line, the filename should be: line-7

NOTE: If the filename is not appended with the appropriate line letter/number, the default icon will be used.



Assigning Tags to Liveboards

To assign tags to liveboards:

- 1. Click dashboard > LIVEBOARDS > [liveboard].
- 2. Click Profile & Settings tab.
- 3. In the Tags field, start typing the intended tag. The field will auto-complete and show related tags. Click the proper one, and click Save.

CON The Hon	MILE END LE PLATEA	Mont reoval
Tags	Alert.	
Settings	Test7876 > alert-01	
Timezone	Stephentags > Alert01	•
HDMI Resolution	Stephentags > Alert02 Stephentags > Alert03	•
Brightness	Jesse2 > alert-1 Test7876 > alert-1	Automatic
	Jesse > alert-1	
ave & Delete		
		X Delete 🗈 Save

Enabling EMS

Enabling the ticker for a liveboard means that you are enabling EMS.

NOTE: If there are proper tags in place and EMS content has been uploaded to FTP, turning on EMS will immediately display EMS content on the liveboard.

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- 1. Click dashboard > LIVEBOARDS > [LIVEBOARD).
- 2. Click [+] to open the Liveboard Basic Monitoring Drawer.
- 3. Under the **Display Shortcuts** section, slide **Ticker** to **ON**.

Off	Ticker
On	Overlay
Disabled	Daily Software Reboot
Reboot	Software Reboot
Clear	Clear Screen
Launch	Command Terminal
Settings	Backlight: ON

4. Click **OK** on dialog.

Creating EMS Dead Drop

- 1. Click dashboard > DATA SOURCES.
- 2. Click Dead Drops tab, then Add Dead Drop.

Data Sources					
Datasources Dead Drops					
ADD & GEAD DROP					
NAME:	Mame				
10000	Host				
1922	User				
DIRICYORY	Directory				
PARTY PARTY CONTRACTOR	None	4			
OPENTER PROPERTY.	Update Interva	SECONDS	B. 1		
PATTRY					
WESWORD	Password		í.		
SWE & DELETE					
				Ca	ncel 🗈 Save
An Association			Q.		
Showing 1 dead drop of 1					
Name - Tags		Last Update 💠	Last Message ¢	# Artefacts	EDIT
Dead Drop Gorgeous		2017/4/18, 12:49	getaddrinfo: Name or service not known on host qa-ftp.videri.com	20.00-	
				1	tems per page: 20 🛊

- 3. Enter a Name for the Dead Drop.
- 4. Enter host, user and password for the FTP site.
- 5. Directory e.g: /JPL-Test/ or /whateverfolderyoumade/
- 6. For Special Handling Logic, choose the liveboard location (Urban Panel, WMATA, Penn Station).
- 7. Enter Update interval: 15-30 seconds (recommended).
- 8. Ignore Pattern field.
- 9. Click Save.

Uploading Emergency Messaging Content Files

- 1. With an FTP client, upload the JPEG and TXT files into the directory specified in the Dead Drop you just created.
- 2. To confirm that VLE recognizes the upload, navigate back to the Dead Drop for the EMS you just created, and view the **Artefact Count** field (you might need to refresh the page).
- 3. Observe the liveboard to ensure EMS content is being displayed.

NOTE: For WMATA and Urban Panel, if there are both *Alert-X* and *Line-X* files present in the FTP directory, only the *Alert-X* file will be displayed.

Configuring EMS Messaging (Grand Central Only)

Grand Central Emergency Messaging uses a hard-coded image and an alert text overlay whose content will come from the MTA.INFO service alerts feed, so no files need to be uploaded.

To enable EMS, you must tag liveboards, reserve slots for EMS content and create a datasource that points to the *MTA*. *INFO* service alerts feed.

Configure Liveboard for EMS Messaging

- 1. View the MTA.INFO file.
- 2. Scroll down to the <ITEM] > section with <title>DIAOVERRIDE items. Find out from your team lead which OVERRIDE item will be used. You will assign that value as a tag to the liveboard.



- 3. Click dashboard > LIVEBOARDS > [liveboard].
- 4. Click Profile & Settings tab.
- 5. In the **Tags** field, start typing the intended tag (with the value from Step 1). The field will auto-complete and show related tags. Click the proper one (or create the New Tag, and then select it).

Hernin Rockland Unervin Rockland Unervin Grandin Googge	Av du raic Du av du raic Du avenue Wenne Mance Du avenue Wenne Mance Du avenue Aven	MILE END LE PLATEAU-MONT-ROYAL Aue Clark Aue Clark Map data ©2017 Google Terms of Use : Report a maj	o error
Tags	Ems > Dio4Override		
Settings	Jesse > Dio1Override		
Timezone	Migrated-old-tags > Dio1Override Alert > Dio1Override	\$	
	Ems > Dio4Override	· · · · · · · · · · · · · · · · · · ·	
Brightness	+ Create New Tag	 Automatic 	
Sava & Dalata			
Save & Delete			
		× Delete	🖺 Save

6. In the **Reserved Slots** field, enter the number(s) of the slots to be reserved for Emergency Messaging, separated by commas.

erts Wifi Downloads Content Command Terminal Screencapture Profile & Settings
Amazing Rob Board
Liveboard \$
ccdse \$
https://videri.s3.amazonaws.com/dev/schedule/1/latest.json
8
44
9

NOTE: if Reserved Slots are not defined, EMS messaging will take over all slots.

7. Click Save.

Configure Datasource for Grand Central EMS Messaging

- 1. Click dashboard > DATA SOURCES.
- 2. Click **Datasources** tab, then **Generate Datasource**.

tasources Dead Drops	
MTA SOURCE GENERATION	
-MAME	EMS-GC
LIBL	http://as0.mta.info/mnr/rss/gct.cfm
MUME TYPE	RSS/XML CSV HTML TXT
SPECIAL HANDLING LODIC	Grand Central \$
LIPDATE INTERVAL (SECONDS)	300
COMMENTIVITY HYSTERESIS (RECOMDS)	3600

- 3. Enter a **Name** for the datasource.
- 4. For **URL**, enter the URL for the **MTA.INFO** service alerts feed.
- 5. For Special Handling Logic, choose Grand Central.
- 6. Enter Update Interval: 15-30 seconds (recommended).
- 7. Click Save.



How Grand Central EMS is Triggered

EMS messaging will be triggered from a change in the MTA.INFO service alerts feed.

When the item <description>under <item><title>SERVICE STATUS changes to NOT GOOD, Emergency Messaging will show up on boards with the appropriate Override tags.

▼ <item></item>			
▼ </th <th></th> <th></th> <th></th>			
This section	is for the service status for MetroNo:	orth Lines originating or terminating in (GCT
>			
<title>SERVICE</title>	STATUS		
<guid ispermal<="" td=""><td>nk="false">MTA Grand Central Terminal</td><td>Diorama SAM</td></guid>	nk="false">MTA Grand Central Terminal	Diorama SAM	
k>http://as	a0.mta.info/mnr/rss/gct.cfm		
<description>G</description>	OD SERVICES/description>		
	Non printing (depositions		
Weitom>			
<++++10>MPCCACE	(/+i+1a)		
CICLE-MESSAGE		Land Contract of C	
<guid ispermal:<="" td=""><td>Ink="false">MTA Grand Central Terminal</td><td>Diorama</td></guid>	Ink="false">MTA Grand Central Terminal	Diorama	
<link/> http://as	<pre>30.mta.info/mnr/rss/gct.cfm</pre>		
<description>N0</description>	DRMAL SERVICE		
Vaild CON</td <td>NTENT for the discription field are</td> <td>~</td> <td></td>	NTENT for the discription field are	~	
▼<1			
CONTENT OF T	HE SERVICE ALERT MESSAGE, MESSAGE WILL	BE DISPLAYED ON LOWER 2/3RDS OF EACH DIG	ORAMA
>		Anonen and an activity of sides of clight day	
V <1			
UPPER 1/3 OF	THE DISPLAYS WILL READ "SERVICE ADVIS	ORY" FOR BOTH SERVICE ALERT AND EMERGENCY	ALERT STATES
>	THE PIOTENTE WILL AND DERVICE INTER		i instit stitus
c/itom>			
-/ TCCIIC			

Whether the EMS content will be shown on all slots, or only on reserved slots is determined by the value of the <description> field of the <item><title>Dio[X]Override item.

```
v<item>
        <title>DiolOverride</title>
        <guid isPermaLink="false">MTA Grand Central Terminal Diorama 1 Override</guid>
        <link>http://as0.mta.info/mnr/rss/gct.cfm</link>
        <description>0</description>
        <!-- 1 = Override, 0 Don't override -->
        </item>
```

- 1 = will be shown on all slots
- 0 = will only be shown on reserved slots



TECHNICAL OPERATIONS PORTAL USER GUIDE

SCHEDULING

CHAPTER



Scheduling Terminology

- Event: a configuration of options that describes when/where/how long/if content will play. You can directly schedule an asset (image, video or application), layout and playlist. An event can be assigned to either a liveboard OR a schedule/event group.
- Event States: approval status for a created event. In order to appear on a schedule (and be played on a liveboard), an event must have a "complete" status.
- Event Ranking: an option that determines the weight of event; specifically, the order in which it will play in a loaded slot with multiple events.
- Event Groups: a collection of events that can be assigned to one or more liveboard(s).
 Using an event group for multiple events makes it easy to quickly assign multiple events to multiple liveboards
- Domination/Critical Alert Event: an event that overrides current content on a display
- Schedule: a collection of events that can be embedded as an object on a layout.
- Schedule Span: the longest a liveboard can go without a new schedule.
- Rule Builder/Event-based Rules Engine: a combination of variables (input about liveboards, datasources and/or the current item being scheduled) and logical expressions to create display conditions for events.

How Event Schedules are Delivered and Assets are Downloaded

- By default, a schedule is downloaded to the liveboard every 24 hours, at midnight local time.
- When an event is created, scheduled, assigned to a liveboard and the status is marked "complete," and the event is saved, the schedule is sent to that liveboard.
- When a schedule is received by the liveboard, it immediately starts downloading the scheduled assets.
- Whenever a schedule is edited, when changes are saved, that updated schedule is sent to the relevant liveboard(s), and new/updated assets are downloaded.
- If an event is changed that will affect whatever is currently playing on a liveboard, the content in the current schedule will keep playing, until the new assets for the updated schedule have downloaded, and then the new schedule will take over.
- When an event uses Rule Builder functionality, is marked "complete" and saved, the schedule and related assets will still be downloaded by the relevant liveboards. This is so that even if a rule suddenly resolves to true after having been false for a period of time, the assets are already there and can be displayed instantly.

Before Scheduling Events

- Liveboards must be provisioned (do not need to be online) (see **Provisioning Guide**)
- Number of slots, dwell time (slot length) and scheduling span for liveboard must be defined
- Assets must have been ingested (see Chapter, Creating Signage), and/or
- Layouts must have been created (see Chapter, Creating Signage)
- If using Rule Builder functionality with datasource input, datasources must have been created (see Chapter, Data Sources)
- If using Rule Builder functionality with tags, Tag categories and tags must have been created and assigned to liveboards and assets



Preparing Liveboards for Events and Scheduling

You can customize dwell time and number of slots for each liveboard. To customize these settings:

1. On the dashboard panel, click LIVEBOARDS > [LIVEBOARD] > Profile & Settings.

Device Organi ID: 1 Serial I XMPP {"id":"5	2 Name: Amazing Rob ization: Rob Number: DPC-100CA2 Status: ("current": 59962e8b1f9ea046fft	Board 2-15222 p8cd0b";	20012 "type":	"ad"}}			NETWORK Q Weak	UALITY	PLAYB Delay	ACK REPORTS	PINGED Yes
Schedule	Advanced Monitoring	Alerts	Wifi	Downloads	Content	Command Terminal	Screencapture	Profile & Se	ttings	About Device	
Profile											
	Liveboard N	Jame	Ama	11-10-10 A.C.							
			Ama	zing Rob Boar	d						
	Display	Туре	Liveb	zing Rob Boar oard	d			\$			
	Display Schedule Delivery N	Type Node	Liveb	zing Rob Boar oard	d			:			
	Display Schedule Delivery N Schedule URL (opti	Type Mode	Liveb ccdse	zing Rob Boar oard : :://videri.s3.an	a nazonaws.c	om/dev/schedule/1/la	itest.json	*			

- 2. Find the **Dwell Time (in secs)** field and enter the desired dwell time for the liveboard (default is 8, minimum is 2).
- 3. Find the Number of Slots field, and enter the desired number of slots (default is 8).
- 4. Click Save.

Creating an Event

You can create an event directly for an asset, application, playlist or layout.

There are several steps in creating and configuring an event:

- 1. Create the event.
- 2. Configure event details (name, start/end date and time, priority, etc.).
- 3. Assign the event to one or more liveboards. With VLE version 1.7, you can now dynamically assign events to liveboards using Rule Builder functionality (in addition to assigning manually as before).
- 4. Update the event status (usually to COMPLETE).

Creating an Event Directly for an Asset

Scheduling Assets	Information
Scheduling a Single Asset	 Click PROJECTS > [PROJECT] > ASSETS. Find the row of the asset to schedule, and click the schedule icon The Event details page appears.

Scheduling Multiple Assets	 Click PROJECTS > [PROJECT] > ASSETS. Select the checkbox of each asset to schedule. NOTE: You can schedule up to 30 assets at a time. If you need to schedule more than 30, you would need to schedule assets in blocks of 30 assets if a complex schedule is intended. Click Schedule.
	4. The Event details page appears.
Scheduling a Layout	 Click PROJECTS > [PROJECT] > LAYOUTS. Roll over the layout to schedule. Image: Content of the layout Image: Content of the layout<!--</td-->

Configuring Event Options

		1						
ssets	Layouts	Events	Schedules	Playlists	Event Groups	Settings		
Even	t Details	-						
			State	Complete				
			Name	Butterfly				
			Asset	Butterfly			\$	Ø
		D	uration	Default (dv	vell time)		\$	
			Slot	1.		To 1		
			Tags					
		Eve	nt Rank	0				
			Priority	Normal			- -	

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1. Name the event.

2	In the Duration field, select whether the	Satting Play Duration				
Ζ.	event will Play to End or Play to Duration.	 By default, a two minute video scheduled on a display that has an 8-second dwell time would only play for the first 8 seconds. If setup as "Play-to-duration", that same video will play for as long as the number of seconds entered in the "Duration (seconds) field. If setup as "Play-to-end", that video it will play in its 				
		totality before switching to the next asset.				
3.	In the Slot field, enter the desired slot for th Slot End field.	e event. If play in sequential slots is desired, enter a value in the				
4.	In Event Rank, enter the rank (weight) of the	e event (lower numbers have most weight).				
5.	In Priority , select the event	Domination and Critical Alert Events				
	priority (normal, domination or critical alert).	Setting an event's priority to Domination or Critical Alert will make that event's content override whatever is concurrently scheduled on a liveboard.				
		 There can only be one domination/critical alert event scheduled per liveboard. 				
		 A domination/critical alert event cannot be assigned to an event group. 				
		 A critical alert will override a domination event. 				
		 After a domination/critical alert event ends, the regularly scheduled event at that time will start (although it may not play completely). 				
		 Rule Builder functionality is not available with a domination or critical event priority. 				

Configuring Event Scheduling Options

Use UTC	Off			
Schedule	03/24/2017 12:00 /	То 04/2	24/2017 12:00 /	
Hour Parting	• Add a time slot			
Frequency	None	Monthly		

6. In **Schedule** fields, enter the duration for the event: date and time to start and end.

Hour parting allows you to set an event to play multiple times in a day without having to create multiple events. 1. Near Hour Parting, click Add a time stot. 2. Enter the start and end times for the time stot. 3. Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. Hour Parting 200% 10 Click Add to add additional time stots. 11 Near the Frequency fields, click the radio button for Daily. Frequency Nee Play content on certain days of the month (or all days) 1. Near the Frequency fields, click the radio button for Monthy. Frequency Nee Play content on certain days of the month (or all days) 1. Near the Frequency fields, click the radio button for Monthy.	Set Hour Parting Options	Play c	ontent at o	different time	es in a day		
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Creating Event Display Conditions with Rule Builder

Rule Builder functionality is available for any item that can be scheduled: assets (images, videos, APKs), layouts and playlists. Schedules can't use the Rule Builder, but can make use of Rules Engine in Creative Studio.

A "rule" is composed of defined variables (input), PLUS logical expressions to create rules to define conditions under which content will be displayed.

There are three variable types:

- Liveboard: specifies attributes of liveboard to receive the event in their schedule. All liveboards within your
 organization which match the attribute values of created liveboard variables will receive the event in their schedule.
- Datasource: specifies which datasource and which path will be used as input.
- Current Item: defines attributes specific to the current item being scheduled.

Variable Entries

- The variable entry field types correspond to fields in other areas. For example, the timezone attribute value field will be a drop-down field, because the timezone field in the Liveboard > Profile & Settings tab is also a drop-down field.
- Some fields (such as Tags) are auto-complete fields; if you start typing, you will see a list of available options.
 NOTE: Most fields are text entry fields, so it is up to the user to ensure that the value typed in the variable attribute field EXACTLY MATCHES that of the corresponding liveboard, datasource or asset item field, or the the Rule will not result in content being displayed under the desired conditions.

Defining Liveboard Variables	Ea ati	ich availabl tributes coi	e attribute repres rrespond to fields	ents information ak found in Liveboarc	oout the liveboar > Profile & Sett	d. Many of the Liveboard ings tab.	
	Ru	le Builder					
		Define the variable	efine the variables				
		Туре	Name	Attribute/Datasource	Value/Path		
		Liveboard	•	tags	•	Save Cancel	
	1.	Click Ad	d.				
	2.	Under Ty	/pe , select variabl	e type:			
	3.	Under N a no space	ame , enter a uniques, and use only al	ue name for variabl phanumeric charac	e. Variable name ters.	es must start with a letter, have	
	4.	Under A t tables fo	ttribute/Datasour	ce , select the appr ructions).	opriate liveboard	attribute (attributes defined in	
	5.	Under Va	alue/Path, define	the value for the at	tribute.		
	6.	Click Sav	/e.				
	7.	Repeat s	steps 1-6 to create	more liveboard va	riables.		



Defining Current Item	Rule Builder	
Variables	Define the variables	
	Type Name Attribute/Datasource Value/I	ath
	Current Item	>alert-1 Save Cancel
	8. Click Add.	
	9. Under Type , select Current Item .	
	 Under Name, enter name for variable. Under Attribute/Datasource, select the approdefined in table following these instructions). 	opriate attribute for the variable (attributes
	12. Under Value/Path, define the value for the at	ribute.
	13. Click Save.	
	14. Repeat steps 1-6 to create more current item	variables.
Create Rule Logic	 15. Under Set the Rule, the variables you just created own menu. Use the variables and the operate Rule Builder 	ated are available in the Add Variable drop- ors to construct rules logic.
	Define the variables	
	OAdd	
	Type Name Attribute/Datasource	Value/Path
	Liveboard AssignMTL tags	Demo > Montreal
	Liveboard AssignBT tags	Demo > Boston
	Liveboard AssignWT tags	Demo > Washington
	Data Source RainChance Weather	/csv/data/datum[2]/*/
	Set the Rule Add Variable → AND OR IS ISNT + - / - > < (AssignMTL AssignBT AssignWT) && RainChau	nce >= 80 && RainChance <= 89

<u>eview Rule</u>	16. Under <i>Rule Evaluation</i> , click Preview .							
	Rule Evaluation							
	Evaluate the rules	s currently applied to livebo	ards selected in Rule Builder and Manual Assignments.					
	17. A dialog show	17. A dialog shows which liveboards the event would play on under current conditio						
	Rule Evaluatio	Rule Evaluation Preview						
	iCanvases	Selected By Y	Currently evaluates to					
	Jesse 4k	Rule	@ True					
	JessePortrait	Rule	© True					
	Close							
	Possible Other	Rule Preview Resu	lts					
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	Messag No Results Four	e No rules t nd No rules t — the — the — eve — live any	Meaning o evaluate. It might mean: re are no variables defined re are no characters in the <i>Set the Rule</i> field nt not assigned to anything manually ooard variable attribute value doesn't match liveboards in your organization					



Assigning Events to Liveboards

There are now two ways to assign events to liveboards:

- Dynamic assignment: Use Rule Builder functionality on the event detail page to create liveboard variables, select an
 attribute and give that attribute a value. Any liveboards whose value for the selected attribute matches the created
 variable will receive the event in their schedule. These variables are then used in Rule Builder functionality on event
 detail pages to create display conditions which determine whether the event will display.
- Manual assignment: check the box(es) for individual liveboards as before on the event detail page.
 NOTE: You can use Rule Builder to define display conditions but assign liveboards manually.

Dynamically Assign Event to Liveboard	(as 18. 19.	exp Cro If c	lained eate liv desired	in the se eboard , add ru	ection, variabl le logic	Creati es and c condi	ng Ever I define tions to	nt Disp attibu o displa	ilay Cor ite value ay.	nditions es.	with F	Rule Bu	ilder)
	Rule	Builde	r										
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		Liveboar	d	AssignMTL		tags						Demo > M	ontreal
		Liveboar	d	AssignBT		tags						Demo > Bo	ston
		Liveboar	d	AssignWT		tags						Demo > W	ashington
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Update Event State

Before an event will be shown on a display, it must:

- have a "Complete" status
- be assigned to one or more liveboards (either manually or dynamically through rule builder).

State Transition	 24. If this event doesn't need to go through an approval process, click the Complete button (it will turn dark blue). 25. Click Save.
	NOTE : The previous state will stay highlighted until the event is saved.

Rule Builder Notes and Variables

Rule Builder Notes

- Rule Builder is not available for events with a Domination or Critical Event priority (options disappear).
- Variables defined in Rule Builder are unique to that event.
- Variables cannot be copied and pasted between events.
- Rule logic CAN be copied and pasted between events. However, the rules won't work unless identically-named variables are created.
- Events can be cloned to reuse the Rule Builder variables and logic.
- When a rule has been prepared and event assignations have been made, you can use Rule Preview (in either Event Details, Events Overview page or Playlist Schedule Info blocks) to check whether it resolves to true or false with the inputs' current values. However, since input values can be dynamic, the rule resolution can evolve with time.
- Layout-based Rules Engine rules will be respected by events-based rules engine, but not the reverse.
- If an event uses Rule Builder rules, when the liveboard first receives the schedule it will check the rules to see if the event meets display conditions for that liveboard. It will check the rules again on each update interval of any related datasources (or when connectivity hysteresis is reached).

Attribute/Datasource	Corresponds to Liveboard Profile/Settings field	Value/Field Type
name	Liveboard Name	Text entry
ims_market	OFM field	Text entry
unit_number	OFM field	Text entry
orientation_setting	Orientation	Drop-down
timezone	Timezone	Drop-down
location	Address	Text entry
schedule_delivery_mode	Schedule Delivery	Drop-down
schedule_url	Schedule URL	Text entry
schedule_dwell_seconds	Dwell time	Number spinner
schedule_slot_count	Liveboard slots	Number spinner
owner_name	Owner	Text entry
schedule_delivery_window_days	Schedule Span	Number spinner
tags	Tags	Auto-complete
Attribute/Datasource	Field found at top of Liveboard Details Page	
device_id	The device's DPC ID	Text entry

Liveboard Variable Attributes/Datasources



Current Item Attributes/Datasources

The fields for "current item" refer to properties of assets (images, videos, or applications), layouts or playlists. The attributes available change depending on the current item.

Attribute/Datasource	Description	Field Type
tags	Tags assigned to item	Auto-complete
<pre>project_id/external_id (assets only/playlist+layouts only)</pre>	Project ID (project) of project containing the item	Text entry
orientation (assets only)	Item orientation	Text entry

Rule Builder Operators

These are operators we have buttons for in the rule builder:



We also use standard rules engine operators:

Ending a Critical Alert Event

It's easiest to simply delete a Critical Alert event when its purpose has been served.

- 1. Click **PROJECTS > [PROJECT] > Events**.
- 2. Click the row of the critical event to delete.

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Name *	Туре Т	Slot# \$	Starts \$	Ends 🖨	Liveboards \$	Priority * T	State T	Transition	Tags	Actions	EDIT
IMAGE Asset - pitpatiogo - content	Asset	1	2017/5/12, 00:00	2017/6/4,00:00	0	Normal	Complete	Composing In Progress		0	
APK-UC Browser Fast Download_v10	Asset	1	2017/5/12, 00:00	2017/6/4,00:00	0	Normal	Composing	Ready To Review Approved Complete		ō.	
Playlist - Globochem Spring 2017	Playlist	1	2017/5/9,00:00	2017/6/9,00:00	0	Normal	Composing	Ready To Review Approved Complete		0	
Layout - Globochem Domination	Layout	1	2017/5/4,00:00	2017/6/4,00:00	0	- Domination	Complete	Composing In Progress		0	
										ltems per pag	e: 20 :

3. Click **Delete** and **OK** in the confirmation dialog box.

Playlists

Playlists are a collection of assets designed to play sequentially.

- Playlists can contain assets (videos, images, applications), layouts AND other playlists (to create complex slot segmentation).
- Playlists can be scheduled just like any other asset.
- Playlists can't be scheduled to span multiple slots.
- Playlist items can be configured to override the liveboard's dwell time.
- Playlist content items have their own custom frequency, and/or rules applied for display conditions (through schedule info blocks).
- Playlists on a layout: If you define custom duration or play to end for a playlist content item, and the playlist is
 inserted onto a Creative Studio layout (as an element), custom values will be ignored and the liveboard's dwell time
 will be used.
- A playlist may be inserted into an existing playlist (e.g. inserting Playlist X into Playlist Y). However, Playlist Y cannot be added back to Playlist X because X is already embedded inside Playlist Y.

Creating Playlists

 Click PROJECTS > [PROJECT] > Click Create. Name the playlist and click OK. 	Playlists tab.	
Add Content Items to Playlist	 Click + on the right corner of each asset to ad the Playlist Content list on the left side. Projects 	d to the playlist. The asset will appear in
	Aaron's Projects / Demo / Globochem June Campaign	
	Assets Layouts Events Schedules Playlists Event Groups Settings	
	Name Globochem June Campaign	Available Content
	Tags	Q, a
	Playlist Content	Image + Image + Image +
	Reorder playlist items by drag n' drop	Add some coli Aquarium Butterfly Catch some ra
	E Add som Default (dwell time) : • • Add a Scheduleinfo -	
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	penguin Default (dwell time) + • Add a Scheduleinfo -	Rush Hour Shark Swing by for F Water Everyw
	Monkey Default (dwell time) Add a ScheduleInfo	
	Coolest Default (dwell time) Add a ScheduleInfo	
	Rush Ho Default (dweil time) : O Add a Scheduleinfo -	
	Shark Default (dwell time) + Cons C Default (dwell time) +	
	Save & Delete	
	X Delete 🖺 Save	
Change Playlist iltem Order (optional)	 If desired, change the order of the assets in th move icon	e playlist by clicking and dragging the box.

Technical Operations Portal User Guide **Define Content Play Time** By default, content in a playlist (and content in general) will play according to the liveboard's defined Dwell Time (8 seconds by default, configured in Liveboard > Profile & Settings). However, you can override this value with a custom duration, or set a video to Play to End. 6. Custom Duration: pull down the menu, select Custom Duration, and enter a value in the seconds field. Reorder playlist items by drag n' drop O Add a ScheduleInfo Ξ aladdin_s... -Default (dwell time) \$ 3C0A2056 O Add a ScheduleInfo -Ξ Custom duration \$ 10 seconds O Add a ScheduleInfo output225 -= Play to end \$ Schedule Info Blocks Schedule info blocks allow you to define custom frequency and rule builder display conditions for individual content items inside a playlist (with the caveat that event scheduling options for the playlist container will always take precedence). 7. On the "child" content item, click Add a Schedule Info. Reorder playlist items by drag n' drop O Add a ScheduleInfo Add so... a: = Custom duration \$ 10 seconds O Add a ScheduleInfo Aquariu... Custom duration 👙 20 seconds -0-O Add a ScheduleInfo Butterfly -_ Default (dwell time) \$



Schedule info block	× .	
Recurrence AMON TUE WED THU FRE SAT SUN Enabled	1.1	
Monthly 1 2 3 4 5 6 7		
8 9 10 11 12 13 14 15 16 17 18 19 20 21		
22 23 24 25 26 27 28 29 30 31		
Rule Builder		
Define the variables		
Set the Rule		
Add Variable v AND DR IS ISNT + - / * > <		
	- P1	
	Close Save	
9. Click Save.		
 Click the Playlists tab to get to the overview page. Click the clock icon next to the playlist to schedule it. The Event d The event details for a Playlist are similar to a regular event except fields. 	etails page app with a few add	ears. itiona
Event Details		_
State Composing		
Name Playlist - Layout Tickers		
Playlist Layout Tickers	+	C
Play all items per pass		
Play a number of items per pass 1		
Slot 1 To 1		
Tags	=	
 To create a slot segmentation, turn on the slider for Play all items NOTE: NEW in 1.7.1, 	per pass.	
	 9. Click Save. 10. Click the Playlists tab to get to the overview page. 11. Click the Clock icon next to the playlist to schedule it. The Event d The event details for a Playlist are similar to a regular event except fields. Event Details Flay all Items per pass Flay all Items per pass To To 12. To create a slot segmentation, turn on the slider for Play all items 13. NOTE: NEW in 1.7.1, 	 9. Click Save. 9. Click the Playlists tab to get to the overview page. 10. Click the clock icon next to the playlist to schedule it. The Event details page app. The event details for a Playlist are similar to a regular event except with a few add fields. Event Details Furth Details Furth Details State Cincosing Playlit: Playlit: Playlit: Playlit: Playlit: Playlit: Playlit: To create a slot segmentation, turn on the slider for Play all items per pass. 12. To create a slot segmentation, turn on the slider for Play all items per pass.

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Rev August 23, 2017

Copy Schedule Info Blocks (optional)

1. Click the copy info icon of the playlist content item to copy from.

		A			
eor	der playlist ite	ems by drag n'	drop		
-		306465	Default (dwell time)	ScheduleInfo @ 🗇 🖈 🗙	-
				Add a ScheduleInfo	
=	-	Layout-Im	Default (dwell time)	O Add a ScheduleInfo	-
=		327168	Default (dwell time)	ScheduleInfo @ C # x	-
				O Add a ScheduleInfo	
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			(and the second	Add a ScheduleInfo	
ave	& Delete			× Delete) Save
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- 2. Check the box(es) of the playlist items to copy to.
- 3. Click Paste.

Į.

4. Click Save.

Experimental Schedule Info Block Span Function

WARNING: This behavior is experimental and is not guaranteed to function as intended in all circumstances.

This experimental behavior uses the underlying javascript engine to allow the definition of a time interval in a schedule info block in a playlist.

This requirement is to allow defining time interval at the scheduleInfo level to be used within playlists.

The expression is: new Date()

Example:

new Date() > new Date('2017-04-12') && new Date() < new Date('2017-04-15')

The event will show from the 12th through 14th of April.

NOTE: The span in the schedule info block cannot expand beyond the span of the event the playlist is associated with. This is because schedule info blocks are "children" of the parent playlist event.



Viewing Playlist in the Liveboard Schedule

Device ID: 80 DPC Se XMPP	erial Stat	ime: Wo I Numbe tus: {"cu	nderlar er: DPC- rrent":{	nd -110C "id":"5	A2-16 57e149	07106 9856d9	38 9e9418	311000	0016","t	ype"	:"ad"}}					XMF	PP CONN Online		Y	NETW	ORK QU	JALITY	F	и Dn Tir	ik repo ne	RTS	PIN	GED
Schedule	1	Advanced	Monito	ring	Alerts	Wifi	Down	nloads	Conte	nt	Command	d Termina	l So	creencap	oture	Profile	& Settin	gs Ab	iout De	vice								
► Res	ume	Schedul	e															*	<	Week	of 201	6-09-20) >	*	1 Day	View	7 Day	y View
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0	0:00	06:00	12:00	18:00	00:00	06:00	12:00	18:00	00:00	06:0	0 12:00	18:00	00:00	06:00	12:00	18:00	00:00	06:00	12:00	18:00	00:00	06:00	12:00	18:00	00:00	06:00	12:00	18:00
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- When you view the schedule for a liveboard that has a playlist, the playlist will be colored purple.

Creating a Slot Segmentation

Advertisers often don't want to buy an entire slot, so time can be sold as a portion of a slot. A playlist is inserted into a slot to segment it. You can even insert a playlist that contains other playlists, further subdividing a slot.

When you insert a playlist into a time slot, by default, one item in the playlist is played each pass.

DEFAULT

Let's say we have eight slots, and one of them contains a playlist with eight items. The first time the loop plays the slot, the first playlist item is played. The second time the loop plays the slot, the second item is played, etc. Let's say we have seven slots with unique content (A, B, C, D, E, F, G) and one filled with a playlist with four items from multiple customers (H1, H2, H3, H4).

A complete rotation would look like this:

- Loop 1: A, B, C, D, E, F, G, H1,
- Loop 2: A, B, C, D, E, F, G, H2
- Loop 3: A, B, C, D, E, F, G, H3
- Loop 4: A, B, C, D, E, F, G, **H4.** etc.

Play All Items Per Pass Option (ON)

When the **Play All Items Per Pass** option is enabled, all items in the playlist will be shown during that slot's dwell time. Using the example above, if a liveboard has a dwell time of 8 seconds, each asset in the playlist would play for eight seconds. It would look like this:

- Loop 1: A, B, C, D, E, F, G, H1, H2, H3, H4,
- Loop 2: A, B, C, D, E, F, G, H1, H2, H3, H4,
- Loop 3: A, B, C, D, E, F, G, H1, H2, H3, H4
- Loop 4: A, B, C, D, E, F, G, **H1, H2, H3, H4**, etc.

Play a Number of Items Per Pass (Play all items per pass = OFF)

You can also configure only [X] number of items from a playlist to play per pass. Using the example above, lets say we want two items to play per pass. It would look like this:

- Loop 1: A, B, C, D, E, F, G, H1, H2
- Loop 2: A, B, C, D, E, F, G, H3, H4
- Loop 3: A, B, C, D, E, F, G, H1, H2,
- Loop 4: A, :B, C, D, E, F, G, **H3, H4**, etc.

Creating a Complex Slot Segmentation

Complex slot dilution occurs when a user schedules a playlist that contains another playlist in it.

To create slot segmentation:

- 1. Create a playlist with properly ordered assets in it.
- 2. Click **PROJECTS > [PROJECT] > Playlists** tab.
- 3. Click the scheduling icon for the playlist you just created. The Event Details page appears.
- 4. In the **Slot Index** field, enter the slot to insert the playlist into.
- 5. Enter scheduling information and assign the event to one or more liveboards.
- 6. Click Save.

Creating Event Groups

Using Event Groups enables you to quickly schedule collections of events on multiple liveboards.

NOTE: Page can become unresponsive when editing an event containing an event group. Refreshing the browser page will resolve the issue.

- 1. Go to dashboard > PROJECTS > [PROJECT] > EVENT GROUPS.
- 2. Click Create.
- 3. Enter Event Group name, then click OK.
- 4. Go to dashboard > [PROJECT] > EVENTS.
- 5. Click the event to add to the Event Group. The Event Details page opens.
- 6. Scroll to the bottom to view the **Manual Assignments** section. Click **Event Groups**. Check the box for the event group you just created.

nual A	Assignments			
Live	boards Some Event Groups			
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	Jesse-Mix-Landscape-9day-Ad+Theme/Day	4		

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7. Click Save.

Viewing Event Groups

Go to Dashboard > Event Groups.

Click on any event to bring up the Event Group detail page.

Projects														
Jesse C	orp's Proj	ects / Jesse-Rul	esTesting / Jesse	e-RulesTest	ing2									
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Event Group	Configurat	tion												
		Name	Jesse-RulesTestin	ng2			14							
											к <u>к</u>	2017-05	-16	» »
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Slot 2 Event: Ta Slot 3 Slot 4	g•A⊡* Starts	- Ends: 00:00:00 - 0	0:00:00											
Slot 5 Event: Or Slot 6	ientationPor	trait 🖾 Starts - Ends	: 00:00:00 - 00:00:00)										
Slot 7 Event: Sc Event: Dv Slot 8	heduleSpan-1 vell-8 🖙 Star	1 🖉 Starts - Ends: 00 rts - Ends: 00:00:00 ·	00:00-00:00 00:00:00											
Legend: 🔲 I	Event 🗖	Playlist Event	Event Tag Mismat	tch 🛄 Dom	nination Event	Cri	itical Alert E	evnt						
Associated Ev	ents													
Name	Туре	Slot #	Starts	Ends	Liveb	oards	Priority		State	Tran	sition	Tags		EDIT
Layout - Tag-A	Layout	2	2017/4/28, 00:00	2019/5/2 00:00	^{2,} 0		Norma	r a	Complete	Cor In F	nposing Progress			
Layout - Portrait	Layout	5	2017/5/3, 00:00	2019/4/2	4, 0		Norma	n n	Complete	Coi In F	mposing Progress			
Layout -			2017/5/3,	2019/4/2	4.					Rea	dy To Re	vie		

Creating a Schedule Container

There are two different meanings for a "schedule" in Tech Ops portal, depending on where you find it.

- The Schedule tab in the liveboards area refers to events assigned to a liveboard.
- A schedule found within a project refers to on object that can be assigned to a layout. Using such objects on a
 layout allows you have separate areas that are running their own schedules, or have rotating assets.

Note that an Event can either be assigned to a liveboard OR a Schedule/Event Group, but not both. If an Event has been assigned to a liveboard and you try to assign it to a Schedule or Event Group, it will be removed from the liveboard.

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Creating and using a schedule/event group involves several steps:

- creating a schedule
- assigning events to the schedule
- adding a schedule object to a layout/connecting the schedule to it
- creating an event from that layout containing the schedule object

Creating a Schedule Container

- 1. Go to dashboard > PROJECTS > [PROJECT] > Schedules.
- 2. Click Create.

Schedule Name	
Globochem Fall ScheduleA	
	Cancel OK

3. Enter schedule name, then click OK. The Schedule details page appears.

		Playlists	Event Groups	s Settings
nequie Cor	inguration	-		
	Name	Globoc	hem Fall Sched	duleA
	Dwell Seconds	8		
	Cinte Number			
	siots Number	8		
				« < 2017-05-15 >
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π.α π.δ π.δ π.δ				
na 15 17 18 18				

- Edit the Dwell Seconds and Slot Number fields, if desired.
 NOTE: Changes to these fields will override the default liveboard settings.
- 5. Click Save.

Assigning an Event to a Schedule Container

After you've configured an event:

- 1. Access the event, then scroll to the bottom of the Event details page.
- 2. Click the Schedules button on the left, then the All button on the right. All schedules will appear.

- 3. Check the boxes for the schedule(s) you'd like the event to be a part of.
- 4. Click Save.

Adding the Schedule Container to a Layout

- 1. Click Layouts tab.
- 2. Click **Create**, name the Layout, and click **OK**.
- 3. Click on the layout to launch Creative Studio.
- 4. Drag a **Schedule** element onto the layout.
- 5. In the Schedule field, click the data source icon. The Data Source dialog appears.

X		Setting field '	schedule' of object 'Schedule'
٥	Schedule	Name	Created
	Data Source	Videri Schedule A	Tue Sep 20 2016 11:03:24 GMT-0400 (EDT)
A	Text		
٠	Rule		

- 6. Click the schedule you previously created, then X to close the window.
- 7. Click **Save** icon, and close the Creative Studio tab.
- 8. Back on the Layout tab, for the layout you just created, roll over the Layout icon until the Schedule icon appears, and click it to open Event details.
- 9. Schedule this layout like usual, but for Slot Number field, assign this layout to slot 1.

NOTE: It can be any slot, but it should be the only event scheduled on the liveboard for the desired effect. Changes are saved automatically.

- 10. Scroll down and click LIVEBOARDS on the left, then All on the right.
- 11. Check the box(es) for all the liveboards you'd like to apply the layout to. Changes are saved automatically.

Once this is done, select an asset or a layout and schedule it normally. At the bottom of the event panel, click on the **Schedule** toggle to view available schedules (click **All** to see all schedules). Observe the player has a single event, within the event the layouts will rotate according to the schedule created previously.



Viewing Events

There are three places you can look to find/edit events:

- View all events: dashboard > EVENTS
- View all events per project: dashboard > PROJECTS > [PROJECT] > EVENTS
- View all events per liveboard: dashboard > LIVEBOARDS > [LIVEBOARD] > Schedule > click Event on calendar

Viewing All Events

- Go to Dashboard > EVENTS
- Click an event to see its details
- The new Actions column shows an icon that represents whether an event uses Rule Builder. If the icon is solid, it
 means the event has variables and/or rules associated with it, and when clicked it will display the Rule Evaluation
 Preview which will show the rule resolution per assigned liveboard.

2											
towing 12 events	of 12										
Name +	Туре 🝸	Slot# 🛊	Starts ¢	Ends 🖨	Liveboards 🖨	Priority 🖨 🝸	State T	Transition	Tags	Actions	EDIT
Asset - 959 - content	Asset	1	2017/5/3,00:00	2017/6/3,00:00	0	Normal	Composing	Ready To Review Approved Complete		¢	
Asset - Dverwatch_Mini content	Asset	1	2017/5/4,00:00	2017/6/4,00:00	o	 Normal 	Complete	Composing In Progress		٥	
Butterfly	Asset	1	2017/4/12.00:00	2017/5/12.00:00	0	Normal	Complete	Composing In Progress		\$	
Layout - Kasey Landscape	Layout	1	2017/5/8,00:00	2017/6/8,00:00	1	Normal	Complete	Composing In Progress		0	
Monkey	Asset	1	2017/4/12,00:00	2017/5/12,00:00	0	Normal	Complete	Composing In Progress		٩	
Penguin	Asset	1	2017/4/12.00:00	2017/5/12,00:00	0	 Normal 	Complete	Composing In Progress		۵	
Rays	Asset	1	2017/4/12,00:00	2017/5/12,00:00	0	Normal	Complete	Composing In Progress		٥	
Shark	Asset	1	2017/4/12,00:00	2017/5/12,00:00	0	 Normal 	Complete	Composing In Progress		٥	
anger Zone										ltems per p	age: 20 🛊

Viewing All Events Per Project

- Go to dashboard > PROJECTS > [PROJECT] > Events
- Click an event to see its details
- Click Action icon to view Rule Evaluation Preview



7	Aaron's Proje	ects / Demo										
ets	Layouts Ever	nts Schedules	Playlists Ev	ent Groups Setti	ings							
ł	1	(1. m)	(Lana					C	2			
howi	ng 5 events of 5	0 selected										
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	Monkey	Asset	1	2017/4/12 00:00	2017/5/12. 00:00	0	 Normal 	Complete	Composing In Progress		\$	
	Penguin	Asset	1	2017/4/12, 00:00	2017/5/12, 00:00	0	Normal	Complete	Composing In Progress		¢	
	Rays	Asset	1	2017/4/12, 00:00	2017/5/12, 00:00	0	 Normal 	Complete	Composing In Progress		\$	
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nge	r Zone											

Viewing All Events Per Liveboard

To view all the events assigned to a liveboard:

- Go to dashboard > LIVEBOARDS > [LIVEBOARD] > Schedule
- Events for a liveboard can now be viewed two ways: 1 Day View and 7 Day View.

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xt1 Event:																					
Event:	madmax-furyroad-gifs	-1-26569-conte	nt 🖾 Starts	Ends: 00	.00:00 - 00	:00:00															
Event:	interstellar-wallpaper-	22-content	Starts - Ends:	00:00:00	- 00:00:00																
Event:	Cloud-Atlas-wallpaper	s-16-content	Starts - End	s: 00:00:0	0 - 00:00:0	0															
Event:	Adventure Time 5-con	tent 🖓 Starts -	Ends: 00:00:	00-00:00	:00																
Event:	Adventure Time 5-con	tent 🖙 Starts -	Ends: 00:00:	00-00:00	00																
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1 Day View

	Tue (09/20)			Wed (09/	21)		Thu (D	9/22]		Fri (0	9/23)		53	t (09/24)			Sun (C	9/25)			Mon (09/	26)
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Even Even Even Even	nt: Interstellar wal nt: Cloud Atlas wa nt: Adventure Time nt: Adventure Time nt: Adventure Time	paper-22 lipapers-1 5-conten 5-conten 5-conten	content (6 conten t C Stari t C Stari t C Stari	5 Starts - E 12 Starts - s - Ends: 9/ s - Ends: 9/ s - Ends: 9/	nds: 9/15/2 Ends: 9/15/ 9/2016 @ 00 1/2016 @ 00	016 @ 00: 2016 @ 0 100:00 - 1 100:00 - 1	00:00 - 10 0:00:00 - 10/9/2016 10/1/2016	0/15/2016 @ 0 10/15/2016 @ 6 @ 00:00:00 6 @ 00:00:00 6 @ 00:00:00	0:00:00													
Even Even Even Even Even	nt: Interstellar-wall nt: Cloud-Atlas wa nt: Adventure Time nt: Adventure Time nt: Adventure Time nt: Adventure Time	paper-22 lipapers-1 5-conten 5-conten 5-conten	content (6-content t C ^a Start t C ^a Start t C ^a Start Event: (Starts • E C Starts • S • Ends: 9/ S • Ends: 9/ S • Ends: 9/ Adventure 1	nds: 9/15/2 Ends: 9/15/ 9/2016 @ 00 1/2016 @ 00 1/2016 @ 00	016 @ 00: 2016 @ 0 00:00 - 1 00:00 - 1 00:00 - 1	00:00 - 10 0:00:00 - 10/9/2016 10/1/2016 Adventur	0/15/2016 @ 0 10/15/2016 @ 6 @ 00:00:00 6 @ 00:00:00 6 @ 00:00:00 re Time 4-con	0:00:00			•		•						Event: /	Adventure 1	Time 4-cor

7 Day View

Event Legend

Legend: Event Playlist Event Event Tag Mismatch Domination Event Critical Alert Event

Events are now color coded.

- Event: a normally scheduled event
- Playlist Event: an event containing a rotation of assets/other playlists
- Event Tag Mismatch: an event that was scheduled but can't be played on this liveboard because of an tag
 mismatch (e.g., this liveboard is near a church, and the ad was for liquor, etc)
- Domination Event: an event that will override the regularly scheduled event
- Critical Alert Event: an event that will override ALL content, including dominations

Tasks you can perform on this page:



- See an event's details: click launch icon on the blue bar of the event
- View a week's schedule: click the 7-day View gray rectangle
- Move forward and backward days: click the arrows on the gray date rectangle
- Move forward and backward weeks: click the double arrows on the gray date rectangles
- Resume Schedule: Resumes the liveboard's schedule if it was overridden or cleared

Editing Existing Events

You can make changes to all aspects of an event even if it is currently running (end date/time, recurrence, even swapping out assets or layouts). You can also delete an event before it ends.

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On this page, you can make changes to an event's scheduling.

NOTE: If you access an event from dashboard > EVENTS, you can't edit the Layout/Asset menu.

You can make changes to any information about the event here.

- To change the layout, click Layout field and select a different layout from the menu.
Technical Operations Portal User Guide

Projects		
Videri's Projects / Ilias' project / A	random video	
Assets Layouts Events Schedules Playils	540mb-restart DonJon facebook-apk instagram Last Words-HD Jacumeae	
State	Nas-vegas Sky-280Mb smile Very Funny Singer Live Performance In Pakistan Video-540mb ZenFarmHouse-3mb	
Layout	llias layout 1.13 ✓ ilias layout ilias layout Copy llias' new playlist	i) @

NOTE: You can't change from using a Layout to using an Asset and vice versa on an existing event.

Be sure to click **Save** to preserve your changes.

Deleting Events

The Rule Builder functionality has created two types of events: manually-assigned events and dynamically-assigned events. Each must be deleted in different ways.

Deleting a Single Event

You must use this method to delete any rule-assigned events.

- From within the Event details page, click Delete (lower right corner), then click OK on the confirmation dialog

Removing All Manually Assigned Events for a Liveboard

NOTE: Running this command removes ONLY manually assigned events from a liveboard. "Removing" an event only removes it from the liveboard's schedule, it does not delete the event from the cloud.

- 1. Select an Organization from **Organization Content** menu.
- 2. Go to dashboard > LIVEBOARDS > [LIVEBOARD] > Schedule.
- 3. Click Remove Manually Assigned Events, then click OK on the confirmation dialog.

Deleting All Events Per Project

NOTE: Running this command deletes ALL events from a project, and cannot be undone.

- 1. Select an Organization from **Organization Content** menu.
- 2. Go to dashboard > PROJECTS > [PROJECT] > Events.
- 3. Click Delete All, then click OK on the confirmation dialog.

Deleting Incomplete Events from All Organizations

An "incomplete" event is an event which is in any other status other than "complete." This command is a way to clean out your database from clutter. This command can only be performed by a user with admin rights.

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NOTE: Running this command deletes all incomplete events, and cannot be undone.

- 1. Go to **dashboard > EVENTS**.
- 2. Click **Delete All**, then click **OK** on the confirmation dialog.

TECHNICAL OPERATIONS PORTAL USER GUIDE

ADMINISTRATION

Managing Users

User Roles

Each user is assigned a role. Each role has different permissions, and can perform different tasks within the Tech Ops Portal. Currently there are two roles: user (default) and administrator.

Permissions Per User	User	Admin
LIVEBOARDS		
View metrics	×	X
Edit liveboard settings	X	X
Assign to/remove from organizations		Х
PROJECTS		
Create/edit/delete	Х	Х
Copy between organizations		Х
LAYOUTS		
Create/edit/delete	Х	Х
Copy layouts between projects	Х	Х
ASSETS		
Upload/edit/delete	×	Х
Copy assets between projects	X	Х
Copy assets between organizations		Х
TAGS		
Assign tags to liveboards, assets, events, playlists	×	Х
Create/edit/delete tags		Х
Create/edit/delete tag categories		Х
REPORTS		
Generate/view reports for events per project, or per liveboard	X	Х
Manage Alerts per liveboard (view/snooze/clear Alerts)	X	Х
DATASOURCES: Create/edit/delete	X	Х
CLOUD: View Cloud Page		Х
EVENTS: Delete Incomplete Events From All Orgs		Х

Dashboard App	pearance Per User
User	Admin
Ops//Portal	Ops//Portal
OUTFRONT smart.media	OUTFRONT
Organization Context Globochem	Organization Context Evil Alice Corp 💠
Levices Liveboards Signage	Devices
Q BROWSE CONTENT	DATA SOURCES
Scheduling	Q BROWSE CONTENT
EVENT GROUPS	
	Administration

CHAPTER



Users Overview Page

- On the dashboard, under Administration, click USERS.

The User overview page shows you at a glance:

- the users in your system
- whether the user is an admin
- how many organizations they are associated with
- when their profile was created and last updated
- when they last logged in.

Users							
ONew					Q		
Showing 14 users of 14							
Email ‡	Last Login	Admin Rights 🖨	Organizations	Updated	Created	Acti	DITS EDIT
aaron.hatuel@videri.c	2 days ago	~	0	2017/3/30, 12:26	2017/2/16,08:28	A	×
admin@videri.com	a month ago	~	0	2017/3/8, 10:12	2017/2/14, 18:48		×
andrew.ip@videri.com	a day ago		0	2017/3/31, 05:13	2017/2/15, 11:51	A ¹	×
andrew.prentice@vid	10 days ago	~	0	2017/3/21, 07:34	2017/3/21,07:34		×
benoit.lavigne@videri	a month ago	~	0	2017/2/16,07:33	2017/2/15,08:45		×
charlene.jaszewski@v	a day ago	~	0	2017/3/31, 10:41	2017/3/16, 11:24	A *	x
ilias.deros- admin@videri.com	21 hours ago	-	0	2017/3/31, 07:17	2017/2/17,07:51	A	×
ilias.deros@videri.com	a month ago		1	2017/2/17, 12:51	2017/2/16,07:34		×
jdooling@videri.com	a month ago		1	2017/3/14,07:50	2017/2/16, 12:35	1	×

Creating a New User

- 1. On the dashboard, under Administration, click USERS.
- 2. In upper left corner, click New.

Email	bob.loblaw@videri.com
First Name	Bob
Last Name	Loblaw
Password	
Confirm Password	

3. Fill in the New User information fields.

NOTE: Password must be between 8 and 30 characters.

4. Click OK.



Editing User Details

After a new user is created, the **User** details page is shown.

You can also access this page by:

— Clicking dashboard > USERS > [USER]

Adding Users to Organizations

Users need to belong to Organizations in order to see and work with projects, assets and layouts.

1. On the **User** detail page, under **Organizations**, click inside the field. The Organizations drop-down menu appears, with a list of available organizations.

hab blables Oreans and		
bob.bloblaw@acme.com		User ID: 1
Email	bub/blobilay activitation	
First Name	Bob	
Last Name	Bloblaw	
Administrator Rights	on	
Active	On Distance of the second seco	
Password	Change password	
Organizations	5	
Aaron		
ACME		
Devens		
Locyops.		
Jesse Org		

2. Click on the Organization to add the user to. The new Organization appears in the **Member** field.



- 3. Repeat this process to add membership to additional organizations.
- 4. Click Save.



Removing Users from Organizations

1. In the **Organizations** field, roll over the organization to remove membership from. An X appears in the corner.



- 2. Click the X. The organization disappears from the Organizations field.
- 3. Click Save.

NOTE: A user can also be added to an organization from within an Organization's detail page.

Making User an Admin

Jser		
bob.loblaw@videri.com		User ID: 400
Email	bob.(ablaw@viderl.com	
First Name	Bob	
Last Name	Loblaw	
Administrator Rights	on 🔲	
Active	on 🔲	
Password	Change password	
ctions		
		🗙 Delete 🛛 🖺 Save

1. On the User detail page, move Administrative Rights slider to ON.

NOTE: When this option is enabled, the **Organizations** section disappears, as a user with Administrator rights belongs to all organizations.

2. Click Save.

Deleting a User

You can delete a user in two ways:

- From the **User** overview page
- From within the **User** detail page

Deleting Users	Inf	ormation								
Deleting a User from the Overview Page	 On the dashboard, under Administration, click USERS. Find the row of the user to delete. 									
		Ops//Portal	Users							
			O New					Q		
		Organization Context	Email \$	Admin Rights 🖨	Last Login	Organizations	Updated	Created	Actie	ons
		Videri 🗘	aaron.hatuel@vider	~	a day ago	0	2016/9/20,09:53	2016/8/9, 11:59	de la	×
			aaronnonadmin@vi		a day ago	1	2016/9/19, 12:19	2016/8/12, 13:04	Can't	×
		Signage	admin@videri.com	~	a month ago	0	2016/8/9, 10:42	2016/3/18,09:19		×
			afolie@babelmedia	*	14 days ago	0	2016/9/19, 10:25	2016/8/23, 15:37	dan a	×
		Q BROWSE CONTENT	alicephieu@gmail.c	~	20 hours ago	2	2016/9/19, 17:12	2016/9/19, 17:11	de la	×
		Scheduling Ø EVENTS	alice.phieu@videri	*	20 hours ago	0	2016/9/20,09:17	2016/8/29,09:37	de la	×
		EVENT GROUPS	andrew.ip@videri.c	~	4 days ago	0	2016/9/20,08:02	2016/3/24, 11:04	de la	×
		Administration	andrew.prentice@v	*	a day ago	1	2016/9/20, 11:10	2016/5/12, 13:08	(A)	×
		🐣 USERS	apple@videri.com	*	4 months ago	2	2016/7/15, 11:35	2016/5/6, 13:30	de la	×
		S ORGANIZATIONS	automation.admin	*	18 days ago	0	2016/9/6, 14:00	2016/8/23, 10:35	Can b	×
		Management	automation.user@v		18 days ago	1	2016/9/2, 15:05	2016/8/23, 10:36	(MA)	×
			beewwenoit@vider	*	Never	0	2016/7/28, 13:29	2016/7/28, 13:29	Sal .	×
			benoit@videri.com	~	a month ago	0	2016/8/19, 14:03	2016/7/28, 13:28	AN	×
	3.	Click the X. Delete this user? admin@videri.com This operation can	not be undone.			× c				
	4.	On the confirmation	n window, clia	ck OK .	Cancel	Ok 2(
Deleting a User from the Details Page	1. 2. 3.	On the dashboard, u Find the row of the On the confirmation	under Admi n user to delet window, clie	nistration e. Click X. ck OK.	I, click USE	ERS.				



Managing Organizations

Viewing Organizations Overview

- On the dashboard, under Administration, click ORGANIZATIONS. The Organizations overview page appears.

Organiza	tions					
ONew				Q		
ihowing 4 organi	zations of 4					
Name \$	Updated	Created	Owner	# Users	Actions	EDIT
Aaron	2017/2/20, 08:15	2017/2/20, 08:15	aaron.hatuel@videri	0	ø ×	
Devops	2017/2/15, 14:55	2017/2/15, 14:55	admin@videri.com	0	ø x	
Jesse Org	2017/2/15,07:37	2017/2/15,07:37	admin@videri.com	1	ø x	
Videri	2017/2/14, 19:01	2017/2/14, 19:01	admin@videri.com	1	ø ×	

Creating a New Organization

- 1. On the dashboard, under Administration, click ORGANIZATIONS.
- 2. In upper left corner, click New.

Name Northern Electric Info Development division	
Info Development division	
Cancel	Ok

- 3. Fill in the Organization NAME and INFO (description) fields.
- 4. Click Save.



Editing Organization Details

To edit an organization's details:

- 1. On the dashboard, under Administration, click ORGANIZATIONS. The Organization Overview page appears.
- 2. Click anywhere on the row of the Organization (or the pencil) to open the Organization detail page.

Northern Electric		26
Name	Northern Electric	
Information	Development division	
Users		
hak lahisu@uidari.com		
CONTRACTOR AND A LOW		
Save & Delete		
		M Delete

Adding Users to the Organization

Users must belong to an organization in order to see and work with its projects, assets and layouts.

1. On the Organization detail page, click inside the **Users** field. The **Users** drop-down menu appears, with a list of users (emails) in alphabetical order.

Maron		1.1
Name	Aaron	
Information	Info	
Jsers		
liias.deros@videri.com		
Jdooling@videri.com		

- 2. Click on the user/email to add. The email appears in the Users field.
- 3. Repeat this process to add more users to the organization.

NOTE: A user can also be added to an organization from within a User details page.

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4. Click Save.

Removing Users from Organizations

1. In the **Users** field, click on the user to remove from the organization. An X appears in the corner.



- 2. Click the X. The user disappears from the **Users** field.
- 3. Click Save.

Deleting an Organization

You can delete an Organization in two ways:

- From the **Organization** overview page
- From within the **Organization** detail page

Deleting Organizations	Information
Deleting an Organization from the Overview Page	 On the dashboard, under Administration, click ORGANIZATIONS. Find the row of the organization to delete, and click the X. Delete this organization? Northern Electric This operation cannot be undone. Cancel Ok On the confirmation window, click OK.
Deleting an Organization from the Details Page	 On the dashboard, under Administration, click ORGANIZATIONS. Click on the row of the organization to delete. Organization <pre></pre>



Managing Liveboards' Relationships to Organizations

Before you add a liveboard to an Organization, be sure you are adding it to the correct one. Since content (assets, layouts, applications, etc.) are associated with projects and organizations, if you later need to reassign a liveboard to another organization:

- it will cease playing the content that is assigned to it;
- your liveboard may become inoperable.

Adding Unassigned Liveboards to an Organization

- 1. On the dashboard, under **Organization Context**, select an Organization to assign devices to from the drop-down menu.
- 2. Under Devices, click LIVEBOARDS. If there are unassigned devices, you will see this message at the top of the page.



3. Click Manage them. The Unassigned Devices page appears.

< Retur	n to assigned dev	Device	S									
AN	o context selecte	d. Please select	t an organizati	ion to assign dev	ices to.				Q			
Show	/ing 20 liveboard	Is of 38 0 sele	ected									
	Name 🔺	Serial Number \$	Alerts T	Connectivity ‡ T	Performance Quality	Network Quality 🖨	Playback Reports 🖨	Pinged 🖨	Location	Tags	Display Type 💠 🝸	Ori \$
•	Acceptance Stub Device	DPC- 100CA1- 144513371		O Offline	Poor	• Weak	Unrespon	No				
	Automated Stub Device	Automated Stub Device		O Offline	Poor	• Weak	Unrespon	No				

- 4. Check the box(es) of device(s) to add to the Organization.
- 5. Click Assign to [organization] at the top of the screen.
- 6. The device is assigned to the Organization (no confirmation dialog).

Removing a Liveboard from an Organization

If you want to move one or more liveboards from one Organization to another, you **must first remove it ("unassign" it)** from its current organization.

WARNING: Once a device is unassigned from its organization, it will stop playing content, and may become inoperable.

1. On the dashboard, under **Organization Context**, select the Organization that contains the device to unassign from the drop-down menu.

- 2. Under Devices, click LIVEBOARDS.
- 3. Check the box(es) for the device(s) you want to unassign. Pull down the batch actions drop-down menu.
- 4. Click Unassign. The warning dialog appears.



5. If you are sure this is what you want to do, click **OK**. The device is removed from the Organization's Devices list, and goes back onto the Unassigned Devices list.

Removing Multiple Liveboards from Multiple Organizations

If you want to move one or more liveboards from one Organization to another, you **must first remove it ("unassign" it)** from its current organization.

WARNING: Once a device is removed from its organization, it will stop playing content, and may become inoperable.

- 1. On the dashboard, under **Organization Context**, select *All.
- 2. Click LIVEBOARDS.
- 3. Check the box(es) for the device(s) you want to remove.

iveboards												
Batch Actions 💌								Q				
Resume Schedule	dected u	nselect										
	srial umber ;	Alerts	Connectivi ≎ ▼	it P erformand Quality	Network Quality	Playback Reports	Pinged \$	Location	Tags	Display Type ≑ ▼	Orientatio ≑ ▼	EDIT
>_ Command Terminal	3101X	3	O Offline	Poor	Weak	Unresp	No			liveboard	Portrait	
– Unassign	3101X	5	Offline	Poor	Weak	Unresp	No					

4. Pull down Batch Actions and select Unassign. The warning dialog appears.



If you are sure this is what you want to do, click OK.
 The devices are removed from the Organizations' Devices list, and they all go back onto the Unassigned Devices list.

Viewing CLOUD Overview Page

To view high level details of all liveboards managed:

- On the dashboard, under **Devices**, click **CLOUD**.



The CLOUD page shows high level information:

- Liveboards online: numbers of liveboards currently online
- Service Ping: the speed the Tech Ops Portal pings the provisioning server

Monitoring Tools

Links to third party monitoring tools.

Playback Topography

- Liveboards Playing Nothing: a liveboard reports back every 10 plays or every 15 minutes (whichever comes first) if it is playing nothing, not even the logo.
- Liveboards Reporting Late Playback: identifies liveboards from which a playback report has not been received in over 15 minutes. This may indicate connectivity issues.



Performing Advanced Operations on Liveboards

There are some basic "operations" commands that tech ops personnel may want to perform on a liveboard, either to do testing, or do a demo. These commands are available in two places: the Command Terminal tab, and from a "pop out" panel on the liveboards overview page.

Command Terminal

This page gives you command terminal access to the liveboard. The buttons at the top represent shortcuts to some common commands.

- To see the entire list of available command terminal commands, click Help.

Device N Organiza ID: 49 Serial Nu XMPP Si {"id":"59	Name: A ation: A umber: tatus: {" 27e73ab	d AaronPortra Aaron DPC-100CA 'current": ba6f4d2605	t 1-1504 5cf2a2	4100: 6","tyj	25 pe":"ad	"]]		TIVITY	NETWO Weak	RKQUALITY	PLAYBACK REPC Unresponsive	DRTS	PINGED
chedule	Advance	ed Monitoring	Alert	•	Wifi	Downloads	Content	Comma	nd Terminal	Screencapture	Profile & Setting	s Abo	ut Device
Common	d Torm	ainal											
_omman	ia terri	nnai		-	_	_							
		and the second s		-									
a Clear	Screen	Set Orientat	ion 🔻		Log Cat	Help	K		-				
🥭 Clear	Screen	Set Oriental	ion 👻		Log Cat								
∂ Clear	Screen	Set Orlental	ion 🔻		Log Cat	€ Help							
& Clear	Screen	Set Oriental	ion 🔫		Log Cat	Help							
∂ Clear	Screen	Set Oriental	ion 👻		Log Cat								
8 Gear	Screen	Set Oriental	ión 🔻		Log Cat	Help							
∂ Clear	Screen	Set Oriental	ion 🔻		Log Cat	Help							
a Clear	Screen	Set Oriental	on 🔻		Log Cat	Help							
🧷 Clear	Screen	Set Oriental	on 🔻		Log Cat	Help							
🥭 Clear	Screen	Set Oriental	on 🔻		Log Cat	Help							
Clear	Screen	Set Oriental	on 🔻		Log Cat	Help							



Table: Basic	Command	Terminal	Commands

Command	Description
Clear	Click to clear current liveboard content and show logo. Liveboard will remain cleared until:
	— midnight (local time)
	 someone changes the current schedule (a new schedule is sent)
	 someone clicks RESUME SCHEDULE on the
	[Liveboard] > Schedules tab
Set Orientation	Sets orientation of liveboard.
	1. Click Set Orientation button.
	2. Select the desired orientation from the pop up menu.
Log Cat	Displays log file information. — Click Log Cat to show current log file.

Batch Actions

Batch actions can be performed on any overview pages. Available batch actions differ per overview page. Batch actions on the liveboard overview page are on a drop-down menu, while other areas have buttons.

Liveboard Batch Actions

- Select one or more online liveboards, and the Batch Actions menu appears above the liveboard list.

Liveboards												
Batch Actions 🐨									Q			
Resume Schedule	de	scted monitorial										
& Clear Screen		Serial Number \$	Alerts T	Connectivity	Performance Quality	Network Quality \$	Playback Reports ‡	Pinged \$	Location \$	Tags	Display Type ‡ ▼	Orientation \$ T ED
Command Terminal		DPC- 430TW1-		O Offline	Poor	Weak	Unrespons	No			liveboard	Reverse Portrait
Manage Tags		170210154										
- Unassign	-	78101X02	1	O Offline	Poor	Weak	Unrespons	No			liveboard	Portrait
	101XO	78101XO	•	O Offline	Poor	Weak	Unrespons	No				
		nac										

Table: Liveboard Batch Ac	tions

Command	Description
Resume Schedule	Resumes any playbacks present on the liveboard's schedule
Clear Screen	Removes all schedules from liveboard
Reboot (Liveboard)	Reboots selected liveboard(s). After reboot the liveboard will display the same content that was playing before reboot.
Command Terminal	Launches the Command Terminal to send commands to multiple liveboards
Manage Tags	Assigns Tags to liveboard(s)
Unassign (admin only)	Removes selected liveboard(s) from their current Organization(s)

Project Item Batch Actions

- Select one or more items, and available Batch Action buttons appear above the item list.

Command	Description	Assets	Layouts	Events	Playlists	Event Groups
Schedule	Creates Event	х			Х	
Tagging	Opens tag dialog to assign or create tags (only admin can create tags)	Х	Х	х	Х	
Delete	Deletes item	х		х	Х	Х
Сору	Copies asset to other organization	х				
Edit	Opens event details (changes applied to selected events)			х		
Clone	Creates duplicate of selected event			х		



TAG MANAGEMENT

CHAPTER



VLE version 1.7 brings a more robust and organized tag managment system. In previous versions, tags could be created by any user, but there was no ability to organize tags, or prevent too-similar tags. There is now a centralized TAG MANAGEMENT section available on the dashboard, and some tag functions are available on pages where tags can be assigned.

- Admin users will be able to create, edit and delete tag categories and tags.
- Both admin and users can assign available tags to and remove tags from liveboards, assets, events, playlists, and datasources

Tag Categories

- Tag Categories organize tags.
- Tag Categories (and tags within) are independent of organizations.
- Tag Categories are created/edited/deleted in the TAG MANAGEMENT area and other areas where tags can be assigned.
- Tag Categories are edited and deleted in the TAG MANAGEMENT area.
- Tag Categories must be one word, with a maximum of 140 characters. Supported characters: -, _, a-z, A-Z and 0-9.
- Tag Categories can be edited without damaging any tag or rule relationships (as each tag category has a backend database ID which remains the same).
- Tag categories are searchable

Creating Tag Categories

Creating tag category (TAG MANAGEMENT AREA)	1. While logg 2. Click Creat	ed in as admin, click TAG MANAGEMENT. e. ag category	
	Name Description	Name Type of tags it will contain	
		Cancel Ok	
	 Enter tag of with a max Click OK. NOTE: If the 	ategory name and description (optional). A tag category name must be one word, imum of 140 characters. Supported characters: -, _, a-z, A-Z and 0-9 . tag category name already exists you will get an error warning.	3

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Asset de	etails		D: 12073
	Name	Adventure Time 1	
	Contract ID	fsfsgfs	
	Tags	frogs	
	Orientation		2064 x 3132
	onenadori	+ Create New Tag	
			M Dalata III Caus
			X Delete 🖹 Save
2. Type tag	name in field. If it	's unique, you'll see the Creat	e New Tag on dropdown m
2. Type tag it).	name in field. If it	s's unique, you'll see the Creat	e New Tag on dropdown m
2. Type tag it).	name in field. If it	's unique, you'll see the Creat e	e New Tag on dropdown m
2. Type tag it).	name in field. If it te a new tag	's unique, you'll see the Creat e	e New Tag on dropdown m
2. Type tag it).	name in field. If it te a new tag	's unique, you'll see the Creat d	e New Tag on dropdown m
2. Type tag it).	name in field. If it te a new tag	's unique, you'll see the Creat	e New Tag on dropdown m
2. Type tag it).	name in field. If it te a new tag	's unique, you'll see the Creat	e New Tag on dropdown m
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2. Type tag it). Crea Enter a spring Select a catk Usa Loca Philig	name in field. If it te a new tag new tag s icategory	's unique, you'll see the Creat	e New Tag on dropdown m

Editing Tag Categories

Editing tag category	 While logged in as admin, click dashboard > TAG MANAGEMENT. Click the row of the tag category to open it. 	
	3. Click the name of the tag category to open the field in edit mode.	
	Locale 🖋	
	Liveboard Location	
	Add a tag	
	Montreal X NYC X	
	 Edit the tag category name as desired, and hit Enter to close the edit pane. description area to edit it also if desired. Changes are saved automatically. 	Click in the

Deleting tag category

You can delete a single tag category, or delete multiple tag categories.

NOTE: Deleting a tag category also deletes any tags it contains and cannot be undone.

WARNING: There is no warning if tags in a category are in use, so be SURE this is what you want to do.

Deleting Tag Category	Information				
Deleting single tag category	 While logged in as admin, click dashboard > TAG MANAGEMENT. Click the tag category name to open the edit pane. Locale Add attage Add Add Add Add Add Add Add Add Add Ad				
Deleting multiple tag categories	While logged in as admin, click dashboard > TAG MANAGEMENT . Check the boxes on the rows of tag categories to delete. Click Delete , then OK to confirm.				

Tags

- Tags can only be created by a user with admin rights.
- Tags must be created within a category.
- Tags must be uniquely named within a category, but you can have the same tags in different categories.
- Tags can't be moved between categories.
- Tags can be multiple words (combinations of alphanumeric characters). Tags have a maximum of 140 characters.
 Supported characters: -, _, a-z, A-Z and 0-9.
- Tags can be created in the TAG MANAGEMENT section, as well as the Tags field in many items (Assets, Playlists, etc.).
- Tags can be edited without damaging any tag or rule relationships (as each tag has a backend database ID which remains the same).
- You will get a notification if you create a tag that is similar to an existing tag within that category.
- Tags are searchable within the tag category.



TAG MANAGEMENT)	 While logge Click the tag 	While logged in as admin, click dashboard > TAG MANAGEMENT . Click the tag category to add tag to. The Tag Category pane will open.		
	Globomo Tags for spring Add a tag Patpat1 × Pitpat2 × spring ×	chemspring g campaign 🖋	g2017 a	
	3. Type tag nar appears.	me in empty fi	eld, then either hit ENTER c	or click green checkmark. The new t
Creating Tags	1. While logge	d in as admin,	click in the Tags field for liv	eboards, assets or playlists.
detail pages)	Asset detail	S		ID: 12073
		Name	Adventure Time 1	
		Contract ID	fsfsgfs	
		Tags	froes	
		Orientation		2054 x 3332
		- A A A A A A A A A A A A A A A A A A A	+ Create New Tag	

Creating Tags for Layouts	 Click PROJECTS > [PROJECT] > LAYOUTS tab. Check the box(es) for layout(s) to assign tags to. Click Tagging.
	Manage the tags shared by the layout
	Globomchemspring2017 > Pitpat2 + Create New Tag

Editing Tags

Edit tags	1.	While logged in as admin, click TAG MANAGEMENT.
	2.	Click the tag category which contains the tag to edit.
	3.	Click on the tag to edit to put it in edit mode.
		<u>Pitpat2</u> ×
	4.	Make changes, and hit enter. Changes are saved automatically.

Deleting Tags

Delete tags Tags can only be deleted by a user with admin rights from the TAG MANAGEMENT area	 While logged in as admin, click TAG MANAGEMENT. Click on the red x to the right of the tag. Tag is deleted. spring X × 			
	NOTE : there is no confirmation dialog when deleting a tag.			

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Assigning and Removing Tags

Tags can be assigned or removed by any user.

Tags can be assigned to or removed from:

- liveboards (Profile & Settings tab)
- assets (details)
- events (details)
- layouts (from overview page batch actions)
- playlists (details)
- datasources (details page after initial saving)

Assigning tags (on a In one of the areas with a tag field, start typing. A list will auto-complete if any of the 1. characters typed match any of the tags.. details page) Asset details ID: 160 pitpatlogo Name Contract ID Contract ID NYC Tags Orientation Zonet > nyc llias > nyc Locations > NYC-7 West × Delete E) Save Locations > NYC-Court Square UC Browser apk Locations > NYC-Grand kpure.com Army Locations > NYC-Grand Control Click on the tag to assign. 2. Click Save. 3. Assigning tags (on an 1. On an overview page, check the box(es) of items to assign tags to. overview page) 2. Click Tagging. A dialog appears pre-filled with any tags assigned to selections. Start typing in the field. The field will show any matching tags. 3. Manage the tags shared by the 2 assets Spring Globomchemspring2017 > Close Save spring 4. Click Save. Assigning tags to layouts 1. Click PROJECTS > [PROJECT] > LAYOUTS tab. 2. Check the box(es) for layout(s) to assign tags to. 3. Click Tagging. A dialog appears pre-filled with any tags assigned to selections. Start typing in the field. The field will show any matching tags. 4. Manage the tags shared by the layout Pit nspring2017 Close Save Pitnat2 + Create New Tag

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5.

Click Save.

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Removing tags from an	1.	Roll over the tag to remove, until an X appears to the right.			
item		Asset details		ID: 18065	
		Name	pitpatlogo		
		Contract ID	Contract ID	-	
		Tags	Globomchemspring2017 > spring X		
		Orientation	square	432 x 448	
				Delete Save	
	2. 3.	Click the X. Tag will disappea Click Save.	r.		
Removing tags from a layout	1. 2. 3. 4.	Click PROJECTS > [PROJECT Check the box(es) for layout Click Tagging . A dialog appe Roll over the tag to remove, u	T] > LAYOUTS tab. (s) to remove tags from. ars pre-filled with any tags assign until an X appears to the right.	ed to selections.	
		Manage the tags shared	d by the layout		
		Globomchemspring2017 > Pitpat2 + Create New Tag	Close Save		
	5.	Click the X, then click Save .			

