



## Web based monitoring, management and control for your automation environment

Now more than ever it is important for broadcasters and service providers to have secure, remote access to their playout environment, and when your system comprises multiple channels and even several playout sites, it becomes critical.

Having an overview of any upcoming issues across the entire system is essential so you can react quickly without needing multiple operators to take action. Pebble Remote enables you to securely monitor, manage and control your channels from inside or outside the normal transmission environment, and its web-based dashboards are configurable to offer the specific functionality you need.

### Create new operational practices and solutions for:

- Multi-site playout operations
- On-premises playout
- Cloud based playout
- Hybrid solutions both on-premises and in the cloud



## Remote your **Control**

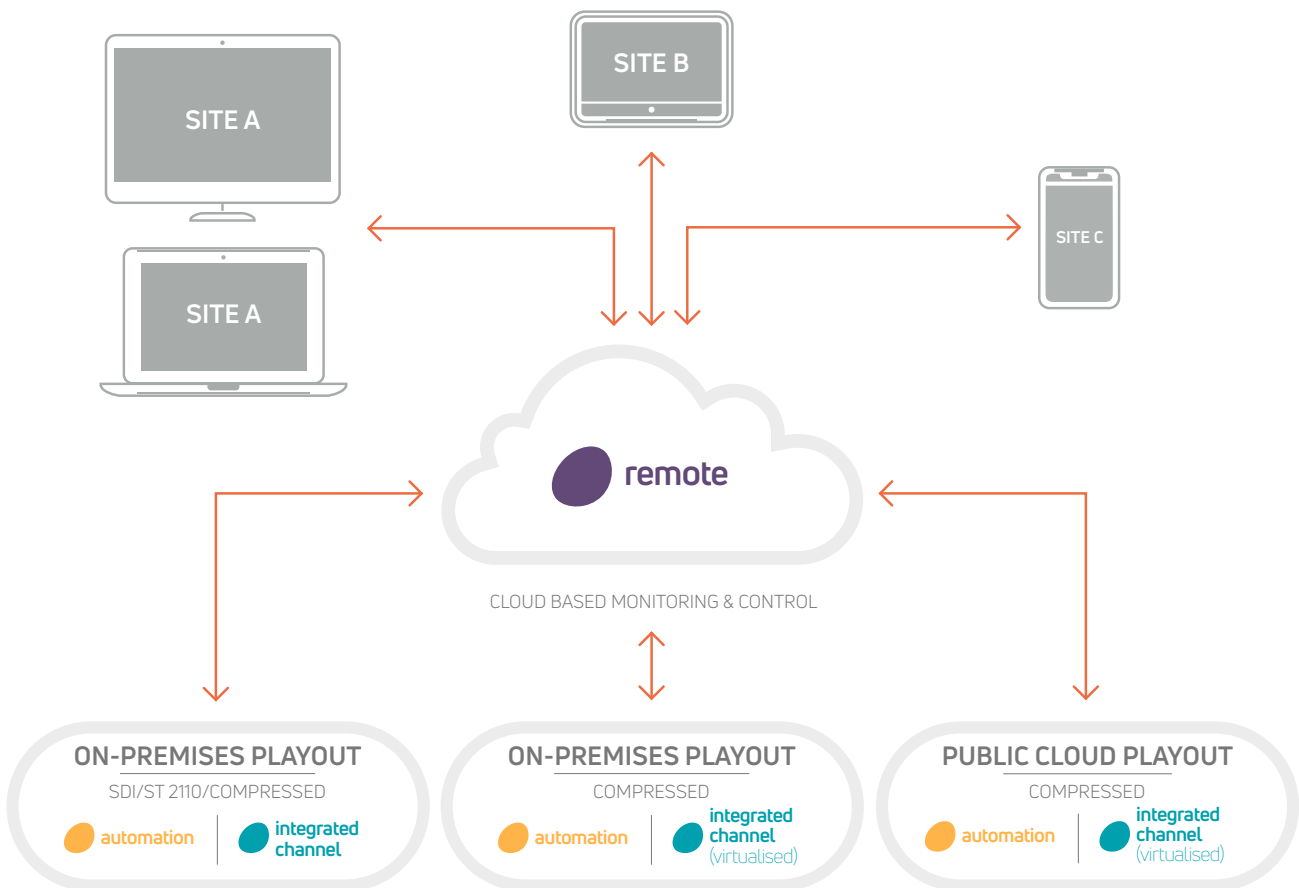
Control your channel playout operations with real-time playlist manipulation, control, and media-aware multi-channel monitoring. Configure dedicated buttons and alerts for key functionality to meet your needs.

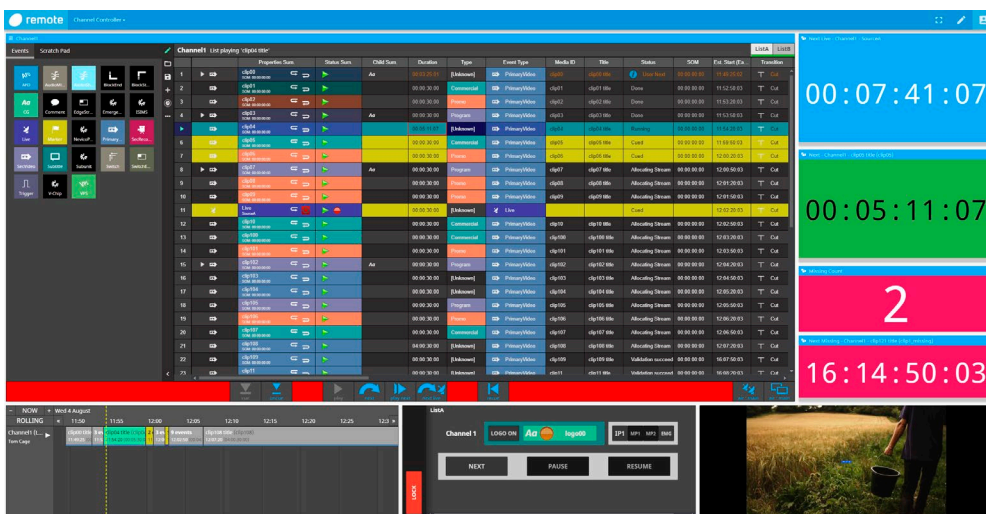
## Remote your **Monitoring**

Monitor all your channels from anywhere, with configurable web-based dashboards. Identify playlist and system errors by exception across single or multiple Pebble Automation systems and monitor low latency outputs from your Pebble Integrated Channel solution.

## Remote **Channel Management**

Manage your content across multiple Pebble Automation systems, stream video from storage, dynamically allocate your ingest ports and automatically resolve ingest scheduling conflicts.





Pebble Remote's web-based GUI

## Key Benefits:

### Accessibility

Secure real-time access anytime, anywhere. Mission-critical control of the playlist, including viewing and editing, far beyond the normal boundaries of the playout facility.

### Productivity

Drives operational efficiencies. Consolidates control across multiple locations and focusses fast on what is important thanks to monitoring by exception.

### Simplicity

Easy to use, easy to manage intuitive interfaces for operators, web security and user-based permissions for peace of mind.

### Powerful Features

Functionality is offered through user-configured widgets which can be grouped together on dashboards. Any dashboard can be shared between users and groups of users and can also be displayed as a 'wallboard' which removes unnecessary browser real estate for optimised delivery to a multiviewer.

# Control

## Channel Controller

Pebble Remote offers a grid view of the Pebble Automation playlist, with the ability for simple editing and manipulation for a specified channel. New playlists can be created, and events can be added and re-ordered within existing playlists. When a playlist is being controlled, an indication is also shown in the Pebble Automation client playlist UI. Exclusive edit mode privileges in Pebble Automation are honoured. Examples of control functions include load / append / save a schedule, cue / play / skip events, metadata edit.

## Channel Viewer

Gives the user a monitoring read-only grid view of a Pebble Automation playlist, without edit or control privileges. The

view is independent from the Pebble Automation view, even though they can look simultaneously at the same playlist.

## Smart Panel

A customisable control surface to show dedicated buttons and alerts for frequently used features. Enables fast reaction on focussed tasks, e.g., display a station ident, clear a sponsor logo, or lock a live source. Also allows the direct management of highly reactive live channels from a remote location.



Smart Panel



Channel Controller





# Monitoring

## Channel Exception Monitor

Provides a consolidated view of all playlist errors which are detected on all or selected channels, across multiple Pebble Automation systems. Displays event errors in configurable order of priority, with the ability to dismiss or snooze alarms. Examples include missing media, timing errors, invalid metadata. Also gives an overview of channel health for all systems, showing the current state of the lists in any selected channel, along with what is currently playing, and whether there are errors or warnings for the on-air event.

## Stream Viewer

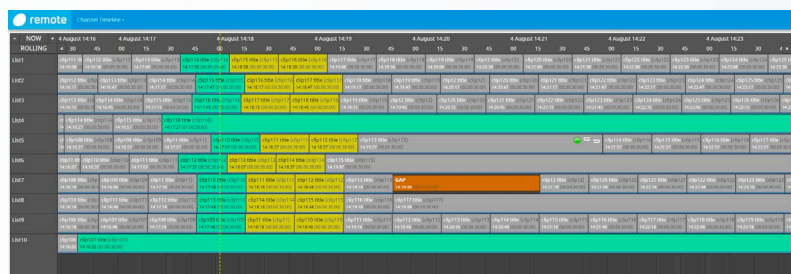
Displays a configurable selection of NDI based IP streaming outputs from Pebble Integrated Channel for monitoring video. These may be geographically separate, and each stream can be labelled by the user for ease of identification.

## Automation Stats

Each stat provides a specific event counter or timer, with the ability to look across multiple channels and systems. Examples include: Missing Media Count, Next Missing, Next Live, Next Live Duration.

## Channel Timeline

Gives a view of one or multiple playout timelines across multiple channels and spanning multiple systems. Event metadata and validation status is displayed in a dynamic scrolling bar view, which shows primary and secondary events.



Channel Timeline

## Business Continuity

Pebble Remote allows the monitoring of remote systems used for disaster recovery of business continuity reasons. Automatic playlist synchronisation between systems and transfers of media from nearline storage can be configured as part of the operation.



# Manage

## Media Inventory

Offers an editable view of the media metadata from all connected Pebble Automation systems. Provides a side-by-side comparison of metadata from multiple systems. Before a global media delete is carried out, checks are performed across all Pebble Automation systems to ensure the media is not currently scheduled or stored in the playlist cache.

## Resource Management

Provides intelligent automatic and efficient allocation of record ports based on Pebble Automation schedule record lists, with a package of widgets to simplify resource management. Achieves more allocations with fewer resources by optimising usage and frees users from complex allocation tasks.

Includes a global timeline (with drag and drop edit), conflict viewer (to highlight scheduling issues which cannot be solved automatically) and direct override control for ingests (cue / record / stop).

## Pre-render Workflows

Integration with Adobe® After Effects® simplifies graphics and promo production for Pebble Automation and Pebble Integrated Channel users. After Effects templates are automatically rendered using dynamic metadata from a Pebble Automation playlist and the resulting files are delivered straight to playout as a single media asset. This avoids the need to convert graphics into specialist proprietary formats and reduces the load on the playout engine. It also allows the use of After Effects render farms to be used for massive scalability.



# Security

## Delivers secure remote access outside the automation LAN:

- Full HTTPS support with TLS encryption, both Pebble Automation to web server and web server to browser
- Protection against brute-force password and username attacks
- Secure password hashing
- All communication uses a bidirectional secure API to the Automation system simplifying the firewall/network deployment
- Pebble Automation can be configured to refuse all actions over the API Interface, so that only monitoring is possible
- Granular administrative permission control for users and groups, including separate view and edit rights for each Widget.



## Deployment

Deployed as a Node.js webserver under Oceans which brings easy upgradeability, unified logging, native cloud technology and scalability. Pebble Remote provides flexibility to current and future installs. It can also be deployed with dedicated COTS server hardware, or be implemented as part of a virtualised infrastructure either on-premises or in the cloud.







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