

VUALTO CONTROL HUB (VCH)

Video orchestration with simple and comprehensive control of all Live, VOD and Live2VOD activity through a central API & GUI.

The VCH video orchestration platform allows broadcasters and content owners to manage all aspects of their video streaming workflow in one central place. Developed specifically for media workflows, the platform brings integration with encoders, streaming servers, workflow rules and DRM into a single set of APIs and GUI. The VCH can be hosted in the cloud, on-premise or operated on a SaaS model. The architecture is modular, allowing further integrations with other third parties such as EPGs and other customer systems. Currently, the platform is integrated with a range of physical and cloud based encoders and the Unified Streaming Platform.

The VCH integrates with VULIVE, VUREPLAY, VUOD, VUDRM and VUPLAY as well as third party applications to provide full control of all aspects of the video delivery. It is used by leading broadcasters, OTT platforms and government services on a global scale.

KEY FEATURES

Live Streaming

Comprehensive workflow management of live channels, from encoder and streaming server configuration to distribution.

VOD Streaming

Supports complex VOD preparation and delivery workflows via our VOD Task Engine tool. Highly scalable, the Task Engine deals with the ingest, packaging and output of VOD, together with call back to client systems.

Live2VOD

Make your live stream available for instant on-demand viewing, or create VOD assets from live streams for longer term archiving. Re-package content with dynamic content replacement, server side ad insertion, content stitching and nVPR for personalisation.

Video Ingest

Centralised ingest to import content from various sources and formats.

CMS & API

Intuitive user interface and easy to integrate REST API.

Integration

Deliver whole workflows or integrate with your system components to leverage existing investment. Highly pluggable architecture to allow use of third encoders, DRM and streaming servers.

Stream Monitoring

Monitor multiple player windows concurrently in the video mosaic monitoring screen.

Social Media Distribution

Publish live streams and VOD clips to social media channels alongside traditional live and VOD distribution.

Video Editing

Frame accurate clipping of live and VOD streams with our browser-based video editing tool.

Metadata Discovery

Manage and search rich metadata, define custom properties and property workflows, and use time coded metadata for chapter points, EPG data and time coded workflows.

BENEFITS

Simplify your video workflows

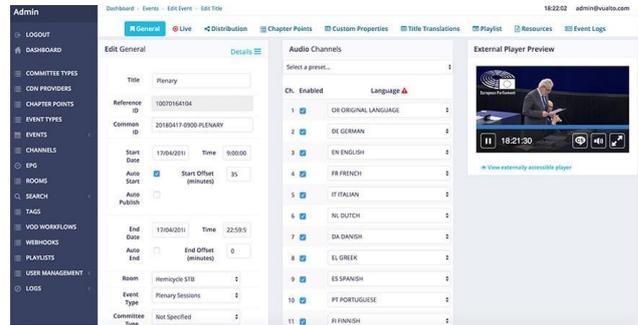
The VCH provides delivery, management and monitoring of large scale event and channel based live streaming, with full support for VOD and Live2VOD workflows.

24/7 NOC Monitoring & Dashboard

VUALTO's in-house NOC team monitors your streams to tackle any potential issues as they happen, ensuring stable, consistent and high-quality streaming. The VCH comprehensive monitoring dashboard gives a live view of stream health, displaying encoder and origin status.

Flexible and future proof

Modular architecture designed for continuous adaptation. The core platform consists of the VCH CMS, API'S and the Task Engine, giving you access to a range of optional modules.

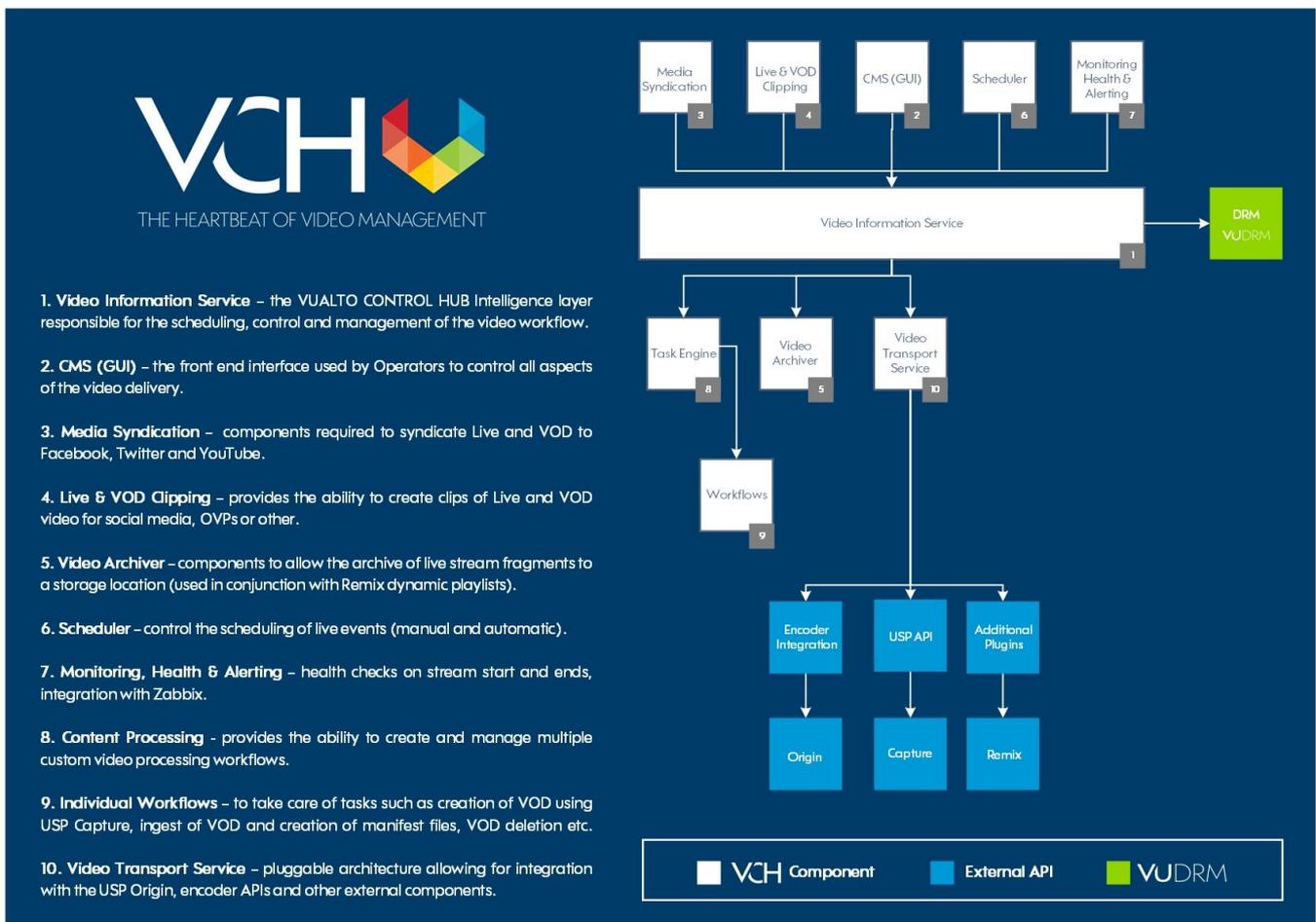


Easy API-based integration

Our easy to use REST APIs come with full API documentation.

Highly scalable

From a single stream to hundreds of channels: our platform will easily scale to suit your requirements.



Live Streaming	<ul style="list-style-type: none"> Configure and manage channel & event-based streaming. Dashboard providing a single place to view and control live events. Schedule live events with auto start and auto publish capability. Stream output preview. Calendar-based EPG to find past and future streaming events. Start or stop offsets on live streams. Turn DRM on or off. Control DVR and archive length settings. Timecode metadata.
VOD Streaming	<ul style="list-style-type: none"> View status of all VOD assets via the VOD status pages. Create, edit metadata and create new custom metadata. Cross reference ID to external systems. Preview VOD assets with or without DRM encryption. Access embed code and streaming URLs. DRM with fast on/off switching.
Live2VOD solutions	<ul style="list-style-type: none"> Live2Clip using frame accurate Clipping Tool to trim and clip VOD assets. Instant VOD for fragment accurate immediate VOD. Rolling Buffer for frame accurate instant archive of entire live stream. Captured VOD for frame accurate VOD stored in asset library.
Stream Health	<ul style="list-style-type: none"> Monitor multiple player windows concurrently. View the comprehensive live stream monitoring dashboard showing encoder and origin status. Access all system logs providing complete audit trail with severity levels. Subscription based Webhooks for event metadata and state changes.
API	<ul style="list-style-type: none"> Client RESTful APIs and SDKs. Per user API keys and throttling Webhooks.
Supported Formats	<ul style="list-style-type: none"> HLS, DASH, HSS.
Encoder support	<ul style="list-style-type: none"> Integration with encoder APIs to orchestrate start, stop and set channel outputs. Supported encoders include: Media Excel Hero and AWS Elemental.
CMS	<ul style="list-style-type: none"> Intuitive web interface. Comprehensive search functionality.
User Access Management	<ul style="list-style-type: none"> Full user and role-based management. Comprehensive permissions matrix. Logging and user-audit logging.
Languages	<ul style="list-style-type: none"> Support for multiple (32+) audio tracks and multiple language metadata. Support for multiple language subtitles and overlays. Supports accessibility WCAG 2.0.
CDN Distribution	<ul style="list-style-type: none"> Configure & manage multiple CDN providers. Add streaming URLs for each CDN. Ability to clear CDN cache.
Video Ingest	<ul style="list-style-type: none"> Ingest Tool for handling queues, schedules, job priorities. Control and manage the VOD ingest workflow including file based and Live2VOD. Package content for HLS, Dash, Smoothstream and stored in one format on disk. MP4 Ingest. Ingest Capture from live or VOD stream.
Video Editing	<ul style="list-style-type: none"> Ad insertion server side (no ad blockers). Server side playlists. Frame accurate clipping tool. Video asset stitching. Syndicate to social media. Thumbnail generation.
Social Media	<ul style="list-style-type: none"> Live stream to Facebook, YouTube, Twitter. Upload VOD assets to Facebook, YouTube and Twitter. Link and embed code sharing of clips from live or VOD. Download for offline playback.
Plugins & Integrations	<ul style="list-style-type: none"> VUDRM Third Party DRM integration. Analytics. Players (Shaka, Bitmovin, THEOplayer). OTT platforms (Comcast, Brightcove, Ooyala).