

# Avedia Server

Avedia IPTV Platform Central Management Server



Avedia Server is VITEC's powerful central server for managing your entire Avedia IP video and digital signage system. Different configurations are available, depending on an organisation's requirements. From one location you can control all devices and applications, create interactive portals, create, manage and publish digital signage, create workflows, and much more.

The Avedia Server comprises the following applications. Please see the back page for details of which applications are available in which configurations.

## User Experience Applications



### ArtioView

- Graphical drag and drop portal creation
- Create uniquely branded, full HD portal layouts with drag-and-drop simplicity
- Choose from a number of different on-screen apps to build portal layouts, including Live TV channels, Video on Demand, Video Sharing, Room Service and Information Pages

### Mailbox

- Create a variety of message templates in different languages to allow for quick and easy messaging
- Templates listed in Smart Control, drag and drop to send
- Retain messages in mailbox
- Create message schedules detailing when messages should be sent

### Mailbox Status

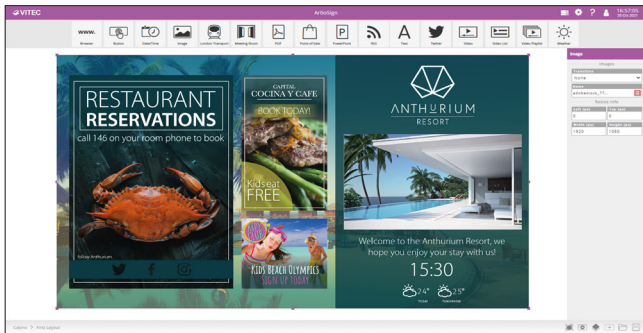
- List sent messages and distribution
- Display read/unread status for each recipient
- Ability to recall sent messages

## Features & Benefits

- Centrally control all key Avedia applications and end-points, including devices such as SmartTVs, using the Smart Control application
- Easily maintain and upgrade devices using the Site Manager application
- Manage licences for devices using the VITEC Content Protection Solution
- Monitor channels to ensure content is being successfully added to the network
- Centrally record channels from gateways and encoders on the IP network
- Create channels using uploaded or recorded content - supports up to 4K UHD and HEVC (H.265)
- Deliver content to suit the viewer's schedule, with Catchup TV and Video on Demand, providing a more convenient and personalised experience
- Customise interactive viewing interfaces with built-in IPTV middleware, which can be tailored for individuals or groups of viewers in different areas of an organisation or venue
- Create, manage and publish eye-catching and engaging digital signage with built-in ArtioSign to enhance communications across a range of industries, including corporate & finance, hospitality, stadiums, education and more
- Create sequences of actions (power on, set volume/channel, publish ArtioSign signage playlists) that are carried out frequently with the Workflows application

## Digital Signage Applications

### ArtioSign



- Graphical drag and drop playlist/signage schedule creation
- Create uniquely branded, full HD digital signage layouts
- Choose from a number of different on-screen elements to build digital signage layouts, including Images, Video, Text, Weather and Date/Time
- Create signage for Moments of Exclusivity
- Advanced user/profile permissions for multi-user access and group control
- 4K or HD, landscape and portrait layouts
- Configure layouts to display on certain days, dates and times
- Approver user profile ensures signage consistency and accuracy
- High Availability (licensed separately, P/N 06048) provides resilience in case of primary server downtime
- Meeting Room Summary available as a purchased option (P/N 06051)
- Add up to two video elements in a layout

### Schedules

- Schedule when specific content should be displayed, and when signage displays should be powered off and on
- Create signage schedules to combine playlists into a 24 hour/7 day repeating schedule
- Schedule recurring content (messages and workflow triggers)

## Channel Applications

### Channels

- Reduce disruption - specify one or more alternative channels to play in the event of stream failure

### Channel Announcer

- Enable VITEC IPTV devices to discover third-party channels
- Change the SAP address for announced channels

### EPG Server

- Collect and manage the channel data used to display Program Guides within ArtioView
- Aggregate EPG data from VITEC head end and XML sources
- Associate imported XML data with any channel
- Create organisation-specific EPG

## Video on Demand Applications

### Asset Editor

- Edit recordings and media assets
- Video preview of assets and recordings and graphical point and click selection for download or trimming

### Play

- Create and manage custom IPTV channels to stream media from the Avedia Server (up to 550 Mbps depending on bandwidth option)
- Drag and drop interface to set up assets for play channel
- Default asset feature ensures channel always present for end users

### Recorder

- Create and manage recordings from network channels (up to 400 Mbps depending on bandwidth option)
- Create instantaneous, scheduled or continuous recordings

### Transfer

- Asset and recording transfer control options
- Transfer recordings automatically to Avedia Servers, FTP servers or file shares

### Video on Demand

- Manage media assets for on-demand availability up to 550 Mbps (depending on bandwidth option) using HTTP Live Streaming (HLS)

## Control and Event Applications

### Smart Control

- Graphical control and management of viewing end-points
  - VITEC 93-, 94- and 95-series Media Players
  - Samsung, LG, Philips and Sony hospitality SmartTVs (ArtioView)
  - Samsung, LG and Philips LFDs (ArtioSign)
- Option to view/control viewing end-points on a floor plan view
- Apply functions to individual or groups of smart displays
- Searchable log of successful, failed and timed out commands
- Grouping and drag-and-drop based management
- Search for groups, commands/workflows, portals, messages, playlists or signage schedules
- Smart phone support added to Smart Control mobile application

### ArtioSign

- Limit users or profiles to editing or publishing only specific ArtioSign playlists/signage schedules to certain control groups/individual devices
- Limit users or profiles to viewing certain channels
- Publish any listed playlist or signage schedule to all or to selected control groups/individual devices
- Back up all playlists and signage schedules, and download/upload playlists and signage schedules to share between servers
- Clear playlists from a device or group of devices

## ArtioView

- Ability to specify portal permissions to limit portal access
- Back up all portals, and download/upload portals to share between Avedia Servers
- Send or schedule instant or pre-formatted messages to selected ArtioView portals, and specify message priority
- Schedule individual or recurring messages
- Ability to permit a user to send messages but deny access to other functionality
- Limit users or profiles to viewing certain channels
- Clear portals/channel favourites from a device/group of devices

## Workflows

- Specify and save an action, or sequence of actions, as a workflow
- Display Moment of Exclusivity signage on a device or group of devices for a specified period of time
- Create workflow triggers to automatically trigger a sequence of events when an event takes place, and specify priorities
- Create schedules for individual or recurring workflow triggers
- Create sticky triggers for emergency events, and mute displays/block remote controls for the event duration
- Apply workflows to devices using Smart Control
- Restore state of device to previous pre-workflow state
- Use groups to process several triggers simultaneously
- Create trigger decks for a quick and convenient way to activate triggers and groups of triggers

## Chromecast Control

- Centrally manage Chromecast usage and view usage statistics and status
- Support for Chromecast Gen4 with Google TV

## Feeds

- Create a weather feed for a group of destinations

## Trigger Decks

- Access trigger decks created using the Workflows application.
- Launch workflows or workflow groups from a PC or mobile device

## Server & System Applications

### Site Manager

- List, order, filter and search for devices, groups, configuration files and firmware
- Add devices manually if required
- Apply licences (HTTP), firmware updates, name and location changes to VITEC devices and export/import device configuration
- Download VITEC IPTV device estate details (CSV)
- Create a Location view using a floor plan and add devices

### Asset Manager

- Import and manage assets for ArtioSign and ArtioView

### Channel Monitor

- Monitor the status of IPTV channels on the network
- Automatic discovery of channels using SAP
- Real-time view of channel status
- Monitor channel performance including Bitrate, Uptime, Continuity, TEI & Sync errors

### Director

- Monitor and manage legacy VITEC IPTV devices
- Automatic discovery of legacy VITEC devices
- Real-time view of device status
- Configuration of individual/multiple devices
- Upgrade firmware on other devices
- Export/import configuration
- Factory reset
- TFTP Server
- Control of individual/multiple media players to:
  - Change channel
  - Change display mode
  - Change volume
- Scheduled configuration/control of the above features

### Feature Manager

- Manage and control licensing to enable extra features precisely as required (when deployed by FTP)

### Logger

- Capture historical IPTV system information for performance and event monitoring
- View detailed logs of server activity
- Control Avedia Server syslog function
- View logs from external devices

### TFTP Server

- Store and serve files such as firmware and other resources for IPTV devices

### High Availability

- Ensure that ArtioView portals, ArtioSign playlists/signage schedules and Video on Demand assets/playlists continue to operate in the event of the active Avedia Server becoming unavailable or failing
- For use with Avedia Server, ArtioSign, ArtioView, Avedia Transcoder and Origin Server platforms
- Deliver continuous streaming of live TV and video in environments where uninterrupted service or access to information is key
- Send email alerts when cluster status changes

## Permissions

- Provides a 360 degree view of access permissions. Administrators can view:
  - which items users/profiles can access
  - which users/profiles have access to individual items
- Used as part of the VITEC Content Protection Solution to add channels to groups, and groups to channels

## System

- Monitor and manage the core functions of the Avedia Server
- Monitor and control services running on the Avedia Server
- Configure network settings and view network statistics
- Carry out Avedia Server system maintenance such as upgrades or import/export configurations

## Users

- Create and manage Avedia Server users, configure access permissions including security and Single Sign On (SSO) for Avedia Server and Active Directory users:
  - Create and edit user accounts
  - Set up profiles for groups of users
  - Configure Active Directory (LDAP) integration and Single Sign On settings
  - Set up device and user access control
  - Configure HTTPS secure server and Single Sign On access

## Web Server

- Upload and host a simple website on the Avedia Server to provide information to end users

## Property Management System Integration

### PMS Link

- Provides Avedia Server compatibility with the following industry-standard Property Management Systems:
  - Agilysys Visual One
  - Oracle OPERA (Formerly MICROS-Fidelio)
  - Oracle OPERA Cloud
  - Infor HMS
  - Oracle Hospitality Cruise (Formerly Fidelio Cruise)
  - protel On-Premise
  - SAPI
  - Cloud Solutions VIDA Hospital Information System (HL7)

## Technical Specifications

### System

- Avedia Server software based on Rocky 9
- System access via command line only for ease of use, performance and security

### Management

- HTTP/HTTPS web interface for Avedia Server administration  
Supported browser: Chrome®
- Access the VITEC Server Admin Program using SSH or serial RS232 port on c15xx series platforms

### Network

- Linux IPv4 stack
- DHCP or Static IP addressing (recommended)
- Supports HTTP proxy
- Ethernet link aggregation & redundancy
- Firewall enables separate streaming and administration/application interfaces

### Protocols

IP (RFC 791), TCP (RFC 793), ARP (RFC 826), DNS (RFC 1035), DHCP (RFC 2131), ICMP (RFC 792), TFTP (RFC 1350), HTTP (RFC 616), SYSLOG (RFC 3164), NTPv3 (RFC 1305), NTPv4 (RFC 5905), SAP (RFC 2974), SDP (RFC 4566), SSH (RFC 253), SNMP (v1, v2c -RFC 1901), SSDP, LDAP (RFC 4511)

## Ordering Information (P/N)

- 18347 Avedia Server m8105 Software Licence
- 18348 Avedia Server m8115 Software Licence
- 18349 Avedia Server m8365 Software Licence

## Available Avedia Server Configurations

### m8105

In addition to a comprehensive set of IPTV system management applications, the Avedia Server m8105 provides a basic ArtioSign digital signage platform. ArtioSign enables the creation, management and display of digital signage on SmartTVs and VITEC Media Players as part of a VITEC IPTV system.

### m8115

The m8115 offers additional functionality on top of the basic m8105 module. m8115 adds automatic video format import conversion as well as the Channels and Workflows applications to simplify creation and management of digital signage content.

### m8365

The Avedia Server ArtioView m8365 is the complete solution, enabling you to create and deliver digital signage and viewer portals with the supporting system integration and content and user management tools, all on a single platform.

### In the Box

Each Avedia Server configuration ships with a Memory stick containing an Avedia Server licence for specialised applications and Product Feature licences

The following table contains a breakdown of which applications are included in each configuration.

Application	Avedia Server Core Software Modules		
	m8105	m8115	m8365
<b>User Experience Applications</b>			
ArtioView			✓
Mailbox			✓
Mailbox Status			✓
<b>Digital Signage Applications</b>			
ArtioSign	✓	✓ <sup>1</sup>	✓ <sup>1</sup>
Schedules	✓	✓	✓
<b>Channel Applications</b>			
Channels		✓	✓
Channel Announcer			✓
EPG Server			✓
<b>Video on Demand Applications</b>			
Asset Editor			✓
Play			✓
Recorder			✓
Transfer			✓
VoD			✓
<b>Control and Event Applications</b>			
Smart Control	✓	✓	✓
Workflows		✓	✓
Chromecast Control			✓
Macro Builder			✓
Macro Triggers			✓
Projector Control			✓
Feeds			✓
Trigger Decks		✓	✓
<b>Server and System Applications</b>			
Site Manager	✓	✓	✓
Asset Manager	✓	✓	✓
Channel Monitor	✓	✓	✓
Director	✓	✓	✓
Feature Manager	✓	✓	✓
High Availability <sup>2</sup>		✓	✓
Logger	✓	✓	✓
Permissions	✓	✓	✓
System	✓	✓	✓
TFTP Server	✓	✓	✓
Users	✓	✓	✓
Web Server	✓	✓	✓
<b>Property System Management Applications</b>			
PMS Link			✓

<sup>1</sup> Includes ArtioSign file conversion. <sup>2</sup> Separate licence required.