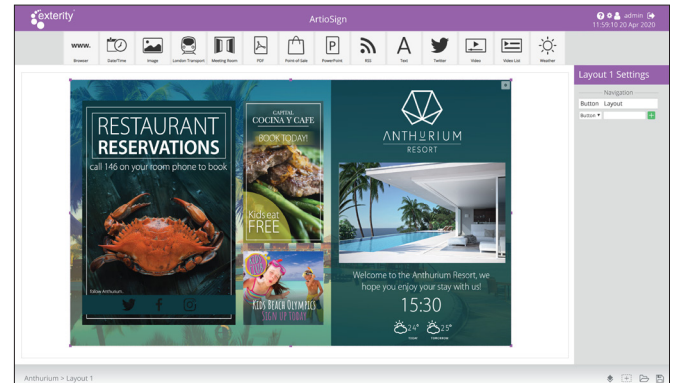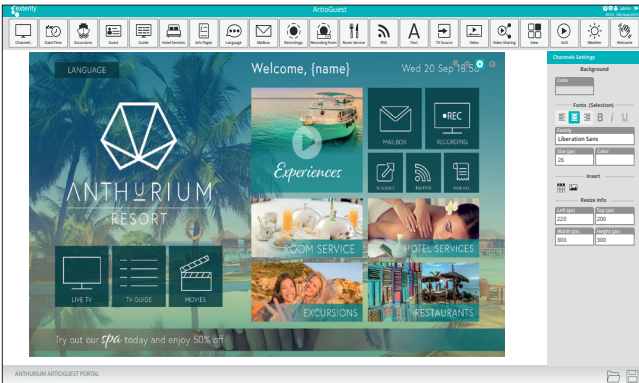AvediaServer is Exterity's powerful central server for managing your entire IP video and digital signage system. Different configurations are available, depending on an organisation's requirements. In one location you can control all devices and applications, create interactive portals, create, manage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

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

User Experience Applications

▶ ArtioGuest

- Graphical drag and drop hospitality portal creation
- Create uniquely branded, full HD portal layouts with drag-and-drop simplicity
- Choose from a number of different on-screen elements to build portal layouts:

  - Live TV channels
  - Programme Guide
  - Video on Demand
  - Channel recording
  - Video sharing
  - Video on page
  - Information pages
  - View (create layers)
  - Room service
  - RSS feeds
  - TV apps

  - Guest (PMS required)
  - Language selection
  - Welcome message
  - Time/Date
  - Excursions (PMS required)
  - Mailbox
  - Weather

✉ 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

- Lists sent messages and distribution
- Displays read/unread status for each recipient
- Ability to recall sent messages

• Digital Signage Applications

▶ ArtioSign

- Graphical drag and drop playlist/campaign creation
- Create uniquely branded, full HD digital signage layouts
- Choose from a number of different on-screen elements to build digital signage layouts:
- Create signage for Moments of Exclusivity

  - Browser
  - Date/Time
  - Images
  - London Transport (licensed separately artio-lic-ldn)
  - PDF & PowerPoint import
  - Point of Sale (licensed separately artio-lic-pos)
  - Room Booking
  - RSS feeds (scrolling)

  - Sports Statistics (licensed separately: artio-lic-sports)
  - Text (static, multi-line, scrolling)
  - Twitter
  - Video (up to and including 4K)
  - Video List
  - Video Playlist
  - Weather

- Advanced user/profile permissions for multi-user access and group control
- 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: avsrv-1009) provides resilience in case of primary server downtime
- Meeting Room Summary available as a purchased option (artio-lic-msum)
- 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 campaigns to combine playlists into a 24 hour/7 day repeating schedule

Channel Applications

Channels

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

Channel Announcer

- Enable Exterity 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 ArtioPortal and ArtioGuest
- Aggregate EPG data from Exterity 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 AvediaServer (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 200 Mbps depending on bandwidth option)
- Create instantaneous, scheduled or continuous recordings

Transfer

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

Video on Demand

- Manage media assets for on-demand availability to any client devices through ArtioPortal 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
  - Exterity 93-, 94- and 96- series Media Players
  - Samsung, LG, & Sony hospitality SmartTVs (ArtioGuest)
  - Samsung, LG and Philips LFDs (ArtioSign)
- 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 campaigns
- **ArtioSign**
  - Limit users or profiles to editing or publishing only specific ArtioSign playlists/campaigns to certain control groups/individual devices
  - Limit users or profiles to viewing certain channels
  - Publish any listed playlist or campaign to all or to selected control groups/individual devices
  - Back up all playlists and campaigns, and download/upload playlists and campaigns to share between servers
- **ArtioGuest**
  - Ability to specify portal permissions to limit portal access
  - Back up all portals, and download/upload portals to share between AvediaServers
  - Send or schedule instant or pre-formatted messages to selected ArtioGuest portals, and specify message priority
  - Ability to permit a user to send messages but deny access to other functionality
  - Limit users or profiles to viewing certain channels

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 sticky triggers for emergency events, and mute displays/block remote controls for the event duration
- Apply workflows to devices using Smart Control

Chromecast Control

- Centrally manage Chromecast usage and view usage statistics and status

Macro Builder

- Create and manage a library of actions (macros) to be performed on IPTV devices by specified triggers

Macro Triggers

- Define and manage events triggering macros or sequences of macros
- Apply macros to one or more devices
- Macros can be triggered using the web interface, configurable third party traps or the AvediaServer API

Projector Control

- Graphical control and management of data projectors
- Grouping and drag-and-drop based management
- Link projectors to AvediaPlayer 93-series Media Players
- Initiate actions such as source change on single or groups of projectors
- Automatic monitoring of items such as bulb and filter life, with early warning when bulbs / filters need replaced
- Support for PJLink compatible projectors from a wide range of manufacturers

Server and System Applications

Asset Manager

- Import and manage assets for ArtioPortal, ArtioSign and ArtioGuest

Site Manager

- List, order, filter and search for devices, groups, configuration files and firmware
- Add devices manually if required
- Apply firmware updates, name and location changes to Exterity devices and import/export device configuration
- Download Exterity IPTV device estate details (CSV)

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 Exterity devices
- Automatic discovery of Exterity IPTV 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)

High Availability

- Ensure that ArtioGuest portals, ArtioSign playlists/campaigns and Video on Demand assets/playlists continue to operate in the event of the active AvediaServer becoming unavailable or failing
- For use with AvediaServer, ArtioSign, ArtioGuest, AvediaStream 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

Logger

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

SECUREMEDIA Link

- Link to an ARRIS SECUREMEDIA® server

System

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

TFTP Server

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

Users

- Create and manage AvediaServer users, configure access permissions including security and Single Sign On (SSO) for AvediaServer 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 AvediaServer to provide information to end users

Property Management System Integration

PMS Link

The PMS Link application provides AvediaServer® compatibility with the following industry-standard Property Management Systems:

- Agilysys Visual One
- Oracle OPERA (Formerly MICROS-Fidelio)
- Oracle OPERA Cloud
- Oracle Hospitality Cruise (Formerly Fidelio Cruise)
- protel On-Premise
- innQuest roomMaster
- SAPI

Technical Specifications

System

- AvediaServer software based on CentOS 7
- System access via command line only for ease of use, performance and security

Management

- HTTP/HTTPS web interface for AvediaServer administration Recommended browser: Chrome® Contact support@exterity.com for version information
- Access the Exterity Server Admin Program using SSH or serial RS232 port on c1500 series platforms

Network

- Linux IPv4 stack
- DHCP or Static IP addressing (recommended)
- Supports HTTP proxy
- Ethernet link aggregation
- Ethernet link 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 (RFC1350), HTTP (RFC 616), SYSLOG (RFC 3164), NTP (RFC1305), SAP (RFC 2974), SDP (RFC 4566),
SSH (RFC 253), SNMP (v1, v2c -RFC 1901), SSDP,
LDAP (RFC 4511)

Available AvediaServer Configurations

m8105

- In addition to a comprehensive set of IPTV system management applications, the AvediaServer m8105 provides the ArtioSign digital signage platform. ArtioSign enables the creation, management and display of digital signage on SmartTVs and Exterity Media Players as part of an Exterity IPTV system.

m8115

- Identical to the m8105, but including file type import conversion.

m7205

- The AvediaServer m7205 includes ArtioPortal® - a middleware service providing a customisable user interface for Exterity Media Players and PC/Mac clients. AvediaServer m7205 also adds extra functions to customise system control and client interaction.

m7305

- The AvediaServer m7305 is the complete IPTV system server. Record and stream content, provide video on demand, middleware on a variety of platforms, and manage events and devices.

m8365

- The AvediaServer ArtioGuest m8365 is the complete hospitality solution, enabling you to create and deliver digital signage and hospitality portals with the supporting system integration, and content and user management tools, all on a single platform.

In the Box

Each AvediaServer configuration ships with the following:

- Memory stick containing AvediaServer licence for specialised applications and Product Feature licences
- EULA document
- Configuration sheet

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

Application	AvediaServer Core Software Modules				
	m8105	m8115	m7205	m7305	m8365
User Experience Applications					
ArtioGuest					✓
Mailbox					✓
Mailbox Status					✓
Digital Signage Applications					
ArtioSign	✓	✓¹	✓¹	✓¹	✓¹
Schedules	✓	✓¹	✓¹	✓¹	✓¹
Channel Applications					
Channels		✓	✓	✓	✓
Channel Announcer			✓	✓	✓
EPG Server			✓	✓	✓
Video on Demand Applications					
Asset Editor				✓	✓
Play				✓	✓
Recorder				✓	✓
Transfer				✓	✓
VoD				✓	✓
Control and Event Applications					
Smart Control	✓	✓	✓	✓	✓
Workflows		✓	✓	✓	✓
Chromecast Control					✓
Macro Builder			✓	✓	✓
Macro Triggers			✓	✓	✓
Projector Control			✓	✓	✓
Server and System Applications					
Site Manager	✓	✓	✓	✓	✓
Asset Manager	✓	✓	✓	✓	✓
Channel Monitor	✓	✓	✓	✓	✓
Director	✓	✓	✓	✓	✓
Feature Manager	✓	✓	✓	✓	✓
High Availability²		✓			✓
Logger	✓	✓	✓	✓	✓
SecureMedia Link	✓	✓	✓	✓	✓
System	✓	✓	✓	✓	✓
TFTP Server	✓	✓	✓	✓	✓
Users	✓	✓	✓	✓	✓
Web Server	✓	✓	✓	✓	✓
Property System Management Applications					
PMS Link			✓²	✓²	✓

¹ Includes ArtioSign file conversion.   ² Separate licence required.