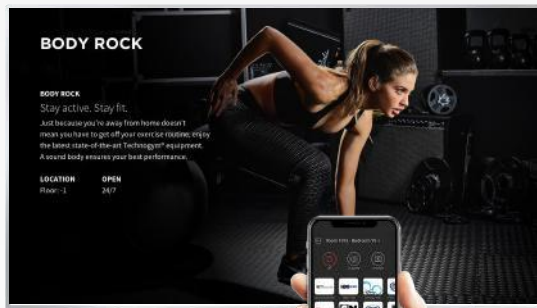




Cloud or On-Prem Full Interactive  
IPTV system



SAMSUNG



PHILIPS

# VDA iTV

## Cloud or On-Prem Full Interactive IPTV system

1. **Inform, impress and increase revenue** with our TV platform and at the same time reduce staff costs via digitalization
2. Increase revenue with **room service ordering** integrated with PMS, POS, email and the kitchen printer
3. **Central management for equipment and content** to simplify support and reduce maintenance costs
4. Supports **all major hospitality TV vendors**, allowing easy migration from other platforms to increase the lifetime of the Hotel Room TVs
5. **Guest Content Access:** Streaming services from Netflix, YouTube, Bluetooth, Spotify and more, using built-in TV Apps or integrated with Chromecast (Gen3 and Gen4)
6. **Cloud or On-premise**, highly resilient, scalable and cost-efficient, fitting any type/size of property, anywhere in the world
7. Integrated with **major PMS vendors** for service optimization: Messages, bill on TV, and express checkout
8. **Content creation services** ensuring an engaging brand design

# VDA iTV is...



For any Signal



Cloud or On-Premise



For any network infrastructure



Compatible with any TV



Open to integrations



Tailored made  
content

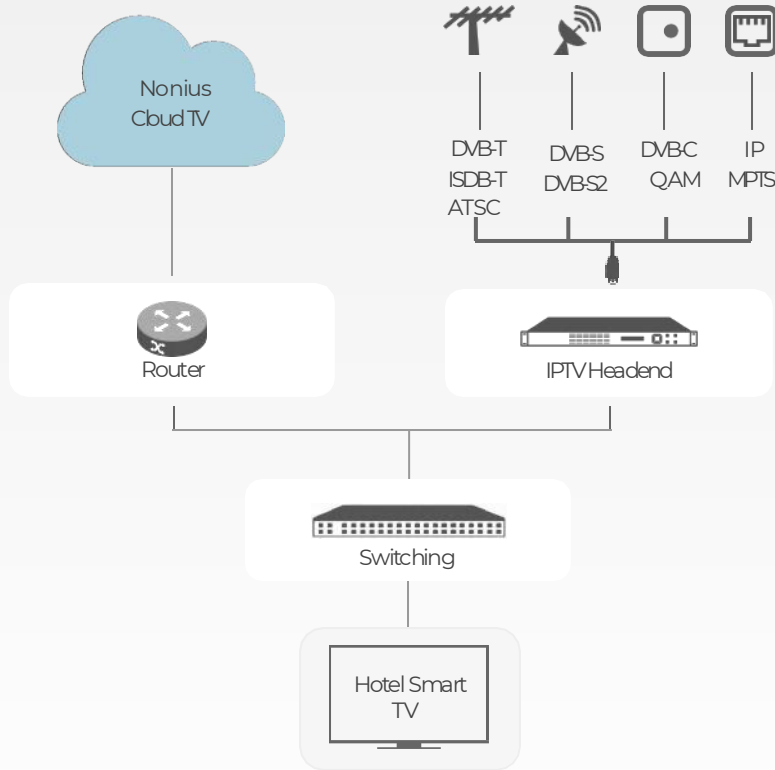


Feature rich

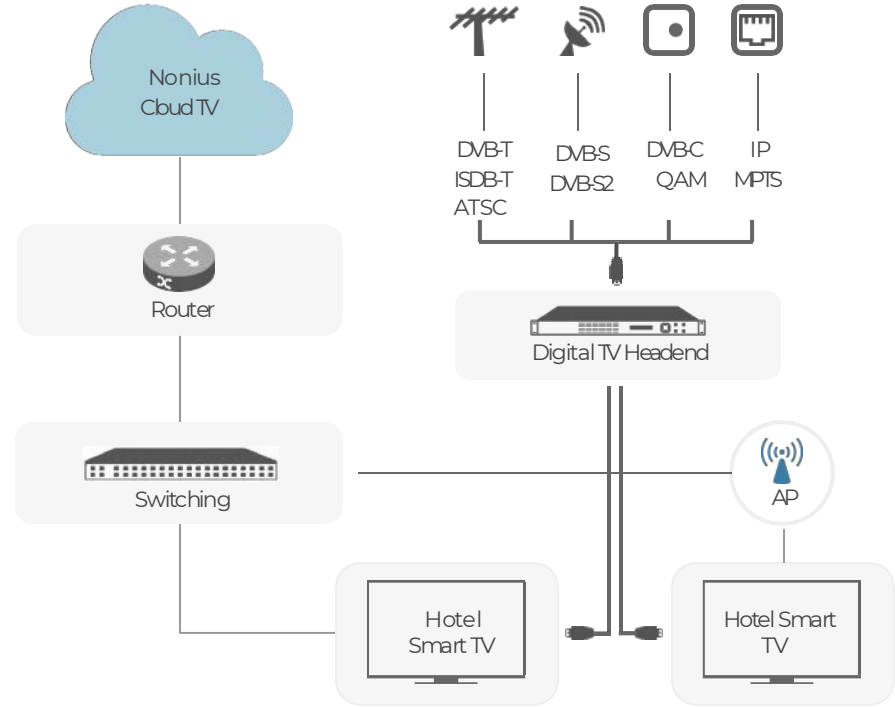


Measurable

# Any signal across any infrastructure

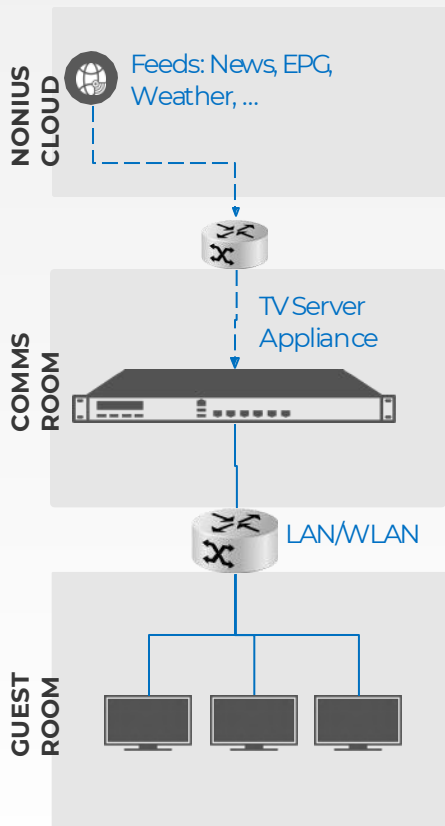


1. Fully IP on LAN

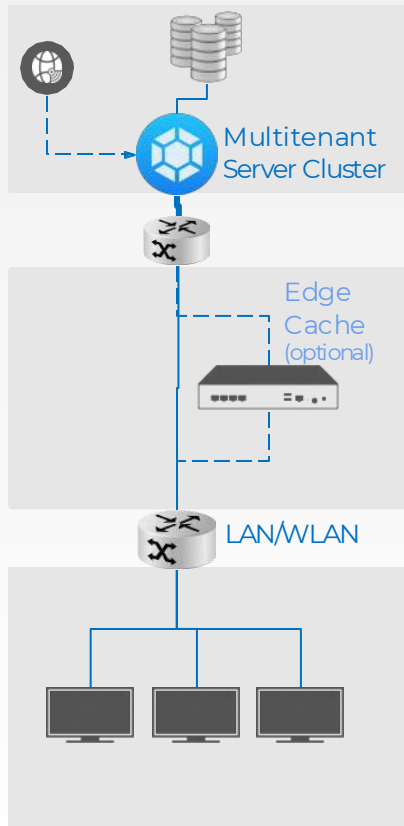


2. Chans on Coax and Portal on LAN or WLAN

## VDA iTV On-Premises Edition



## VDA iTV Cloud Edition



# VDA iTV

## Cloud, Edge or On-premises

1. **Cloud Deployment:** Is enhanced with an Edge Cache to improve bandwidth and operational efficiency
2. **On-Premises Deployment:** Features a high-availability cluster, ensuring unmatched reliability and robustness, especially suited for large-scale properties
3. **Enhanced Security Across Platforms:** High-level data security and privacy in both cloud and on-premises setups, allowing hotels to enforce security protocols
4. **Dependable in Remote Areas:** The on-premises option provides more reliable service in extremely remote locations or on ships
5. **Eco-Friendly Cloud Operations:** The cloud model emphasizes sustainability, helping to reduce energy usage and environmental impact, resonating with eco-conscious guests and cutting down on operational costs
6. **Cost-Efficient Cloud Maintenance:** In markets where local IT or our field support costs are high, the cloud option could offer lower maintenance expenses

# Compatible with any TV

## SET-TOP BOX



## HOTEL SMART TV



# Tailored to meet Hotel Brand Design

- High Definition guest TV Interface with a superior design reflecting the Hotel brand
- Promote the Brand on the Main Menu with any combination of video, images, and text



# Multiple Classes Based

## One IPTV system, unlimited customizations

Customize different areas on:

- Design
- Backgrounds
- System menus
- Content
- Features
- Guests Services
- Hotel information
- Channels playlists
- Welcome message



ONE MANAGEMENT  
SYSTEM

DELUXE ROOM



FIRST FLOOR



FIRST FLOOR

ROOM 1



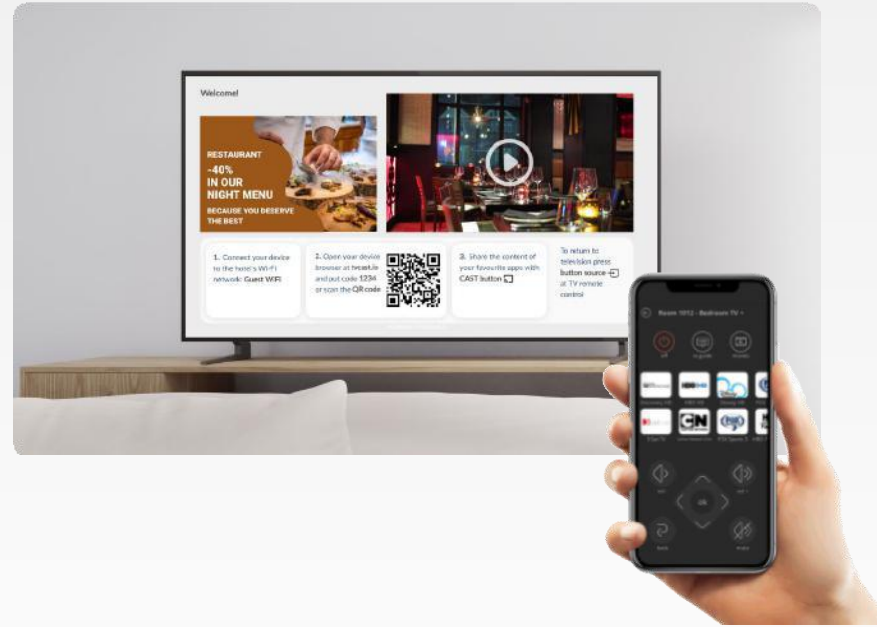
ROOM N...



# TV Connectivity

## Impress your Guest

- Cast guest's own content (e.g. Netflix, YouTube, Spotify, Google Photos)
- Integration with Nonius Mobile Guest App and API for 3rd party apps and in-room tablets
- Control the TV through guest's own device
- Bluetooth audio streaming
- Nonius provides an open API, allowing easy integration with all the major vendors on room automation, PMS, POS and TV.





Maestro



AMADEUS

MEWS



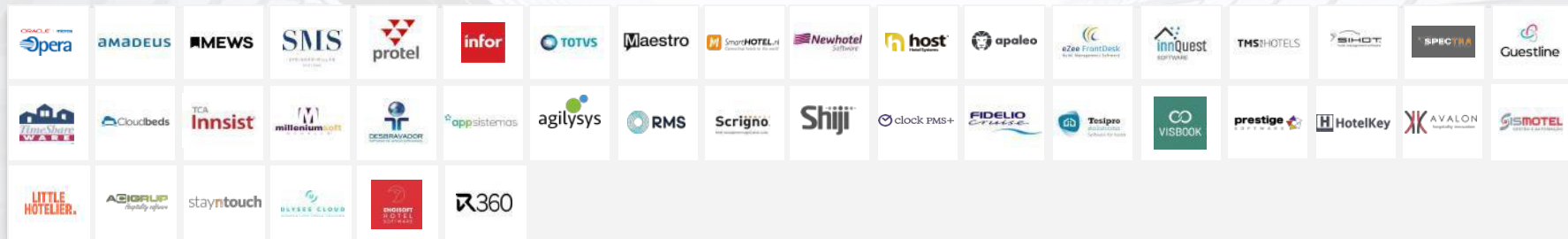
# PMS Integration

## 90+ PMS Systems integrated

- Supports on Check-In / Check-Out process
- Products and services directly charged to the guest bill
- Customized welcome message
- Guest profile identification
- Automatic language selection based on the guest profile
- Housekeeping room status information
- TV Wake-up Call alarm clock

# Integration Partners

## PMS



## Prenotazione di attività e servizi



## APIs & Middleware



## Assistenza sanitaria



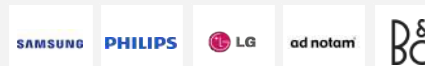
## POS



## Controllo della stanza



## Smart TVs



# Reduce costs while helping the environment



## Turns the TV off at Check-out

With the PMS integration, the TV automatically turns on at check-in to welcome the guest and turns off at check-out to save energy.



## Save on paper collateral

Remove the need for printed collateral, saving on printing costs and paper, by providing information about the hotel and promotions on the TV - a large high-definition format.



## Reduce staff operations

Enable guest self-service to release staff from mundane tasks.

- Express check-out
- Concierge services: info
- About attractions, hotel facilities and services, in-room ordering of F&B

# Information

## Automated Content

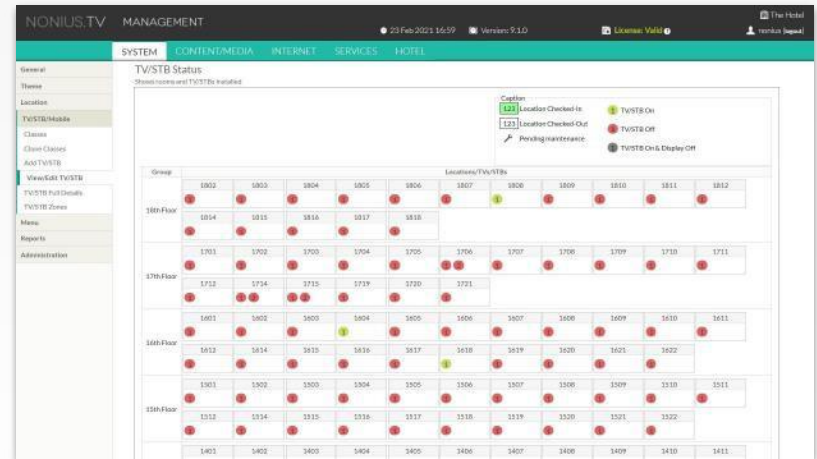
- Validation and management of signal and information sources
- Latest information available is always displayed
- Electronic Program Guide (EPG)
- Web radio stations
- Smart apps customization:
- Weather
- Local flight arrival & departure
- Map with local points of interest
- News
- World clocks



# Management System

## Control at any time

- Easy to deploy and maintain
- Friendly user interface
- Intuitive to customize
- Devices management and status
- Credentials set by the profile
- Rooms status control



NONIUS.TV MANAGEMENT

23 Feb 2021 17:02 Version: 9.1.0 License: Valid

SYSTEM CONTENT/MEDIA INTERNET SERVICES HOTEL

Web

Media Center

Upload

Editing

Categories/Genres

MGD

IPTV

Radio

Video Playlist

Presentations

Info Application




Background Music

**Editing**

Please configure all the media accordingly to your needs. You can make a double, upload a media cover, associate to categories/genres, edit the movie name or delete it. After apply all of your changes, please click on "Save/Cancel" to update the playlist.

Media

- Media Server: It shows video assets on media server and ready to be played on the Media Center app.
- Location: It shows that video is on the location. Make it's mapping (using an external tool or IP) to be shown on the media server.

Cover	Name	File	Genre	Duration	Stored	Enable	Delete
	Inside Zorogoo V5_1.m4	1468723304e6c02b1927825018.m4	Inside by Mella	00:01:19	Media Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Inside Praga V413_Len.m4	1608723807d3467195884222.m4	Inside by Mella	00:01:17	Media Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Inside Brand V7ER W.m4	1607690089f6c8818991278.m4	Inside by Mella	00:02:15	Media Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Save Cancel Apply

NONIUS.TV MANAGEMENT

23 Feb 2021 17:01 Version: 9.1.0 License: Valid

SYSTEM CONTENT/MEDIA INTERNET SERVICES HOTEL

General

Theme

Location

TV/STB Model

Menu

Structure

System

App-ID/STB Name



Reports

Administration

**Inside\_by\_Mella menu structure edit**

Menu changes will require you to send new set-top package to TV/STB/Headend. HTML changes require you to access the EDR/CDM page, click on "Menu" and refresh the TV. Other changes require you to access the EDR/CDM page and click on "Send Settings".

Drag/Drop items from left (Available menu items) based to right (Current menu items).

Menu are represented by:  Item and allow click items. App are represented by:  App.

Available menu items	Current menu items
<input checked="" type="checkbox"/> Air port Info	<input checked="" type="checkbox"/> Signage Brand Video 23
<input checked="" type="checkbox"/> Alien Runner	<input checked="" type="checkbox"/> TV & Entertainment
<input checked="" type="checkbox"/> Amsterdam	<input checked="" type="checkbox"/> Connect Devices
<input checked="" type="checkbox"/> Android Guest Requests HTML5	<input checked="" type="checkbox"/> Dining and Bar
<input checked="" type="checkbox"/> Android Movies HTML5	<input checked="" type="checkbox"/> Hotel
<input checked="" type="checkbox"/> Android Radio HTML5	<input checked="" type="checkbox"/> City
<input checked="" type="checkbox"/> Android TV HTML5	<input checked="" type="checkbox"/> My Room
<input checked="" type="checkbox"/> Android Wake Up Call HTML5	<input checked="" type="checkbox"/> Select Language

Apply

NONIUS

Support: support@noniussoftwares.com

© 2021 NONIUS. All rights reserved.

# Management System

## Customize at any time

- Great set of tools
- System monitoring
- Guests list overview
- Reporting system
- Low technical requirements
- Frequently updated

A woman with her hair in a bun is sitting on a bed with white linens, holding a remote control. She is looking towards the right side of the frame. In the background, a window with sheer curtains shows a bright, hazy cityscape. The overall lighting is soft and natural.

# Interactive TV

Features Details



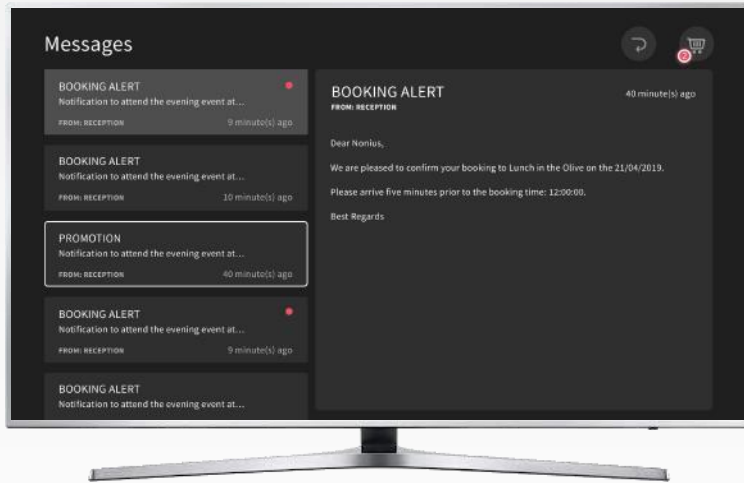
# Welcome Message and Video

- Guests' welcome message automatically sent to TV after the PMS Check-in event
- Welcome messages are sent in the guests' preferred language based on the Guest Profile
- Possibility to compose multimedia formats presenting a welcome message followed by a brand video or facility promotion (e.g. SPA promotion)
- Boot messages are also available, presenting a customized message for every time the Guest turns the TV on.
- Check out messages also available for a warm goodbye.

# Alert Messages

- Integrated with the PMS system
- Allows sending messages to guests from the PMS and Front Office Interface
- Allows Group and Individual alerts messages that interrupt TV
- All messages read confirmations can be viewed at the central management system
- Messages can present slideshow images
- May be used as informative messages such as fire alarms message, new services available, etc.
- A configurable message can be sent to each guest room or apartment
- Automatic language selection by the PMS





# Messages Inbox

- On-screen new messages indicator
- Possibility to access at any time from the interface menu
- Possible to receive Group and Individual messages
- Easy to navigate and very intuitive

# TV Channels Playlist & Guide

- Digital High Definition TV Channels
- Unlimited number of channel configurations
- TV Channels playlists can be defined by Guest profile
- Centralized channels management. Simple to maintain all TVs with the right configuration.
- Enhance the TV Channel Grid experience by adding the TV GUIDE option, also known as EPG (Electronic Program Guide)
- Possibility to customize playlists by categories
- Different User Interfaces are available
- Compatible with Nonius TV Headend or any UDP/RTP multicast/unicast stream from 3rd party Streaming System (check compatibility with Nonius)



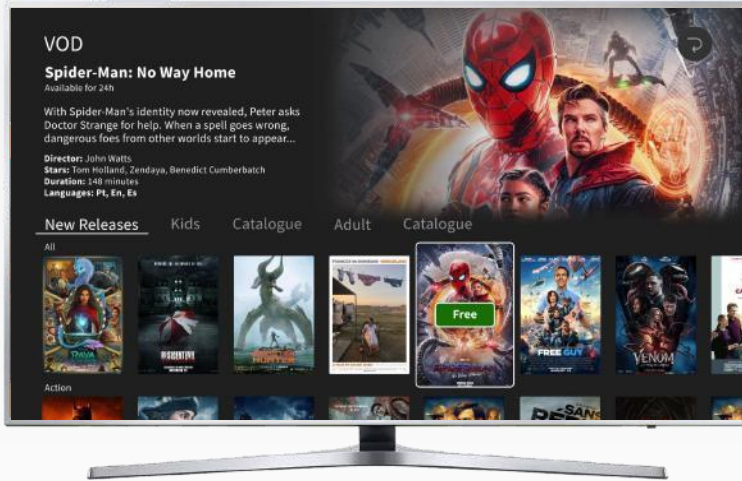


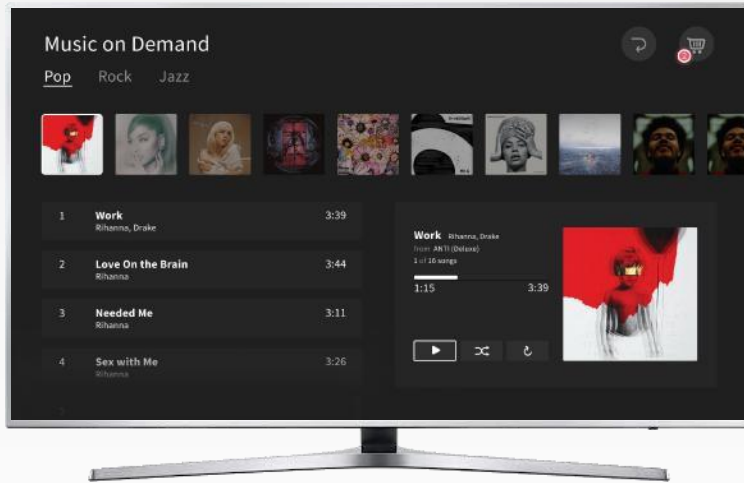
# Radio Channels Playlist

- Offers guests a wide range of radio channels
- International Radio Stations from IPTV streamers and Internet Radio
- Supports Internet Radio Channels – MMS, HTTP
- Channels playlists can be defined by Guest Profile
- Possibility to customize playlists by categories
- Different User Interfaces available

# Free to Guest Movies

- Elevate Guest Experience with an Exclusive Service.
- Free to Guest Movies with major Hollywood releases around their theatrical debut enhances the stay.
- Available in multiple languages, catering to a diverse clientele and making guests feel at home.



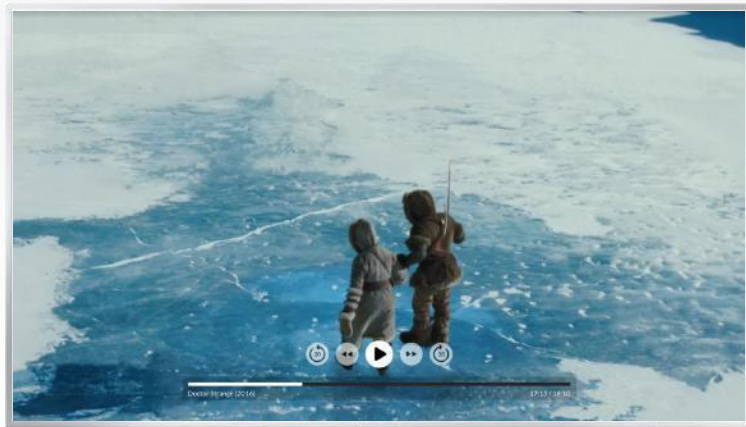
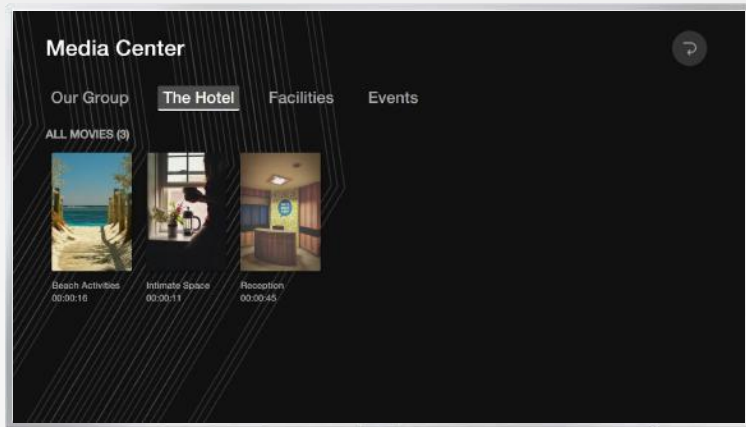


# Music on Demand

- Free to guests service
- Service enabled after the guest checks in, and disabled after check out
- Back office management for uploading music and details
- Configurable to run as background music
- Content from certified partners

**Kaleidovision**

**RX**  
MUSIC



# Media Center

- Free to guests service
- Possibility to upload videos and full movies
- The management of Back Office tasks includes uploading, videos, covers, and overseeing various details.
- Configurable on categories

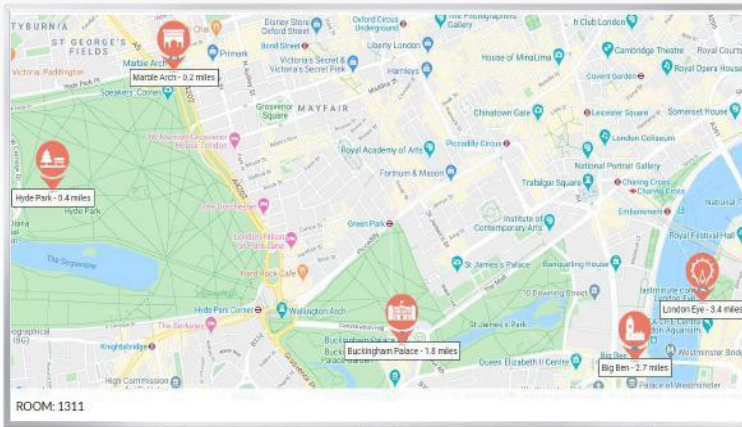
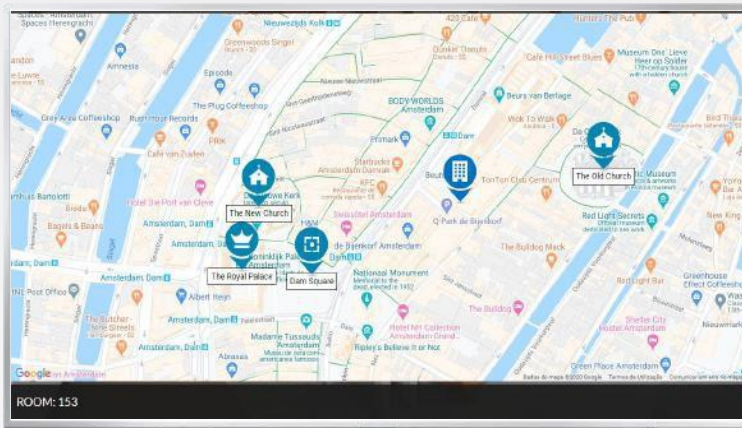


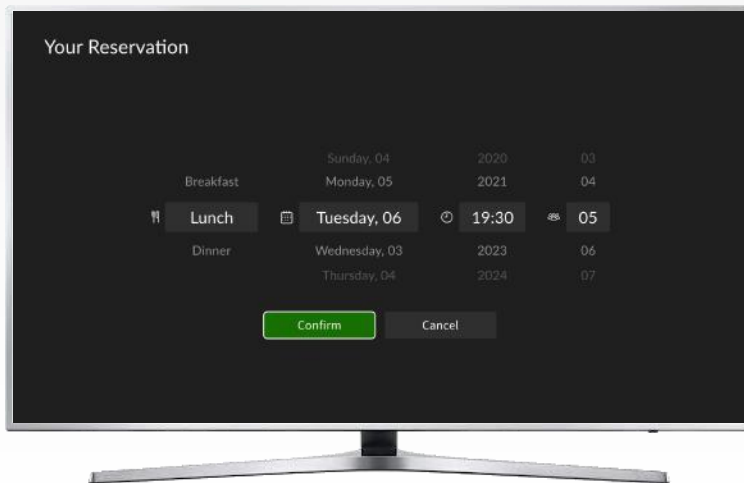
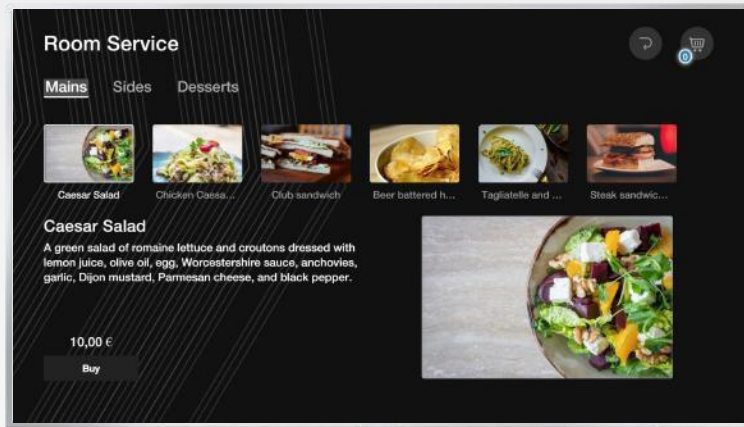
# Guests Directory & Content

- Provides a digital catalogue of Hotel Information and Services
- Reduces the necessity of printing and distributing paper materials in guest rooms, resulting in a beneficial environmental effect as well.
- Innovative presentation of local attractions, hotel facilities, and guest services enhances guest engagement.

# Map

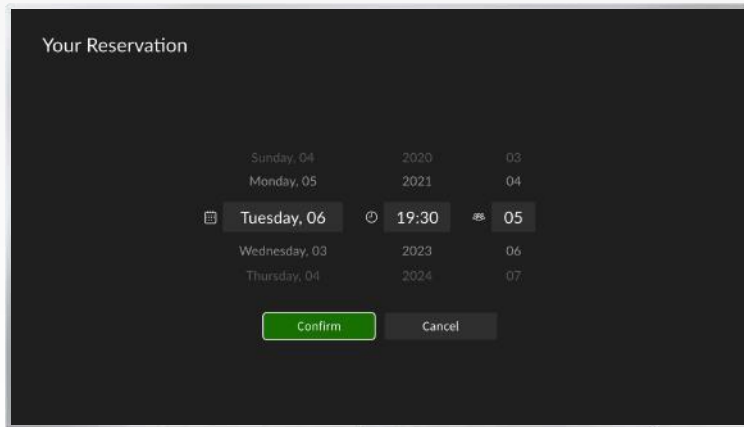
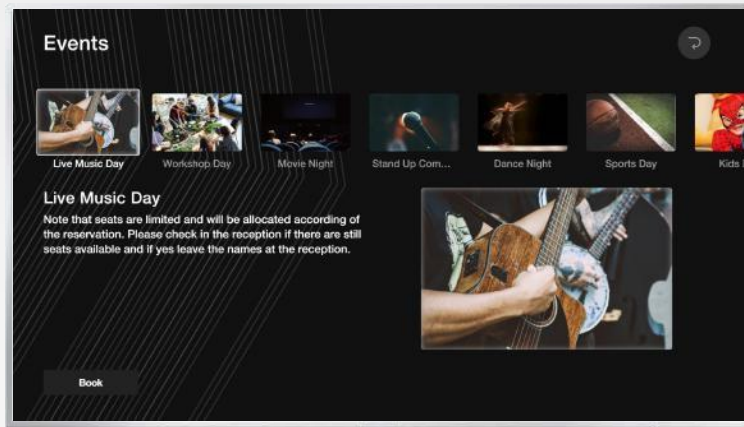
- Provides guests with real-time information
- City points of interest can be customized in the central management system and displayed on the TV
- Hotel location indicator
- Attractions identification with distance from the Hotel





# Room Service & Booking

- Displays the hotel's offering of Food and Beverage, Services and Amenities
- Product charges are posted directly to the PMS system
- Bookings are sent to a compatible PMS and to an email
- Food orders can be printed directly on the kitchen printer
- Ability to plan when items will be available during certain times of the day
- Shopping cart supports multiple and cumulative purchases
- Possibility to book a restaurant table or event ticket



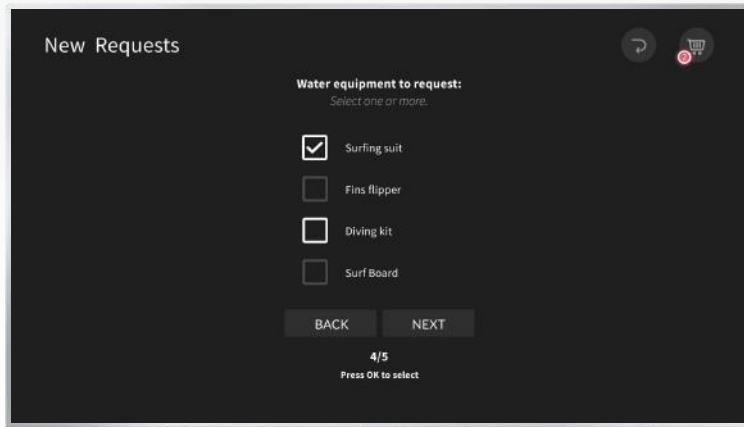
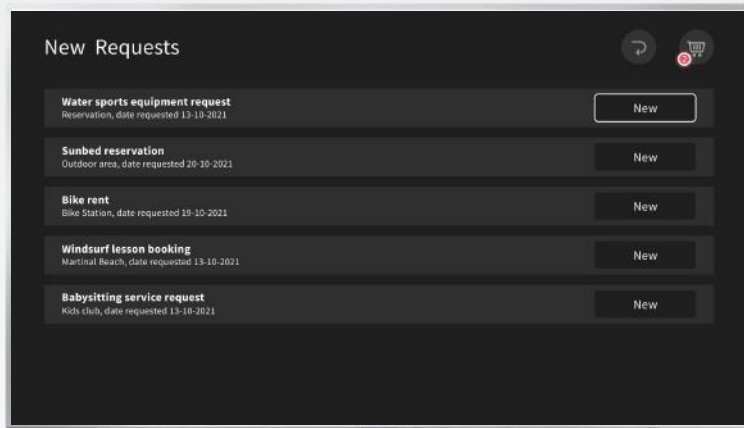
# Events

- Use one unique Content Management System to create events, upload and manage slides and videos
- Only guests attending the scheduled events can see the specific information
- The backoffice makes it easy to pair a guest room with an event
- On the day of the event, a multimedia presentation can run providing information for attendees
- An easy-to-use and easy-to-understand purchasing experience



## Presentations

- Hotel media application to promote full-screen information, possibility to navigate between screens using the TV remote
- Available as full-screen images, slideshows, videos and videos playlists
- Very useful on hotel promotions for restaurants, bars, menus, facilities, events and any other big impact activities



# Form builder

- Customize and build forms according to the property needs
- Possible to configure the guest answers in several formats such as drop-down menu, check mark, radio buttons, free text, date, and time
- Adapt your offer according to the guest's growing needs
- Applicable to any survey needs
- Adaptive from feedback collection, to guests' requests or even the reservation system

# Flights Information

- Provides guests with information in real-time for departures and arrivals
- Flight status from national and international airports
- Content is automatically collected from the Internet to Nonius Services Server, for quality validation.
- Wide list of airports selection



**Flights**

Madrid (MAD) Mexico City (MEX) Paris (CDG) London (LHR) New York (JFK) Lis

**BARAJAS (MAD)**

DEPARTURES ARRIVALS

HOURL	DESTINATION	COMPANY	FLIGHT	STATE
8:28 AM	PMI - Palma de Mall...	Ryanair	RYR1318	Scheduled
8:30 AM	MAN - Manchester	Ryanair	RYR6815	Scheduled
8:35 AM	LPA - Las Palmas	Iberia Express	IBS3826	Scheduled
8:35 AM	LYS - Lyon	Iberia	IBE8716	Scheduled
8:40 AM	FCO - Rome	Iberia	IBE3230	Scheduled
8:40 AM	DUS - Dusseldorf	Iberia	IBE8822	Scheduled
8:40 AM	IBZ - Ibiza	Iberia Express	IBS3800	Scheduled
8:40 AM	VIE - Vienna	Iberia	IBE3120	Scheduled
8:40 AM	FUE - Puerto del Ro...	Iberia Express	IBS3900	Scheduled
8:40 AM	NAP - Naples	Iberia Express	IBS3708	Scheduled



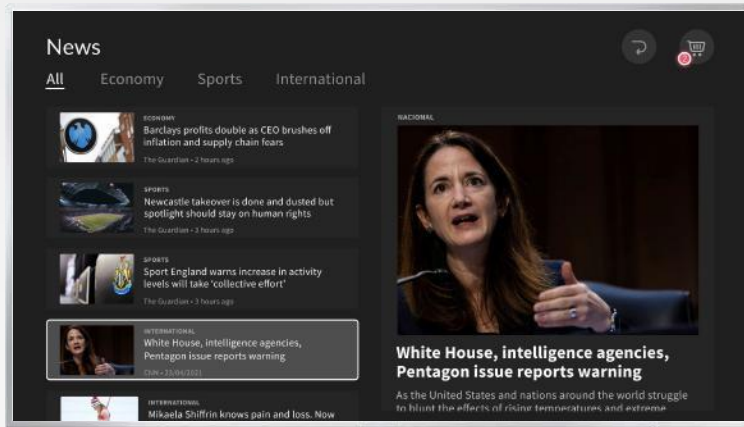
# Weather Forecast

- Provides guests with information in real-time
- Weather from cities around the world
- Current, Maximum, and Minimum temperature information
- 3 days forecast
- Content is automatically collected from the Internet to Nonius Services Server, for quality validation.
- Customized on cities selection



# World Clocks

- Time information from around the world
- Time Zones identification
- Wide list of worldwide cities available for selection
- Presents information for 7 different cities

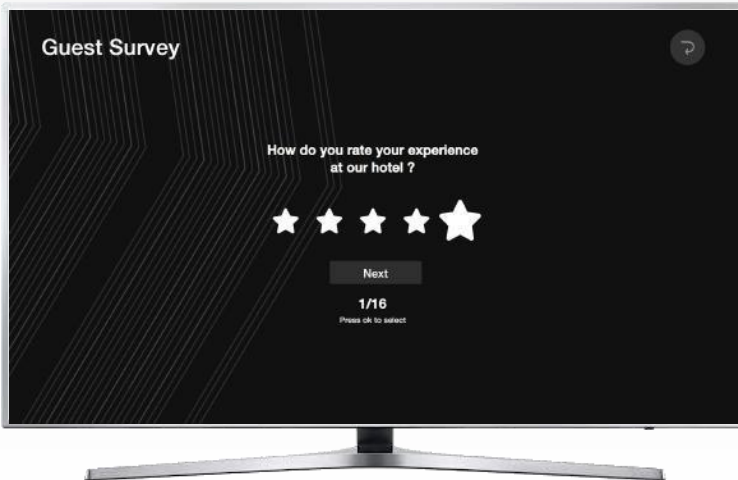
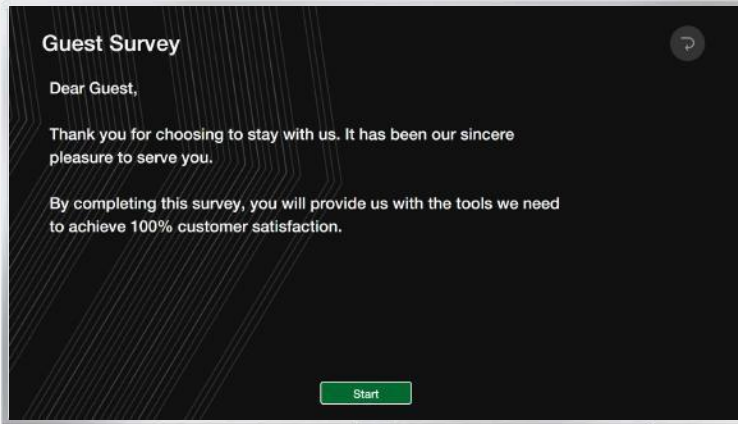


# News

- Provides guests with worldwide information in real-time
- Available in different languages and different countries
- Presented according to Guests Profile
- Content is automatically collected from the Internet to Nonius Services Server, for quality validation.

# Guests Survey

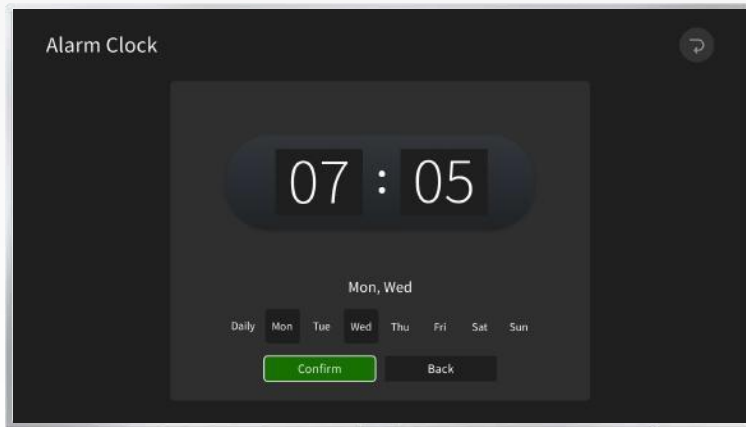
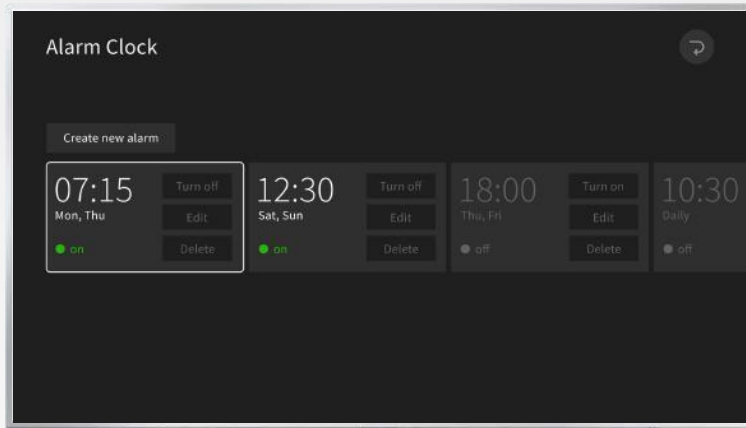
- Guest Survey may be completed directly from the in-room TV
- Once the survey completed, an email is automatically sent to the hotel management personnel
- Monthly statistics and report
- Before check-out, the guest is prompted to complete the survey to encourage customer feedback
- Central Management System makes it easy to modify the survey as well as view and export reports
- Survey questions can be rated by stars, numerically evaluated, set as YES or NO answers or by Multiple choice
- Survey questions can be set as Important, triggering an automatic email for a specific answer threshold.





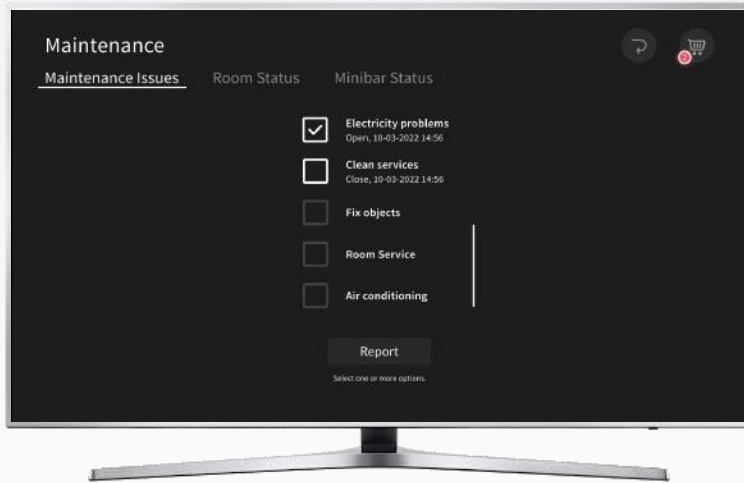
## Bill on TV

- Real-time billing on TV
- Multi-page view bill supported
- Integrated with PMS system
- Real-time update



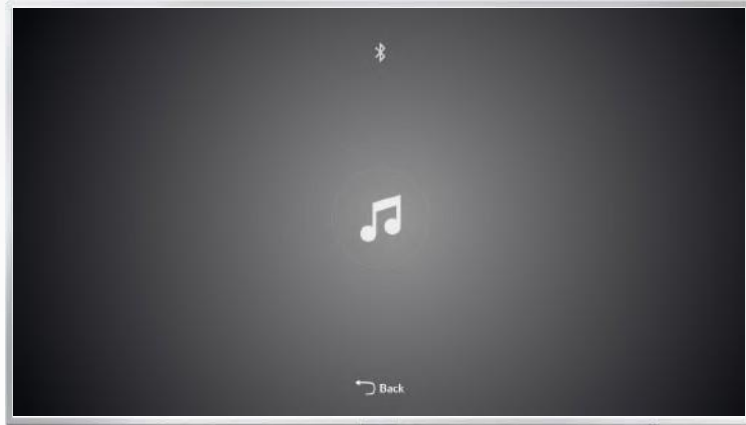
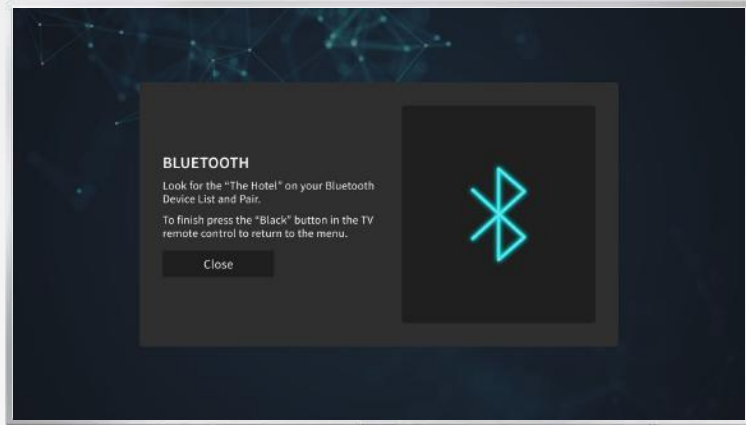
# Alarm Clock

- Alarm can be set on the TV and will be registered in the PMS as a wakeup call.
- TV will turn on automatically at the alarm time and will notify the PMS the guest has stopped the alarm.
- PMS generated wake-up calls also supported



# Maintenance & Housekeeping

- Allows personnel to report on the status of room cleaning and perform inventory check
- Guests may perform Maintenance service requests
- Special hidden menu to be used by the housekeeping staff
- Allows personnel to report on the status of room cleaning and perform inventory check
- The Maid can inform PMS that the room is ready for check in or block it in the PMS if something is broken.
- Possibility to report minibar consumption to PMS
- Easily customized on Central Management List for items list



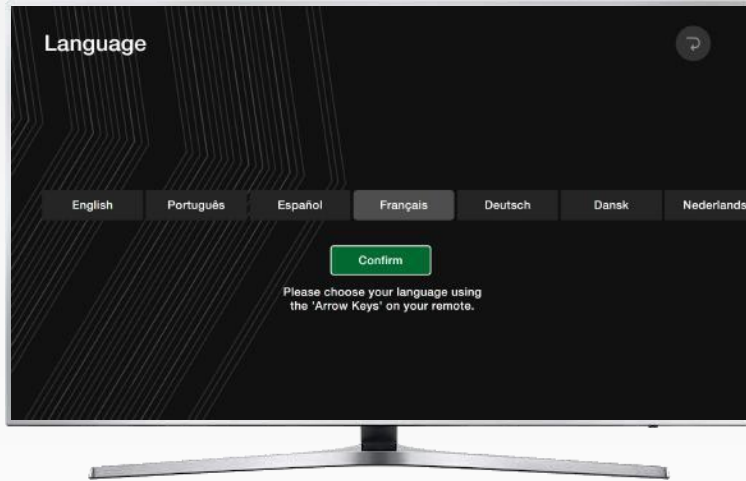
# Bluetooth

- The best quality audio content streaming using the TV platform Bluetooth receiver
- Easy and intuitive device pairing
- Possibility for guests to play their own favorite music
- Promote the best guest engagement through technology



# Information Apps

- A useful feature to provide guests information, acting as a message box in the IPTV System
- Can be used to transmit instructions on how to connect to Wi-Fi, pair with Bluetooth, access mobile applications and many others
- Interacts with the IPTV system on source switching



## Guests Profile

- Guest profile according to language and country of origin
- Interface menus updated to match the Guest's language and location
- Integrated with the PMS system, language changes according to guest's check-in data.
- Radio, TV, News will adapt to match Guest Profile
- Possibility to stream Guests' favourite music on a welcome message according to music genre profile
- Multi-language content and system presentation
- Available in 10 different languages with the possibility to add new idioms

# ... and Much More!

## Fast & effective Guest Communication to promote your Hotel Services

- Turn TV automatically on guest arrival
- Turn the TV off automatically on guest check out
- Set minimum and maximum TV volume
- Clean all guests' data on check out
- Room service with additional features
- Billing on TV with express check-out
- Provide a variety of public information and hotel services through the TV
- Welcome Guests with promotional videos
- Cross-selling in-room



A modern bedroom with a large bed, a window, and a wall-mounted TV. The room is bright and minimalist, featuring a large bed with a patterned headboard and pillows, a large window with a view of the outdoors, and a wall-mounted TV on the right side. The ceiling has recessed lighting, and the overall aesthetic is clean and contemporary.

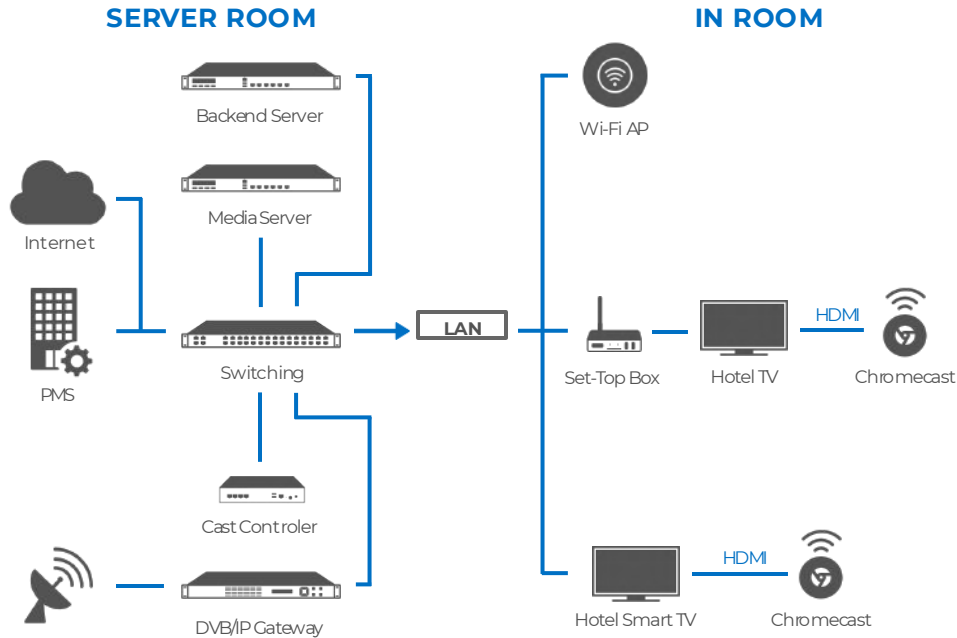
# Interactive TV

Equipment and  
Configuration

# System Architecture

## VDA iTV

### On-Premises complete configuration

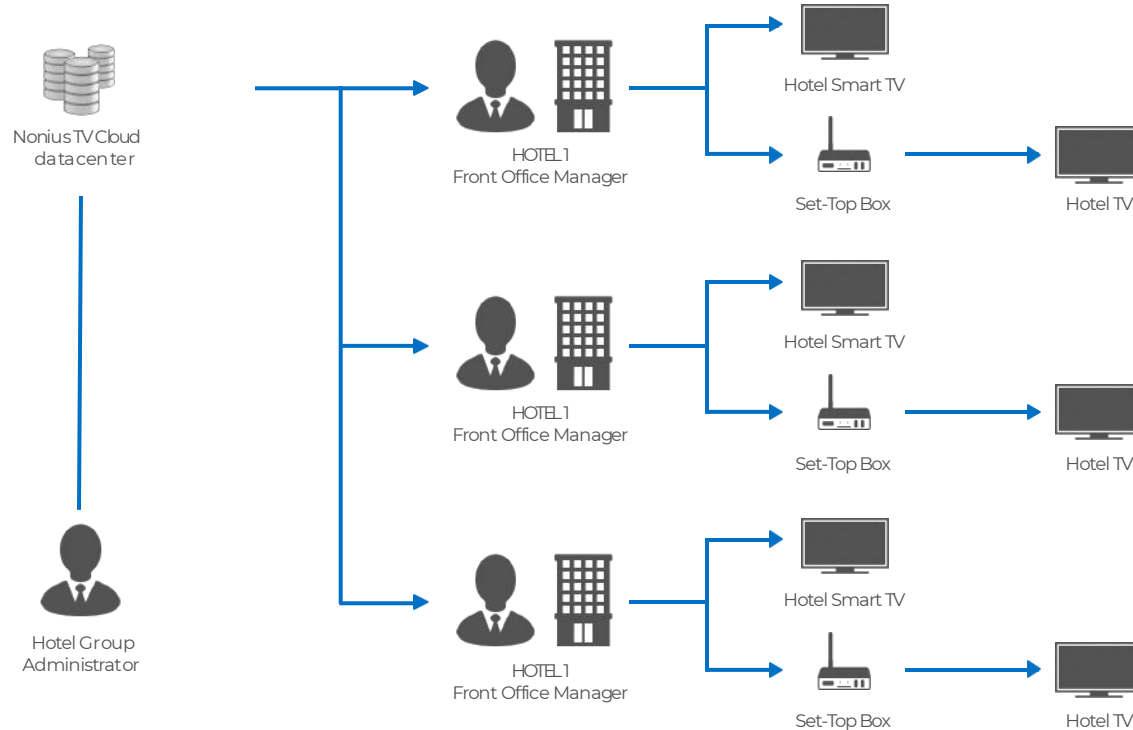


### Minimum deployment requirements

- IP network infrastructure
- Rack-mount for the servers
- Channel reception via fibre or satellite
- Internet connection (we recommend fibre optics)
- Switching that supports snooping IGMP
- VoD and MoD need contract with a content provider
- PMS Integration needs the activation on the Customer side
- Internet access billing needs an Internet access appliance

# System Architecture VDA iTV

## Cloud Configuration





**VDA TV Edge Cache Appliance**

# Video Cache for Cloud Edition

## Bandwidth saver for video streaming

- Bandwidth Saver: Reduces bandwidth, saves costs, ensures smoother user experience
- Crucial Cache Function: Essential for streaming menu background videos
- Plug-n-Play Transparent Proxy: Easy setup and easy to swap
- Space-efficient and comes with a 19" rack-width mounting kit
- Powered by Nonius Edge OS



**Nonius TV On-Prem Backend Appliance**

## **Server for On-Prem Edition**

### **Nonius TV Backend Server Appliance**

- Centralized Management System
- Devices Management / Server (Set-Top Boxes and TVs)
- Billing interface with PMS Systems
- Application Server
- Content Hosting and Management
- Automatic Internet feeds update (Weather forecast, Flights, News)
- High Reliability 19" Rack Appliance



**Nonius TV On-Prem Media Server Appliance**

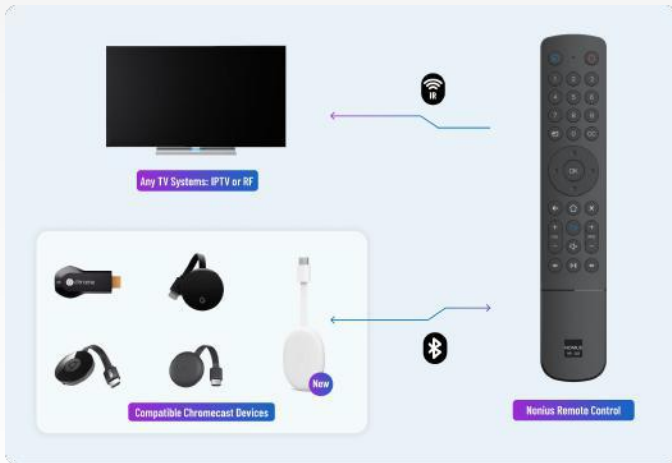
# Media Server for On-Prem Edition

## Video and Music Content Server

- HD and SD Corporate Channel Broadcast/Multicast
- VoD and MoD Storage and Playout
- Up to 60 video streams
- HLS to support mobile devices
- High Reliability 19" Rack Appliance



Complementary Solutions



# VDA | CASTING

## Cloud, Secure and Seamless Cast to any TV

1. **Make your guests feel at home** with a seamless guest room TV Cast solution to watch their favourite streaming content
2. Increase revenue and save on paper printing collateral with **promotions and hotel video** on the Chromecast Portal
3. **Guests will feel secure:** Only their room Chromecast(s) is/are visible and credentials are automatically deleted on PMS Check-out or on a programmable Idle time.
4. **Compatible with existing equipment**, no need to invest in new TVs or a new Wi-Fi network
5. Physical **locking & tamper detection** of the Chromecast dongle
6. Compatible with Google **Chromecast** dongles (also **Gen4**), **Apple TV, soundbars**, multi-zone audio streaming devices and TVs with **Philips Mediasuite TV** built-in Chromecast
7. Flexible: **pairing** can be done seamlessly **on the Wi-Fi captive portal** or on the guest room TV by **scanning a QR code**
8. State-of-the-art **Cloud Platform (Analytics, Monitoring, and Configuration)** and a **Cast Router** per property on premises



NETFLIX

prime video

Bluetooth



## VDA TELKONET HQ

VDA Group S.p.A  
Viale Lino Zanussi n. 3  
33170 Pordenone (PN) - Italy  
T +39 0434 516111  
[marketing@vdagroup.com](mailto:marketing@vdagroup.com)

## VDA TELKONET UK

VDA UK Ltd  
Unit 5, Orbital 25 Business Park  
Dwight Road, Watford, WD18 9DA - United Kingdom  
T +44 (0)1923 210678  
[ukenquiries@vdagroup.com](mailto:ukenquiries@vdagroup.com)

## VDA TELKONET M&EA

VDA Middle East Fz Llc  
P O Box 37830 Unit No. B203-204,  
"Design House", Plot No.78-0,  
AL Sufouh First, (off Sheikh Zayed Road) Dubai  
United Arab Emirates  
T +971 4 3914416  
[info\\_mea@vdagroup.com](mailto:info_mea@vdagroup.com)

## VDA TELKONET IRELAND

VDA UK Ltd  
Stonewell House, Cloughanover,  
Headford County Galway, H91 AT2Y, Ireland  
T +44 (0)1923 210678  
[ukenquiries@vdagroup.com](mailto:ukenquiries@vdagroup.com)

## VDA TELKONET APAC

VDA Asia Pacific LTD  
Office No. 305, 3rd Fl., FICO Place Bldg 18/8 Sukhumvit 21,  
Klongtoey Nua, Wattana, Bangkok, 10110 - Thailand  
T +66 (0) 2 260 6215  
[info\\_ap@vdagroup.com](mailto:info_ap@vdagroup.com)

## VDA TELKONET AMERICAS

Telkonet Inc.  
20800 Swenson Drive, Suite 175  
Waukesha, WI 53186  
T +414 302-2299  
[marketing@telkonet.com](mailto:marketing@telkonet.com)

## ADRIA ELECTRONIC D.O.O.

Šetalište Andrije Kačića Miošića 13  
51000 Rijeka, Republika Hrvatska  
T +385 51 423 435  
[info@adria-electronic.hr](mailto:info@adria-electronic.hr)