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**IKUSI**  
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# Ikusi Flow

## Device Manager Installation and Setting guide

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## 1. INTRODUCTION

Device Manager is an integrated application in Ikusi Flow which provides centralized management of IPTV content and display services. It enables the creation of distinct service lists and the ability to publish them to individual devices or groups of devices, providing the ability to manage the content line-up available on each TV. It also includes functionality to control the content currently being displayed on remote TVs. This feature addresses the need for centralized and integrated management of multi-screen spaces or Sports Bars.

In addition, Device Manager permits remote power on/off and sound control of compatible TV and STBs, and shows display device status information including power, available services, and content currently being displayed.

Device Manager supports IP multicast compatible Samsung, LG, and Philips TVs, and the FLOW STB.

This manual describes Device Manager application configuration and operation. It is assumed the basic configuration (i.e. input, descrambling, output) is done in advance. Refer to the Ikusi Flow Configuration Guide to do basic system configurations.

PLEASE NOTE: Poweron , Poweroff and autoregister are all spelt accordingly due to Interface requirements.

## 2. INITIAL CONFIGURATION

### 2.1 Enable advanced configuration

The management of Device Manager is performed using options of the advanced configuration. Therefore, the first step consists in enabling advanced configuration.

- Go to MENU→ADVANCED CONFIGURATION→Enable advanced configuration

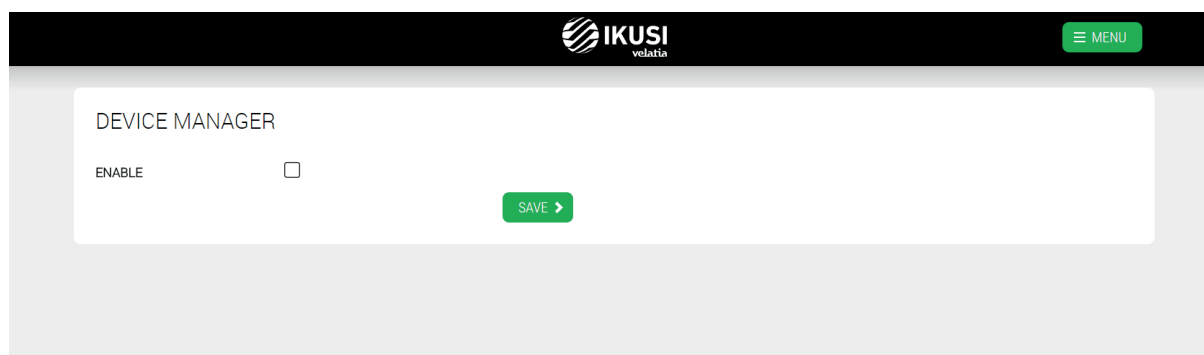
### 2.2 Enable Device Manager

To enable Device Manager it is necessary to register a license. If you don't have one, please contact with Ikusi Multimedia Support Department in order to obtain it.

- Go to MENU→ADVANCED CONFIGURATIONS→Device Manager Configuration
- Insert key in LICENSE field
- Press OK

After that, a new window will open.

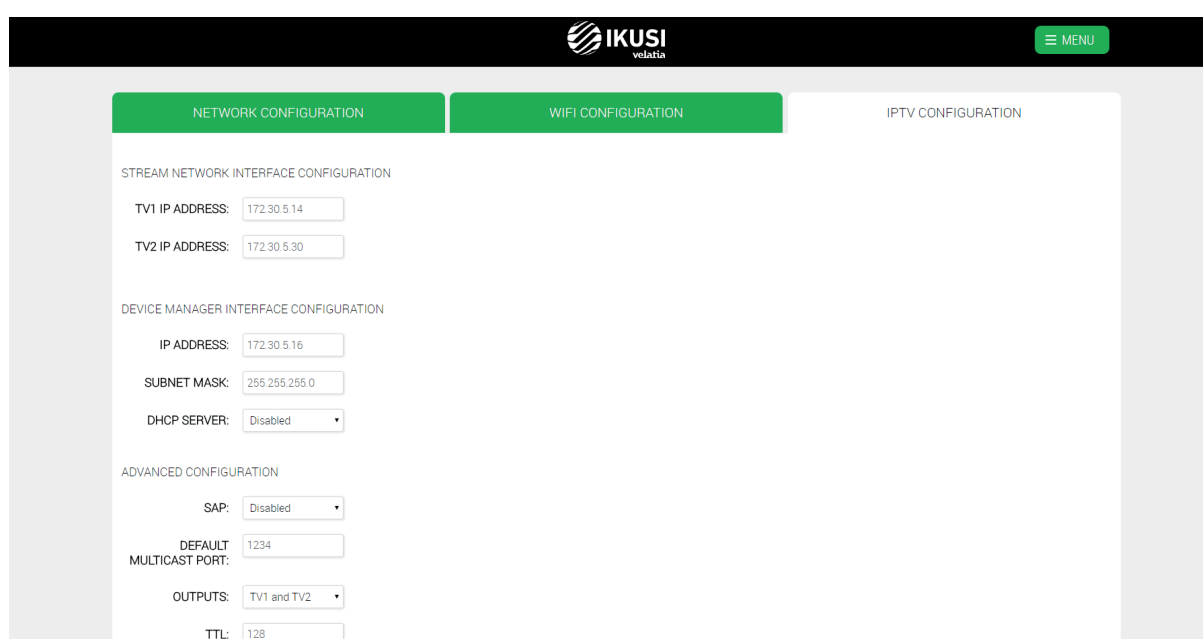
- Check ENABLE box and press SAVE



## 2.3 Network settings

To setup Device Manager Network go to MENU→CONFIGURATION→Network

Select IPTV CONFIGURATION tab.



In this screen, two parameters should be setup:

- **DEVICE MANAGER SERVER IP ADDRESS:** Set IP address used by the Device Manager to communicate with the devices (STBs or TVs). By default, this address is 172.30.5.6. Change it if this IP is not usable or if it causes conflicts in your IP network.
- **DHCP Server:** This server distributes network configuration parameters (e.g., IP address) automatically to devices. There are 3 setup options:
  - . Disabled : you must use it when the devices already have an IP address assigned.
  - . Enabled : you must use it when the devices are not FLOW STBs, and do not have an IP address assigned.

---

**NOTE :** DHCP server will assign IP address to all clients located in the network (not only to TVs or STBs).

. Only supported devices : you must use it when the devices are FLOW STBs and they do not have IP address assigned (it is the most common case). DHCP server only will assign IP address to FLOW STBs, ignoring the rest of the clients that could be in the network.

The screenshot shows the IKUSI Device Manager configuration interface. At the top, there is a navigation bar with the IKUSI logo and a 'MENU' button. Below the navigation bar, there are three tabs: 'NETWORK CONFIGURATION' (selected), 'WIFI CONFIGURATION', and 'IPTV CONFIGURATION'. The 'NETWORK CONFIGURATION' tab is active and displays the following settings:

- STREAM NETWORK INTERFACE CONFIGURATION**
  - TV1 IP ADDRESS: 172.30.5.14
  - TV2 IP ADDRESS: 172.30.5.30
- DEVICE MANAGER INTERFACE CONFIGURATION**
  - IP ADDRESS: 172.30.5.16
  - SUBNET MASK: 255.255.255.0
  - DHCP SERVER: Only supported (dropdown)
  - DHCP RANGE START: 172.30.5.100
  - DHCP RANGE END: 172.30.5.254
- ADVANCED CONFIGURATION**
  - SAP: Disabled (dropdown)
  - DEFAULT MULTICAST PORT: 1234

### 3. TV CONFIGURATION SETTINGS

The FLOW STB doesn't need any specific configuration as it will automatically connect to Device Manager with the factory default settings.

Each compatible TV brand requires a specific configuration to connect with Device Manager.

**NOTE :** The instructions described below should be used as a reference. They could vary depending on the software version of TVs and the TV models. Please, contact your TV set provider in case they were not the proper ones.

#### 3.1 SAMSUNG TVs configuration settings

- Enter Installation menu (it is accessed differently depending on model, consult the TV provider for details).
- Configure "Network Setup" (manual or DHCP).
- Configure "Widget Solution":
  - Widget Mode: ON
  - Solution type: Vendor Server
  - Server URL Setting (Device Manager IP Address) : http://172.30.5.16:8000 or http://172.30.5.16:8000/samsung (depending model).
  - Instant On: ON

#### 3.2 LG TVs configuration settings

- Enter Installation menu (it is accessed differently depending on model, consult the TV provider for details).
- Configure "Network Setup" (manual or DHCP)
- Configure "Pro:Centric":
  - Mode "HTML"
  - Medium Type "IP"
  - P:C IP Setting (IPa) - P:C IP Setting (IP d) each address number IP (Device Manager IP Address): e.g.: 172, 30, 5, 16
  - P:C IP Setting (Port): 8000
  - Leave remaining fields with their default values
  - Exit menu and turn off/on TV

#### 3.3 PHILIPS TVs configuration settings

- Enter Installation menu (depending in the model, it can be different access so in case of doubt, consult with the TV set provider)
- Configure Network Setup "Connect to network" (manual or DHCP)
- Configure "Professional settings":
  - Professional settings -> Dashboard -> Custom
  - Dashboard Settings -> Source -> Server
  - Dashboard Settings -> ServerURL (Device Manager IP Address) -> http://172.30.5.16:8000

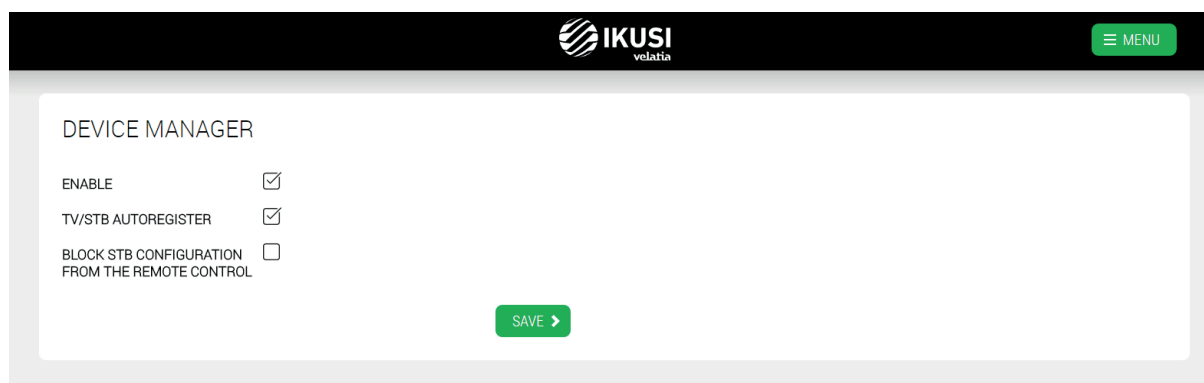
## 4. OPERATING MODES

Device Manager has two operating modes:

- Autoregister mode : Devices are registered automatically to Ikusi Flow system. It should be used when all the devices are going to receive the same commands and you don't need to differentiate among them. All the devices will belong to the same group.
- Manual mode: Devices must be created on Ikusi Flow and registered individually in each Device side. You will be able to create several groups and to identify each device individually into each group.

### 4.1 Autoregister mode

To set Autoregister operation mode, go to MENU→ADVANCED CONFIGURATIONS→Device Manager Configuration.

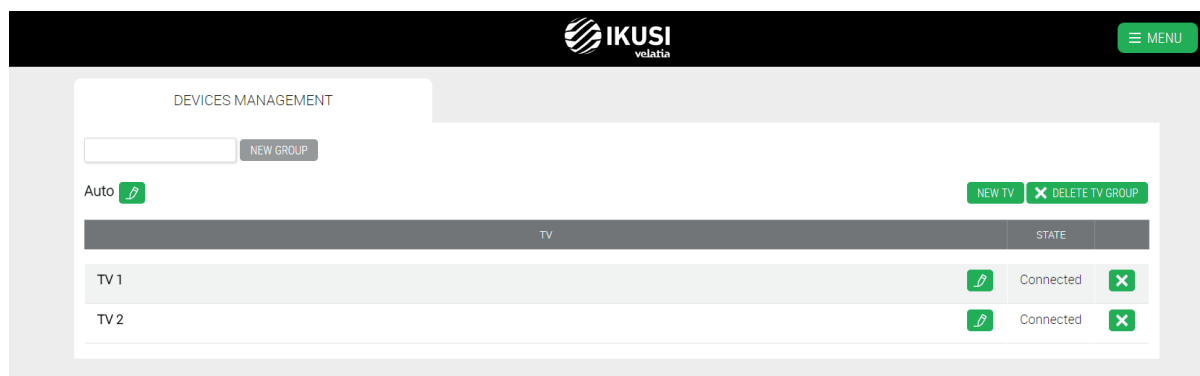


Check TV/STB AUTOREGISTER box to operate in Autoregister mode.

**NOTE :** In the same window, you could find also the option BLOCK STB CONFIGURATION FROM THE REMOTE CONTROL. Check it if you want to block the SETUP button of FLOW STB remote control.

All the devices will be registered automatically as soon as they are turned on. They will be assigned to the same group (by default, Auto group). You could review the registered devices in Device Manager App. To open it go to MENU→ADVANCED CONFIGURATIONS→Device Manager App

After that, select MENU→DEVICES MANAGEMENT.



## 4.2 Manual mode

To set Manual mode, go to MENU→ADVANCED CONFIGURATIONS→Device Manager Configuration.

DEVICES MANAGEMENT

ENABLE

TV/STB AUTOREGISTER

BLOCK STB CONFIGURATION FROM THE REMOTE CONTROL

SAVE >

Uncheck TV/STB AUTOREGISTER box to operate in Manual mode.

## 5. DEVICE MANAGER APP

Device Manager is an application integrated in the Ikusi Flow interface, that will allow to:

- define device groups
- define lists of TV (and radio) services
- command the devices, individually or in groups

To open Device Manager App go to MENU→ADVANCED CONFIGURATIONS→Device Manager App.

To close it and return to Home screen, go to MENU→HOME

### 5.1 Devices Management

Device Manager App is used to command the devices (TVs or STBs). In order to address the command to a specific device, the first step is the declaration of that device in the app. The declaration has two parts:

- Identification of the device with a name that can be used to differentiate this specific device from the rest (e.g, using the room number)
- Devices grouping, in order to send commands to an specific group of devices.  
This manual declaration only has sense in case autoregister mode was not used. To manually declare the devices in Ikusi Flow, from Device Manager App window, go to MENU→DEVICES MANAGEMENT.

To create a group, write the name of the group and push NEW GROUP button.

DEVICES MANAGEMENT

ROOMS NEW GROUP

Create as many groups as needed (in the example, there are two groups, ROOMS and GYM).

DEVICES MANAGEMENT

NEW GROUP

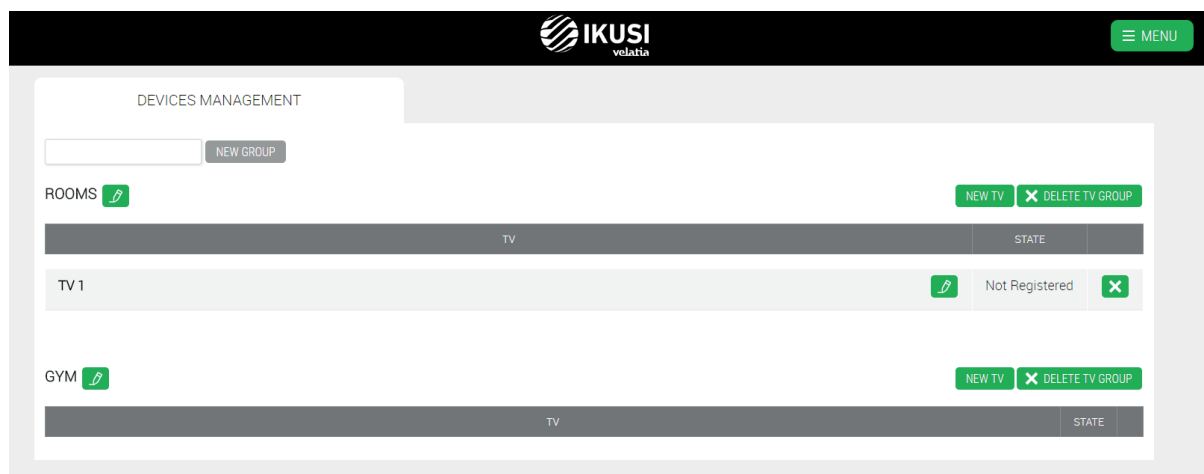
ROOMS


| TV | STATE |
|----|-------|
|    |       |

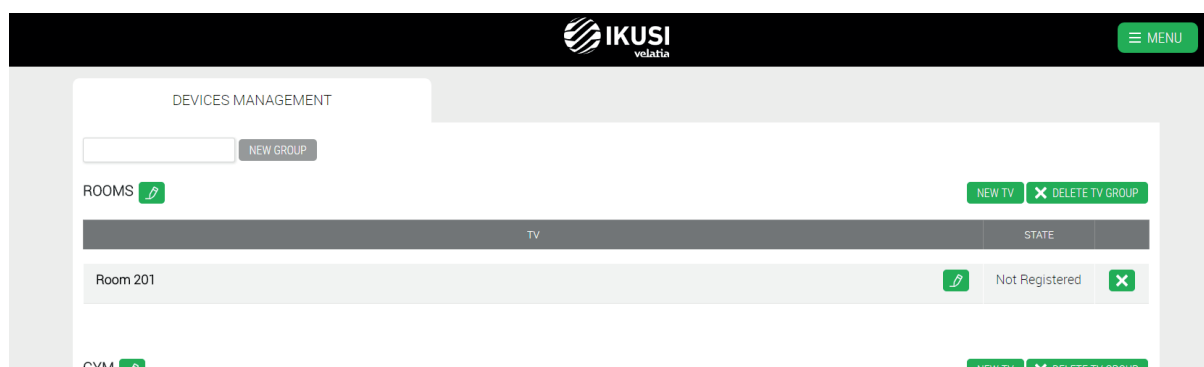
GYM

| TV | STATE |
|----|-------|
|    |       |

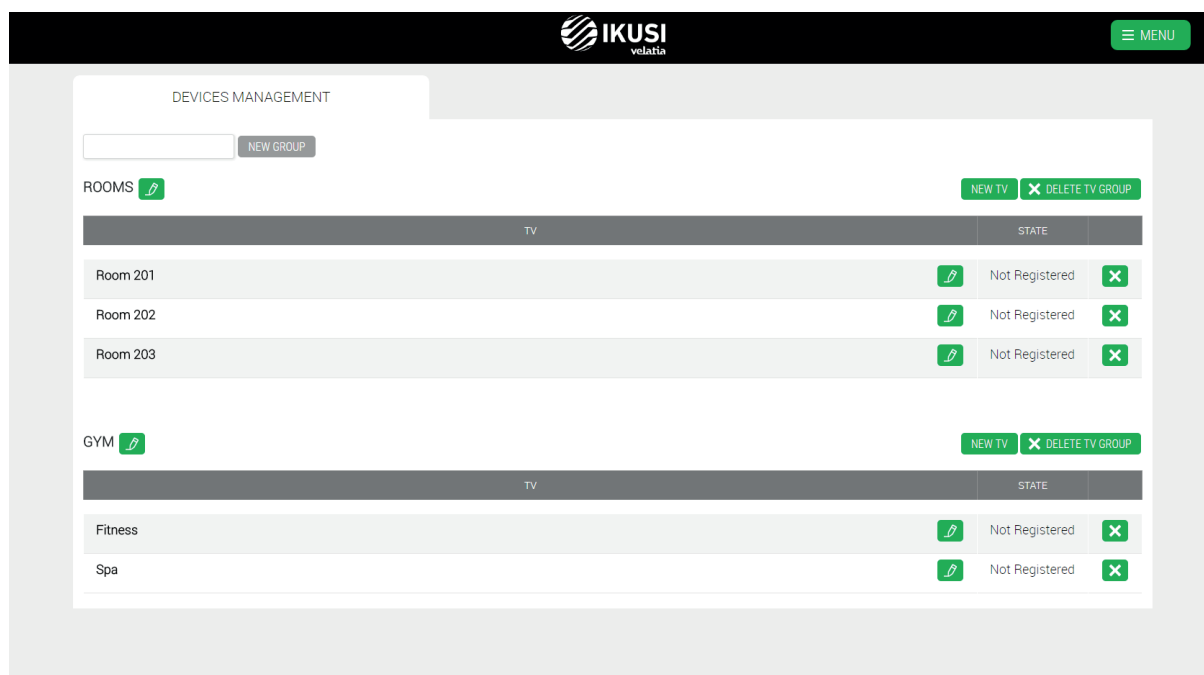
To add a device to a group, push NEW TV button. In the example, a new TV (TV1) has been added to ROOMS group.



To change the name of the device, push  button, edit the device name and push OK button. In the example, TV1 has been changed to Room 201.




Create as many devices as needed.



Once the devices have been created in Ikusi Flow, TV screens will show the registration menu. Use the TV (or FLOW STB) remote control to associate an existing device to one of the devices created in Ikusi Flow, following these steps in the TV screens:




► **Step 1: Select the group to which the device will belong.**

TV REGISTRATION 

Select the group this TV should join

| GROUP NAME |
|------------|
| ROOMS      |
| GYM        |


► **Step 2: Choose the device to register.**

ROOMS  BACK

Select an identifier for this TV

| TV ID    | STATE          |
|----------|----------------|
| Room 201 | Non registered |
| Room 202 | Non registered |
| Room 203 | Non registered |

► **Step 3: Confirm registration.**

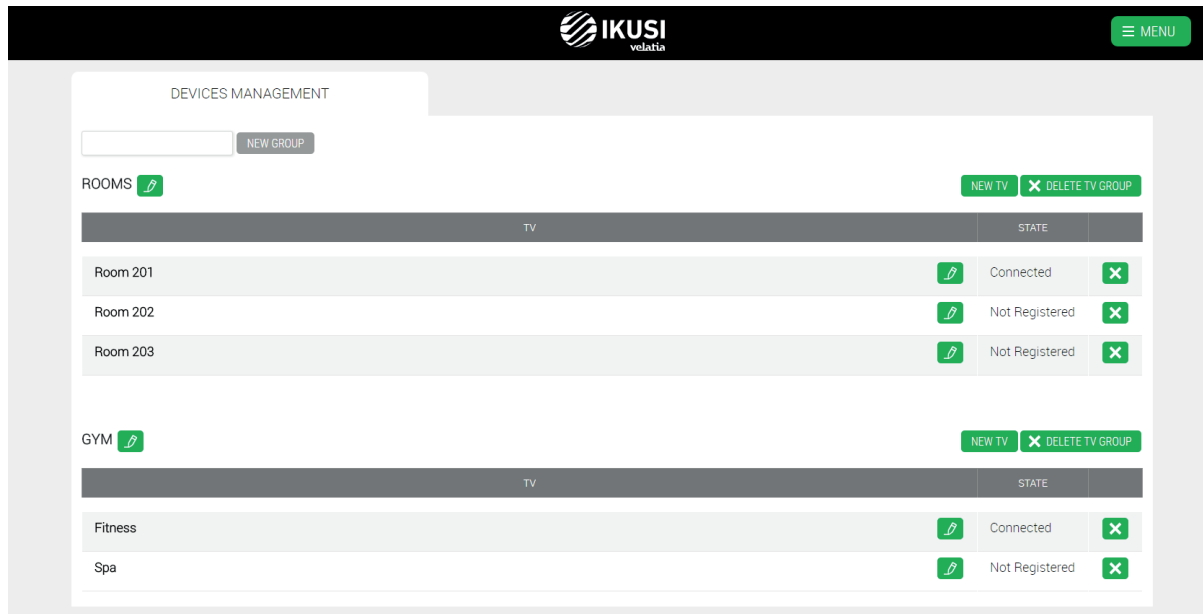
CONFIRMATION 

This TV will be registered as: Room 201

OK Cancel

Proceed to register all the devices repeating the above steps.

To review the registered Devices, from Device Manager App window, go to MENU→DEVICES MANAGEMENT. In the example only Room 201 and Fitness devices have been registered.



Each device can be in three distinct states:

- **Connected:** the device has been registered successfully and it has communication with Device Manager Server.
- **Disconnected:** the device has been registered successfully, however, currently it doesn't have communication. Check the Ethernet cable of the device and confirm that the device is turned on.
- **Not registered:** the device has not been registered yet.

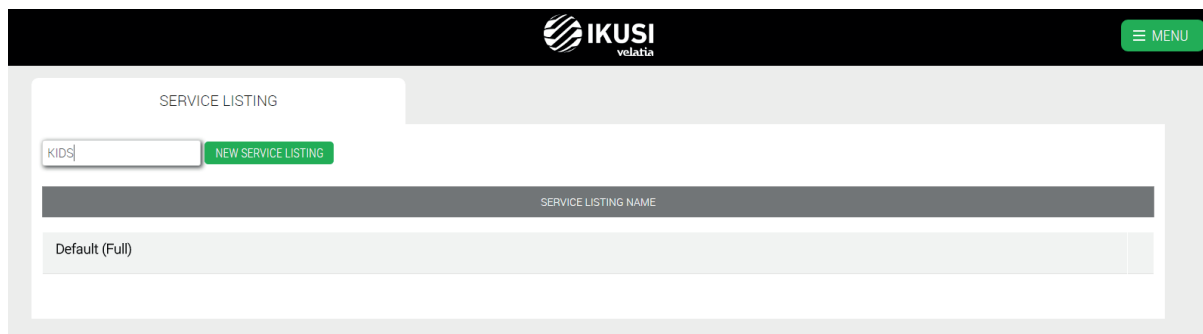
### 5.2 Service Listing

Device Manager App allow the assignment of distinct channel line-ups to distinct devices. In Device Manager terminology, a channel line-up is a service listing.

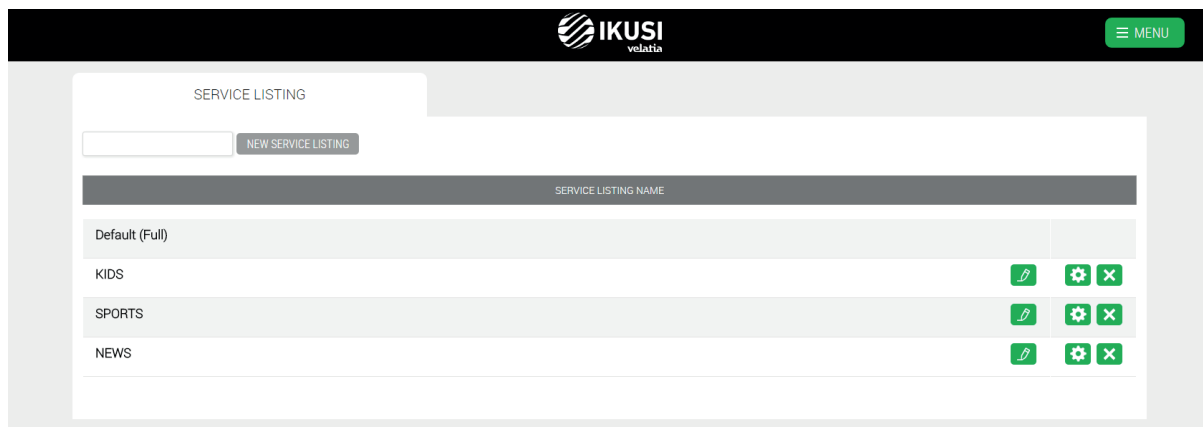
In order to create a service listings, from Device Manager App window, go to MENU→SERVICE LISTING.


There is a Default services list which includes all the services available in Ikusi Flow.


To create a service listing, write the name of the list and push NEW SERVICE LISTING button.














Create the services listings that are needed. In the example, 3 services listings have been created (KIDS, SPORTS and NEWS).





Use  button to select the services that belong to each listing. A new window with all available services will open.
















KIDS ADD MANUALLY 



| SERVICE LISTING |                   | SELECTED SERVICES   |  |
|-----------------|-------------------|---|--|
| 24h             | qaa<br>spa        |  |  |
| 3sat            | ger<br>mis<br>mul |  |  |
| BEIN SPORTS     | ndl<br>qaa<br>spa |  |  |
| Clan            | qaa<br>spa        |  |  |
| COMEDYCENTRALHD | qaa<br>spa        |  |  |
| Disney Channel  | eng<br>spa        |  |  |
| FOX LIFE HD     | qaa<br>spa        |  |  |
| GOL             | nol<br>spa        |  |  |
| HOTEL PPV       | und               |  |  |


SELECT ALL  SAVE 

Select the service that should belong to this service listing pushing  button.

KIDS ADD MANUALLY 

| SERVICE LISTING |                   | SELECTED SERVICES   |  |
|-----------------|-------------------|---|--|
| 24h             | qaa<br>spa        |  |  1 Clan qaa spa            |
| 3sat            | ger<br>mis<br>mul |  |  2 Disney Channel eng spa  |
| BEIN SPORTS     | ndl<br>qaa<br>spa |  |  3 KIKA ger mis            |
| COMEDYCENTRALHD | qaa<br>spa        |  |  |
| FOX LIFE HD     | qaa<br>spa        |  |  |
| GOL             | nol<br>spa        |  |  |
| HOTEL PPV       | und               |  |  |
| La 1            | qaa<br>spa        |  |  |
| La 2            | qaa               |  |  |

SELECT ALL  SAVE 

The services will appear in the devices in the order of the right column. You can reorder them, drag and dropping the service clicking over  icon.

KIDS ADD MANUALLY +

| SERVICE LISTING |                   |   | SELECTED SERVICES |                |            |   |
|-----------------|-------------------|---|-------------------|----------------|------------|---|
| 24h             | qaa<br>spa        | > | 1                 | Disney Channel | eng<br>spa | X |
| 3sat            | ger<br>mis<br>mul | > | 2                 | Clan           | qaa<br>spa | X |
| BEIN SPORTS     | ndl<br>qaa<br>spa | > | 3                 | KIKA           | ger<br>mis | X |
| COMEDYCENTRALHD | qaa<br>spa        | > |                   |                |            |   |
| FOX LIFE HD     | qaa<br>spa        | > |                   |                |            |   |
| GOL             | nol<br>spa        | > |                   |                |            |   |
| HOTEL PPV       | und               | > |                   |                |            |   |
| La 1            | qaa<br>spa        | > |                   |                |            |   |
| La 2            | qaa               | > |                   |                |            |   |

SELECT ALL SAVE >

Finally, Device Manager allows the integration of external IP services (coming from 3rd party systems) for management in the same network. To add the information of external IP services, select ADD MANUALLY to open the fields to fill and set Service Name, IP address and Port. Once done, push SAVE AND ADD button.

CANCEL ↑

HOTEL INFO CHANNEL

239.255.4.87      1234

SAVE AND ADD ↓

When the service listing is configured, push SAVE button. Repeat the same process with all the services listings.

### 5.3 Commands Manager

Device Manager App is used to command the devices (TVs or STBs). Device Manager App can send 4 distinct commands:

- **POWEROFF/POWERON:** it is used to switch off or switch on one or several devices remotely.
- **SERVICES LISTING:** it is used to publish a service listing to one or several devices, allowing the control of the content available in each TV. The final user only will be able to make channel hopping among the channels of the service listing.
- **SET SERVICE:** it is used to set remotely the content to be reproduced in each TV.
- **MUTE:** it is used to mute or unmute one or several devices remotely.

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**NOTE:** POWEROFF/POWERON command is not supported in SAMSUNG TVs

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To open the Commands Manager window, from Device Manager App window go to MENU→COMMANDS MANAGER.

COMMANDS MANAGER

SELECT ALL  COMMAND

ROOMS

|                          | TV       | SERVICE LISTING | SERVICE | AUDIO   | POWER | STATE          |
|--------------------------|----------|-----------------|---------|---------|-------|----------------|
| <input type="checkbox"/> | Room 201 | Default (Full)  | La 1    | Unmuted | On    | Connected      |
| <input type="checkbox"/> | Room 202 | Default (Full)  |         | Unmuted | Off   | Not Registered |
| <input type="checkbox"/> | Room 203 | Default (Full)  |         | Unmuted | Off   | Not Registered |

GYM

|                          | TV      | SERVICE LISTING | SERVICE | AUDIO   | POWER | STATE          |
|--------------------------|---------|-----------------|---------|---------|-------|----------------|
| <input type="checkbox"/> | Fitness | Default (Full)  | La 1    | Unmuted | On    | Connected      |
| <input type="checkbox"/> | Spa     | Default (Full)  |         | Unmuted | Off   | Not Registered |

Select the devices that should receive the command, clicking over the box next to the device name (or over the box of the group of devices). Select the command in the COMMAND list.

COMMANDS MANAGER

DESELECT ALL  COMMAND

ROOMS

- POWEROFF/POWERON
- SERVICE LISTING
- SET SERVICE
- MUTE

Room 201

Room 202

Room 203

GYM

|                                     | TV       | SERVICE LISTING | SERVICE | AUDIO   | POWER | STATE          |
|-------------------------------------|----------|-----------------|---------|---------|-------|----------------|
| <input checked="" type="checkbox"/> | Room 201 | Default (Full)  | La 1    | Unmuted | On    | Connected      |
| <input checked="" type="checkbox"/> | Room 202 | Default (Full)  |         | Unmuted | Off   | Not Registered |
| <input checked="" type="checkbox"/> | Room 203 | Default (Full)  |         | Unmuted | Off   | Not Registered |

|                                     | TV      | SERVICE LISTING | SERVICE | AUDIO   | POWER | STATE          |
|-------------------------------------|---------|-----------------|---------|---------|-------|----------------|
| <input checked="" type="checkbox"/> | Fitness | Default (Full)  | La 1    | Unmuted | On    | Connected      |
| <input checked="" type="checkbox"/> | Spa     | Default (Full)  |         | Unmuted | Off   | Not Registered |

### 5.3.1 Poweroff/poweron

Select POWEROFF/POWERON command. A new window will open.

## POWEROFF/POWERON

Select the power state for the selected TVs and send the command immediately

Poweroff
  Poweron

Select the desired power state (in the example, poweroff) and push SEND button.

### 5.3.2 Service Listing

Select SERVICE LISTING command. A new window will open.

## SERVICE LISTING

Select the Service Listing to use for the selected TVs and send the command immediately

Default (Full)

KIDS

SPORTS

NEWS

Select the desired service listing (in the example, Default) and push SEND button.

### 5.3.3 Set service

Select SET SERVICE command. A new window will open.

## SET SERVICE

Select the Service to set for the selected TVs and send the command immediately

24h

3sat

BEIN SPORTS

Clan

COMEDYCENTRALHD

Disney Channel

FOX LIFE HD

GOL

HOTEL INFO CHANNEL

Select the desired service (in the example, HOTEL INFO CHANNEL) and push SEND button.

### 5.3.4 Mute

Select MUTE command. A new window will open.

## MUTE

Select the mute state for the selected TVs and send the command immediately

Mute
  Unmute

**SEND** >

Select the desired mute state (in the example, Mute) and push SEND button.

You can review the complete status of the device using Commands Manager window.

COMMANDS MANAGER

SELECT ALL
  COMMAND

ROOMS

| TV                                | SERVICE LISTING | SERVICE            | AUDIO   | POWER | STATE          |
|-----------------------------------|-----------------|--------------------|---------|-------|----------------|
| <input type="checkbox"/> Room 201 | Default (Full)  | HOTEL INFO CHANNEL | Unmuted | On    | Connected      |
| <input type="checkbox"/> Room 202 | Default (Full)  |                    | Unmuted | Off   | Not Registered |
| <input type="checkbox"/> Room 203 | Default (Full)  |                    | Unmuted | Off   | Not Registered |

GYM

| TV  | SERVICE LISTING | SERVICE     | AUDIO   | POWER | STATE          |
|---|-----------------|-------------|---------|-------|----------------|
| <input checked="" type="checkbox"/> Fitness | SPORTS          | BEIN SPORTS | Muted   | On    | Connected      |
| <input type="checkbox"/> Spa                | Default (Full)  |             | Unmuted | Off   | Not Registered |

## 6. USERS MANAGEMENT

Ikusi Flow allows that a specific user access to Device Manager app directly, avoiding to go through the rest of the options of the headend.

To do that, first of all, you must create a new user in Ikusi Flow. Go to MENU→ADVANCED CONFIGURATION→ Device Manager users management.

DEVICE MANAGER USERS MANAGEMENT

NO USERS

To add a new user, push NEW USER button. A window as the below one will open.

## NEW USER

USER:

LANGUAGE:

DESCRIPTION:

For best security, password should be more than 6 characters long, using upper with lower case letters and numbers.

PASSWORD:

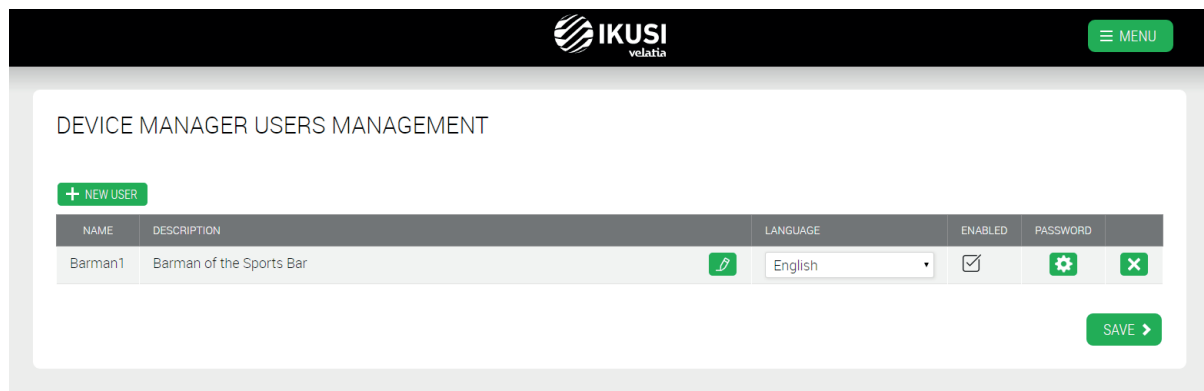
REPEAT THE PASSWORD:

**ADD USER >**

Fill the parameters of the new user:

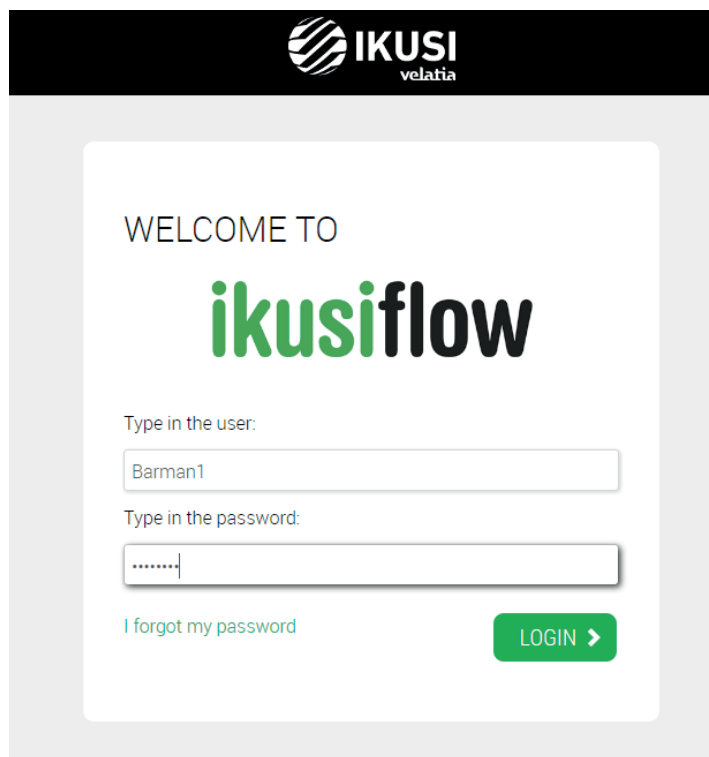
- **USER:** name with which the new user will be identified (in the example, Barman1)
- **LANGUAGE:** language in which Device Manager app will be displayed
- **DESCRIPTION:** free text to describe the new user
- **PASSWORD:** password to check that the access is correct
- **REPEAT THE PASSWORD:** security check of the password

After filling all the fields, push **ADD USER** button. **USERS MANAGEMENT** window will be displayed.



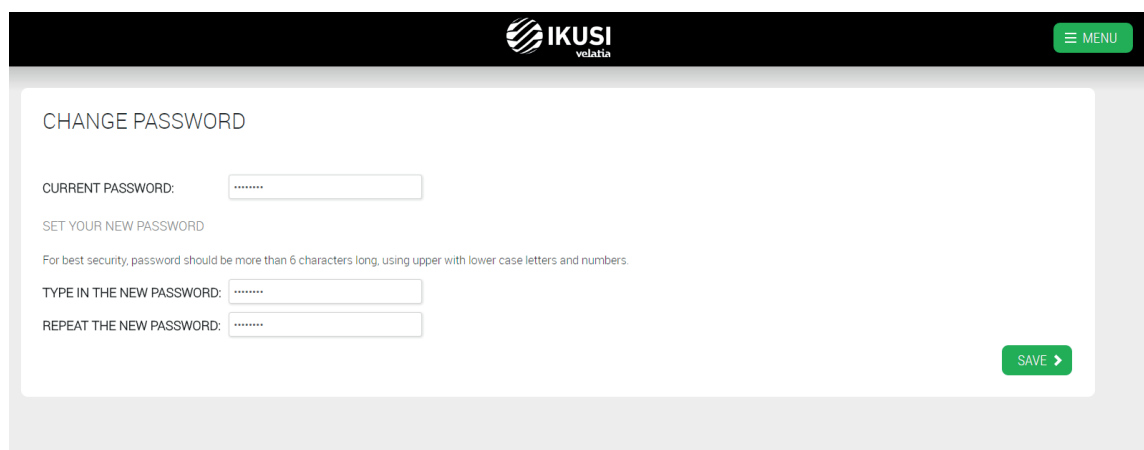
Push **SAVE** button in order to finish the new user registration. From there, Ikusi Flow access menu, will ask for the password, and the user. Type admin to enter as a global user. Otherwise, when you only want to access to Device Manager, type the newly created user name.





The image shows the login page for ikusiflow. At the top left is the IKUSI velatia logo. The main heading is "WELCOME TO ikusiflow". Below this, there are two input fields: "Type in the user:" with the text "Barman1" and "Type in the password:" with a masked password ".....". A link "I forgot my password" is located below the password field. A green "LOGIN >" button is at the bottom right.

Device Manager window will open directly. Its behaviour is the same as the one described in section 5. The only difference is there is a new option in the menu: PASSWORD.



The image shows the "CHANGE PASSWORD" screen. At the top left is the IKUSI velatia logo and at the top right is a "MENU" button. The main heading is "CHANGE PASSWORD". Below this, there are three input fields: "CURRENT PASSWORD:" with a masked password ".....", "SET YOUR NEW PASSWORD" with a sub-heading "For best security, password should be more than 6 characters long, using upper with lower case letters and numbers.", "TYPE IN THE NEW PASSWORD:" with a masked password ".....", and "REPEAT THE NEW PASSWORD:" with a masked password ".....". A green "SAVE >" button is at the bottom right.

Use this option to modify the password of the current user.



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