

Gekkota G3 Web UI – user guide

September 2016 Version 001A



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1 Introduction

The goal of this document is to help customer to use Gekkota Web UI

2 Feature WebUI

WebUI is available by typing IP address (V4 or V6) on a Web browser (Mozilla Firefox, Google Chrome).

The default login/password is admin/admin.

When any activity has not been detected since 5 minutes, the user is disconnected.

2.1 WebDAV directory /.playout/ (default)

The WebDAV default directory is /.playout/



The webDAV directory /.Playout/ is containing

WebDAV directory (or file)	Description
.medias/	Directory containing the required medias to play the playout in any conditions
.scripts/	Directory containing the scripts to execute
<u>Manifest.xml</u>	File containing the list of required media
<u>Player.xpf</u>	File containing the medias and tasks to play depending on calendar time
<u>Variables.xml</u>	File containing the required variables used for this playout

The WebDAV directory /.Playout/ page is containing also

Hyperlink	Description
Console d'administration	Web page permitting to configure the player
	Clicking on this link permits to go to /.admin/ WebDAV directory
<u>Journaux</u>	Web page to access to player log (software download, configuration script
	download, debug log when some of them are activated by the support)
	Clicking on this link permits to go to /.log/ WebDAV directory



2.2 WebDAV directory /.status/

Permits to access to the player status <u>status.xml</u> file containing several important status which can be read for example by PlugnCast G3.

For more information, refer to Gekkota application note XML status.



2.3 WebDAV directory /.log/

Permits to display the player log page

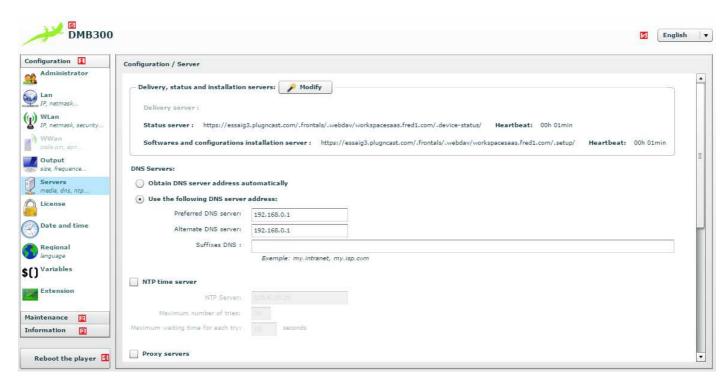


WebDAV directory (or file)	Description
.configuration/	Directory containing the <u>log4xpcom.xml</u> , configuration file to activate
	DEBUG/ERROR log (some of them could be activated by the support if
	required)
<u>Delivery-software_patch.log</u>	File containing the status of patch applying task
Delivery-software.log	File containing the status of software upgrading task
Playzilla.log	File containing the DEBUG/ERROR log of Gekkota (when activated by the
	support)



2.4 WebDAV directory /.admin/

Permits to display the player configuration page



A greyed menu is meaning that the features is not supported by the player which is used (in the example above, the menu WWAN is not available).

The page is displaying

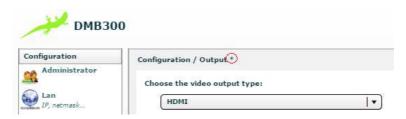
- Configuration
- Maintenance 2
- Information 3
- **Reboot the player 1**: button permitting to request player reboot when modification have been saved (the modifications are taken into account after the reboot)
- Langue: combo box permitting to dynamically change language of the WebUI 5
 - o Français
 - English
 - o Espagnol
 - Deutsch
- Player type 6: value automatically displayed depending on used player
 - o DMB300
 - o DMC200
 - o SMA300
 - o SMT210
 - o SMP200
 - o SMA200
 - o EEEBOX
 - o LCAN



MW-Windows

2.4.1 Configuration

- So that a modification is taken into account, the Web page need to be validated (button **Validate**) before rebooting the player.
- An asterisk character appears as soon as a modification is done



2.4.1.1 Administrator



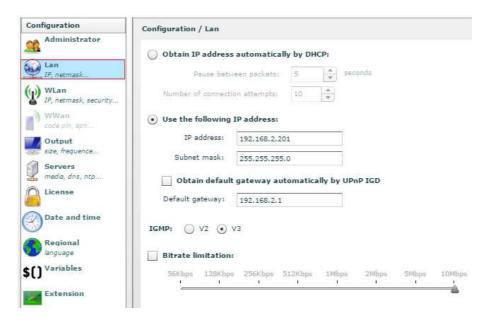
This interface permits to set:

- Hostname
- Identification method:
 - o MAC
 - o UUID
 - Hostname
 Note this identification method is used when the player in register in PlugnCast G3
- Administrator name: mandatory login* used to connect to the player WebUI or in Screen Composer G3 to connect to WebDAV server to update its playout.
- **Password**: mandatory password* used to connect to the player WebUI or in Screen Composer G3 to connect to WebDAV server to update its playout
- Confirm password: password confirmation when it is changed
 Default login/password for WebUI is admin/admin

2.4.1.2 LAN

All the player INNES have a LAN network interface:





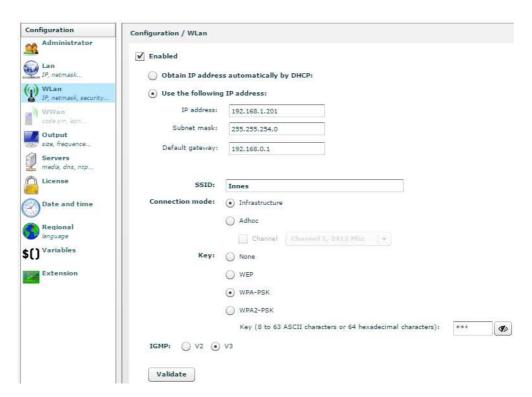
This interface permits to configure the LAN network interface:

- DHCP (Obtain IP address automatically by DHCP)
- Static IP (Use the following IP address). In this case the following parameters need to be filled
 - o IP address
 - Subnet mask
 - Default gateway
 - The option Obtain default gateway automatically by UPnP IGD can be activated if your network is supporting UPnP IGD
- IGMP *
 - o **V2**
 - o **V3**
 - *IGMP (Internet Group Management Protocol): est un protocole qui permet à des routeurs IP de déterminer de façon dynamique les groupes multicast qui disposent de clients dans un sous-réseau.
- **Bitrate limitation**: permits to limit the network bandwidth used by your player (useful when managing several players to not overload the network)

2.4.1.3 WLan

This interface permits to configure Wireless network interface (WIFI):





The WLAN network interface is a hardware option (card + antenna) embedded when ordering a player. Please contact sales@innes.fr for more information. When the option WLAN is not mounted, the menu is greyed according to.

- Enabled: WIFI network interface can be activated (enabled) or inactivated
 - DHCP (Obtain IP address automatically by DHCP)
 - Static IP (Use the following IP address). In this case the following parameters need to be filled
 - IP address
 - Subnet mask
 - Default gateway
 - o SSID (Service Set Identifier): name of your WIFI network
 - Connection mode
 - Infrastructure: used when your player is connecting to WIFI router
 - Ad hoc: used when your player has to connect directly to another WIFI device
 - Channel (1 to 11): in Ad hoc connection mode, the channel number has to be specified
 - Key
 - None : no key is used
 - WEP: in case WEP WIFI key is required
 - WPA-PSK: in case WPA WIFI key is required
 - WPA2-PSK: in case WPA2 WIFI key is required
 - **Key**: when required enter the WIFI key
 - o IGMP*
 - V2
 - V3

^{*}IGMP (Internet Group Management Protocol): est un protocole qui permet à des routeurs IP de déterminer de façon dynamique les groupes multicast qui disposent de clients dans un sous-réseau.



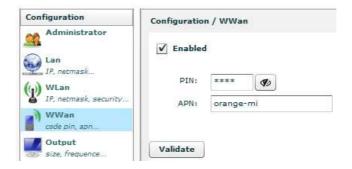
Caution: in case you have entered a WIFI configuration which is in conflict with LAN interface, you should not be able to connect to the player:

- neither with LAN interface with IPV4 address,
- nor with WIFI interface.

To solve the issue, reconnect the ethernet cable and connect to the player on LAN interface with the IPV6 of the player. For more information refer to Gekkota application note Network configuration recovery.

2.4.1.4 WWan

This interface permits to configure WWAN network interface (3G in french):



The WWAN network interface is a hardware option (card + antenna) embedded when ordering a player. Please contact sales@innes.fr for more information. When the option WWAN is not mounted, the menu is greyed according to.

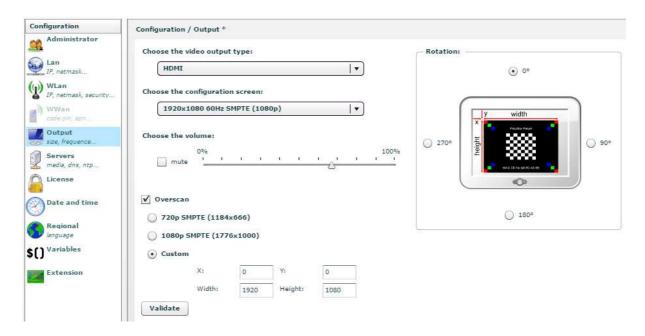
- Enabled: WWAN network interface can be activated (enabled) or inactivated*
 - o PIN: enter the PIN code of your Internet and mobile service provider
 - APN: enter the APN of your Internet and mobile service provider
 *SIM card is required to support WWAN

2.4.1.5 Output

This interface permits to configure audio-video output :

Note: This interface is not available on MS-Windows





- Choose the video output type (depending on the video cable type you have)
 - o HDMI*
 - o VGA*
 - o RGBHV on DVI-I (VGA) *
 - Digital + RGBHV on DVI-I (HDMI + VGA) *
 - *All the video output types are not supported for all the player
- Choose the configuration screen: permits to choose output between a large choice of resolution / frequencies / mode
 - o "96x96 60Hz"
 - o "112x96 60Hz"
 - o "128x96 60Hz"
 - o "640x480 60Hz"
 - o "800x600 60Hz VESA"
 - o "1024x576 60Hz VESA"
 - o "1024x576 50Hz VESA"
 - o "1024x600 60Hz DENSITRON 84-0188-001T"
 - o "1024x768 60Hz VESA"
 - o "1024x768 60Hz XGA"
 - o "1280x720 60Hz VESA"
 - o "1280x720 50Hz VESA"
 - o "1280x720 60Hz SMPTE (720p)"
 - o "1280x720 50Hz SMPTE (720p)"
 - o "1280x720 60Hz CEA"
 - o "1280x720 50Hz CEA"
 - "1280x720 60Hz SONY"
 - "1280x720 60Hz SAMSUNG"
 - "1280x720 60Hz CGV CPLine AV-HD"
 - o "1280x720 60Hz CEA-861"
 - "1280x720 50Hz CEA-861"

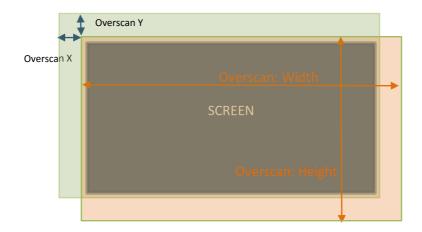


- o "1280x768 60Hz VESA"
- o "1280x768 50Hz VESA"
- "1280x800 60Hz VESA"
- o "1376x768 60Hz VESA"
- o "1376x768 50Hz VESA"
- "1376x768 60Hz PC"
- o "1920x1080 50Hz VESA"
- o "1920x1080 60Hz VESA"
- o "1920x1080 50Hz CEA"
- o "1920x1080 60Hz CEA"
- o "1920x1080 50Hz SMPTE (1080p)"
- o "1920x1080 60Hz SMPTE (1080p)"
- o "1920x1080 60Hz CEA-861"
- "1920x1080 50Hz CEA-861"

Some player mat not support all the resolutions

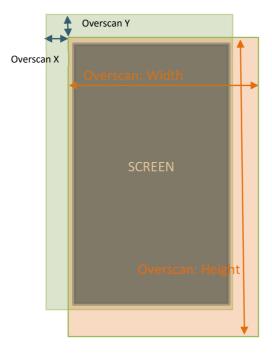
- Choose the volume: permit to limit the audio volume of the player
 - Mute: the audio is muted
 - o **0 to 100%**: permits to settle the maximal audio volume in % of audio volume range
- **Overscan**: permits to reduce the useful information in a smaller resolution, and inserting black banner on the edge if required
 - o 720 SMTPE (1184x666)
 - o 1080p SMTPE (1776x1000)
 - o Custom
 - X
 - V
 - Width
 - Height

Paysage





Portrait



The overscan has to be activated in yout player when your TV Set (or monitor) does not display properly the edge of the video viewport (in the screen shot below, the red squares are not displayed entirely, meaning that some video information is missing)

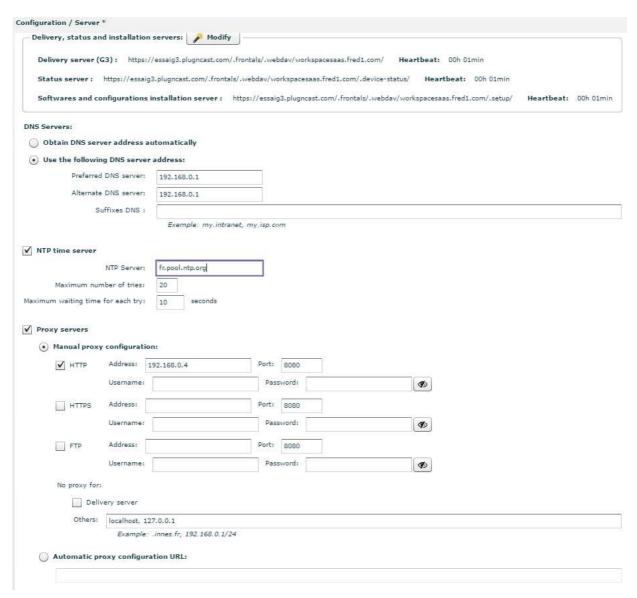




2.4.1.6 Servers

This interface permits to configure

- PlugnCast server URL (if required)
 - o Note: you need to have a PlugnCast CMS to work with:
 - PlugnCast G2 or
 - PlugnCast G3
- DNS Servers (if required)
- NTP server (if required)
- Proxy servers





2.4.1.6.1 Description of the interface configuration / Server

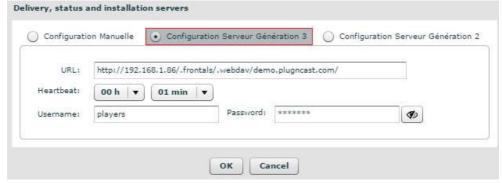
- Configuration / Server
 - Delivery, status ans installation servers / Button Modify



- To work with PlugnCast G2
 - Select Configuration serveur Génération 2
 - URL: URL of your PlugnCast G2 server
 - Heartbeat : settle the frequency of connections to PlugnCast G2 for updates
 - o Ex: 10 min



- To work with PlugnCast G3
 - Select Configuration serveur Génération 3
 - URL: URL of your PlugnCast G3 frontal where the player is registered
 - o **Username**: username of PlugnCast G3 frontal where the player is registered
 - Password : password of PlugnCast G3 frontal where the player is registered
 For more information, see also appendix Frontal PlugnCast G3
 - Heartbeat: settle the frequency of connections to PlugnCast G3 for updates
 - o **Ex**: 10 min

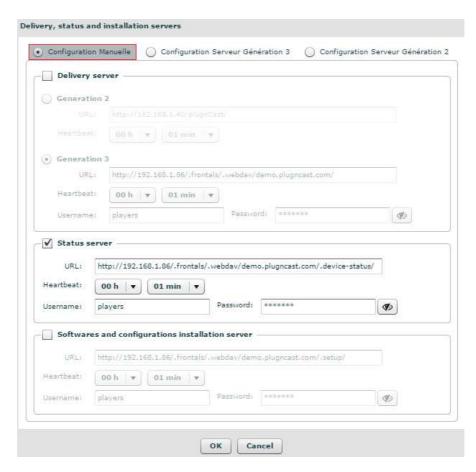


Then when you go to **manual configuration**, you can notice that all the mandatory fields to work in PluugCast G3 configuration have been set properly (URL for PlugnCast, URL for status, URL for software and configuration)

- To configure Status server (only) (URL of your serveur WebDAV able to host device status)
 - Select Manual Configuration
 - Unselect Deliver server
 - Unselect Softwares and configuration installation server
 - Select status server
 - URL: URL of your WebDAV serveur
 - o Username: username of WebDAV serveur



- Password: password of WebDAV serveur
 Note: the URL of PlugnCast G3 frontal where the player is registered is pointing on a WebDAV server
- **Heartbeat**: settle the frequency of connections to WebDAV to update device status
 - Ex:10 min



- To change your default Software installation server (URL of your serveur WebDAV able to host device version) (PlugnCast G3 configuration only)
 - Select Manual Configuration
 - Select **Deliver server**
 - Select Status server
 - Select Softwares and configuration installation server
 - o **URL**: URL of your WebDAV server for software version hosting
 - o **Username**: username of WebDAV server
 - Password : password of WebDAV server
 Note : the URL of PlugnCast G3 frontal where the player is registered is
 - pointing on a WebDAV server
 - **Heartbeat**: settle the frequency of connections to WebDAV to update device status

Ex: 10 min

- Delivery, status and installation servers / Delivery server: recap of the configuration
- o Delivery, status and installation servers / **Status server**: recap of the configuration
- Delivery, status and installation servers / **Softwares and configuration installation**: recap of the configuration



2.4.1.6.2 Description of the interface DNS server

- DNS Server
 - Obtain the DNS server address automatically
 - Use the following DNS server address
 - Preferred DNS server :
 - You can choose by example the public one of Google: 8.8.8.8
 - Alternate DNS server :
 - You can choose by example the public one of Google: 8.8.4.4
 - Suffix DNS
 - Permits to define a default domain suffix
 - o For example, the URL PlugnCast G2 below
 - URL:
 - http://support.innes.pro/plugnCast/
 - o can be replaced by
 - URL:
 - http://support/plugnCast/
 - DNS Suffixe
 - innes.pro

2.4.1.6.3 Description of the interface NTP Time server

This interface permits to configure NTP server so that the player is always on time (if the NTP server is available!)

- NTP server : entrer the domaine or IP address of your NTP server
- Maximal number of tries: in case connection failure when player is starting-up, you can settle the number of attempts before considering that the NTP is not working properly
- Maximal waiting time for each try: duration between two attempts

Note: The server can be local to your network or on the Web. The NTP server latency is more important on a Web server than a NTP server running on the local network.

Note: when NTP is activated, and network not available, the player could display black screen (background playzilla color) for few minutes (ex: 8 minutes) when the player is starting-up.

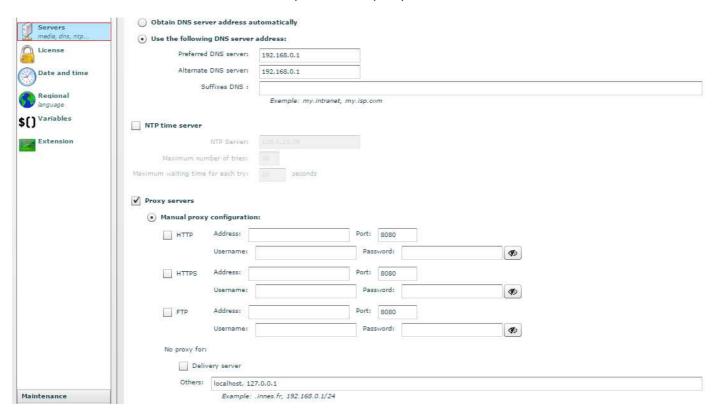
2.4.1.6.4 Description of the interface Proxy server

This interface permits to use a existing proxy available on your network.

- Proxy servers
 - Manual proxy configuration
 - HTTP
 - IP address
 - Port
 - Username
 - Pass
 - HTTPS
 - IP address
 - Port
 - Username



- **Pass**
- FTP
- IP address
- **Port**
- Username
- **Pass**
- No proxy for :
 - **Deliver server**: permits to set your PlugnCast server as exception for the proxy
 - Others: enter the exception for the proxy



2.4.1.7 License

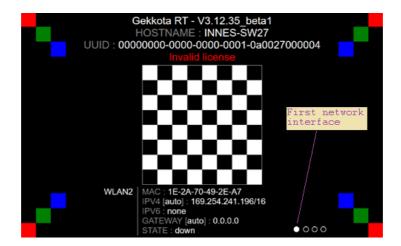
This interface permits to enter a license « Playzilla ».

For MS-Windows player, once Gekkota is installed on your PC-Windows, send a email containing the MAC address on your first network interface to support@innes.fr. An email should be replied with the Playzilla licence for your player.

Note : the first network interface is displayed when the white dot is on the left







Note: When they are delivered to customer, all others players INNES (except MS-Windows) are provided with a valid license.

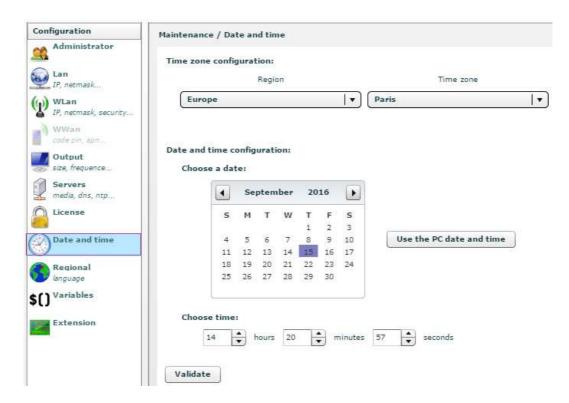
Configuration / Licence du middleware : copy paste the license (sent by mail)



2.4.1.8 Date and time

This interface permits to adjust the time and date of the player.





Region

Africa	Australia	Indian
America	Brazil	Mexico
Antartica	Canada	Mideast
Artic	Chile	Pacific
Asia	Etc	US
Atlantic	Europe	

Time Zone

Amsterdam	Lisbon	Simferopol
Andorra	Ljubljana	Skopje
Athens	London	Sofia
Belfast	Luxembourg	Stockholm
Belgrade	Madrid	Tallinn
Berlin	Malta	Tirane
Bratislava	Minsk	Trospol
Brussels	Monaco	Uzhgorod
Bucharest	Moscow	Vaduz
Budapest	Nicosia	Vatican
Chisinau	Oslo	Vienna
Copenhagen	Paris	Vilnius
Dublin	Prague	Warsaw
Gibraltar	Riga	Zagreb
Helsinki	Rome	Zaporozhye
Istanbul	Samara	Zurich
Kaliningrad	San_Marino	
Kiev	Sarajevo	



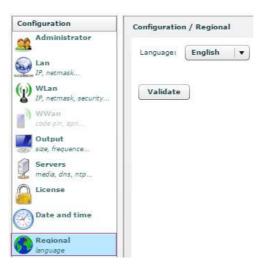
- Date and time configuration
 - Adjust date and time with
 - Choose a date
 - Choose a time
 - Or **Use the PC date and time**: permits to directly get the time and date from now

Note: Changing the date should make reboot the player automatically

2.4.1.9 Regional

This interface permits to settle the language of the messages displayed by the player:

- Error message
- Player state
- Language
 - English
 - Français
 - Espagnol
 - Deutsch



2.4.1.10 Variables

This interface permits to give value (format string) to some predefined variable. These variable can be then used by the CMS to play some media depending on the player values.

- o Field 1:
- o Field 2
- o Field 3
- o Field 4
- o Field 5

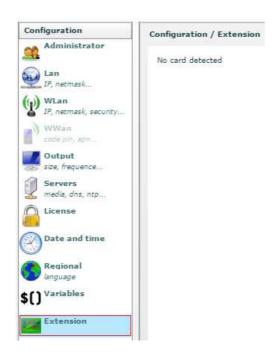




2.4.1.11 Extension

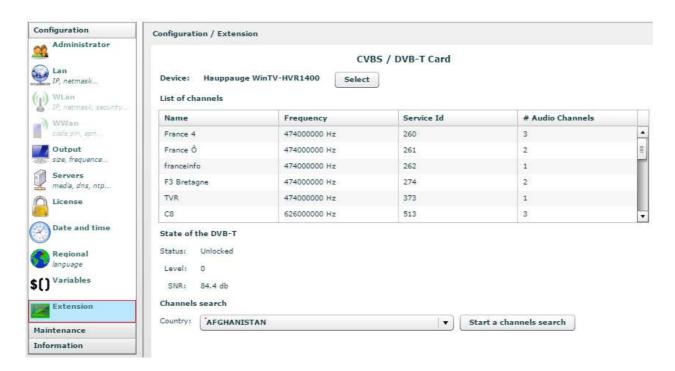
This interface permits to detect daughter board on Express connector, like the Express Card DVB-T Hauppauge (generally installed when the player is ordered at INNES premises).

If your DMB300 or DMC200 is not equipped with this Express card DVB-T you should see this screen (this menu is not useful).



When your DMB300 (or DMC200) is equipped with this Express card DVB-T Hauppauge, you should see this screen when DVB-T service are installed:





Device: Hauppauge WinTV-HVR1400
 The button select permits to choose another express card installed.

• List of channels (example for France)

6ter	France 4 HD	LCI
Arte	France O HD	LCP
BFM TV	France	M6
C8	5	NRJ12
CANAL	France	NT1
Chérie 25	Info	Numéro 23
CNews	Gulli	RMC Découverte
CStar	HD1	TF1
F3 Bretagne	iTélé	TMC
France 2 HD	L'Equipe 21	W9

State of the DVB-T

 Status: « locked » is written when the digital DVB-T reception is correct (and when a channel service is selected). Else « unlocked »

Level: 0 (not implemented)

• SNR:dB

- Channels search
 - FRANCE
 - UNITED KINGDOM
 - SPAIN
 - GERMANY
 - **.** ..
- Start a channels search: permits to launch a new channel search (scanning) (mandatory when typically no channel search has been done before). When the channel search is launched, the previous service list is erased. When the channel search is done, the channel bandwidth 6 or 7 or 8 MHz is settled according to the selected country.



Note: if case DVB-T reception is not correct, some service could not be installed, or some of them could not be decoded (content temporarily unavailable (code <0>).

Note: HD channel decoding is supported on DMB300 & DMC200.

Note: HD channel decoding is not supported with USB DVB-T card (MS-Windows) when channel audio is EAC3.

2.4.2 Maintenance

2.4.2.1 Test card



This toggle button permits to display test card ("mire de test" in french). When the test card is activated the playout cannot be played.

- **Disable test card**: permits to not display the specific screen below and play the playout again.
- Enable test card: permits to display a specific screen on video output



The test card is displaying one network interface at a time. In case your player has more than one network interface, the test card is changing the network interface displayed.

In the example below the widget ooo is indicating that the test card is displaying the parameters for the 4th network interface.

When your player output is well calibrated, the 4 red squares has to be displayed with the same size as the green and the blue one. Else go the Configuration/output to settle the overscan. Invalid licence is only displayed when the player has not a valid licence.

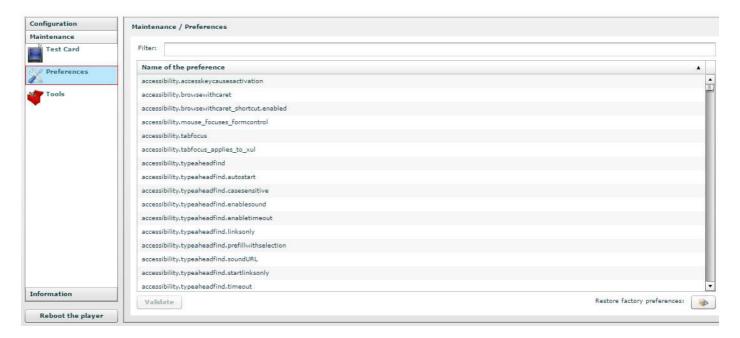


2.4.2.2 Preferences

The interface "Preferences" permits to change Gekkota preferences.

Caution: it is not advised to change preferences except if recommended by Innes support

The button "Restore factory preferences" permits to restore the preferences values as they were when the product has been built and qualified in production

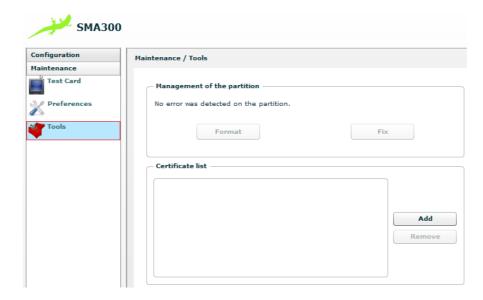


2.4.2.3 Tools

This interface permits to

- Request a SD card partition "formatting" (Format) or "repairing" (Fix).

 Note: The button Format of Fix are available when error on SD card file system has been detected by the player itself (or when file system format is not compatible). Typically, when a SD card FAT32 is inserted, these buttons are available
- Add one or several certificate required to access to some Web site or some Web server (https)





2.4.3 Information

2.4.3.1 General

This interface permitts to display information on the player

- **Firmware version**: version of embedded software "Gekkota" running on the player.

 Note: This software Gekkota can be upgraded or downgraded. Different release are available on Web site http://www.innes.pro/fr/support.
- Model: player type (DMB300, SMA300, DMC200, SMT210, MS-Windows)
- MAC: MAC address of the first network interface of the product
- **UUID**: Universal Unic Identifier
- SN: serial number affected when the hardware product has been built

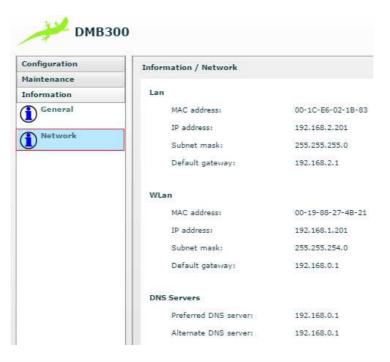


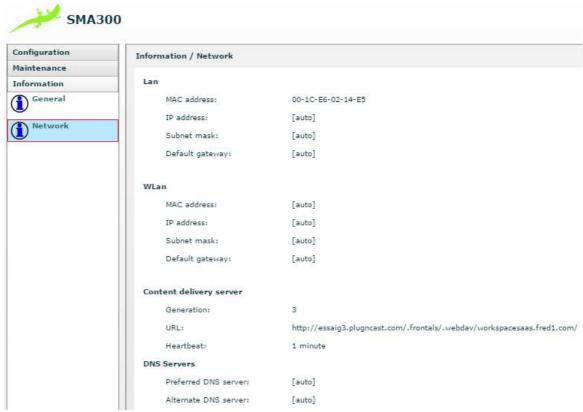
2.4.3.2 Network

This interface is permitting to display information on network interface of the player.

- LAN
 - o MAC address
 - o IP address
 - Subnet mask
 - o Default Gateway
- WLAN
 - MAC address
 - IP address
 - o Subnet mask
 - Default Gateway
- Content delivery server*
 - o Generation: 2 (or 3) corresponding to PlugnCast version 2 or version 3
 - o **URL:** URL of your PlugnCast server
 - Heartbeat: periodicity of connection to PlugnCast server
 *configuration PlugnCast only
- DNS Servers
 - o Preferred DNS Servers
 - Alternate DNS Servers









3 Appendix

3.1 List WebDAV directories

It is possible to list all WebDAV directories with the command below

http://<player IP Addr>/?list directory

3.2 Frontal PlugnCast G3

In order to get the URL of your PlugnCast frontal

- Connect to your PlugnCast G3 server
- Select your domain (at the top right corner)
- Go into the menu Paramètres > Domaines
- Select your domain and edit it (in the example, demo.plugncast.com)
- Select the frontal (in the example, there is ony one frontal built-in : « demo »)
- Go in Propriétés
 - o Copy
 - URL
 - Identifiant
 - Password
 - o And paste into WebUI configuration / server / PlugnCast G3

