iEAST virtual devices for Fibaro Home Center

developed and tested by IBDL BV
10.2017

iEAST Player LITE

Simple controller of iEAST audio devices for HCL. Works with all iEAST models. Controls playback, volume and sources.

Compatibility:

- HCL and HC2
- All iEAST devices (StreamAMP AMP-i50B, AM160, StreamPRO M30, SoundStream M20 and also AudioCast M5)
- Latest list of iEAST devices at iEASTAudio.com

Functions:

- Playback control (Play/Pause/Stop/Next/Prev)
- Volume control, mute on/off
- Source selector (USB/BT/Auxt)
- Play presets (links to iRadio, Spotify, Tidal playlist and more)
- Play iRadio or other URL streams

Installation:

- After installation you have to set IP Address of iEAST device
- Buttons ♫ **1-4** play sample internet radio stations from shoutcast.com, can be easily updated and/or multiplicated.
- TCP Port shall be set to 80.

Limitations:

- This Virtual Device use simple HTTP communication by sending commands via HTTP GET command. It is one-direction communication, HCL cannot obtain any result returned by device, cannot check if device is connected, cannot read devices' status, etc.
- IP Address of iEAST device must be provided manually. It can be found at iEAST mobile application. iEAST devices obtain IP addresses from DHCP server, it is recommended to setup router/DHCP server to fix IP assignment with iEAST device MAC address.

ZIP file for download:

- vfib Virtual Device file to import to your Home Center
- PNG icon
- PNG screenshot
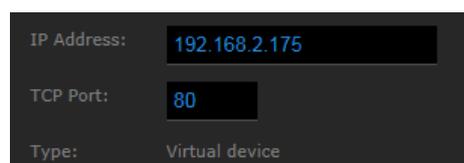
iEAST Player

Full control for iEAST audio device. Works with all iEAST models.
Version: 1.0.1 (v.1.0.1 2017.10.08)

Compatibility:
- HC2
- All iEAST devices (StreamAMP AMP-i50B, AM160, StreamPRO M30, SoundStream M20 and also AudioCast M5) with firmware version v3.6.4xxx or newer
- Latest list of iEAST devices at iEASTAudio.com

Functions:
- Playback status and fanart
- Playback control (Play/Pause/Stop/Next/Prev)
- Playback time and position
- Volume and mute control (also for connected slaves)
- Source selector (USB/BT/AUX)
- Play presets (links to iRadio, Spotify, Tidal playlist and more)
- Play iRadio or other URL stream
- Repeat modes
- Sleep timer settings and status
- Options for multiroom playback and sync
- Quick *solo mode* switch (disconnecting all slaves)
- Switch 🎨 for different sizes of fanart graphics and for hiding it when not supported (ex. via Fibaro mobile application)
- *Plays at* info, with names of iEAST Devices that are controlled (inc. list of connected slaves)
- Available json structure with full information about device and its state - for integration with scenes and other LUA code.
- VD deactivation option (VD stops network traffic)

Installation and initial configuration:
- After installation you have to set IP Address of iEAST device
- TCP Port shall be set to 80.

Name:	iEast Player
Room:	Unassigned
IP Address:	192.168.2.175
TCP Port:	80
Type:	Virtual device
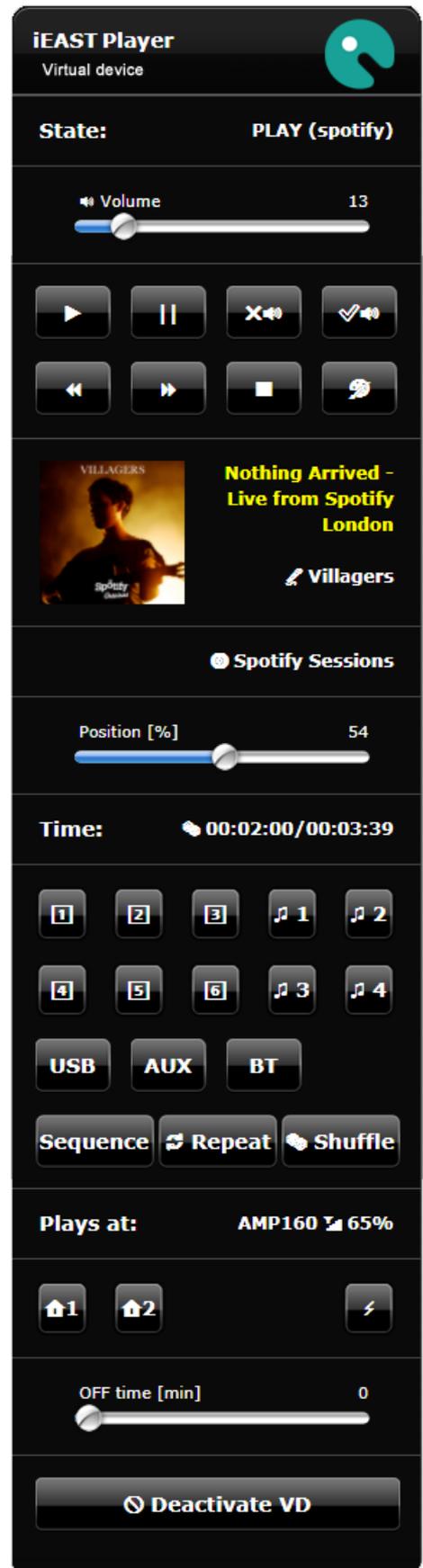
- Buttons ♫ **1-4** contain sample code for internet radio stations from shoutcast.com, can be easily updated and/or multiplicated.
- For multiroom synchronisation IP addresses of slave devices must be added to LUA code at buttons 🏠**1** and 🏠**2**. Button ⚡ disconnects all slaves. For installations with single device, line with buttons 🏠**1**, 🏠**2**,.., ⚡ can be removed.
- Icon numbers for 4 states: offline, online/idle, playing, inactive-VD, can be set in variables in the beginning of mainloop.
- *s_jPlayerState* structure available in mainloop is updated at every loop, and contains full information about state of device. Structure can be stored in global variable, or in a label at VD, for access from other LUA code (see and for *updateUI()* function)

Limitations:
- IP Address of iEAST device must be provided manually. It can be find at iEAST mobile app, after connecting device. iEAST devices obtain IP addresses from DHCP server, it is recommended to setup router/DHCP server to fix IP assignment for iEAST device MAC address.
- When device use Wifi as main connection to home network, and when is connected to a master (synchronized with other iEAST device) it cannot be controlled by this VD. VD loses connection with device.
- Older iEAST devices (firmware v3.6.3xxx or older) can work partly, some functions may not be available (as for example sleep timer)

ZIP file for download:
- iEast_Player.vfib file with Virtual Device, to import to HC2
- 4 PNG icons (can be used for states: offline, idle, playback, inactive VD)
- PNG screenshot

iEAST Controller + Clients

Full control for iEAST multiroom audio system. Works with all iEAST models.

Compatibility:
- HC2
- All iEAST devices (StreamAMP AMP-i50B, AM160, StreamPRO M30, SoundStream M20 and also AudioCast M5) with firmware version v3.6.4xxx or newer
- Latest list of iEAST devices at iEASTAudio.com

Functions (Controller VD):
- Monitors and shows connection state of all available devices
- Keep networked configuration of all devices and share it with Client VDs
- Network configuration available for developers (json)
- Global Play/Pause and Mute On/Off buttons
- Reports wifi signal strength
- Reports master-slave connections (master index is displayed in brackets)
- Multiroom configuration with sample code for connecting one device to a master, or all devices to one master. Button to cancel all master-slave connections
- VD **Start / Stop** option (to stop and activate network traffic when necessary – f.ex. off when home is empty)
- Option to **Scan** network, find and register all connected iEAST devices, option to **Clear** configuration.
- Option to force manual config of connected devices.
- IP-independent settings and device management (based on unique SSID names of devices)

Installation and initial configuration (Controller VD):
- Controller device have five "slots" (labels) for displaying states of 5 connected iEAST devices. Number of slots does not limit number of controlled devices, it is used only for showing states to the user. When more slots are required, can be added with proper name (*Device6*, *Device7* etc). User can also remove slots when has less than 5 devices.
- For multiroom configurations two sample codes are prepared at buttons 🏠**1** and 🏠**2**. To make it working user has to set proper SSID names of devices at the beginning of LUA code. One button is to connect to devices into master-slave relation. Second is to connect all devices to one master. Button ⚡ disconnects all the existing slaves, and switch all the devices into standalone mode.
- Manual configuration of devices can be entered into **Scan** (ButtonRescan) code (setManualConfiguration() function, that is not called by default). Manual configuration is required when devices cannot be scanned automatically due to some reasons.
- Icon numbers for 2 states: active/inactive VD, shall be set in variables in the beginning of mainloop.
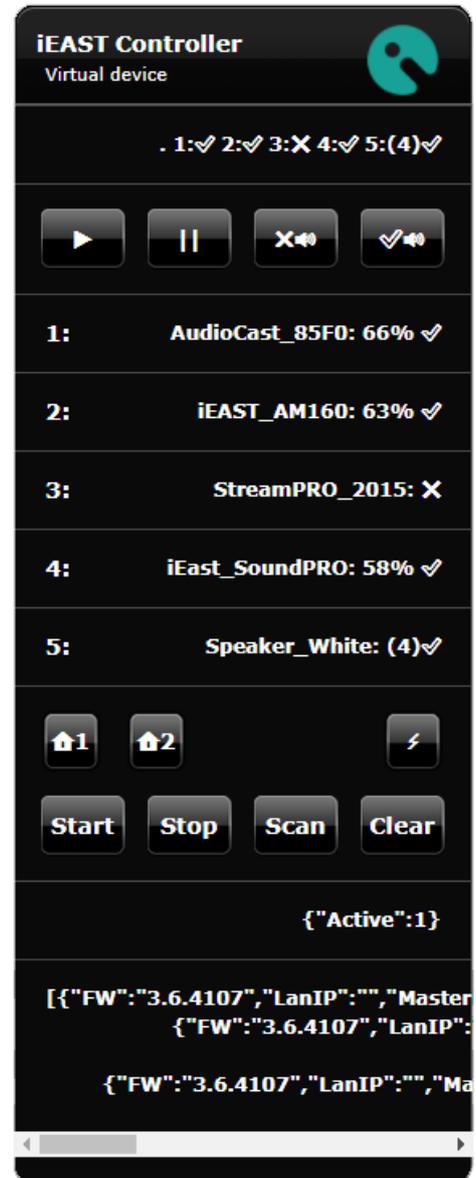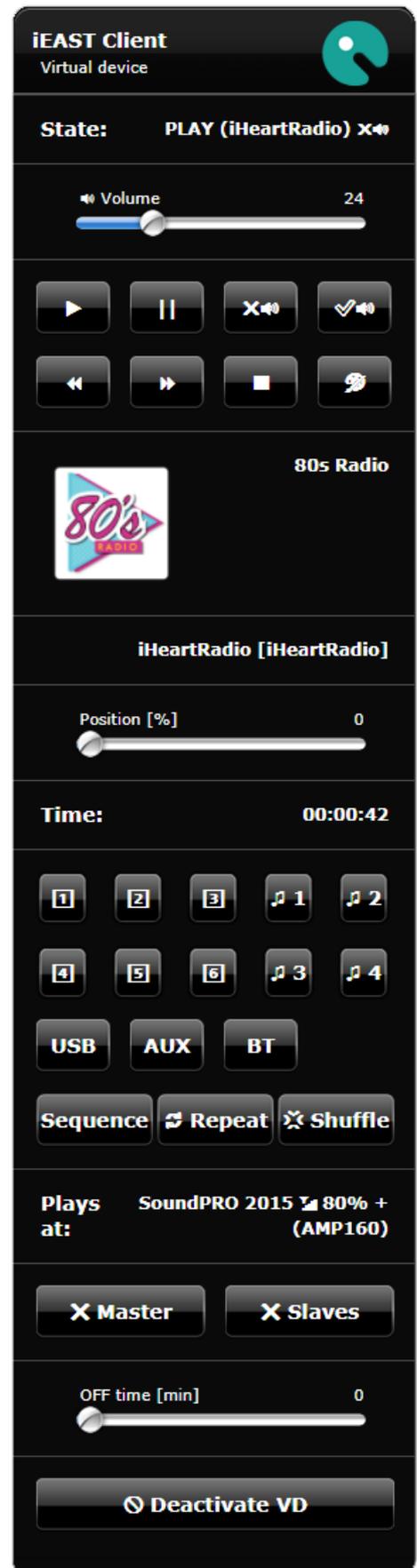
Functions (Client VD):

- One Client VD per one iEAST device, easy setup via SSID name (no IP configuration/setting required)
- Connects to iEAST Controller to obtain networked configuration of device
- Shows playback status and fanart
- Playback control (Play/Pause/Stop/Next/Prev)
- Shows and allow to change playback time and position
- Volume and mute control (also for connected slaves)
- Volume and mute control when device plays as a slave
- Source selector (USB/BT/AUX)
- Play presets (links to iRadio, Spotify, Tidal playlist etc, defined via mobile app)
- Plays iRadio or other stream by direct URL
- Repeat modes
- Sleep timer settings and status
- Quick *solo mode* switch (disconnecting all slaves)
- Button to disconnect from the master
- Switch 🎨 for different sizes of fanart graphics and for hiding it when not supported (ex. by Fibaro mobile application)
- *Plays at* info, with list of connected slaves
- VD deactivation option (VD stops connecting Controller and stops all network traffic)

Installation and initial configuration (Client VD):

- iEAST device SSID must be entered into *IP Address* field (can be found on the list of devices scanned by iEAST Controller, SSID can be also checked and updated by iEAST mobile application)
- ID of iEAST Controller virtual device must be entered into *TCP Port* field.

Name:	iEast Client
Room:	Unassigned
IP Address:	Speaker_White
TCP Port:	458
Type:	Virtual device

- Buttons ♫ **1-4** contain sample code for internet radio stations with URL from shoutcast.com, can be easily updated and/or multiplicated.
- Icon numbers for 5 states: offline, online/idle, playing, slave, inactive-VD, can be set in variables in the beginning of mainloop.

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iEAST Client
Virtual device

State: PLAY (iHeartRadio) ✖️🔊

🔊 Volume   24

▶   ‖   ✖️🔊   ✔️🔊

◀◀   ▶▶   ■   🎨

80s Radio

iHeartRadio [iHeartRadio]

Position [%]   0

Time: 00:00:42

[1] [2] [3] [♫1] [♫2]

[4] [5] [6] [♫3] [♫4]

USB   AUX   BT

Sequence   ↻ Repeat   ✕ Shuffle

Plays at: SoundPRO 2015 📶 80% + (AMP160)

✕ Master   ✕ Slaves

OFF time [min]   0

⊘ Deactivate VD

- *s_jPlayerState* structure available in mainloop is updated at every loop, and contains full information about state of device. Structure can be stored in global variable, or in a label at VD, for access from other LUA code (see and for *updateUI()* function)

Limitations:

- iEAST devices obtain IP addresses from DHCP server, it is recommended to setup router/DHCP server to fix IP assignment for iEAST device MAC address. Otherwise Rescan function at Controller VD will have to be called on each change.
- When device is connected to a master (synchronized with other iEAST device), Client VD can only control its volume (show, change, set mute on and off), and disconnect from the master. Other buttons and options are not active.
- Controller VD cannot find iEAST devices active as slaves and not connected via LAN (slave devices are not connected to local Wifi network) It is recommended to cancel all slave connections before rescan.
- Older iEAST devices (firmware v3.6.3xxx or older) can work partly, some functions may not be available (as for example sleep timer)

ZIP file for download:

- iEast_Controller.vfib file with Virtual Device, to import to HC2
- iEast_Client.vfib file with Virtual Device, to import to HC2
- 4 PNG icons (can be used for states: offline, idle, playback, inactive VD)
- PNG screenshots