Playlog user manual

The playlog is a feature allowing to report, in a local file, the name of all the media played during the day by a media-player, a tablet used as media player, or by an encoder/streamer.

The playlog local file can be, as option, daily flushed on a external HTTP/WebDAV server.

The playlog can be used afterwards, for example, for mediametry purpose.

1. Compatibility

- Qeedji devices
    - Gekkota OS 4.11.10 (or above) for devices:
        - DMB400,
        - SMA300,
        - DME204,
        - SMT210.
    - Gekkota RT 3.12.59 (or above).
- Configuration script for Qeedji devices:
    - configuration-by-script-V1.11.21.js (or above),
- Playzilla 4.11.11 (or above),
- Playlog-V1.10.10.js (or above),
- PlugnCast 3.10.50 (or above).

2. Assumptions

- The Qeedji devices are already registered on the PlugnCast server's frontal
- The Qeedji device are playing a playout (ex: *playout_PLOG*) with some timeslot having visual medias in the main zone which fills entirely the screen:
    - height: 100%,
    - width: 100%.
- Each playout requiring playlog does embed a specific *Playlog-V1.10.10.js* script,
- An optional external HTTP/WebDAV server is available for daily local file flushing.

> ☞ The media playback information is not printed in the playlog local file when a standby task is active.

3. Description

Once the daily local file is flushed successfully to the external HTTP/WebDAV server, it is deleted from the device and a new one is created. The temporary `playlog.tsv` local file is available in the `/.playlog` WebDAV directory of the device Web server: `http://<device_IP_addr>/.playlog/`.

When the device is properly configured and is playing some visual media in the main zone, the `playlog.tsv` file (default name for local file) is updated every 20 minutes (default period) and stored in the `http://<device_ip_addr>/.playlog/` WebDAV directory of the device.

> ☞ Click on `http://<device_ip_addr>/.playlog/playlog.tsv` to download the file and edit it with a text editor or with MS-Excel to view its content.

`playlog.tsv` file example:

```
2020-10-15T14:49:16.892Z     App-End
2020-10-15T14:49:24.825Z     App-Begin
2020-10-15T14:49:27.948Z     Play-Begin  udp://239.1.2.3:1234/
2020-10-15T14:50:08.228Z     Play-End    udp://239.1.2.3:1234/
2020-10-15T14:50:08.231Z     Play-Begin  .domain-repository/Books/MS-
PowerPoint/demo/demo.pptx
2020-10-15T14:51:13.815Z     Play-End    .domain-repository/Books/MS-
PowerPoint/demo/demo.pptx
2020-10-15T14:51:13.825Z     Play-Begin  http://www.innes.pro//
2020-10-15T14:51:53.697Z     Play-End    http://www.innes.pro//
2020-10-15T14:51:53.699Z     Play-Begin  udp://239.1.2.3:1234/
2020-10-15T14:52:09.910Z     Play-End    udp://239.1.2.3:1234/
2020-10-15T14:52:22.066Z     Play-Begin  .domain-repository/Books/MS-
PowerPoint/demo/demo.pptx
2020-10-15T14:53:25.531Z     Play-End    .domain-repository/Books/MS-
PowerPoint/demo/demo.pptx
2020-10-15T14:53:25.532Z     Play-Begin  http://www.innes.pro//
2020-10-15T14:54:04.879Z     Play-End    http://www.innes.pro//
2020-10-15T14:54:04.880Z     Play-Begin  udp://239.1.2.3:1234/
2020-10-15T14:54:04.883Z     Play-Error  udp://239.1.2.3:1234/
2020-10-15T14:54:14.927Z     Play-End    udp://239.1.2.3:1234/
```

Only the medias of the visual *main* zone of the playout are printed in the playlog local file meaning not those of:

- the optional audio zone,
- the main zone of a channel audio,
- the floating zones,
- the banner zones (left, right, top, bottom).

Playback events information keys	Information
`<timestamp> Play-Begin <absolute media file path name>`	The Playzilla App starts playing the media whose name is shown.
`<timestamp> Play-Error <absolute media file path name>`	The media whose name is shown is not played and an information message is returned to the user.
`<timestamp> Play-End <absolute media file path name>`	The Playzilla App stops playing the media whose name is shown.
`<timestamp> App-Begin`	The Playzilla App starts or restarts playing the media (timeslot start or loop).
`<timestamp> App-End`	The Playzilla App stops playing the media (timeslot end).
`<timestamp> Standby-on`	A device standby task has started. The media are not played anymore.
`<timestamp> Standby-off`	A device standby task has stopped.
`<timestamp> Reboot`	A reboot task has been launched.

To store the playlogs for several days, the playlog local file can be daily flushed on the external HTTP/WebDAV server into a file having the filename pattern: `playlog.<id>.<date-iso-utc>.tsv` with:

- `<id>`: device identification method value,
- `<date-iso-utc>`: UTC date of the file deposit on the external HTTP/WebDAV server (ISO_8601 format).

Device identification method	Example of file name on the external HTTP/WebDAV server
MAC	`playlog.00-14-2D-40-77-32.20190313T143036Z.tsv`
Hostname	`playlog.dmb400.20190315T140947Z.tsv`
UUID	`playlog.00c00081-0000-0000-0000-00142d407732.20190315T144356Z.tsv`

4. Publish your playout with PlugnCast G3

The *Playlog-V1.10.10.js* script needs to be inserted in **each playout** requiring playlog. Connect to the PlugnCast G3 Web UI:

- in the `Playout` view, select the approriate playout (ex: *playout_PLOG*) which has to support the playlog. In the `Properties` tab of the playout, drag the *Playlog-V1.10.10.js* script from the library to `Script to run` panel,
- in the `Target` view, affect the approriate playout (ex: *playout_PLOG*) to your device and publish the content.

Note: Playzilla 4.yy.zz for Gekkota RT 3.12.59 (and above):

The *Playlog-V1.10.10.js* script can run only with `Playzilla 4.yy.zz`, default App version for Gekkota G4 device. In the default configuration, PlugnCast is configured to send `Playzilla 3.yy.zz` on Gekkota G3 devices. However Gekkota RT 3.12.59 (and above) can run also with `Playzilla 4.yy.zz`. For further information, refer to the PlugnCast user manual, then chapter talking about the `innes.plugncast.cms.targets.digitalsignage.playzilla4-on-gekkota3` preference.

5. Device configuration

You can configure the Qeedji device:

- either with the device configuration Web interface,
- or with a configuration script sent with PlugnCast G3.

5.1. Using the configuration Web interface

Connect to the configuration Web interface of Qeedji device by entering `http://<device_ip_addr>/` in a Web browser.

- in the `Maintenance > Preference` menu, set the appropriate values for the user preferences below:
    - `innes.launcher.playlog.enabled`: allow to activate/inactivate the playlog:
        - *true*: to activate the playlog,
        - *false* (default value): to inactivate the playlog,
    - `innes.launcher.playlog.remote.base-uri`: URL of the external HTTP/WebDAV server,
    - `innes.launcher.playlog.remote.username`: external HTTP/WebDAV server credential username,
    - `innes.launcher.playlog.remote.password`: external HTTP/WebDAV server credential password,
    - `innes.launcher.playlog.remote.time`: day time of the daily local file flushing (ex: *23:30*),
    - `innes.launcher.playlog.local.write-delay`: `playlog.tsv` local file saving period in minutes (integer value, default: 20).
- in the `Configuration > Administrator` pane, choose the appropriate identification method values among *MAC*, *UUID* or *hostname*,
- in the `Configuration > App`, check that the *pull WebDAV* input are already matching with your PlugnCast server frontal parameters (it should be),
- in the `Configuration > LAN` or `Configuration > WLAN` or `Configuration > WWAN` pane, adjust your network configuration,
- in the `Configuration > Servers` pane,
    - if the device is connected to internet, activate *NTP server* and enter a valid URL for it,
    - set the other required server configuration (DNS, proxy) if needed.
- finally, in the `Configuration > Date and time` pane, choose the *time zone* value according to your need and adjust the *date & time*. The device will reboot so that the parameters are fully reflected.

For further information, read the device user manual.

5.2. Using the configuration script

Edit the `configuration-by-script-V1.11.21.js` and rename into the appropriate pattern (`configuration.js`). Modify its content like explained below.

Playlog activation:

Uncomment like explained the *setPlaylog* function, and replace the URL and the login credential by those of you external HTTP/WebDAV server. Set also the day time for daily local file flushing:

- single configuration

```
setPlaylog("http://<ip_addr>/...", "login", "password", "23:30");
//setPlaylogExtended("http://<ip_addr>/...", "login", "password", "23:00", 20, 5,
60, 10);
//disablePlaylog();
```

- extended configuration

```
//setPlaylog("http://<ip_addr>/...", "login", "password", "23:30");
setPlaylogExtended("http://<ip_addr>/...", "login", "password", "23:00", Param5,
Param6, Param7, Param8);
//disablePlaylog();
```

With for the 4 last parameters:

- Param5: time interval in minutes for recording events in volatile memory in the local file (integer value, by efault: 20 minutes),
- Param6: maximum retry number in case of failure to send the event file (integer value, by default: 5 retries),
- Param7: waiting time between retry (integer value, by default: 60 seconds),
- Param8: maximum value of the random delay added to the deposit time (integer value, by default: 10 seconds).

Identification method:

Uncomment the appropriate function to activate right identification method

```
// ---- Defines identification method : uncomment the good line after
setIdMethod("MAC");
//setIdMethod("Hostname");
//setIdMethod("UUID");
```

Set NTP server:

When connected to PlugnCast, the device date and time is corrected only when the date & time shift is more than 24 hours. However, if the device is connected to interent, it is recommended to use a valid NTP server to ensure that the device is always on time.

```
setNtpSettings("fr.pool.ntp.org", 20, 10);
```

Other parameters:

Take a look on the configuration script to find the others parameters to program to access to your external HTTP/WebDAV server like:

- DNS server
- DNS proxy,
- DHCP, gateway, sub-network mask.

Playlog deactivation:

To inactivate playlog, uncomment the function

```
//setPlaylogExtended("http://<ip_addr>/...", "login", "password", "23:00", 20, 5,
60, 10);
//setPlaylog("http://<ip_addr>/...", "login", "password", "23:30");
disablePlaylog();
```

Deploy the configuration script with PlugnCast:

If the playlog is not yet activated on your device, you have to deploy once the `configuration.js` on the appropriate device. Connect to the PlugnCast G3 Web UI:

- in the `Setting` view, in the `Configuration > Middlewares and scripts` menu, develop the `Configuration scripts` pane on the right. With the file picker, add the `configuration.js` file.
- in the `Targets` view, then `System` tab, press on the `Deploy the configuration scripts` button so that the device takes the new configuration.

For further information, refer the the configuration-by-script user manual.