Note d'application

How to monitor your players

(with Nagios application by example)

August 2016
Version 001A

1. Aim of document

The goal of this document is to explain that it is possible to configure the player so that they can send regularly a status.xml file to a WebDAV server. These status file can be then globally monitored by a dedicated application like Nagios.

The goal of this document is not to explain how to configure and install Nagios. Refer to Nagios support Web site to go ahead with Nagios.

2. Introduction

The INNES players (with Gekkota embedded) are updating regularly a private status.xml giving some information on the global state of the player

- Identification method
- MAC address, Hostname, UUID
- Model name (Innes product), Gekkota version, Serial number
- Remaining storage information
- Network: DHCP/static, IP address
- Update date for
    - Last configuration script applied (and by which CMS version)
    - Last software version applied (and by which CMS version)
    - Last playout publication (and by which CMS version)

This status.xml can be regularly sent to any WebDAV server.

3. Player status with WebUI

This player status (status.xml file) is accessible at any time by connecting to the player WebUI.

Enter the URL http://<IP-du-player>/.status/ and click on status.xml hyperlink

Note: An example of status.xml is given in appendix.

4. Publish player status on WebDAV server

It is possible to configure a player so that they publish automatically and periodically the player status on a WebDAV server.
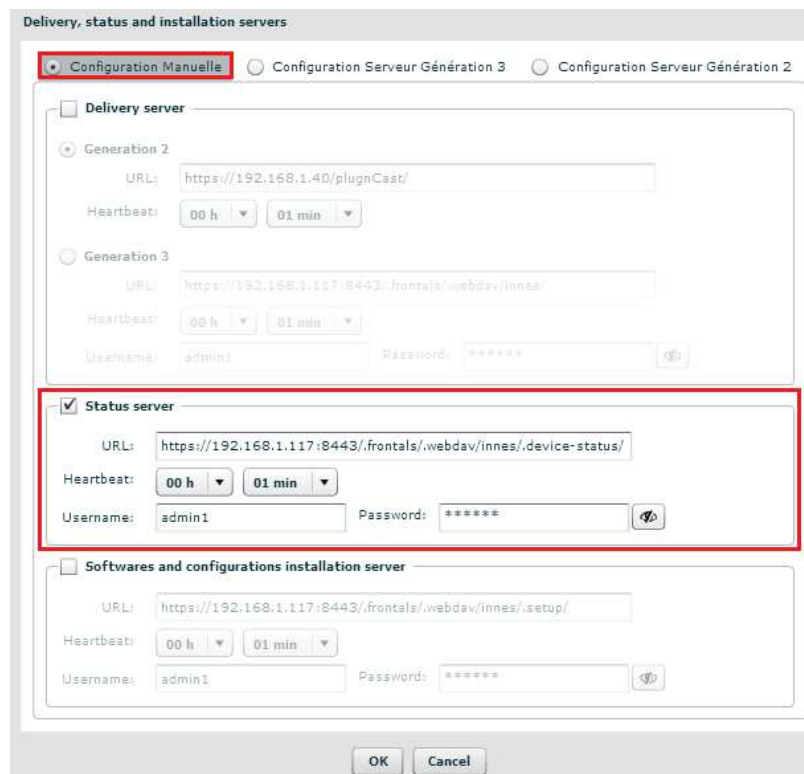
Enter URL of your player in a Web browser

http://<IP-du-player>/

Then click on Administration console hyperlink

Then in menu Configuration > Servers click on Modify

Then click on Manual configuration

Activate Status server option and fill with the URL, username and password of your private WebDAV server.

Ex: for a Plugncast server, the typical URL for player status is:

http://<IP_address>:<port>/.frontals/.webdav/<your_domain>/.device-status/

You can configure heartbeat as well (delay between 2 status .xml file sending).

Do the same for all the player to be monitored (by Nagios, for example).

5. Nagios monitoring

Configure then Nagios to connect on WebDAV server and monitor all the status.xml.

Note: refer to Nagios support Web site to go ahead with Nagios (installation, configuration).

6. Appendix

6.1.   Example of status.xml

```xml
<device-status xmlns="ns.innes.playzilla" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <device>
    <id-type>MAC</id-type>
    <mac>00-1c-e6-02-14-e5</mac>
    <hostname>sma300</hostname>
    <uuid>05000009-0000-0000-0000-001ce60214e5</uuid>
    <modelName>sma300</modelName>
    <modelNumber>3.12.30_beta2</modelNumber>
    <serialNumber>00800-00009</serialNumber>
    <field1>F1</field1>
    <field2>F2</field2>
    <field3>F3</field3>
    <field4>F4</field4>
    <field5>F5</field5>
    <ip-addresses>
      <ip-address>
        <if-type>LAN</if-type>
        <origin>dhcp</origin>
        <value>192.168.1.42</value>
      </ip-address>
      <ip-address>
        <if-type>LAN</if-type>
        <origin>auto</origin>
        <value>fc00::21c:e6ff:fe02:14e5</value>
      </ip-address>
    </ip-addresses>
    <addons/>
  </device>
  <status>
    <date>2016-04-27T21:02:27.693578+02:00</date>
    <launcher>
      <start>2016-04-27T07:32:46Z</start>
      <manifest-metadata xmlns:pzpm="ns.innes.playzilla.manifest">
        <pzpm:publish-id>580cf2ee-5cd0-46bf-9242-97d829a85994</pzpm:publish-id>
        <pzpm:publish-size>14643563</pzpm:publish-size>
        <pzpm:publish-generator>Innes Screen Composer G3 V3.11.12</pzpm:publish-generator>
        <pzpm:publish-date>2016-04-27T07:33:46.004Z</pzpm:publish-date>
      </manifest-metadata>
      <state>PLAY</state>
    </launcher>
    <storage>
      <total unit="byte">3868447744</total>
      <used unit="byte">20085760</used>
    </storage>
    <setup>
      <configuration>
        <metadatas>
          <metadata name="setup-id" xsi:type="xs:string">754de1f6-1fda-48a3-a36b-79fc0b99499a</metadata>
          <metadata name="setup-generator" xsi:type="xs:string">Cms 3.10.25.beta4</metadata>
          <metadata name="setup-date" xsi:type="xs:string">2016-04-04T15:53:22.831Z</metadata>
        </metadatas>
        <version>2016-04-04T15:53:22Z</version>
      </configuration>
      <installer>
        <metadatas>
          <metadata name="software-generator" xsi:type="xs:string">Cms 3.10.25_beta5</metadata>
          <metadata name="done" xsi:type="xs:boolean">true</metadata>
          <metadata name="software-download-date" xsi:type="xs:string">2016-04-08T06:42:19.838Z</metadata>
          <metadata name="software-id" xsi:type="xs:string">611bf7da-b805-4521-adde-95dcc1d068dc</metadata>
        </metadatas>
        <version>2016-04-08T06:39:34Z</version>
      </installer>
```