



IP DIRECTOR APPLICATION NOTE

IP Director Plugins

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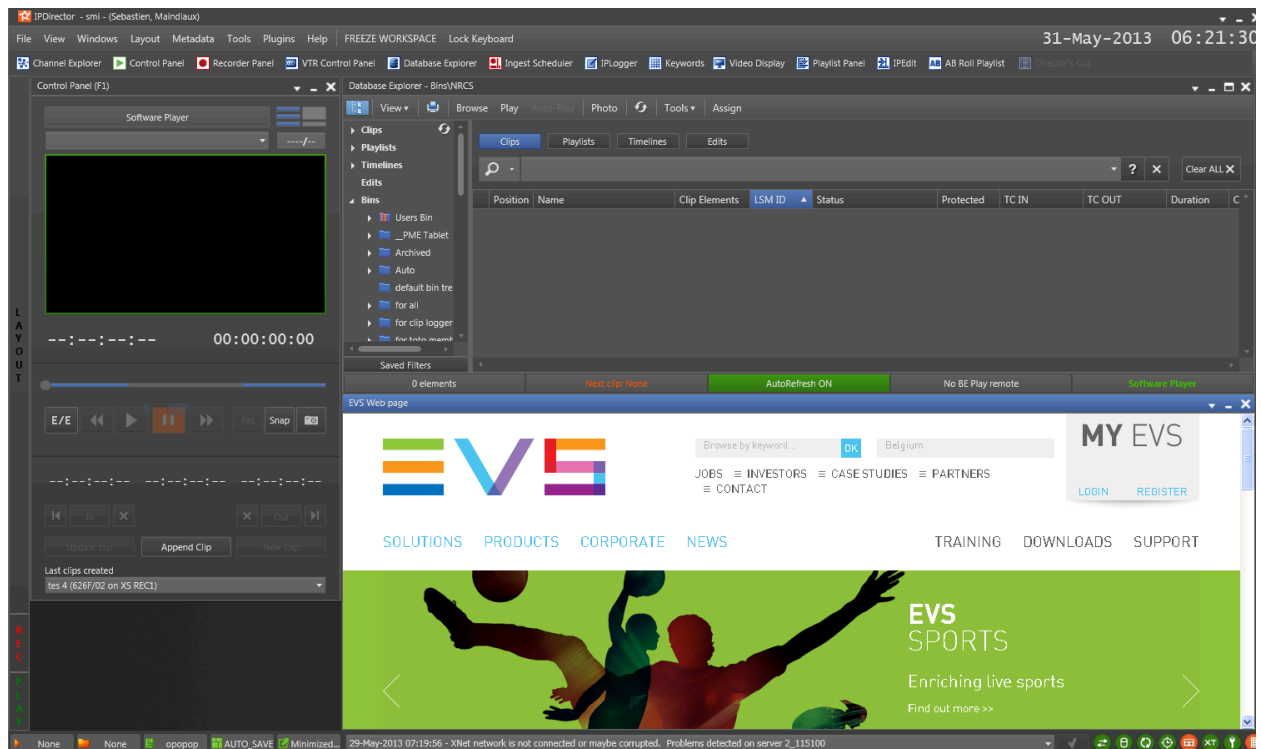
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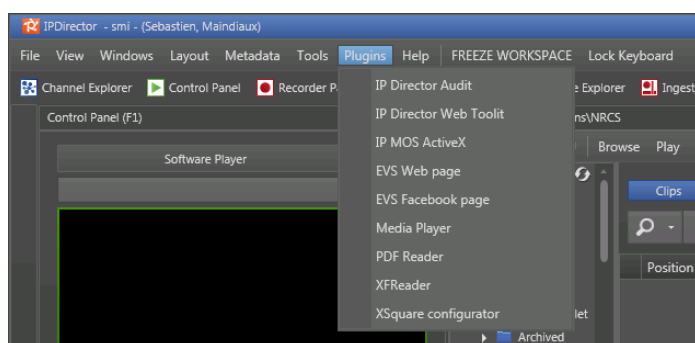
INTRODUCTION

IP Director 6.20 now introduces the ability to call an external web page or an ActiveX inside the IP Director GUI. This function is called “Plugins”.

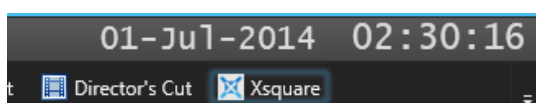
The web pages or ActiveX are shown in a window like other IP Director modules (DB Explorer, Playlist Panel,...) and are also part of the layout definition.



They can be called from the “Plugins” menu



You can also add a button in the Application bar for each plugin



PLUGIN CONFIGURATION

PLUGIN DEFINITION

The plugin definition is described in an XML file and stored locally on the IP Director either in

- > %appdata%\EVS Broadcast Equipment\IP-Director\PluginsConfiguration
- > %programfiles%\EVS Broadcast Equipment\IP-Director\PluginsConfiguration (for 32bits platforms)
- > %programfiles(x86)%\EVS Broadcast Equipment\IP-Director\PluginsConfiguration (for 64bits platforms)

The XML must contain :

- > The plugin name (displayed in the plugins menu)
- > The web page URL (if webpage)
- > The ProgID or ClassID of the ActiveX (if ActiveX)
- > The maximum and minimum size of the plugin window
- > The default size of the plugin window
- > The label of the button
- > The icon of the button
- > And the groups the button is published to.

The structure of these XMLs is described in the plugin.xsd file that can be found in %programfiles%\EVS Broadcast Equipment\IP-Director\PluginsConfiguration

```

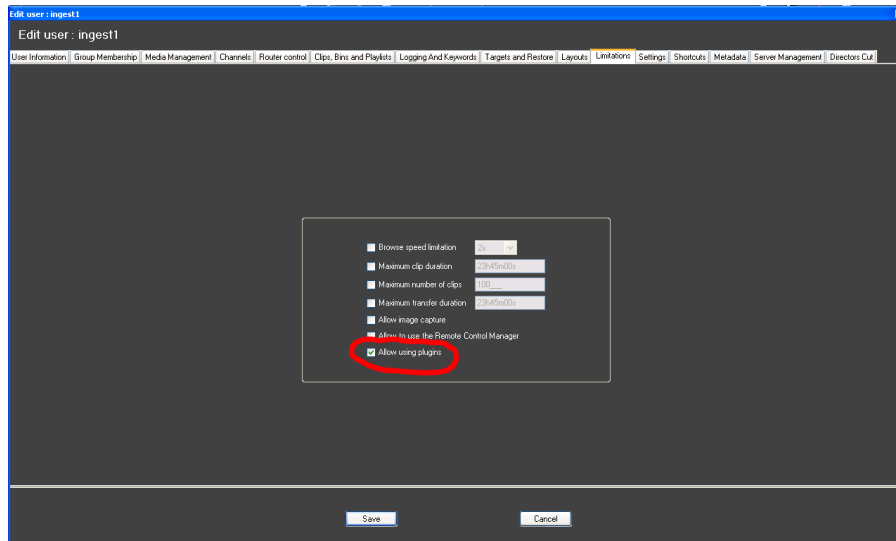
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0" >
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="progid">
    <xs:restriction base="xs:string">
      <xs:maxLength value="39"/>
      <xs:pattern value="[a-zA-Z][a-zA-Z0-9.]+"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="size">
    <xs:attribute name="width" type="xs:nonNegativeInteger" use="required"/>
    <xs:attribute name="height" type="xs:nonNegativeInteger" use="required"/>
  </xs:complexType>
  <xs:element name="plugins">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="plugin" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="name" type="xs:string"/>
              <xs:choice>
                <xs:element name="url" type="xs:anyURI"/>
                <xs:element name="clsid" type="guid"/>
                <xs:element name="progid" type="progid"/>
              </xs:choice>
              <xs:element name="minsize" type="size" minOccurs="0"/>
              <xs:element name="maxsize" type="size" minOccurs="0"/>
              <xs:element name="defaultsize" type="size" minOccurs="0"/>
              <xs:element name="button" minOccurs="0" maxOccurs="1">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="label" type="xs:string"/>
                    <xs:element name="icon" type="xs:string" minOccurs="0"/>
                    <xs:element name="groupVisibility" minOccurs="0" maxOccurs="1">
                      <xs:complexType>
                        <xs:sequence>
                          <xs:element name="groupName" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
                        </xs:sequence>
                      </xs:complexType>
                    </xs:element>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:attribute name="id" type="xs:ID" use="required"/>
</xs:schema>

```

USER RIGHTS

Complementary to the local configuration for the plugins, the IP Director user also needs the right to see the Plugins menu within the IP Director GUI.

This right is defined in the User Manager in the “Limitations” tab



PLUGIN EXAMPLES

XSQUARE CONFIGURATION

```
<?xml version="1.0" encoding="UTF-8" ?>
<plugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="plugins.xsd">
  <plugin id="tv.evs.XSquare">
    <name>XSquare configuration</name>
    <url>http://127.0.0.1:9004/</url>
    <minsize width="200" height="100" />
    <maxsize width="800" height="600" />
    <defaultsize width="600" height="450" />
  </plugin>
</plugins>
```

The URL must be adapted to point to the real Xsquare IP address.

XSQUARE MONITORING WITH A BUTTON

```
<?xml version="1.0" encoding="UTF-8" ?>
<plugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="plugins.xsd">
  <plugin id="tv.evs.XSquare.mon">
    <name>XSquare monitoring</name>
    <url>http://127.0.0.1:9004/#monitoring</url>
    <minsize width="200" height="100" />
    <maxsize width="800" height="600" />
    <defaultsize width="600" height="450" />
    <button>
      <label> XSquare </label>
      <icon> C:\Program Files (x86)\EVS Broadcast Equipment\IP-
Director\PluginsConfiguration\IconSet\Xsquare.png </icon>
      <groupVisibility>
        <groupName>API</groupName>
      </groupVisibility>
    </button>
  </plugin>
</plugins>
```

IP DIRECTOR WEB TOOLKIT

```
<?xml version="1.0" encoding="UTF-8" ?>
<plugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="plugins.xsd">
  <plugin id="tv.evs.IPD.WebToolkit">
    <name>IP Director Web Toolit</name>
    <url>http://127.0.0.1/IPDirector/</url>
    <minsize width="200" height="100" />
    <maxsize width="800" height="600" />
    <defaultsize width="400" height="250" />
  </plugin>
</plugins>
```

IP MOS ACTIVE X

```
<?xml version="1.0" encoding="UTF-8" ?>
<plugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="plugins.xsd">
  <plugin id="tv.evs.MOS.ActiveX">
    <name>IP MOS ActiveX</name>
    <progid>MOSBROWSERMFC.MosBrowserMFCCtrl.1</progid>
    <minsize width="100" height="200" />
    <maxsize width="900" height="900" />
    <defaultsize width="500" height="400" />
  </plugin>
</plugins>
```

DB SERVER MONITORING

```
<?xml version="1.0" encoding="UTF-8" ?>
<plugins xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="plugins.xsd">
  <plugin id="tv.evs.DB.Monitoring">
    <name>DB Server monitoring</name>
    <url>http://172.22.90.21/SQL_Monitoring.asp</url>
    <minsize width="200" height="100" />
    <maxsize width="800" height="600" />
    <defaultsize width="400" height="250" />
  </plugin>
</plugins>
```