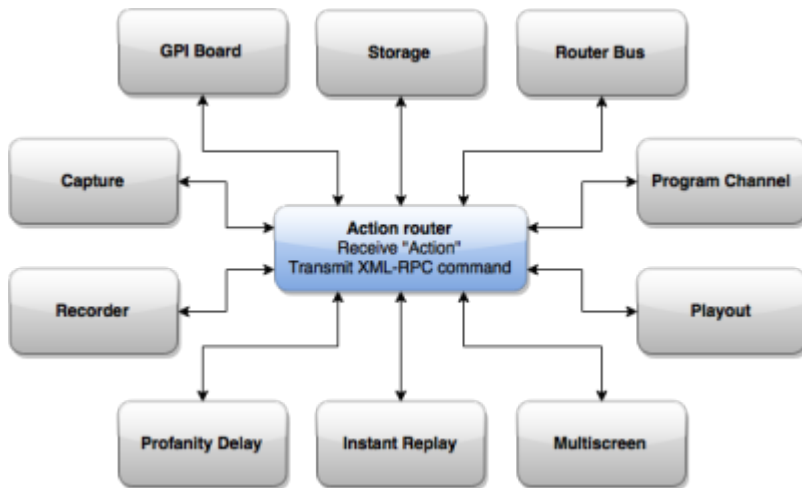


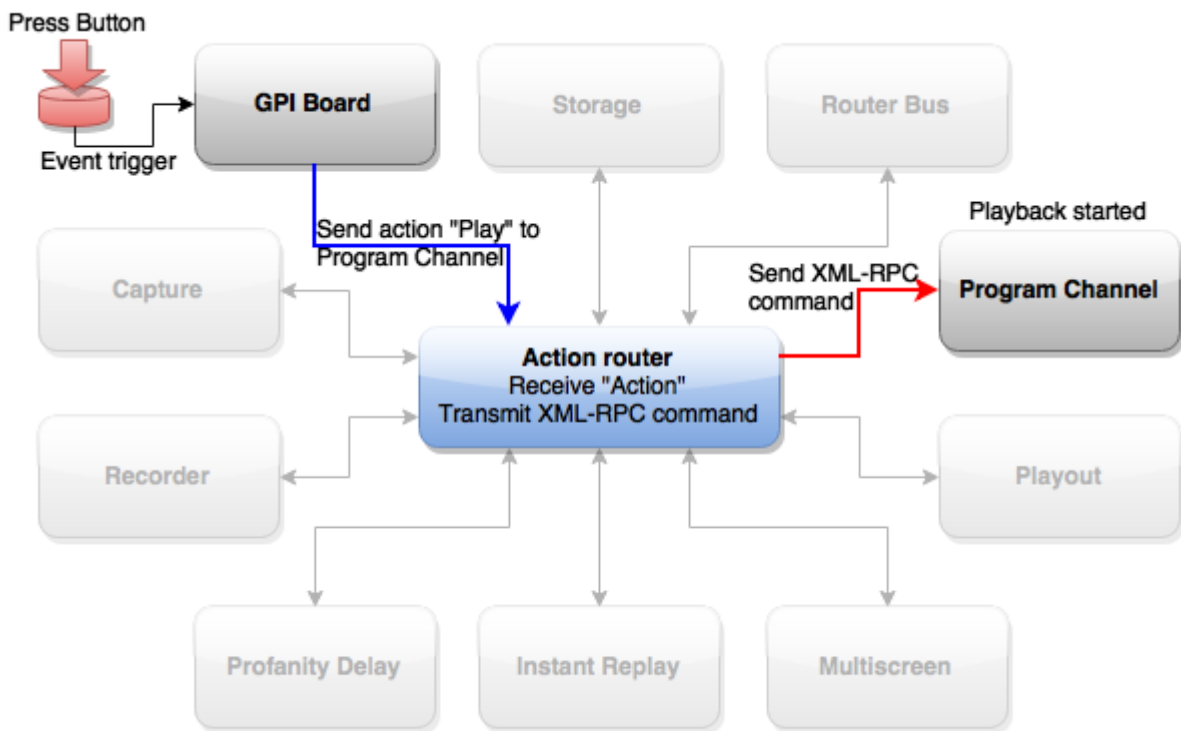
# Action Router

Skylark SL Neo software services can exchange tasks for execution of certain actions.

The main part of the mechanism for exchanging actions is the Action router module that registrates all other system modules sending or receiving actions. Interaction of modules with Action router is implemented by XML-RPC protocols.



## Action Router Work Example



The picture shows launch of playback of the program channel by pressing the keyboard button.

- The operator presses a button on the keyboard

- Event trigger set for this button is activated.
- The GPI Board service generates the Play action for the corresponding program channel.
- Action Router receives the Play action, defines the receiver, converts the action and its parameters to the [Skylark API](#) XML-RPC command and sends the command to the receiver.
- The program channel receives the command, analyzes it and launches the playlist for playback.

## Services

### Capture

Action	Parameters	Description
Set audio gain		
Disable Action handler		
Enable Action handler		
Add Action Handler		
Delete Action Handler		
Reload		
Reconnect Hardware		

### Playout

Action	Parameters	Description
Set video stream		
Set format conversion		
Set format		
Set Audio Language		
Set audio gain		
Set Subtitle Language		
Play Subtitle		
Graphics Actions		
Enable DRC		
Disable DRC		
Enable EBU-R128 Loudness		
Disable EBU-R128 Loudness		
Connect hardware		
Disconnect hardware		
Set Sync Mode		
Add Action Handler		
Delete Action Handler		
Enable WSS		Added in <a href="#">2.2.8</a> .
Disable WSS		Added in <a href="#">2.2.8</a> .

### Recorder

Action	Parameters	Description
Set video stream	The source type (FILE/LIVE) and name	setting (switching) the Capture service or a file source to the input of a recording service (Recorder)
Set timecode source	The TC source type (NONE/VITC/VTR/TIME)	Setting a TC source for the Recorder service
Set destination	The profile name is set in the Param1 rule setting window (the corresponding recording profile must be preliminarily configured)	Specifying a recording profile for the Recorder service
Set VTR Preroll	The value in frames	Specifying a Preroll value for the recorder
Append item	Optional parameters are specified in the rule setting window: duration, type of start, clip name, folder, clip lifetime, start of recording	adding a new recording event to the rec-list
Clear		Stop recording the current event and delete all rec-list lines
Restart		Stop recording the current event and reset statuses of all rec-list lines
Start		Start recording the current rec-list event
Pretake		Prepare to record the current rec-list event
Stop		Stop recording the current event
Next Item		Stop recording the current event, switch to executing the next rec-list event
Set Marker	Optional parameters: name and commentary for the key frame	setting a marker - a key frame for the material in the process of recording

The function is active when recording materials to the server database|

## RecManager (Recording Manager)

Action	Parameters	Description
Absent.		

## Storage

More details on configuring the [database service](#).

Action	Parameters	Description
Dump Open File		



## Program Channel

More details on configuring the [program channel service](#).

Action	Parameters	Description	
Play DTMF	<ul style="list-style-type: none"> <li>DTMF String</li> <li>The number of audio-channel starting from 1 (-1 for all) (optional)</li> <li>The loudness level by the dBFS scale (optional)</li> <li>Tone duration in ms (optional)</li> <li>Pause duration in ms (optional)</li> </ul>	Used for one-time playback of a DTMF signal sample at the program channel output. May be used by a central station for playout of a signal about an ad insert for regional partners.	
Set background video	Parameters: the source type (FILE/LIVE), filename, or a Live-clip name are set in the window for configuring the rule or are read off a playlist column	setting and change of a file or Live-source for a Background layer.	
Set format conversion	Input of the value (scale, crop, box, letter) is implemented in the window for configuring the rule, or the parameter is read off a playlist column.	Setting the conversion mode for a video in case of a mismatch of aspect ratio of original content and program channel settings.	
Set format	Input of the value (4:3 or 16:9) is implemented in the window for configuring the rule, or the parameter is read off a playlist column.	Specifying aspect ratio for the output signal of the program channel (4:3 or 16:9).	
Set Output AFD	Param 1 - the AFD value: FF, 4x3B, 16x9B, 14x9, 4x3SP14x9, 16x9SP14x9, 16x9SP4x3, NONE or an empty value - Auto)	Redefines the AFD value.	
Toggle layer	Input of the layer number (1 is the main full screen layer, 2...9 - graphic layers LAY1...LAY8 respectively) is implemented in the window for configuring the rule (Param1 field), or read from a playlist column; turning on/off displaying the layer does not affect execution of graphic playlists.	Switching displaying a selected layer with a graphic playlist to the opposite: one command turns on/off displaying.	
Show layer	The value (number of the graphic layer 1...8) input is implemented in the window for configuring the rule (Param1 field) or is read from a playlist column; turning on/off displaying the layer does not affect execution of graphic playlists.	Turning on displaying the graphic layer with a playlist.	
Hide layer	The value (number of the graphic layer 1...8) input is implemented in the window for configuring the rule (Param1 field) or is read from a playlist column; turning on/off displaying the layer does not affect execution of graphic playlists.	Turning off displaying the graphic layer with a playlist.	
Toggle graphics	Input of the layer number (1 is the main full screen layer, 2...9 - graphic layers LAY1...LAY8 respectively) is implemented in the window for configuring the rule (Param1 field), or read from a playlist column.	Switching displaying a selected layer with a graphic composition to the opposite: one command turns on/off displaying.	
Show graphics	Input of the value (the number of graphic layer 1...8) is implemented in the window for configuring the rule (Param1 field) or is read from the playlist column.	Turning on displaying the layer with a graphic composition.	
Hide graphics	Input of the value (the number of graphic layer 1...8) is implemented in the window for configuring the rule (Param1 field) or is read from the playlist column.	Turning off displaying the layer with a graphic composition.	
Set graphics	Parameters: the layer number 1...8, the source type (FILE or URL) and the source name are specified in the window for configuring the rule or are read from the playlist column.	Setting and changing a file source for the layer with a graphic composition.	
Graphics action	The command input is implemented in the window for configuring the rule (Param1 field) or is read from the playlist column.	Executing the command from SL NEO Graphics SDK.	
Set graphics time slot	Input of values (the number of graphic layer 1...8 and time of displaying in ms) is implemented in the window for configuring the rule or is read from the playlist column.	Specifying the time of displaying the layer with a graphic composition.	
Toggle logo	The command does not have additional parameters.	Switch of displaying the selected layer with a graphic composition to the opposite: one command may turn on/off displaying.	
Show logo	Input of the value (on/off) is implemented in the window for configuring the rule or is read from a playlist column.	Turning on displaying the graphic layer with a logo.	
Hide logo	Input of the value (on/off) is implemented in the window for configuring the rule or is read from a playlist column.	Turning off displaying the graphic layer with a logo.	
Set logo	Parameters: the source type (FILE or URL) and the source name are specified in the window for configuring the rule or are read from a playlist column.	Setting and changing a file source for the logo layer.	
Restart	The command is applied for one layer; the layer number value (1 is the main full screen layer, 2...8 - layers with graphic playlists) is entered in the window for configuring the rule.	Stops executing the playlist, resets statuses of all lines.	
Clear	Takes one parameter: the number of the stopped layer (1 is the main full screen layer, 2...8 - layers with graphic playlists).	The action stops the playlist and clears it. Added in <a href="#">2.2.38</a>	
Play	Takes the parameters: 1. <b>Layer number</b> - the layer number value (1 is the main full screen layer, 2...8 - layers with graphic playlists) 2. <b>Startup delay</b> - the start delay set in seconds or "-1" = none. Added in <a href="#">2.4.64</a> version.	Launches playback of the first line in the selected playlist or the next line after the last executed one.	

Action	Parameters	Description	
Stop	The command is applied for one layer; the layer number value (1 is the main full screen layer, 2...8 - layers with graphic playlists) is entered in the window for configuring the rule.	Stops executing the current playlist event.	
Stop if	Takes three parameters: 1. The number of the layer to be stopped. 2. The name of a playlist column to be searched for a value for an additional condition. For example: uri, player, title, comment, group, type, tape, name, gpi1_mode-gpi8_mode, gpi1_val-gpi8_val, item_id, start_type. 3. The value that must be in the playlist so the Stop command would be executed. For gpi1_mode-gpi8_mode - none, on, off, for start_type - manual, hard_start, auto.	The command allows stopping playback, but only in case if the current clip satisfies a certain condition. This allows the user to stop an insert by a closing SCTE-104/35 command, when event identifiers are used in sendings.	
Stop Graphics	The command is applied synchronously to all graphic layers	Stops playback of current events in all graphic playlists.	
Skip	Takes two parameters: 1. The number of the layer, in which the command will be applied (1 is the main full screen layer, 2...8 - layers with graphic playlists). 2. Line ID (optional). If this parameter is active, the line with the set ID will be skipped instead of the current one.	Quick transition to executing the next or set playlist line. Using the Line ID parameter allows configuring automatic skipping NoMedia lines by using the Media Offline Clip action, the Delay value equal, for example, 2000ms, and calling "Skip \$(item_idx)".	
Pause	The command is applied for one layer; the layer number value (1 is the main full screen layer, 2...8 - layers with graphic playlists) is entered in the window for configuring the rule.	Pauses executing the current playlist event.	
Unpause	The command is applied for one layer; the layer number value (1 is the main full screen layer, 2...8 - layers with graphic playback) is entered in the window for configuring the rule.	Unpauses executing the current playlist event after the Pause command.	
Emergency	The command is applied for the main full screen layer.	Insert of an alarm clip to the current playlist position and quick transition to its execution.	
Hold	The command is applied for one layer; the layer number value (1 is the main full screen layer, 2...9 - layers with graphic playlists) is entered in the window for configuring the rule.	Holds the Live-event in the playlist.	
Select next clip	The command is applied to one layer; the layer number and PRETAKE or PLAY command are entered in the window for configuring the rule.	Preparation or transition to playback of the next clip in the playlist.	
Select clip by number	The command is applied to one layer; the layer number and PRETAKE or PLAY command are entered in the window for configuring the rule.	Preparation or start of playback of the clip in the playlist line with the specified number.	
Select clip by current time	1. The layer number. Numeration starts with 1 (the main playlist, CASTx), 2 (the first graphic layer, CASTx_LAY1), etc. 2. The maximum difference of start time in seconds. 3. Action to execute: PRETAKE or PLAY 4. Action, if not found: NONE, STOP or SKIP 5. Runing Margin (seconds, -1 for none) 6. Start Delay (seconds, -1 for none)	The option is used at regional stations for inserts by DTMF, when automated insert is required only for certain time slots.	
Select clip by title	The command is applied to one layer. The layer number, PRETAKE or PLAY command, delay value, clip name (Title column in the playlist) are entered in the window for configuring the rule.	Preparation or start of playback of a clip in the playlist line with the specified name.	

Action	Parameters	Description	
Select clip by group	The command is applied to one layer. The layer number, PRETAKE or PLAY command, delay value, group name (Group field in the playlist) are entered in the window for configuring the rule or read off playlist columns.	<p>The Param6 parameter sets a delay of the clip start from the moment of triggering the action. It is similar to Action configuration→Delay, but the difference is in the moment of start of clip preparation. Using Action configuration=Delay leads to the following sequence of actions:</p> <ul style="list-style-type: none"> <li>• a cue-tone came;</li> <li>• a delay from Action configuration→Delay;</li> <li>• triggering of Select clip by group and start of buferization;</li> <li>• start of playback.</li> </ul> <p>The option with using Param6 is preferable, as here buferization is implemented beforehand, which helps to avoid brakes while preparing:</p> <ul style="list-style-type: none"> <li>• a cue-tone came;</li> <li>• triggering of Select clip by group and start of buferization;</li> <li>• a delay from Param6;</li> <li>• start of playback.</li> </ul> <p>The Param6 value supports fractional values.</p>	Preparation or start of playback of the first clip in the selected playlist group.
Select clip by column	The command is applied to one layer. The PRETAKE or PLAY command, start delay value, column title and its value are entered in the window for configuring the rule or are read off playlist columns.	Preparation or start of playback of a clip in the playlist line, for which the value in a certain column coincides with the specified one.	
Play clip	<p>The command is applied for one layer. The parameters are:</p> <ol style="list-style-type: none"> <li>1. The layer number (1 is the main full screen layer, 2...9 - layers with graphic playlists).</li> <li>2. The clip name in the server database.</li> <li>3. Player name.</li> <li>4. The IN point.</li> <li>5. The OUT point.</li> <li>6. Event duration.</li> <li>7. The type of conversion (cut, v-mix, x-mix).</li> <li>8. Transition speed (0 - instantaneous, -1 - fast, -2 - average, -3 - slow).</li> <li>9. WIPE.</li> <li>10. Clip parameters.</li> <li>11. The executable action: APPEND - only add to the end, PRETAKE - add to the end and prepare for playback, PLAY - add to the end and start playback.</li> <li>12. The delay value in milliseconds.</li> <li>13. Audio Transparency (0-100, -1 for auto)</li> <li>14. The clip group.</li> <li>15. Event ID</li> <li>16. The sype of start (MANUAL or AUTO).</li> </ol>	Placing the clip with the specified name to the playlist end and its playback. An example of using the option for configuring "Now Playing" and "Coming Up Next" subtitles. The Param10 field value for this action may look like "element@value": a graphic composition element for inserting and the insertable value, respectively. If a variable value must be sent, recording is implemented in the ProgTitle@\$(comment) format. If over one key-parameter value requires to be transferred, they must be separated with @. For example: param1@val1@param2@val2.	
Sync Stop	No parameters	Turning off the mode of constant synchronization of the executable playlist of the backup server from the main one.	
Sync Start	No parameters	Turning on the mode of constant synchronization of the executable playlist of the backup server from the main one.	

Action	Parameters	Description	
Sync Once	No parameters	Turning on one-time synchronization of the executable playlist of the backup server from the main one.	
Sync Offline	No parameters	Do offline synchronization to peer program playout service.	
Live CC On	Param1 - CC Stream 1 or 2	Turn on live closed captions insertion to the program playout service.	
Live CC Off	Param1 - CC Stream 1 or 2	Turn off live closed captions insertion to the program playout service.	
Live CC Set Params	Param1-CC stream (1 or 2), Param2-Number of lines (2, 3 or 4), Param3-Base line (1-15), Param4-Indentation (0, 4, 8, 12, 16, 20, 24 or 28)	Set live closed captions insertion parameters.	
Live CC Append	Param1-CC stream (1 or 2), Param2-Text to append	Send text to the live closed captions stream.	
Disable Action handler	Name of the action processor for turning off. An empty value - turning off all processors.	Turns off the selected action processor.	
Enable Action handler	Name of the action processor for turning on. An empty value - turning on all processors.	Turns on the selected action processor.	
SCTE-104 Splice Request	Parameters are described in the <a href="#">Configuring generation of SCTE-104 Messages</a> article.	Inserts a SCTE-104 Splice Request message.	
SCTE-104 Segmentation Descriptor Request	Parameters are described in the <a href="#">Configuring generation of SCTE-104 Messages</a> article.	Inserts a SCTE-104 Segmentation Descriptor Request message.	
Gen sGPI Packet	Param1-Param10	Generate and insert an sGPI packet into VANC	
Set Time Zone	Param1 - shift in minutes.	Sets a timezone shift relative to UTC in minutes (-9999 - local time).	
Next Marker	Param1 - Marker Track (if the value is empty, the General type is used), Param2 - Marker Title (any value, if the field is empty)	Moves to the next key frame of the current clip in the playlist. Parameters were added in the 2.4.14 version.	
Prev Marker	Param1 - Marker Track (if the value is empty, the General type is used), Param2 - Marker Title (any value, if the field is empty)	Moves to the previous key frame of the current clip in the playlist. Parameters were added in the 2.4.14 version.	
Enable Blur	Param1 - sets a rectangle blurring area in the x,y,w,h format (e.g.: «0.2,0.2,0.5,0.3»).	Activates blurring the top opaque layer in the program channel (graphic layers are transparent). An example of a program channel output with the activated blurring option: 	
Disable Blur	No parameters.	Turns off blurring the top opaque layer in the program channel. An example of a program channel output with an inactive blurring option: 	
Enable Beep	Param1 - Loudness of the generated signal in dB (-14 dB by default).	Turns on playback of the tone signal in the audio channel. Added in 2.4.14 version.	
Disable Beep	No parameters.	Turns off playback of the tone signal in the audio channel. Added in 2.4.14 version.	
Enable Mute	No parameters.	Turns off audio output. Added in 2.4.14 version.	
Disable Mute	No parameters.	Turns on audio output. Added in 2.4.14 version.	

Action	Parameters	Description
Set Item Column	The action takes four parameters. Param N: 1. The layer number (enumeration goes from 1, which is the main layer). 2. The sequence number of the playlist element (enumeration goes from 1, which is the first playlist element). 3. The playlist column name. Possible values: key1_mode...key4-mode, gpi1_mode...gpi8_mode, gpi1_val...gpi8_val. 4. The set value. Acceptable values for "xxxx_mode" parameters are: none, on or off; for "xxxx_val" parameters - a string value.	The action allows specifying values in key1_mode-key4-mode, gpi1_mode-gpi8_mode, gpi1_val-gpi8_val fields for the set playlist element.
Clear Last Frame	No parameters.	Reset postroll or invalid frame stills. Added in version <a href="#">2.2.38</a> .
Set Media Purge Date	The action takes three parameters. Param N: 1. Media URL 2. The number of days less or equal zero = infinite. 3. The parameter is set to ON, YES, TRUE or 1, if the minimum number of days is specified. This means that the deletion time will be updated only in case, if it was set before the number of days.	Set media auto deletion date to a specified amount of days. Added in version <a href="#">2.2.38</a> .
Dump NoMedia files	No parameters.	Outputs NoMedia clips to the log.
Set OnAir Status	The action takes one parameter. Param 1: The parameter is set to ON, YES, TRUE or 1, if the OnAir status is required to be set.	Sets the OnAir status. The first activation of the parameter outputs a message to the program channel log: LAY_0: Logger on air state: 0 -> 1. If Param1 is empty, the following message is shown: LAY_0: Logger on air state: 1 -> 2.
Emit PlaylistChanged	The action takes one parameter. Param1 - the layer number for calling the event (enumeration starts with 1).	Launches generation of the PLAYLIST_CHANGED event in General Events. Added in <a href="#">2.3.37</a> .
Merge Output Mixer	Param1 - Mixer spec in a form: [=][ch<= +>i lay/ich/pct][,ch<= +>i lay/ich/pct][,....] • Input layer 0: background • Input layer 1-8: playlist layers • Input layer -1: composition of all layers taking layer opacity in account • Zero all channels and mix main layer ch1 and ch2 to output 1 and 2: =1=1/1/100,2=1/2/100 • Zero all channels and mix background and main layers ch1 to output 1: =1=0/1/100,1+1/1/100	Modify output audio mixer parameters
Enable Output Mixer	Param1 - ON, YES, TRUE or 1 if enabled, OFF, NO, FALSE or 0 is disabld	Set if output audio mixer is applied
Set Open Captions Stream	Param1 - Stream number (0 to turn open captions off)	Set currently displayed open captions stream

## GPI Board

Action	Parameters	Description
Set pin		
Pulse pin		
Trigger Handler		

## RSS Feed

Action	Parameters	Description
Absent		



## Router Bus

Action	Parameters	Description
Connect pin		
Do effect		


## InstantReplay

Action	Parameters	Description
Load Tray		
Next Tray		
Prev Tray		
Store Cue		
Store Rec Cue		
Next Cue		
Prev Cue		
Set Game Time		
Goto Game Time		

## Profanity Delay

Action	Parameters	Description
Set video stream		
Set format conversion		
Set format		
Set delay		
Toggle delay		
Clear step		
Clear all		
Clear start		
Clear stop		

## Multiscreen

Action	Parameters	Description
Acknowledge Alarm	No parameters.	Reset all warnings.
Silence Alarm	No parameters.	

Action	Parameters	Description
Enable Alarm	Parameters: 1. Window name 2. Alarm Type ◦ still - Still Frame ◦ black - Black Frame ◦ higher - audio overload ◦ lower - audio silence ◦ xmlrpcdisconnect - connection lost	Set warnings for the selected window
Disable Alarm	Parameters: 1. Window name 2. Alarm Type ◦ still - Still Frame ◦ black - Black Frame ◦ higher - audio overload ◦ lower - audio silence ◦ xmlrpcdisconnect - connection lost	Turn off warnings for the selected window
Set Active Window	Parameters: 1. Window name 2. Audio Layout Name	Switches audio from a selected window to the multiscreen output (such a window is highlighted with a frame).
Next Window	No parameters.	Make the next window active.
Previous Window	No parameters.	Make the previous window active.
Next Audio Layout	No parameters.	Switching audio channels forward with the Set Active Window function turned on.
Previous Audio Layout	No parameters.	Switching audio channels backward with the Set Active Window function turned on.

### TimeCode Source

Action	Parameters	Description
Absent.		

### Data Provider

Action	Parameters	Description
Absent.		

# Registration in Action Router

## Registration through API

The action router service sits at port number 5454 and it accessible through XML-RPC protocol. Every service which needs to react to actions has to register with the action router by calling "add\_action" method. Once registered the new handler can be selected in the web console configurator of an action source service. Action parameters are always passed as strings and converted to numerical types if the actual handler method specifies a numeric type. Actual handler method parameter are mapped to actual action parameter according ActionParamInfo specification.

Method name: "add\_action" Register a new action handler with the Action Router service This method has the following parameters: Parameter 0 - struct ActionInfo - a structure describing a new action handler Return value - None.

The ActionInfo structure contains the following members:

```
"name" - string - name of the action used to trigger the action by other
services.
"server_type" - string - server type name. It's used for user's reference
only.
"server_name" - string - server name used to trigger the action by other
services.
"descr" - string - user visible description of the action.
"arg_descr" - array<string> - user visible description of the action
parameters.
"reaction_delay" - double - time in seconds needed to execute the action.
For example,
particular playlist event in the playlist at some point in time. The
playlist action generator will take this reaction delay
into account and emit the action "reaction_delay" seconds
earlier so that the actual handler completes at the proper time.
"handlers" - array<ActionHandlerInfo> - array of the action handler method
descriptions.
```

The ActionHandlerInfo struct contains the following members:

```
"host" - string - ip address of the service that handles the action.
"port" - int - port number of the service that handles the action.
"method" - string - XML-RPC method name that handles the action.
"parameters" - array<ActionParamInfo> - array of actual action parameters
mapping to the XML-RPC method's parameters.
```

The ActionParamInfo struct contains the following members:

```
"param_type" - string - type name of a parameter. Currently, the following
type names
                    are supported:
    "int" - integer number
    "string" - utf8 string
"param_val" - string - value specifier. When a '%X' character sequence is
encountered
                    (where X can be in range '1'-'9' or 'A'-'Z') it is
substituted
                    by corresponding actual action parameter. For
example, an
method
                    action may specify just one parameter but the handler
parameters
                    may take two parameters. In this case, one of the
as "%1"
                    can be specified and a fixed value and the other one
                    which will use the action's actual parameter.
```

Important! When reloading the server, re-register your server through the API.

## Registration through File

Your services may be registered in Action Router via a special XMP file `comgpi.xml`, which must be located in the folder `C:\Program files (x86)\SL NEO Media Platform\run\`. This option is more preferable comparing to registration through the API, as you don't have to monitor the current registration status of your server. Also, it excludes the possibility of double registration.

### Example 1

```
<comgpid>
<!--
The action tag contains three attributes:
name – the registered action name. The attribute is used in the Action
field.
server_type – the service user name used only for displaying in the
interface.
server_name – the service name; is used in the Service field.
-->
  <action name="My Action" server_type="My Server" server_name="My
Server_1">
    <!-- Description of the action for output in the interface -->
    <description>
      This is a test Action
    </description>
    <params>
```

```

    <!-- Listing parameters with values that will be specified in Param1-
    Param16 fields -->
    <param>
      <description>
        <!-- Tooltip text for the Param field -->
        Param1 description
      </description>
    </param>
    <param>
      <description>
        Param2 description
      </description>
    </param>
  </params>
  <!-- FIXME -->
  <reaction_delay addr="localhost:12345" method="my_method" value="0.5"/>
  <!-- Description of parameters of the server that will process the XML-
  RPC request
  sent after My Action triggers:
  add – the server port and IP address,
  method – the name of the method called at the server.
  -->
  <handler addr="localhost:12345" method="my_method">
    <!--
    Enumeration of parameters sent to my_method.
    Their quantity may differ from the number of parameters sent to the
  action
    (in this example, the action takes two parameters and the method takes
  three).
    When specifying parameters, it is necessary to define the type in the
  type field:
    int – an integer,
    double – a floating point value,
    string – a string.
    -->
    <param type="int" value="%1"/>
    <param type="double" value="%2"/>
    <param type="string" value="Custom string with %2 in third param"/>
  </handler>
</action>
</compid>

```

Triggering this action will send a request to the server:

```

<?xml version="1.0"?>
<methodCall>
  <methodName>my_method</methodName>
  <params>
    <param><value><i4>11</i4></value></param>
    <param><value><double>22.0000000000</double></value></param>
    <param><value>three</value></param>
  </params>
</methodCall>

```

```
</params>  
</methodCall>
```

## Example 2

An example of a `comgpi.xml` file for registering an action.

[comgpi.xml](#)

```
<comgpid>  
  <action name="send" server_type="Email sender" server_name="Email  
sender">  
    <description>  
      This is a test Action  
    </description>  
    <params>  
      <param>  
        <description>  
          E-mail addr  
        </description>  
      </param>  
      <param>  
        <description>  
          Theme  
        </description>  
      </param>  
      <param>  
        <description>  
          Text  
        </description>  
      </param>  
    </params>  
    <reaction_delay addr="localhost:8080" method="send_email"  
value="5"/>  
    <handler addr="localhost:8080" method="send_email">  
      <param type="string" value="%1"/>  
      <param type="string" value="%2"/>  
      <param type="string" value="%3"/>  
    </handler>  
  </action>  
</comgpid>
```

Configuring the action launch.

### Edit Action

Action configuration	Action parameters
Name: <input type="text" value="SendEmail"/>	Param 1: <input type="text" value="demo@skylark"/> ...Param 7: <input type="text"/> ...Param 13: <input type="text"/> ...
Pin: <input type="text" value="1"/>	Param 2: <input type="text" value="Subject"/> ...Param 8: <input type="text"/> ...Param 14: <input type="text"/> ...
Trigger value: <input type="text" value="ON"/>	Param 3: <input type="text" value="Mail text"/> ...Param 9: <input type="text"/> ...Param 15: <input type="text"/> ...
Address: <input type="text" value="localhost"/>	Param 4: <input type="text"/> ...Param 10: <input type="text"/> ...Param 16: <input type="text"/> ...
Service: <input type="text" value="Email sender"/>	Param 5: <input type="text"/> ...Param 11: <input type="text"/> ...
Action: <input type="text" value="send"/>	Param 6: <input type="text"/> ...Param 12: <input type="text"/> ...
Translation Folder: <input type="text"/>	
Delay (ms): <input type="text" value="0"/>	

An example of a nodejs program that “listens” the 8080 port, receives XML-RPC requests from the Skylark server and outputs the request content to the command line.

[server.js](#)

```

var http = require('http');

var svr = http.createServer(function(request, response) {
  var body = "";
  console.log("url: " + request.url);

  console.log("method: " + request.method);
  console.log("headers: ");
  console.log(request.headers);
  request.on('data', function (chunk) {

    body += chunk;
  });
  request.on('end', function () {
    console.log('body: ' + body);
  })
}).listen(8080);

```

The “http” nodejs extension must be installed for this example to work (the “npm install module\_name” command). Launching the program is implemented from the command line interface: “nodejs program\_file\_name.js”.

Content of the XML-RPC request that was received by the program while triggering the “send” action.

```
C:\Windows\system32\cmd.exe - node htdocs/server.js
url: /RPC2
method: POST
headers:
{ 'user-agent': 'XMLRPC++ 0.7',
  'x-allow-result-encoding': 'MessagePack',
  host: 'localhost:8080',
  'content-type': 'text/xml',
  'content-length': '225' }
body: <?xml version="1.0"?>
<methodCall><methodName>send_email</methodName>
<params><param><value>demo@skylark.ru</value></param><param><value>Subject</valu
e></param><param><value>Mail text</value></param></params></methodCall>
```

## Logs

## Examples

[Replay Server Management from JavaScript via Instant Replay API](#)

[Configuring "Now Playing" Captions](#)

[Configuring "Coming up Next" Captions](#)

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