TN029 Controlling STBs via JSON Interface

Tech Note

Issue 2.0

1   Introduction

Tripleplay has a Triplecare XMLRPC interface which provides the ability to control STB's remotely however this requires some technical expertise to setup.

An easier way to do it for interfacing to remote control solutions such as Crestron is to utilise the JSON/XMLRPC handler which abstracts away all of the internal details.

This document describes the interface which is applicable to the Asterix or later releases.[1]

For a full list and descriptions of the available XmlRpc methods please refer to the "T*ripleCare Web Service API 4.0*" or later document.

2   STB Control Functions

2.1   General

All of the functions are in the format of a function call to the JSON/XMLRPC handler with a method and the necessary parameters.

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"methodA","params":[x,y,z]}
```

In all of the cases, it should return a "true" if everything was fine, otherwise it will return a faultCode. For example, if you try to access at STB that doesn't exist, then you'll get back the following fault code:

```
{"faultCode":300,"faultString":"Client Id not registered"}
```

The following are a selection of examples using the Triplecare XmlRpc API.

2.2   Channel Up

The Channel Up method call has the following parameters:

- method: ChannelUp

- Parameters: STB ID number

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"ChannelUp","params":[<STB ID
number>]}
```

For example, this would control the STB with ID = 1 and perform a Channel Up command:

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0", "method":"ChannelUp","params":[1]}
```

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[1]Note, this version uses the `JsonXmlHandler` call which is now the preferred interface. The older `JsonXmlBridge` call is still supported.

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2.3 Channel Down

The Channel Down method has the following parameters:

- method: ChannelDown

- Parameters: STB ID number

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"ChannelDown","params":[<STB ID
number>]}
```

For example, this would control the STB with ID = 1 and perform a Channel Down command

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0", "method":"ChannelDown","params":[1]}
```

2.4 Channel Select

The Channel Select method has the following parameters:

- method: SelectChannel

- Parameters: STB ID number, Channel Number

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"SelectChannel","params":[<STB ID
number>,<channel number>]}
```

For example, this would control the STB with ID = 1 and change to channel number 2

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"SelectChannel","params":[1,2]}
```

2.5 Reboot the STB

For example to reboot an STB use this:

```
http://<serverIP>/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"Reboot","params":[1]}
```

Will reboot the STB with client with Id=1

2.6 Play a VoD Asset

For example to play an existing VoD asset use this:

```
http://192.168.243.115/triplecare/JsonXmlRpcHandler.php?
call={"jsonrpc":"2.0","method":"ChangePortalPage","params":
[1,"watch_video",
{"vodItem":"Indiana_Jones_and_the_Kingdom_of_the_Crystal_Skull"}]}
```

Would play the asset "Indiana_Jones_and_the_Kingdom_of_the_Crystal_Skull" on the client with Id=1

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