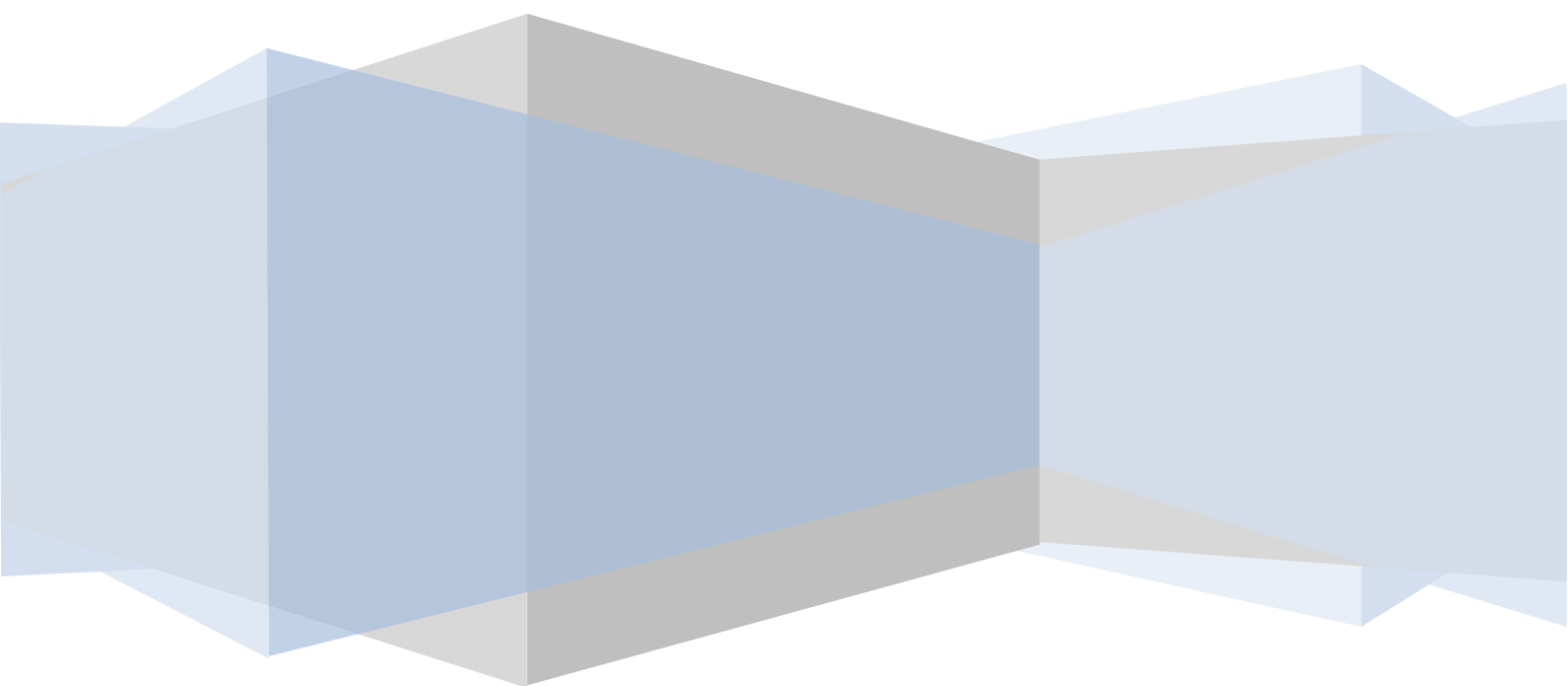




COMMAND LIST PMR4000R



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2. OBJECTIVE

The objective of this manual is to help the reader creating an external control of the Apart PMR4000R via the Ethernet connection.

With this command list and programs such as commandfusion guiDesigner he will be capable to create a new app to control the PMR4000R.

Beware: The manual doesn't explain programs like commandfusion guiDesigner. For more information about the program check their site

<http://www.commandfusion.com/software/guidesigner>

3. CONFIGURE THE COMMUNICATION

➤ First Step: Connect the PMR4000R with the network

1. Press the MENU button
2. Go to "SYSTEM SETTINGS"
3. Go to "NETWORK"
4. Go to "MANUAL SETTINGS"
5. Select the network type "WIRED" or "WIRELESS"
6. Select between "DHCP enable" or "DHCP Disable"

➤ Second Step: Find the PMR4000R IP-address

1. Press the MENU button
2. Go to "SYSTEM SETTING"
3. Go to "NETWORK"
4. Go to "VIEW SETTINGS"
5. IP address: **X.X.X.X**

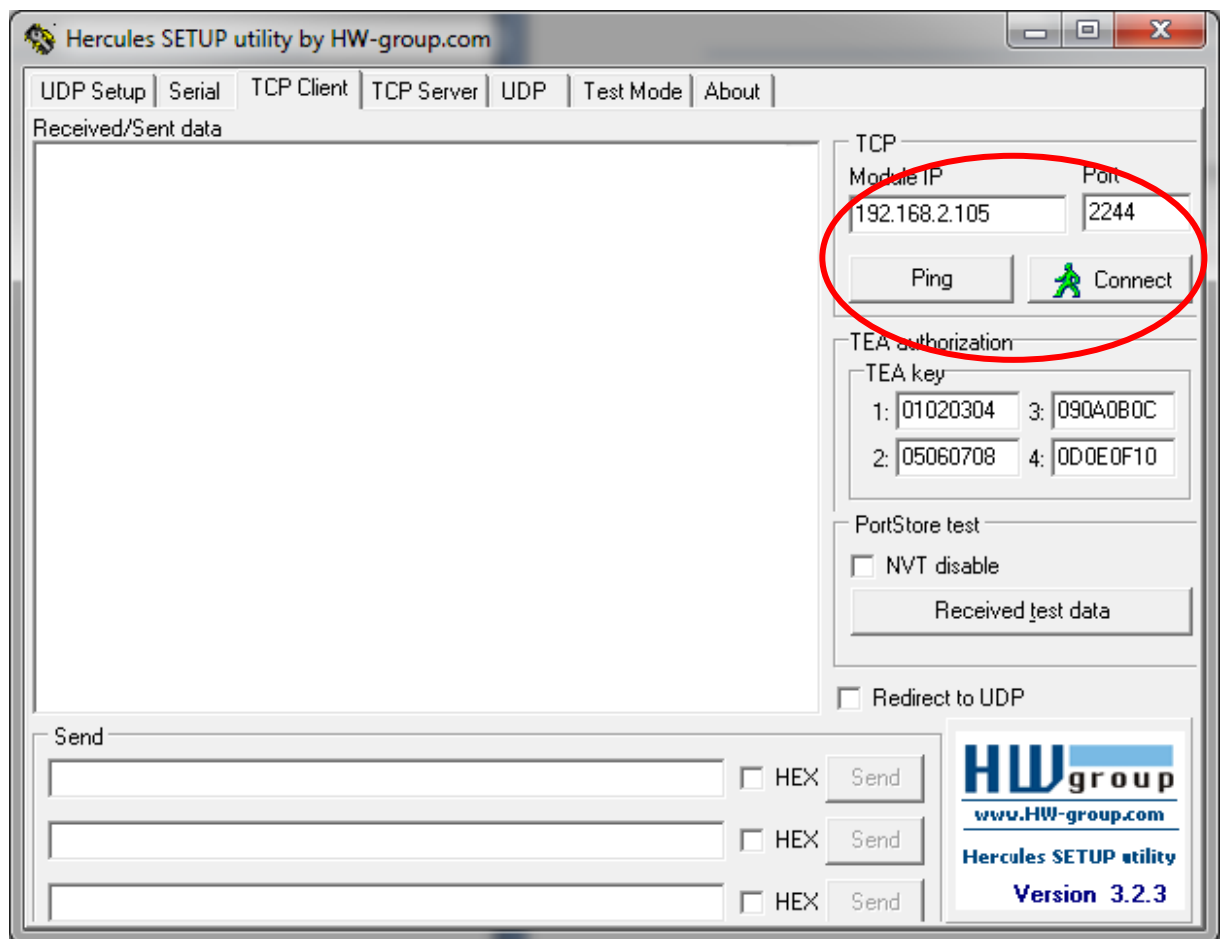
➤ Third Step: Find the PMR4000R NetRemote PIN

1. Press the MENU button
2. Go to "SYSTEM SETTINGS"
3. Go to "NETWORK"
4. Go to "NetRemote PIN Setup"
5. Configure the PIN (4 Digits) and press OK

4. SEND COMMANDS TO PMR4000R

➤ Create a TCP connection

1. Use the PMR4000R IP-address ➔ **X.X.X.X**
2. Use the PORT ➔ **2244** **!!! THIS NEVER CHANGES!!!**
3. Press CONNECT



Hercules:

Hercules SETUP utility has a TCP/IP client server terminal similar to telnet. Which we use to establish the communication.

Site: http://www.hw-group.com/products/hercules/index_en.html

5. PMR4000R Responses

When a user sends a command to the unit, the unit will always send a response back.

5.1 REPLY

When the user sends a valid command and uses the current SessionID and PIN. The reply will start with **HTTP/1.0 200 OK**

When one of these parameters isn't valid the reply will begin with an Error.

- 404 NOT FOUND
The user has send a wrong SessionId or invalid command
- 403 Forbidden
The user has send a invalid PIN

The unit will check the command and values and will send a reply according to the values.

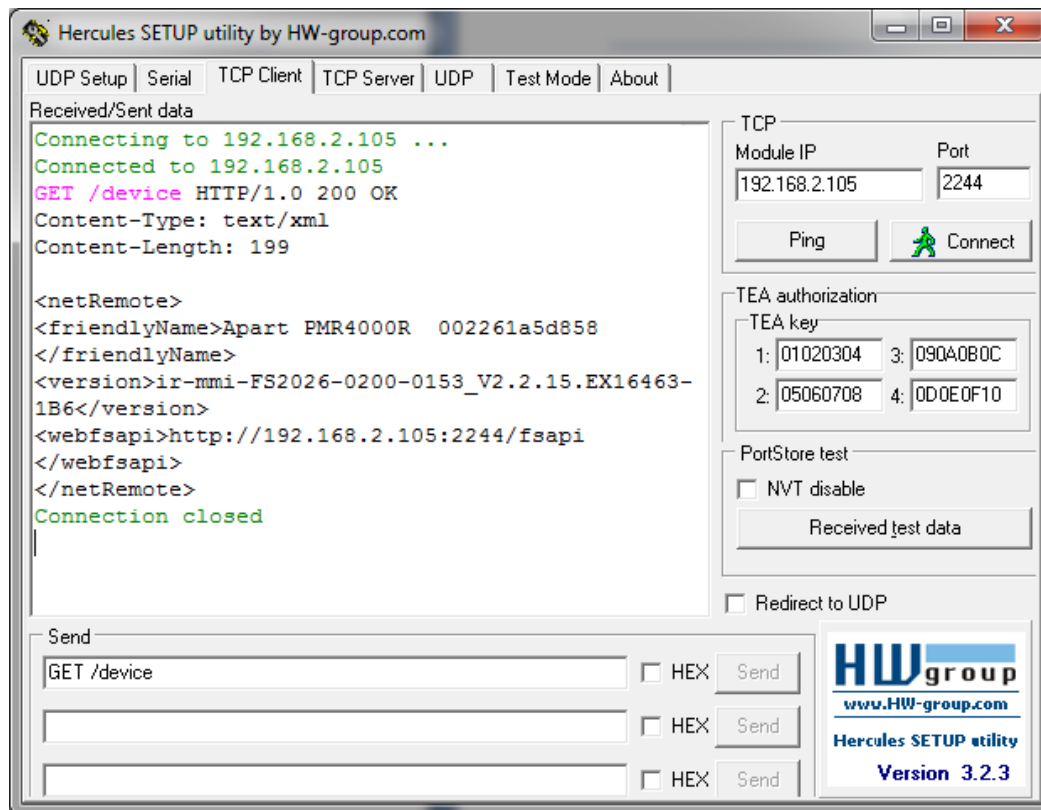
- FS_OK
When the value is valid and within the range of the command
- FS_FAIL
When the value isn't in the range of the command, this means that the command hasn't been executed.
- FS_PACKET_BAD
When a command can't be SET, it will reply with "PACKET_BAD"
- FS_NODE_BLOCKED
Certain commands can only be used when the unit is in the correct mode.
Commands to control the Music player can only be used when the unit system mode is set to "Music Player".

6. COMMAND LIST

6.1 GET DEVICE

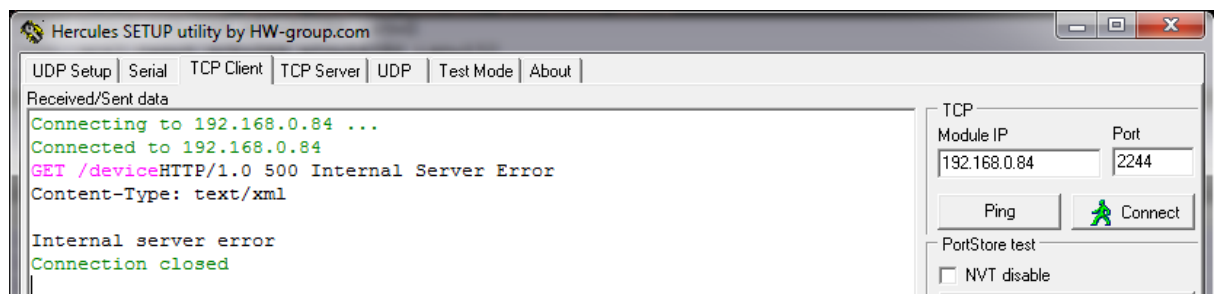
This command is used to find the units name and version number.

This is the only command when you do not have to send the PIN number.



!!! IMPORTANT !!!

Every command HAS to end with an empty SPACE, otherwise the unit will not understand the command



!!! IMPORTANT !!!

6.2 CREATE SESSION

There are two ways to control the unit:

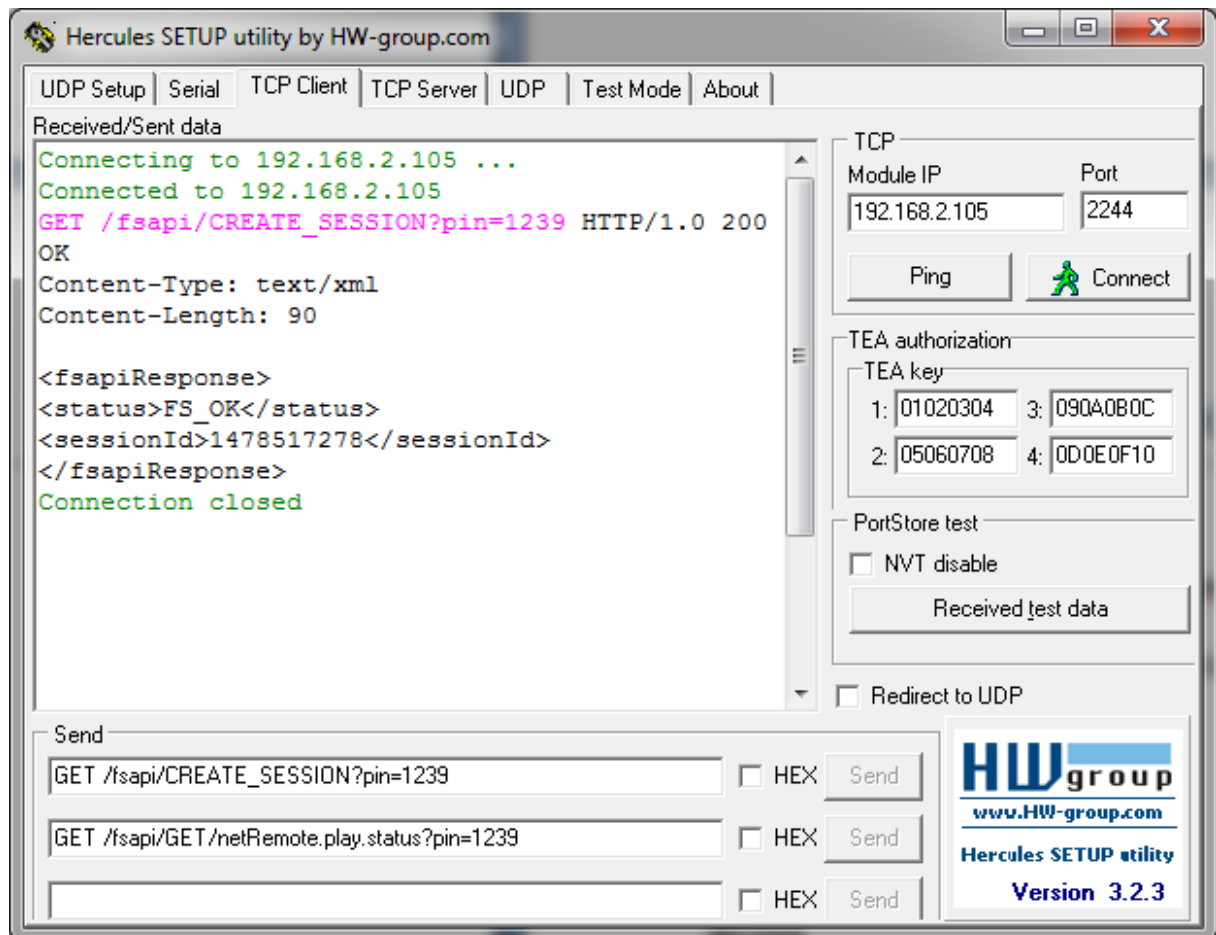
SESSION		NO SESSION	
+	-	+	-
1 User	Need to create a new session every time	Multiple users	Possible conflict between users
No conflicts between users			

- Setup a private session and use a sessionID

COMMAND = GET /fsapi/**CREATE_SESSION**?pin=1324

Every user can create a private session, the unit would follow the commands until the session has ended or another user has created a new one.

As long you keep sending the current sessionID the unit will respond and execute the commands and other commands with a different sessionID will get a “404 NOT FOUND “ error.

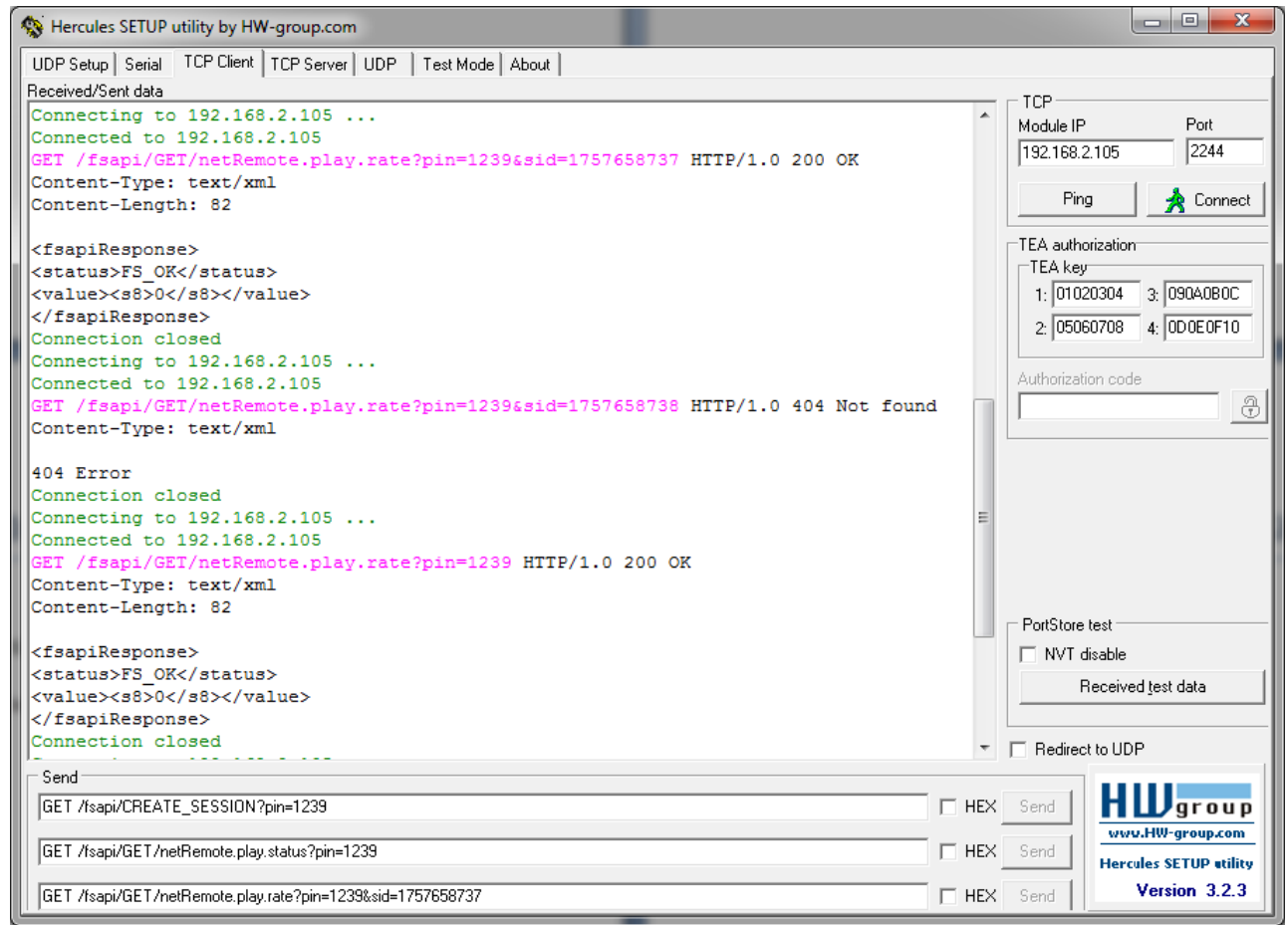


Every user is always capable of starting a new session even when another user is already in a session. This means that the unit will listen to the new sessionID and ignore the previous sessionID.

- b. Send the command straight to the unit.

Every command that is sent straight to the unit will be executed. This would not end the current sessionID.

Current SessionID = 1757658737



1. The First command has used the correct sessionID

- ⇒ Valid answer
- ⇒ The command has been executed

2. The second command has used an incorrect sessionID

- ⇒ Invalid answer "404 NOT FOUND"
- ⇒ The command hasn't been executed

3. The third command hasn't used a sessionID

- ⇒ Valid answer
- ⇒ The command has been executed

!!! IMPORTANT !!!

Controllers with a different sessionID will get a "404 NOT FOUND" error.

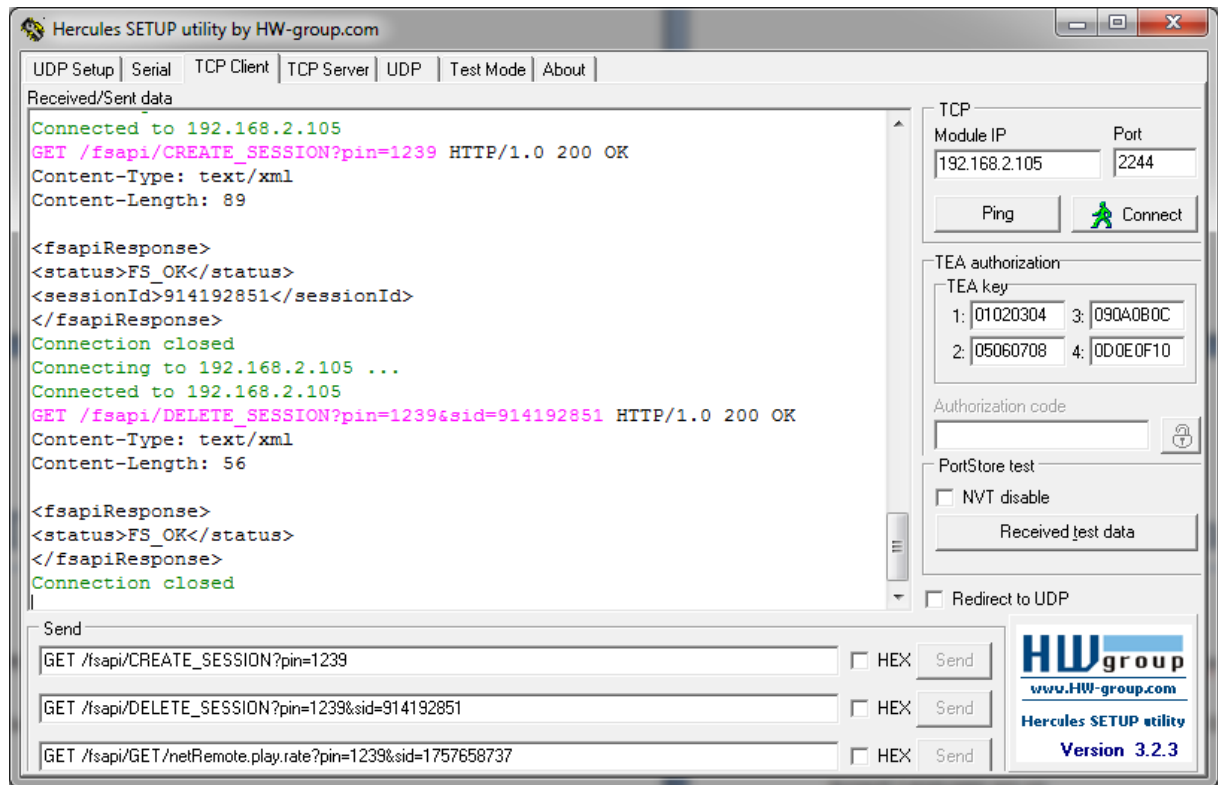
BUT, a controller who doesn't use a sessionID will get a valid response and their commands will be executed.

!!! IMPORTANT !!!

6.3 DELETE SESSION

When a user wants to end the session, it is done by sending the following command.

COMMAND = GET /fsapi/DELETE_SESSION?pin=1234&sid91192851



6.4 GET NOTIFIES

This command can be used to retrieve information. The reply depends on the current system mode configuration.

COMMAND: GET /fsapi/GET_NOTIFIES?pin=1234&sid=959535105

!!! IMPORTANT !!!

The unit will only execute this command if the user sends a Session ID.

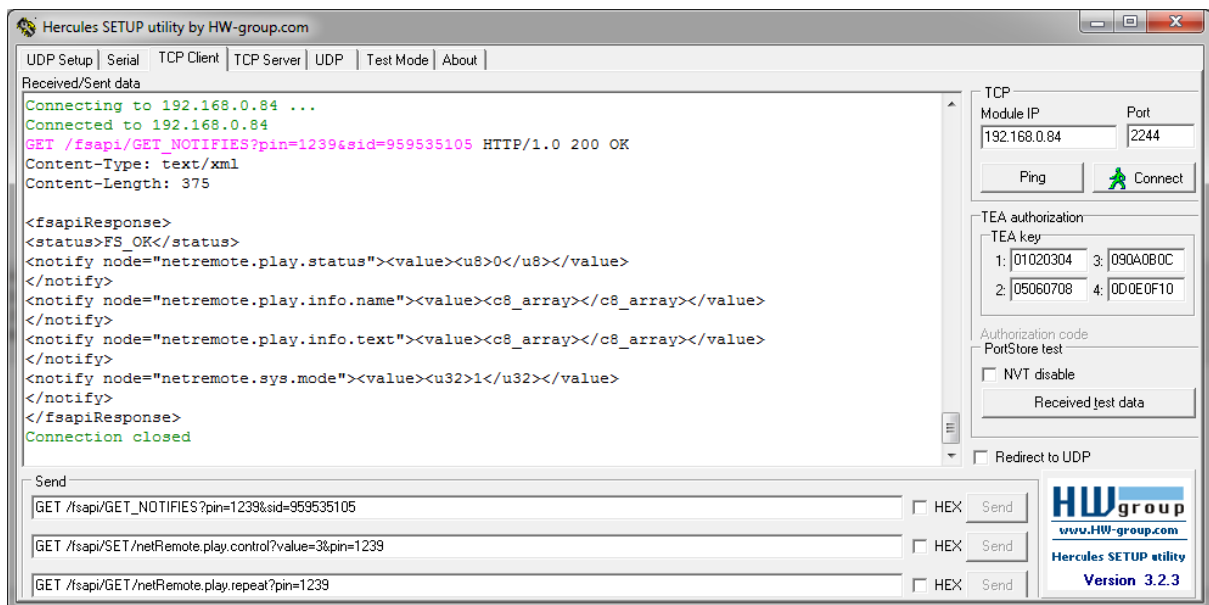
If the user sends this command straight to the device (without a Session ID)

Reply:

```
HTTP/1.0 404 Not found
Content-Type: text/xml
```

404 Error

!!! IMPORTANT !!!



7. netRemote

In this chapter we will show and explain the commands to control the unit.

7.1 PLAY

7.1.1 PLAY.SHUFFLE

The user can request the status of the music player shuffle mode or activate / deactivate the shuffle mode himself.

GET PLAY.SHUFFLE

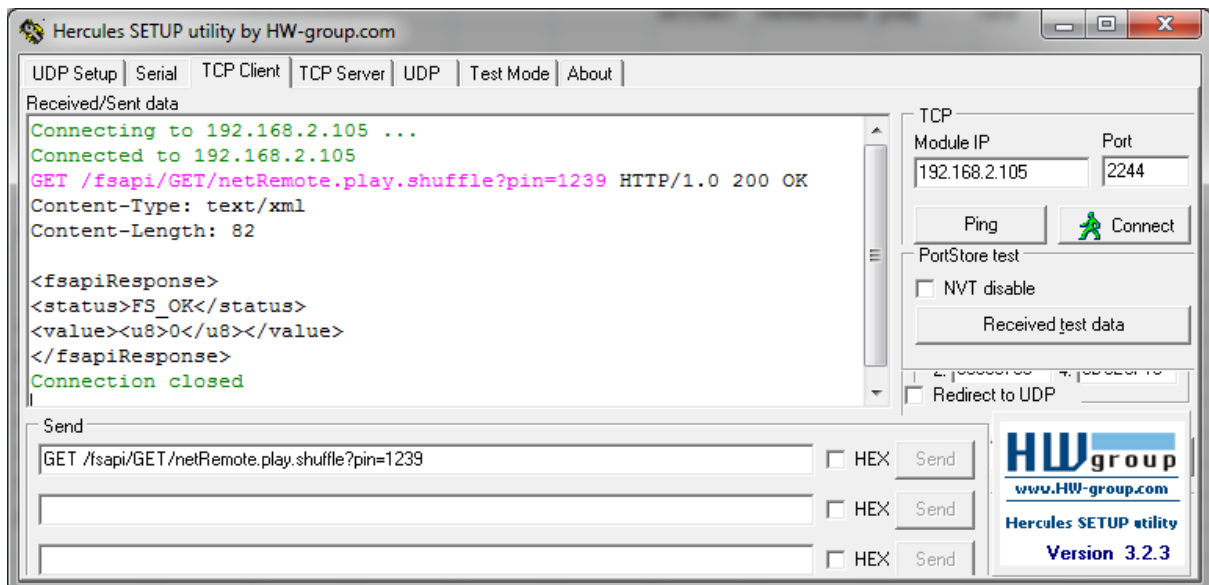
COMMAND = GET /fsapi/GET/netRemote.play.shuffle?pin=1234

**In these examples I send the commands straight to the device without setting up a session. To clearly show the important parts of the commands.*

Green →TCP Communication

Pink →Command send to the PMR4000R

Black →Reply from the PMR4000R



The unit's reply starts with **HTTP/1.0 200 OK**, which means the command and PIN were accepted.

The response value can be found in the line **<value><u8>0</u8></value>**

→The value of the shuffle = 0

Which means it's inactive.

VALUE	STATUS
1	Active
0	Inactive

SET PLAY.SHUFFLE

COMMAND = GET /fsapi/SET/netRemote.play.shuffle?value=1&pin=1234

There are two differences between the SET and GET commands.

- GET → SET

The third parameter change into a SET command.

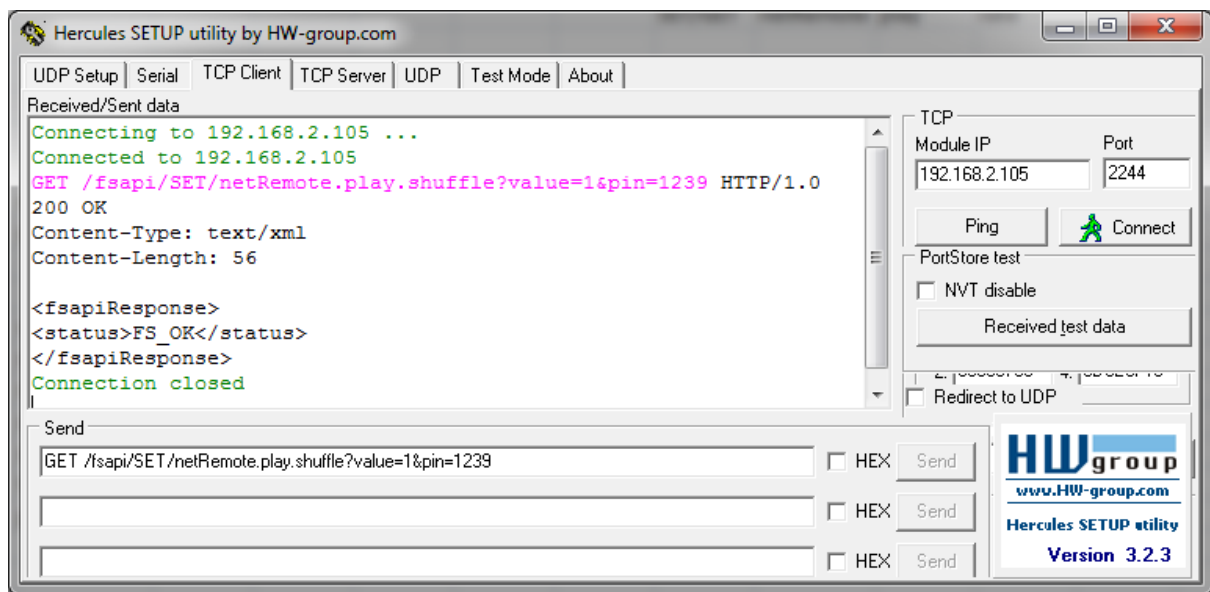
- Value=1

The new value needs to be added to the command. This part will be placed between the command and the PIN

!!!IMPORTANT!!!

After the value there is a & symbol placed, this shows the unit where the command ends and that the PIN begins.

!!!IMPORTANT!!!



- Reply

Status = FS_OK

Which means the value was accepted and executed

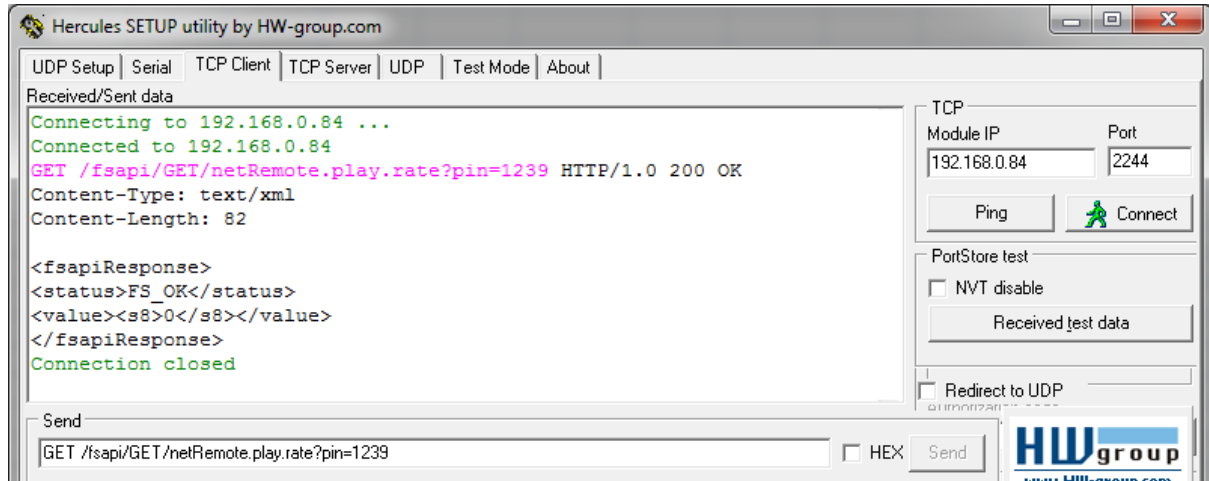
VALUE	STATUS
1	Activate
0	Deactivate

7.1.2 PLAY.REPEAT

The user can request the status of the music player repeat mode or activate / deactivate the repeat mode himself.

GET PLAY.REPEAT

COMMAND = GET /fsapi/GET/netRemote.play.repeat?pin=1234



SET PLAY.REPEAT

COMMAND = GET /fsapi/SET/netRemote.play.repeat?value=1&pin=1234

The repeat command has two possible values.

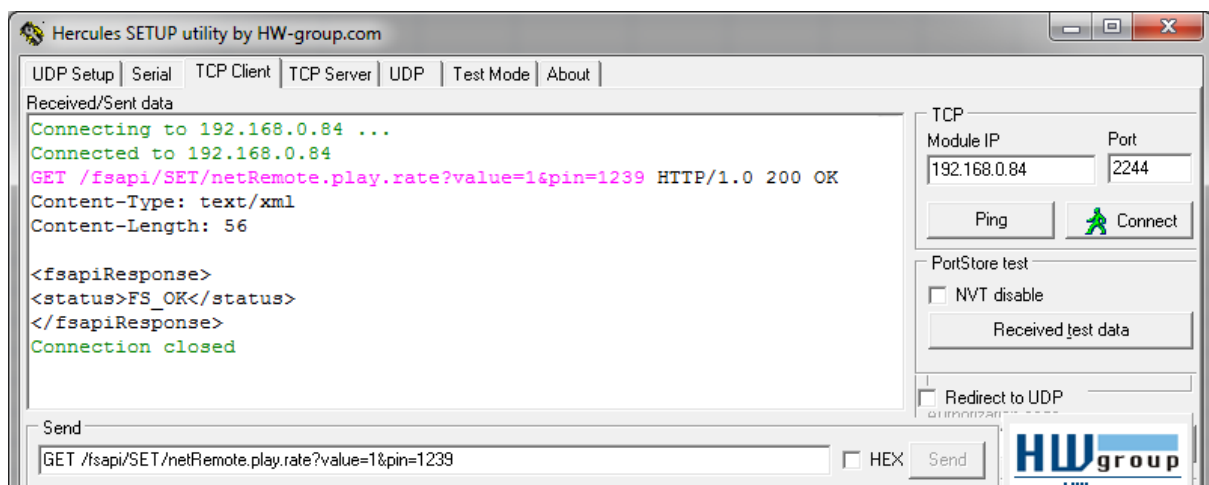
- Value = 1

VALUE	STATUS
1	Activate
0	Deactivate

When you want to activate the repeat mode, you need to send value = 1.

- Value = 0

When you want to deactivate the repeat mode, you need to send value = 0.



7.1.3 PLAY.RATE

With this command is the user capable of pause, play, fast forward and rewind the music.

The value has a range between -127 to 127. The value can be divided between 4 categories.

VALUE	STATUS
-127 to -1	Rewind
0	PAUSE
1	PLAY
2 to 127	Fast forward

➤ -127 to -1

When the user sends a negative value, the music player will rewind the track.

The speed depends on the value, -10 will rewind faster than value -2

➤ 0

When the user send rate = 0 ➔ the track will be paused

➤ 1

The track will be played with normal speed

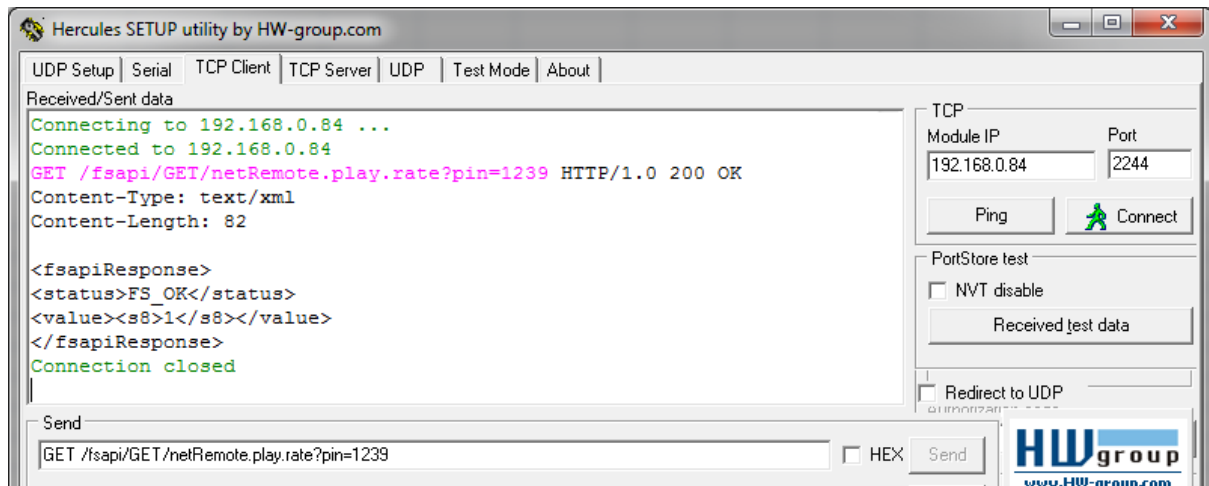
➤ 2 to 127

The track will be fast forwarded, the speed is here also dependable of the value

The speed of the fast forward is also dependable of the value ➔ 80 is faster than 10

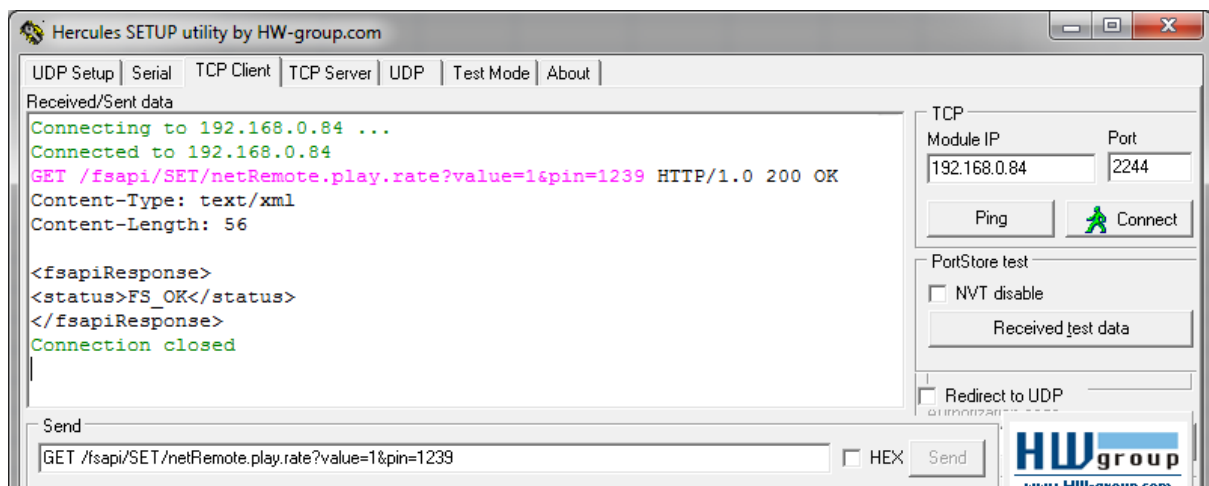
GET PLAY.RATE

COMMAND = GET /fsapi/GET/netRemote.play.rate?pin=1234



SET PLAY.RATE

COMMAND = GET /fsapi/SET/netRemote.play.rate?value=1&pin=1234



!!!IMPORTANT!!!

REWIND or FAST FORWARD is only activated for 1 track, when the track reaches the end. The music player will pause. The user needs to change the rate to value = 1 (it will start the next track after FAST FORWARD or play the same track after REWIND) OR give PREV or NEXT command to play the next /previous track (this track will be automatically played with rate 1 (normal speed))

!!!IMPORTANT!!!

7.1.4 PLAY.POSITION

The user can jump to a specific moment of the track. This means that the range of the value is different with every track.

After the position is changed, the music player will continue to play the song (with the same rate).

!!!IMPORTANT!!!

The range of the value has no solid value, because the number of samples is different with every track.

To prevent sending an out of bound value. The user can request the number of samples of the track.

How to get the range of a track?

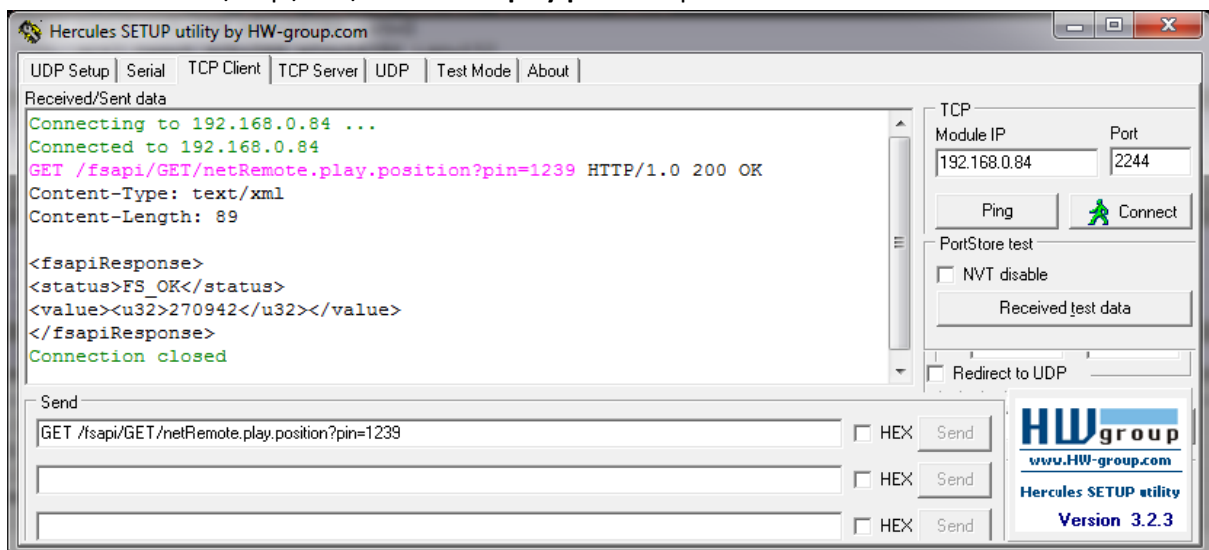
The duration of a track can be requested with the following command.

GET /fsapi/GET/netRemote.play.info.duration?pin=1234 (see next chapter)

!!!IMPORTANT!!!

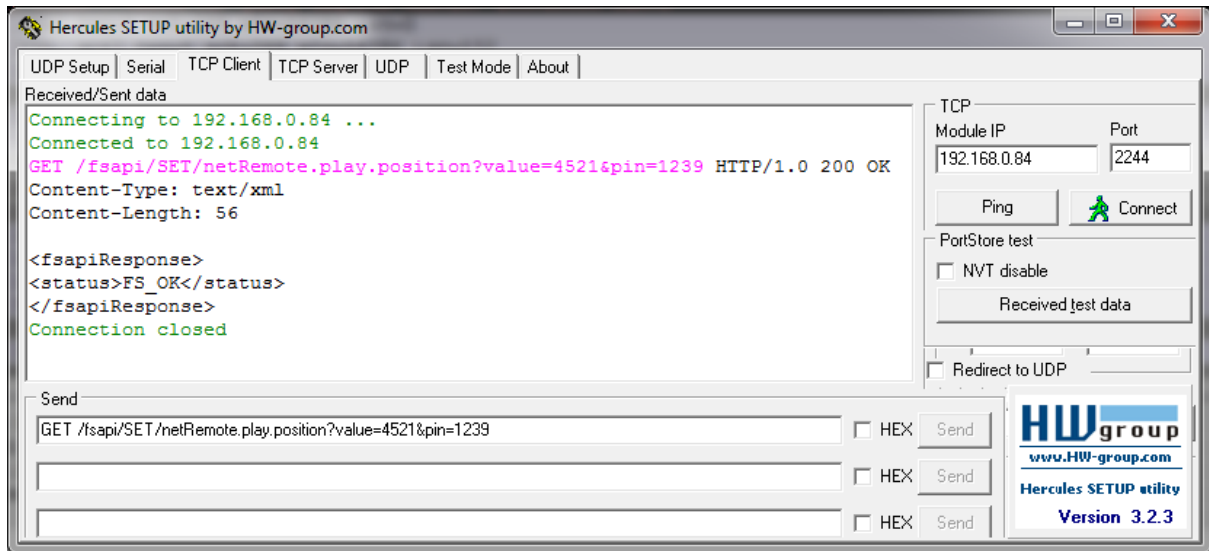
GET PLAY.POSITION

COMMAND = GET /fsapi/GET/netRemote.play.position?pin=1234



SET PLAY.POSITION

COMMAND = GET /fsapi/SET/netRemote.play.position?value=4521&pin=1234



7.1.5 PLAY.CONTROL

The control command has four different settings.

1 → The current selected track will start playing

2 → The current playing track will be paused

3 →

Media Player:

The next track will be selected and start playing. When the last item of the playlist is active, the unit will start the first track off the playlist.

Radio:

The unit will automatically scan on higher frequencies for the next available radio.

4 →

Media Player:

The previous track will start playing. If the first track is active, the unit will select the last track off the playlist.

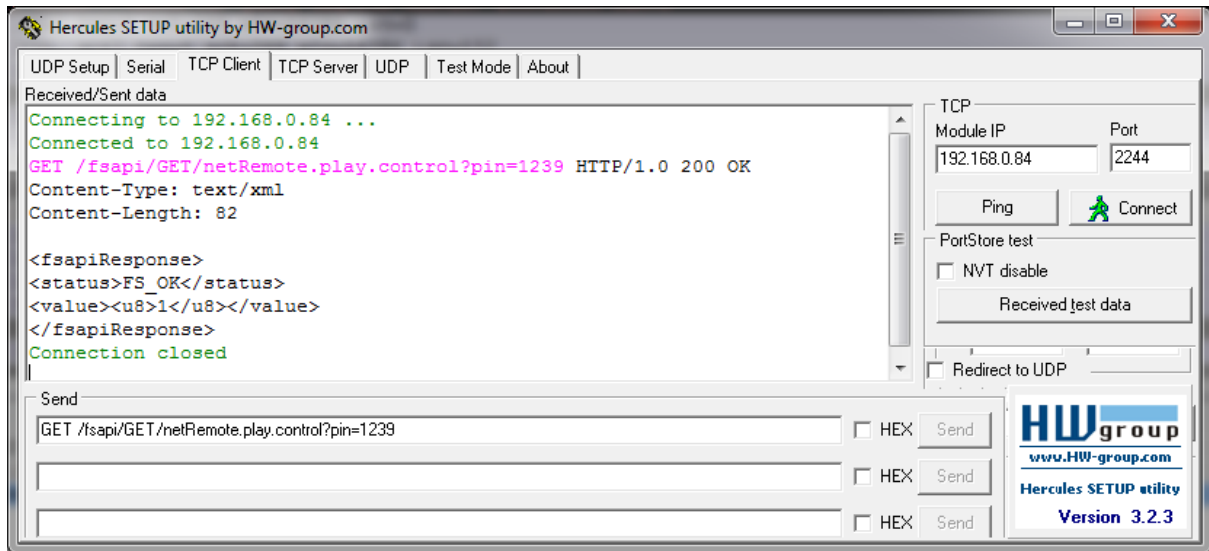
Radio:

The unit will automatically scan on lower frequencies for the next available radio.

VALUE	STATUS
1	PLAY
2	PAUSE
3	NEXT
4	PREV

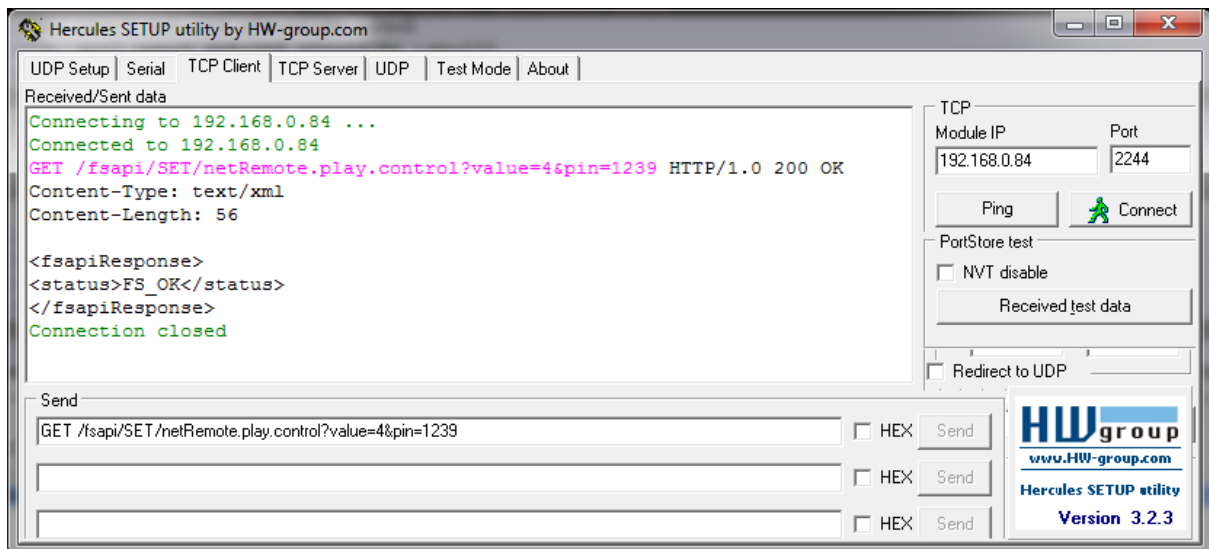
GET PLAY.CONTROL

COMMAND = GET /fsapi/GET/netRemote.play.control?pin=1234



SET PLAY.CONTROL

COMMAND = GET /fsapi/SET/netRemote.play.control?value=4&pin=1234



7.1.6 PLAY.INFO

The user can retrieve information about the current track playing or selected on the unit.

These commands can only be used to get information from the unit, the third parameter will never be "SET".

When the unit doesn't have the specific information. (For example: the current playing song doesn't have the artist information.) The response from the unit will be empty.

!!!IMPORTANT!!!

When the track doesn't have the information → Unknown artist

`<value><c8_array></c8_array></value>`

The reply from the unit will be empty.

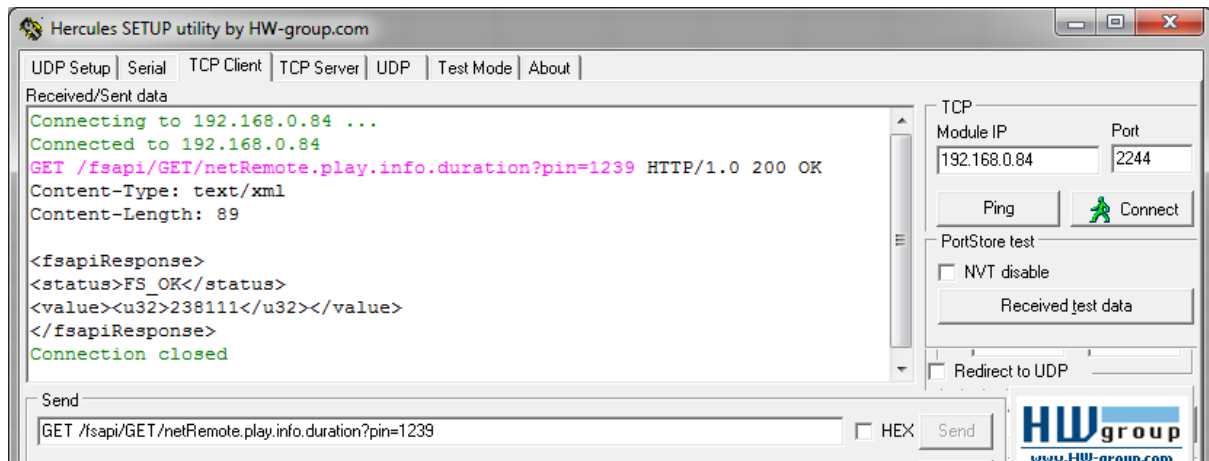
!!!IMPORTANT!!!

7.1.6.1 PLAY.INFO.DURATION

The specific duration of the current selected or playing track can be retrieved with this command. This is helpful when the user is going to jump to a specific part of the track and doesn't want to send an invalid command.

GET PLAY.INFO.DURATION

COMMAND = GET /fsapi/GET/netRemote.play.info.duration?pin=1234



7.1.6.2 PLAY.INFO.NAME

The name of the current selected or playing track can be retrieved with this command.

GET PLAY.INFO.NAME

COMMAND = GET /fsapi/GET/netRemote.play.info.name?pin=1234

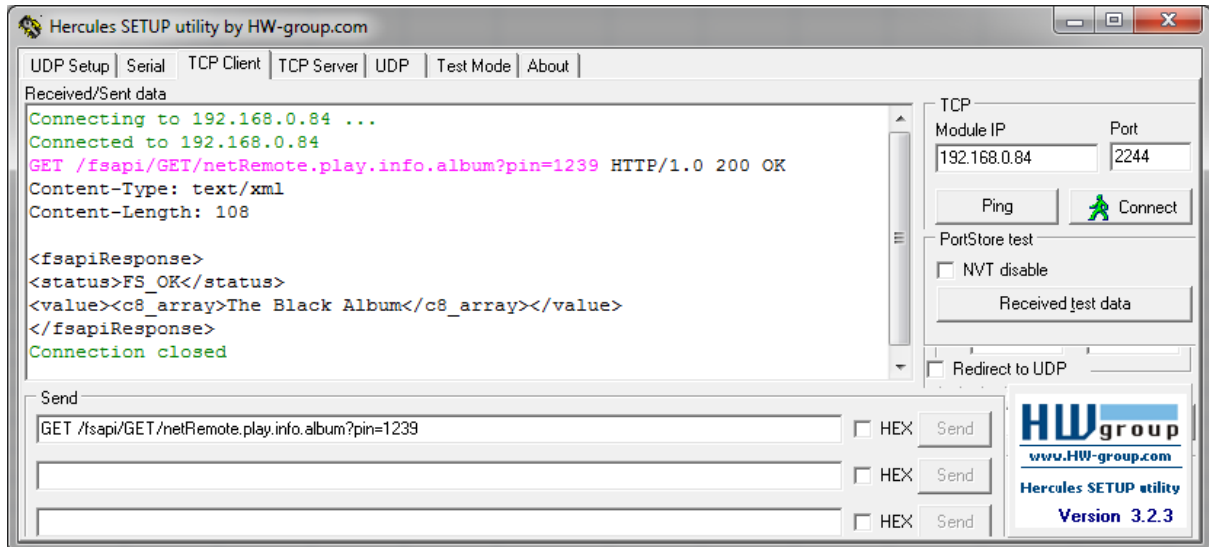


7.1.6.3 PLAY.INFO.ALBUM

The name of the album of the current selected or playing track can be retrieved with this command.

GET PLAY.INFO.ALBUM

COMMAND = GET /fsapi/GET/netRemote.play.info.album?pin=1234

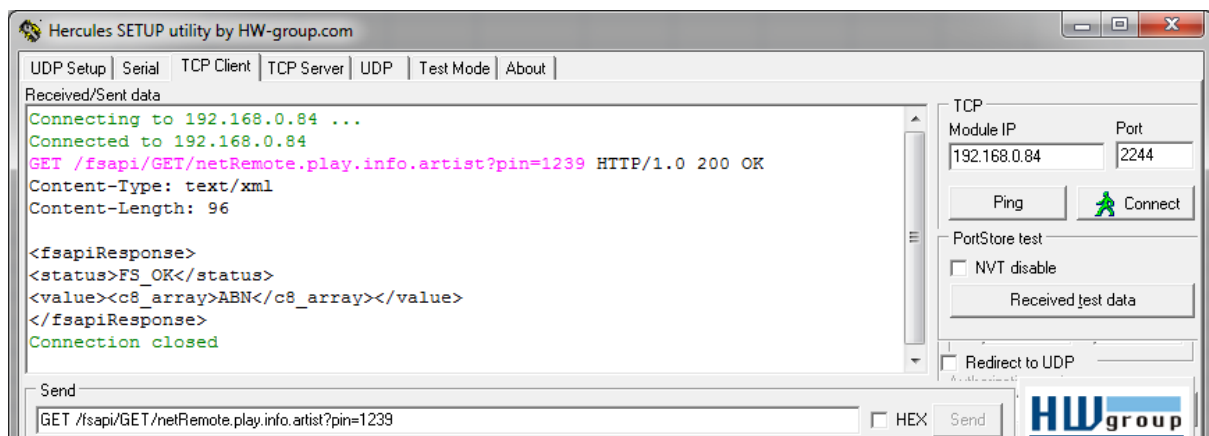


7.1.6.4 PLAY.INFO.ARTIST

The name of the artist of the current selected or playing track can be retrieved with this command.

GET PLAY.INFO.ARTIST

COMMAND = GET /fsapi/GET/netRemote.play.info.artist?pin=1234

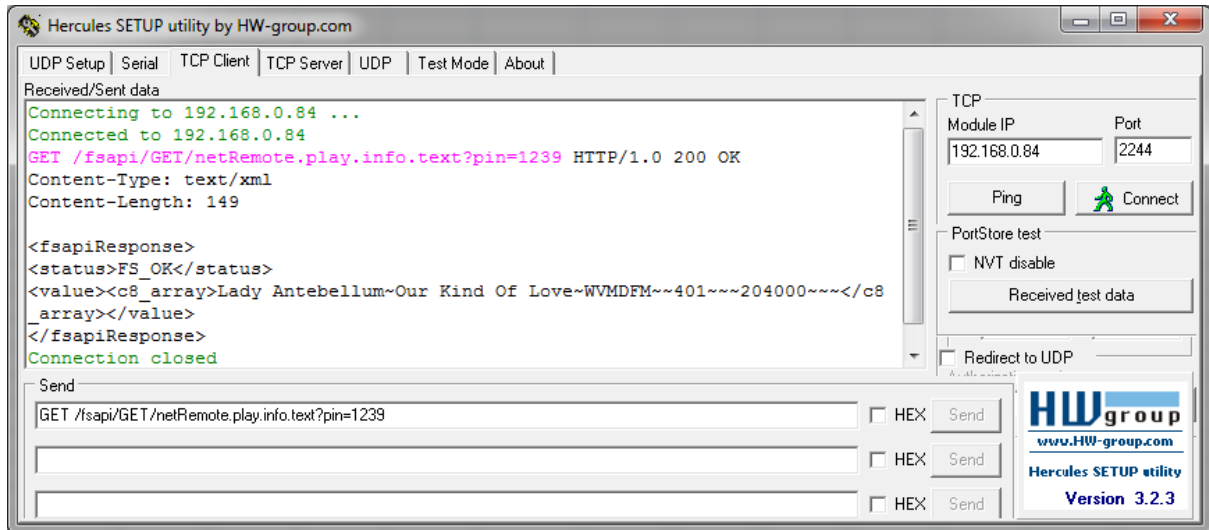


7.1.6.5 PLAY.INFO.TEXT

The user can retrieve extra information of the track with this command or when the Ethernet radio is active, this command will retrieve the data that is showed on the display.

GET PLAY.INFO.TEXT

COMMAND = GET /fsapi/GET/netRemote.play.info.text?pin=1234



7.1.6.6 PLAY.INFO.GRAPHICURI

When the Ethernet radio is active, the unit will check on the online database of wifiradiofrontier.

The unit will automatically check if the current selected radio has a logo in the database and if possible returns the location.

GET PLAY.INFO.GRAPHICURI

COMMAND = GET /fsapi/GET/netRemote.play.info.graphicUri?pin=1234



7.1.7 PLAY.STATUS

This command can only be used in a GET function. There are 3 different possible answers.

➤ 1

The unit is loading a track or scanning a radio preset

➤ 2

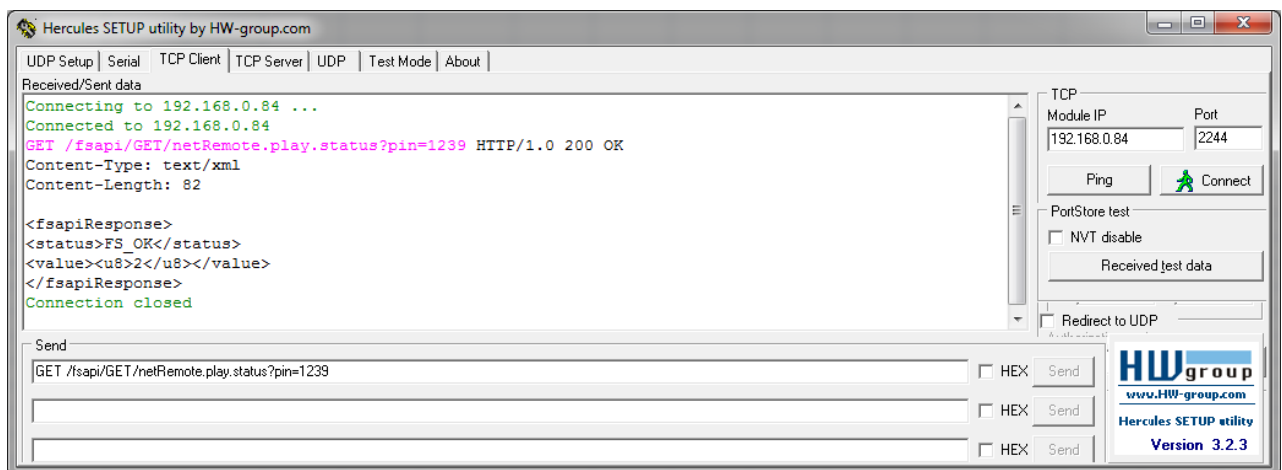
The unit is ready and playing a track or playing a radio post

➤ 3

The unit is ready and the track is paused.

GET PLAY.STATUS

COMMAND = GET /fsapi/GET/netRemote.play.status?pin=1234



7.2 NAV

The NAV commands are used to navigate through the data and display them on the app.

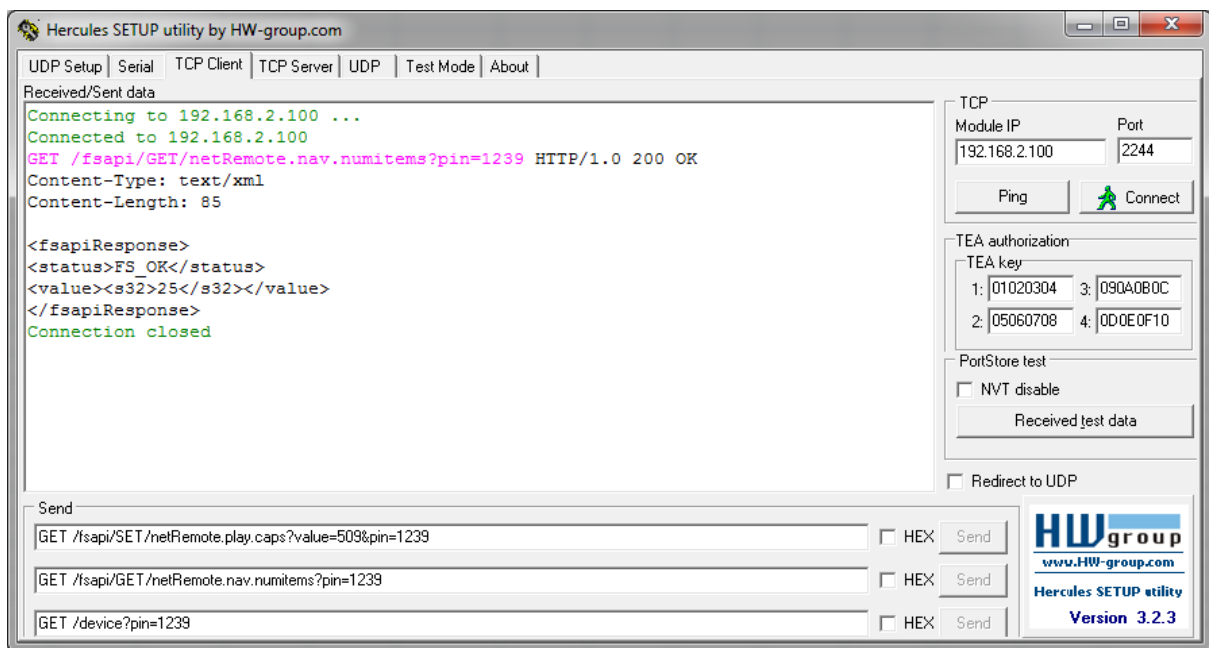
For example: when you want to browse through the USB (connected to the unit) map and want to list all the available documents.

7.2.1 NAV.NUMITEMS

Before you can retrieve the list, you need to know how many items there are.

GET NAV.NUMITEMS

COMMAND = GET /fsapi/GET/netRemote.nav.numitems?pin=1234



7.2.2 NAV.LIST

The user can retrieve the list of available items with this command.

LIST_GET_NEXT NAV.LIST

COMMAND = GET /fsapi/**LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=25**&pin=1234

➤ LIST_GET_NEXT

This isn't an ordinary GET function, for it will return an array (list) of data.

➤ -1

If the third parameter is "-1", the unit will reply with the entire list otherwise the list will start from the desired list number.

VALUE	STATUS
-1	All items
X	X = Start number

➤ maxItems=25

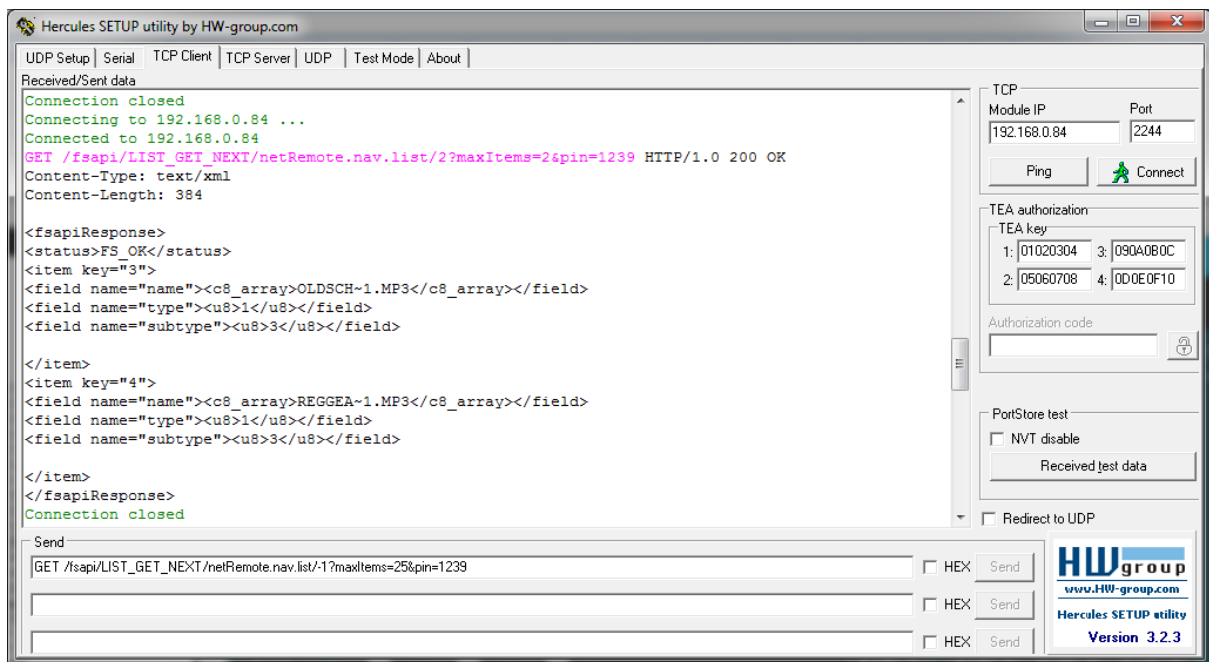
This parameter represents the maximal numbers of list items the reply will send.

Examples:

- If the third parameter > # available numbers & maxItems: 25

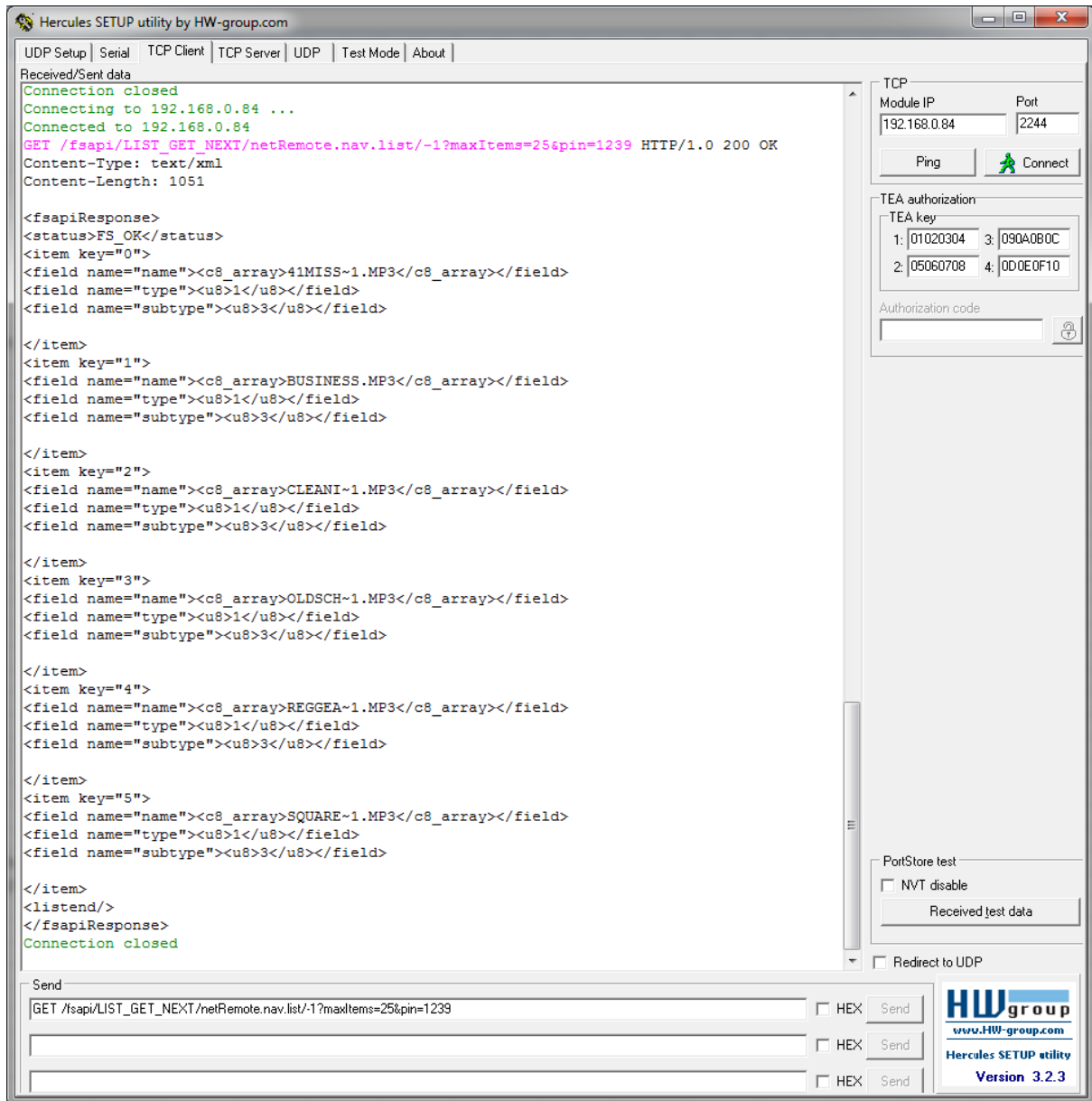


- Third parameter = 2 & maxItems: 2



- Third parameter = -1 & maxItems: 25

The unit will reply with the entire list:



7.2.3 NAV.ACTION

These commands could be used to move in the map structure and open files.

7.2.3.1 NAV.ACTION.NAVIGATE

This command is used to move through the map structure.

SET NAV.ACTION.NAVIGATE

COMMAND = GET /fsapi/SET/netRemote.nav.action.navigate?value=1&pin=1234

➤ SET

This command will execute an action.

➤ Value

- 0xffffffff

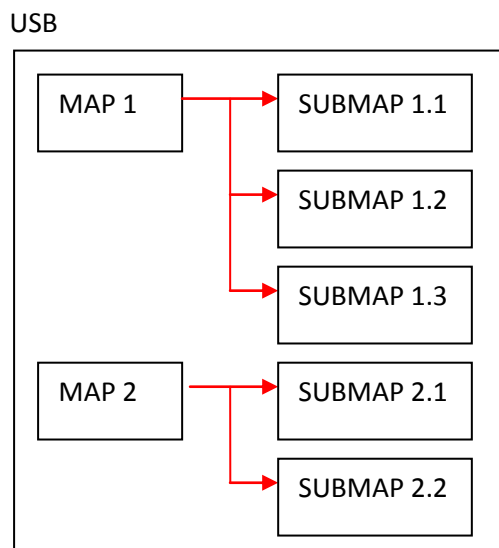
The unit will select the map in an upper level.

Example:

The user has selected SUBMAP 1.1. He can retrieve the items in this map.

➔ GET /fsapi/SET/netRemote.nav.action.navigate?value=0xffffffff&pin=1234

The unit will move to an upper level and show the content of MAP 1.



- X

The unit will enter the selected map and the user will be capable of retrieving the content.

Example:

The user has selected map 1

➔ GET /fsapi/SET/netRemote.nav.action.navigate?value=2&pin=1234

The unit will open the second map (SUBMAP 1.2) .

!!!IMPORTANT!!!

Different types:

0 = Map structure

1 = MP3

2 = MP4

This command will only work if the selected item is a type "0"

```
<item key="0">
<field name="name"><c8_array>MAP1~1</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>
```

!!!IMPORTANT!!!



7.2.3.2 NAV.ACTION.SELECTITEM

This command is used to open a file in the current selected map level.

SET ACTION.SELECTITEM

COMMAND = GET /fsapi/**SET**/netRemote.nav.action.selectItem?**value=2**&pin=1234

➤ SET

This command will execute an action.

➤ Value=2

The selected value will open the item with the same item key.

!!!!IMPORTANT!!!

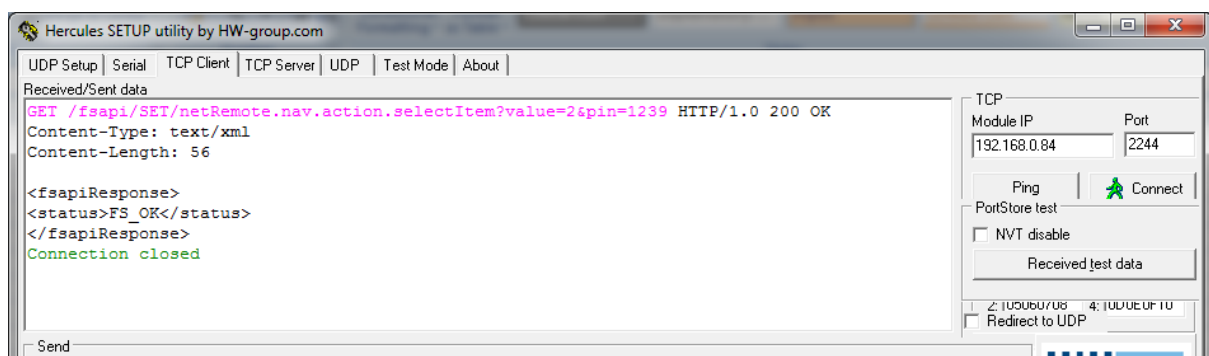
This command can't be used to move through map levels.

It will only open the selected item if the item type isn't "0".

```
</item>
<item key="2">
<field name="name"><c8_array>02MAST~1.M4A</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>3</u8></field>
```

!!!!IMPORTANT!!!

If a valid item has been selected, it will automatically start playing.



7.2.4 NAV.STATE

Every time the system mode change, the nav commands will be disabled. Therefore they have to be enabled before they can be executed.

GET NAV.STATE

COMMAND = GET /fsapi/**GET**/netRemote.nav.state?pin=1234

This command can be used to retrieve the current state

SET NAV.STATE

COMMAND = GET /fsapi/**SET**/netRemote.nav.state?**value=1**&pin=1234

This command can be used to change the current state

- Value

To enable the nav commands, the nav.state needs to be set to "1" and to disable it needs to be set to "0".

VALUE	STATUS
0	Disable
1	Enable



Example:

'Ethernet radio is activated

```
GET /fsapi/SET/netRemote.sys.mode?value=0&pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get the number of available list items

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 66
```

```
<fsapiResponse>
<status>FS_NODE_BLOCKED</status>
</fsapiResponse>
```

'Check the nav.state

```
GET /fsapi/GET/netRemote.nav.state?pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 82
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>0</u8></value>          \!!!State = disabled!!!
</fsapiResponse>
```

'Enable the nav commands.

```
GET /fsapi/SET/netRemote.nav.state?value=1&pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get the number of available list items

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>6</s32></value>
</fsapiResponse>
```

5.2.3 NAV.STATUS

When the unit is still loading, it's not possible to read the data. To prevent errors or invalid answers it's best to always check the status after changing the system.mode before sending new commands.

This command has two possible answers

- 0

The unit is loading.

- 1

The unit is ready.

VALUE	STATUS
0	Loading
1	Ready

GET NAV.STATUS

COMMAND = GET /fsapi/GET/netRemote.nav.status?pin=1234



7.3 SYSTEM

The system commands are used to GET/SET the system configuration.

7.3.1 SYSTEM.MODE

SET SYS.MODE

COMMAND = GET /fsapi/**SET**/netRemote.sys.mode?value=0&pin=1234

The mode can be set to three different values.

- 0

This mode will select the Ethernet radio

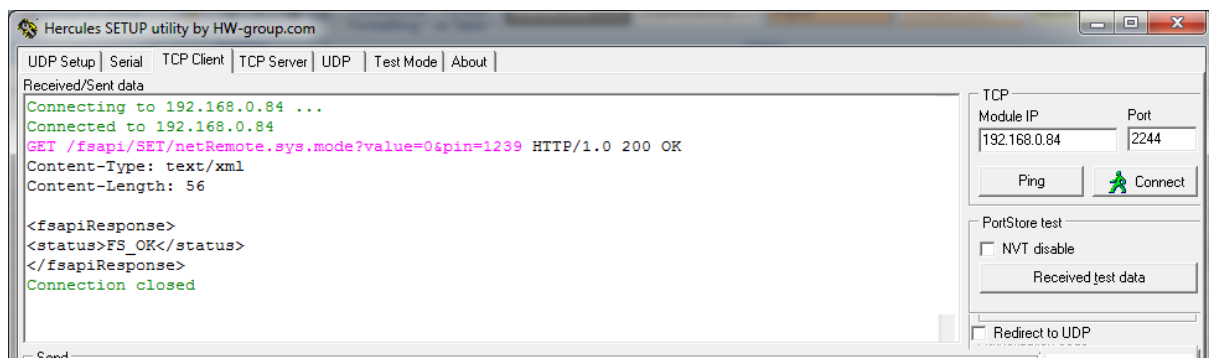
- 1

This mode will select the Media Player

- 2

This mode will select the FM radio

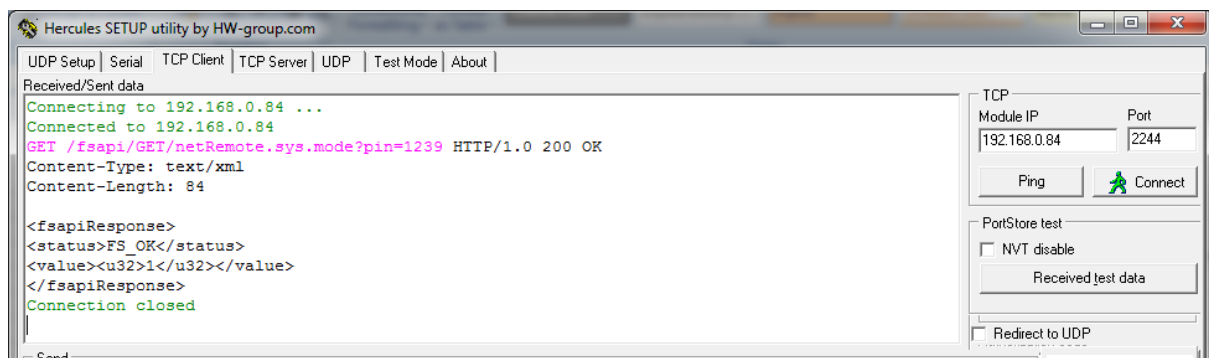
VALUE	STATUS
0	Ethernet Radio
1	Music Player
2	FM Radio



GET SYS.MODE

COMMAND = GET /fsapi/**GET**/netRemote.sys.mode? pin=1234

The user can retrieve the current system configuration.



7.3.2 SYSTEM.INFO.FRIENDLYNAME

!!!IMPORTANT!!!

This name cannot be changed, to prevent the possibility to connect two units with the same friendly name on a single network.

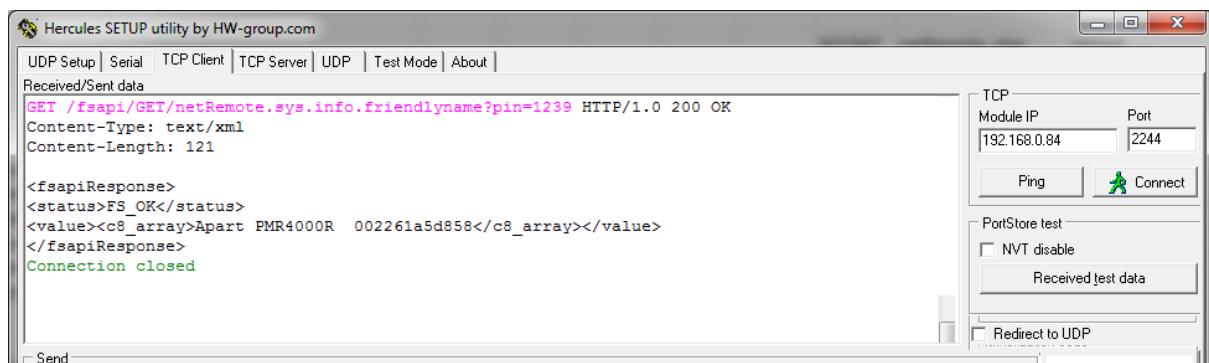
The units friendly name can be found:

System settings → Info → Friendly name

!!!IMPORTANT!!!

GET SYS.INFO.FRIENDLYNAME

COMMAND = GET /fsapi/GET/netRemote.sys.info.friendlyname?pin=1234



7.3.3 SYSTEM.AUDIO

7.3.3.1 SYSTEM.AUDIO.MUTE

The user can enable / disable the mute function or request the current status.

SET SYS.AUDIO.MUTE

COMMAND = GET /fsapi/**SET**/netRemote.sys.audio.mute?**value=1**&pin=1234

The mode can be set to two values

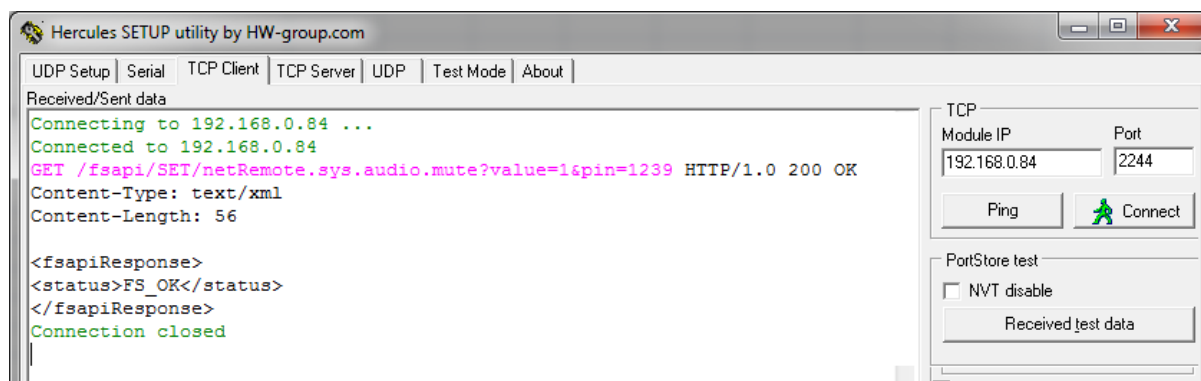
- 0

This mode will unmute the music.

- 1

This mode will mute the music.

VALUE	STATUS
0	Unmute
1	Mute



GET SYS.AUDIO.MUTE

COMMAND = GET /fsapi/GET/netRemote.sys.audio.mute?pin=1234

The user can retrieve the current state of the mute function.



7.3.3.2 SYSTEM.AUDIO.VOLUME

The user can retrieve or change the volume.

GET SYS.AUDIO.VOLUME

COMMAND = GET /fsapi/GET/netRemote.sys.audio.volume?pin=1234

The user can retrieve the current value of the volume.



SET SYS.AUDIO.VOLUME

COMMAND = GET /fsapi/**SET**/netRemote.sys.audio.volume?**value=2**&pin=1234

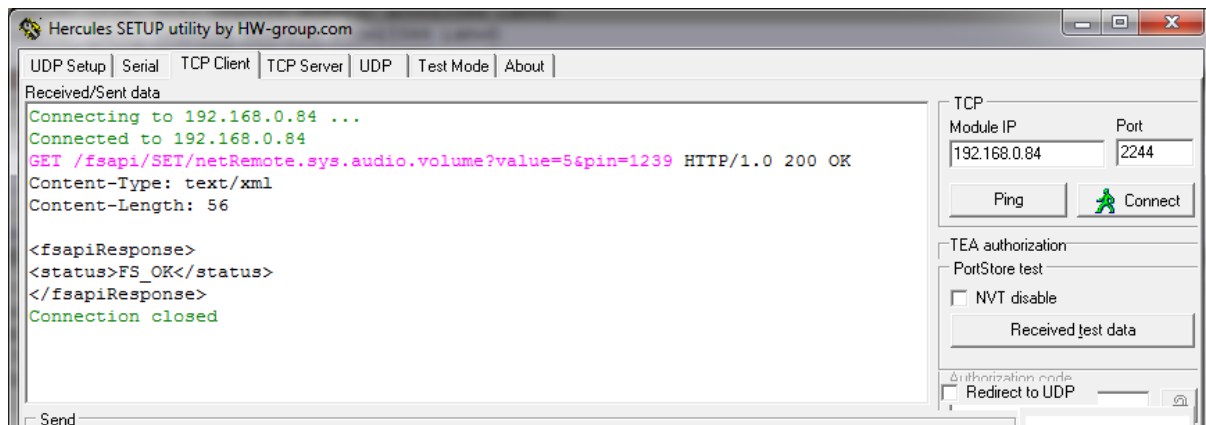
➤ 0

When the volume is set to the minimum value, it will activate the mute function.

VALUE	STATUS
0	Mute
1 - 20	Volume

➤ 1-20

The range of the volume is set from 1 to 20.



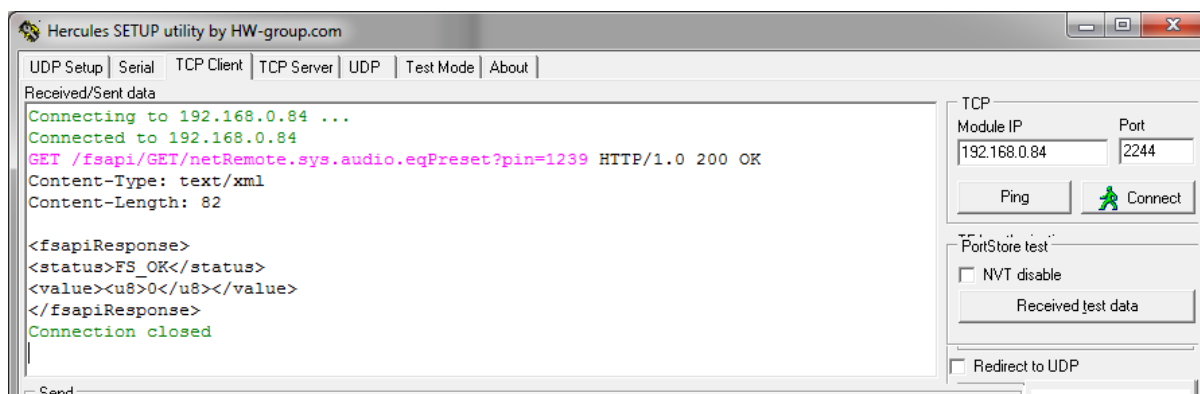
7.3.3.3 SYSTEM.AUDIO.EQPRESET

The user can retrieve or set the EQ configuration.

GET SYS.AUDIO.EQPRESET

COMMAND = GET /fsapi/GET/netRemote.sys.audio.eqpreset?pin =1234

The user can retrieve the current selected EQ type.



SET SYS.AUDIO.EQPRESET

COMMAND = GET /fsapi/SET/netRemote.sys.audio.eqpreset?value=2&pin=1234

There are two different types:

- My EQ

The user can create a personal EQ configuration.

The user can adjust the bass and treble levels and activate / deactivate the loudness.

- Preconfigured EQ

The user can choose between 8 different preconfigured EQ types:

Normal/Flat/Jazz/Rock/Movie/Classic/Pop and News.

VALUE	STATUS
0	My EQ
1	Normal
2	Flat
3	Jazz
4	Rock
5	Movie
6	Classic
7	Pop
8	News

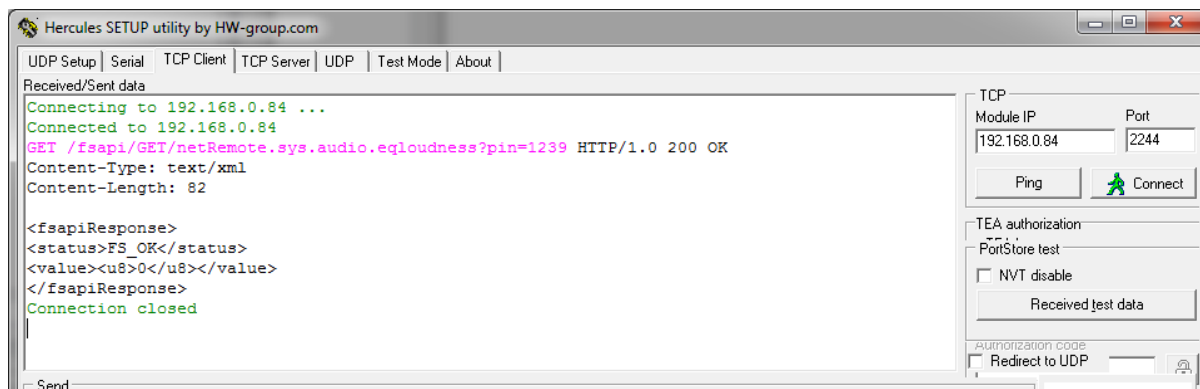
7.3.3.4 SYSTEM.AUDIO.EQLOUDNESS

When the user has selected the “My EQ” configuration, he can manually activate /deactivate the loudness function.

GET SYS.AUDIO.EQLOUDNESS

COMMAND = GET /fsapi/GET/netRemote.sys.audio.eqloudness?pin=1234

The user can retrieve the current state of the loudness function.



SET SYS.AUDIO.EQLOUDNESS

COMMAND = GET /fsapi/SET/netRemote.sys.audio.eqloudness?value=1&pin=1234

➤ 0

This will deactivate the loudness function

VALUE	STATUS
0	Deactivate
1	Activate

➤ 1

This will activate the loudness function.



7.3.3.5 SYSTEM.AUDIO.EQCUSTOM

The user can manually configure the EQ with this command

Bass = Param0

Treble = Param1

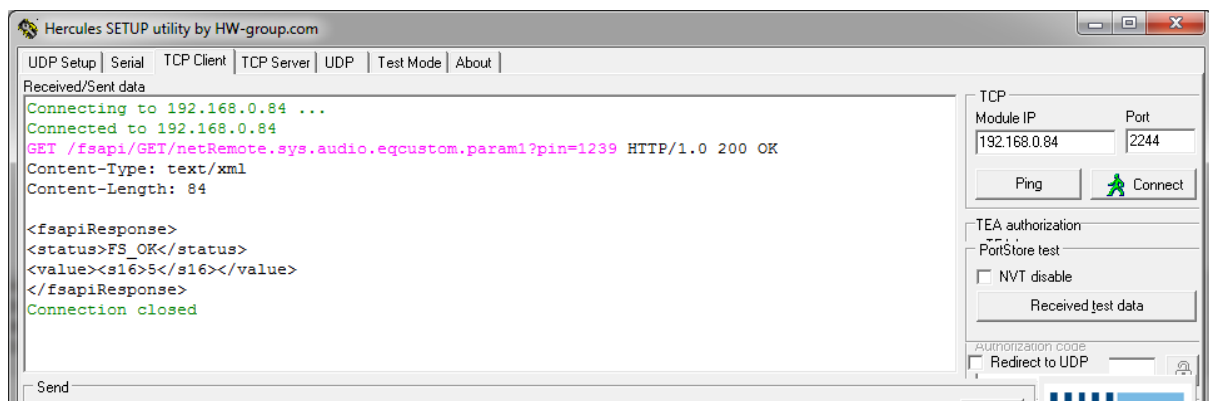
GET SYS.AUDIO.EQCUSTOM

COMMAND = GET /fsapi/GET/netRemote.sys.audio.eqcustom.param0?pin=1234

This command can be used to retrieve the bass level.

COMMAND = GET /fsapi/GET/netRemote.sys.audio.eqcustom.param1?pin=1234

This command can be used to retrieve the treble level.



SET SYS.AUDIO.EQCUSTOM

COMMAND = GET /fsapi/**SET**/netRemote.sys.audio.eqcustom.param0?**value=1**&pin=1234

This command can be used to set the bass level.

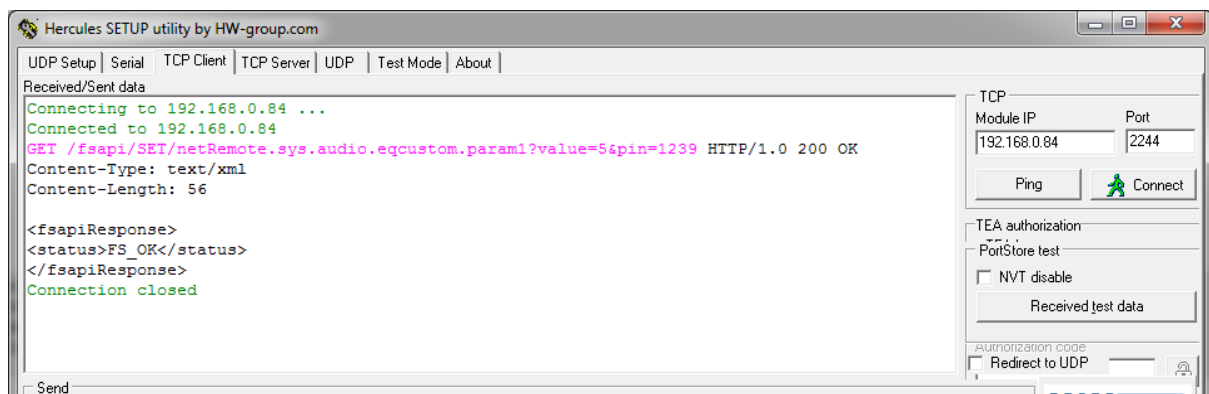
COMMAND = GET /fsapi/**SET**/netRemote.sys.audio.eqcustom.param1?**value=1**&pin=1234

This command can be used to set the treble level.

➤ VALUE

	Param0 (bass)	Param1 (treble)
VALUE	-7 to 7	-7 to 7

The bass and treble levels have a range from -7 to 7.



7.3.4 SYSTEM.POWER

The user can enable / disable the standby function with this command.

When the standby mode is active, the output will be muted and the display will be disabled.

!!!IMPORTANT!!!

The Ethernet or FM radio will reselect the last configured radio and automatically start playing.

The music player will select the two main maps

- Shared Media
- USB playback

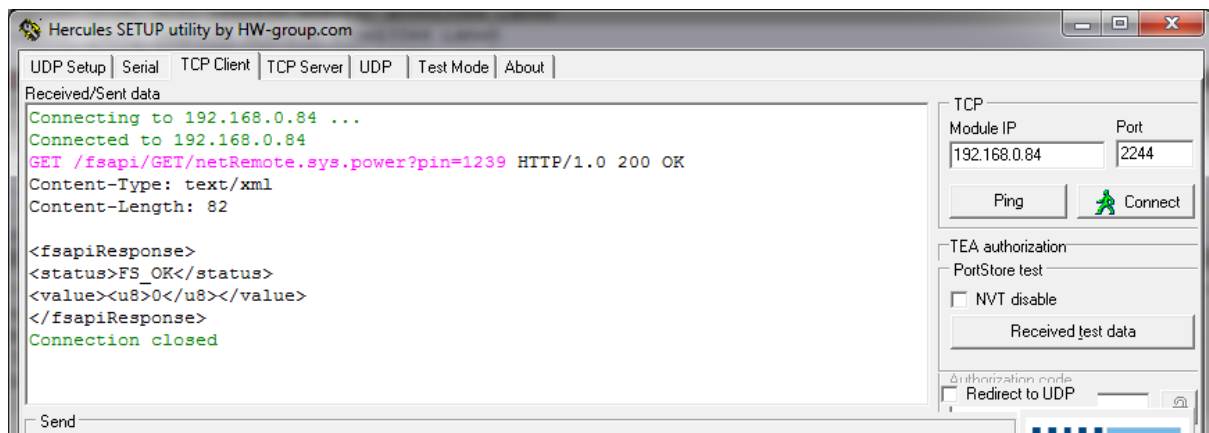
➔The unit wouldn't continue playing the last selected song.

!!!IMPORTANT!!!

GET SYS.POWER

COMMAND = GET /fsapi/GET/netRemote.sys.power?pin=1234

The user can retrieve the current state of the standby mode.



SET SYS.POWER

COMMAND = GET /fsapi/**SET**/netRemote.sys.power?value=1&pin=1234

The user can enable / disable the standby mode.

➤ 1

This will disable the standby mode, the unit will return to his previous status.

VALUE	STANDBY
0	Enable
1	Disable

!!!IMPORTANT!!!

There are two possibilities to exit the standby mode.

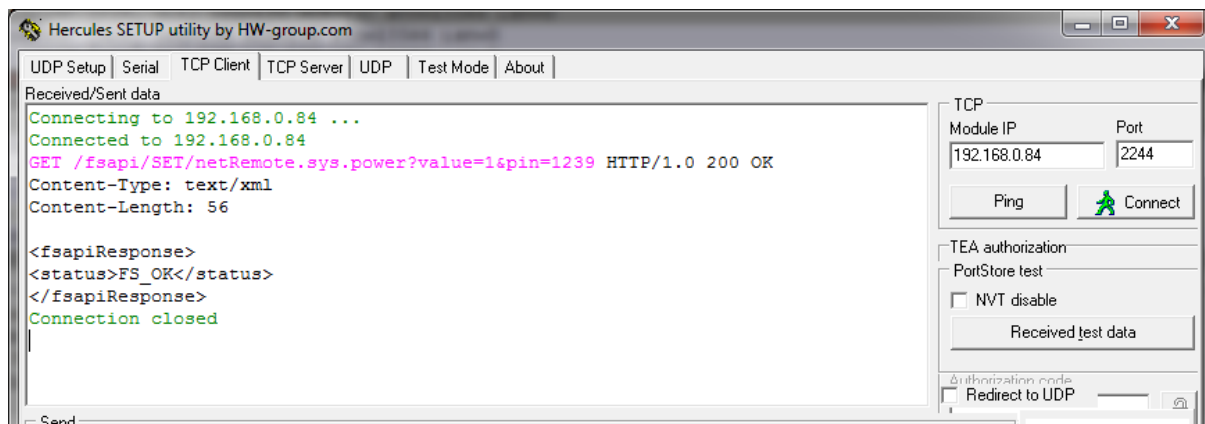
1. GET /fsapi/**SET**/netRemote.sys.power?value=1&pin=1234
2. **Or send another command to the unit.**

Set volume, change system settings ,...

!!!IMPORTANT!!!

➤ 0

This will activate the standby mode.



7.3.5 SYSTEM.CAPS.EQPRESETS

The user can retrieve the list with available EQ types.

LIST_GET_NEXT SYS.CAPS.EQPRESETS

COMMAND =

GET /fsapi/LIST_GET_NEXT/netRemote.sys.caps.eqpresets/-1?maxItems=25&pin=1234

```
Connecting to 192.168.0.84 ...
Connected to 192.168.0.84
GET /fsapi/LIST_GET_NEXT/netRemote.sys.caps.eqpresets/-
1?maxItems=25&pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 775

<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="label"><c8_array>My EQ</c8_array></field>

</item>
<item key="1">
<field name="label"><c8_array>Normal</c8_array></field>

</item>
<item key="2">
<field name="label"><c8_array>Flat</c8_array></field>

</item>
<item key="3">
<field name="label"><c8_array>Jazz</c8_array></field>

</item>
<item key="4">
<field name="label"><c8_array>Rock</c8_array></field>

</item>
<item key="5">
<field name="label"><c8_array>Movie</c8_array></field>

</item>
<item key="6">
<field name="label"><c8_array>Classic</c8_array></field>

</item>
<item key="7">
<field name="label"><c8_array>Pop</c8_array></field>

</item>
<item key="8">
<field name="label"><c8_array>News</c8_array></field>

</item>
<listend/>
</fsapiResponse>
Connection closed
```

8. SUMMARY

!!!IMPORTANT!!!

Every command ends with pin number and sessionID (optional)

Exceptions: Device / CREATE_SESSION / DELETE_SESSION

How to change between a SET and a GET command.

GET /fsapi/**GET**/netRemote.play.shuffle → GET /fsapi/**SET**/netRemote.play.shuffle?value=x

!!!IMPORTANT!!!

*For further information: use the command list or the examples in this manual.

GET /device		Retrieve the units name and version number.	
GET /fsapi/CREATE_SESSION		Create a private session.	
GET /fsapi/DELETE_SESSION		Delete a private session.	
GET /fsapi/GET_NOTIFIES !!! sessionID is required !!!		Retrieve extra information. (reply depends on the current system mode configuration)	
GET /fsapi/GET/netRemote.play.shuffle	GET & SET	0 1	Deactivate Activate
GET /fsapi/GET/netRemote.play.repeat	GET & SET	0 1	Deactivate Activate
GET /fsapi/GET/netRemote.play.rate	GET & SET	-127 to -1 0 1 2 to 127	Rewind Pause Play Fast forward
GET /fsapi/GET/netRemote.play.position	GET & SET	Jump to specific moment of the track.	
GET /fsapi/GET/netRemote.play.control	GET & SET	1 2 3 4	Play Pause Next Prev
GET /fsapi/GET/netRemote.play.info.duration	GET only	Retrieve the specific duration of the current selected or playing track.	
GET /fsapi/GET/netRemote.play.info.name	GET only	Retrieve the name of the current selected or playing track.	
GET /fsapi/GET/netRemote.play.info.album	GET only	Retrieve the album name of the current selected or playing track.	
GET /fsapi/GET/netRemote.play.info.artist	GET only	Retrieve the artist name of the current selected or playing track.	

GET /fsapi/GET/netRemote.play.info.text	GET only	Retrieve extra information of the track or radio.
GET /fsapi/GET/netRemote.play.info.graphicuri	GET only	Retrieve the location of an available logo.
GET /fsapi/GET/netRemote.play.status	GET only	1 Loading a track or scanning a radio preset. 2 Unit is ready and playing a track or playing a radio preset. 3 Unit is ready and the track is paused.
GET /fsapi/GET/netRemote.nav.numitems	GET only	Retrieve the number of available list items.
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list	LIST_GET_NEXT only	Retrieve the list data.
GET /fsapi/SET/netRemote.nav.action.navigate	SET only	Used to move through the map structure.
GET /fsapi/SET/netRemote.nav.action.selectitem	SET only	Open a file in the current selected map level.
GET /fsapi/GET/netRemote.nav.state	GET & SET	0 Disable 1 Enable
GET /fsapi/GET/netRemote.nav.status	GET & SET	0 Loading 1 Ready
GET /fsapi/GET/netRemote.sys.mode	GET & SET	0 Ethernet radio 1 Music player 2 FM radio
GET /fsapi/GET/netRemote.sys.info.friendlyname	GET only	Retrieve the name of the unit.
GET /fsapi/GET/netRemote.sys.audio.mute	GET & SET	0 Unmute 1 Mute
GET /fsapi/GET/netRemote.sys.audio.volume	GET & SET	0 Mute 1 – 20 Volume
GET /fsapi/GET/netRemote.sys.audio.eqpreset	GET & SET	0 My EQ 1 Normal 2 Flat 3 Jazz 4 Rock 5 Movie 6 Classic 7 Pop 8 News
GET /fsapi/GET/netRemote.sys.audio.eqloudness	GET & SET	0 Deactivate 1 Activate
GET /fsapi/GET/netRemote.sys.audio.eqcustom	GET & SET	Retrieve /set the Bass and Treble level. Bass Param0 Treble Param1
GET /fsapi/GET/netRemote.sys.power	GET & SET	0 Deactivate standby 1 Activate standby
GET /fsapi/LIST_GET_NEXT/netRemote.sys.caps.eqpresets	LIST_GET_NEXT only	Retrieve the list with available EQ types.

9. EXAMPLES

Communication

Pink → Commands send to the unit.

Black → Reply from the unit.

9.1 Example 1: How to activate Media player and select a song.

'Find device

```
GET /device HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 198
```

```
<netRemote>
<friendlyName>Apart PMR4000R 002261a5d858</friendlyName>
<version>ir-mmi-FS2026-0200-0153_V2.2.15.EX16463-1B6</version>
<webfsapi>http://192.168.0.84:2244/fsapi</webfsapi>
</netRemote>
```

'Create Session

```
GET /fsapi/CREATE_SESSION?pin=1234 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 90
```

```
<fsapiResponse>
<status>FS_OK</status>
<sessionId>1033835912</sessionId>
</fsapiResponse>
```

'Get system mode

```
GET /fsapi/GET/netRemote.sys.mode?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u32>0</u32></value>
</fsapiResponse>
```

→ Ethernet Radio

'Set system mode: Media Player

```
GET /fsapi/SET/netRemote.sys.mode?value=1&pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get notifies

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 375
```

```
<fsapiResponse>
<status>FS_OK</status>
<notify node="netremote.play.status"><value><u8>0</u8></value>
</notify>
<notify
node="netremote.play.info.name"><value><c8_array></c8_array></value>
</notify>
<notify
node="netremote.play.info.text"><value><c8_array></c8_array></value>
</notify>
<notify node="netremote.sys.mode"><value><u32>1</u32></value>
</notify>
</fsapiResponse>
```

'Get nav.state

```
GET /fsapi/GET/netRemote.nav.state?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 82
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>0</u8></value>
</fsapiResponse>
```

→ Disable

'Set nav.state: enable

```
GET /fsapi/SET/netRemote.nav.state?value=1&pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.numitems

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>2</s32></value>
</fsapiResponse>
```

'Get nav.list

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=25&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 395
```

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>Shared media</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>USB playback</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<listend/>
</fsapiResponse>
```

'Open map: USB Playback

```
GET /fsapi/SET/netRemote.nav.action.navigate?value=1&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.numitems

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>8</s32></value>
</fsapiResponse>
```

'Get nav.list

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=25&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 1359
```

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>MAP1~1</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>MAP2~1</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="2">
<field name="name"><c8_array>SWITCH~1</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="3">
<field name="name"><c8_array>SYSTEM~1</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="4">
<field name="name"><c8_array>04-JAY~1.MP3</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>3</u8></field>

</item>
<item key="5">
<field name="name"><c8_array>06-JAY~1.MP3</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>3</u8></field>

</item>
<item key="6">
<field name="name"><c8_array>ABN-KA~1.MP3</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>3</u8></field>

</item>
<item key="7">
<field name="name"><c8_array>MICHEA~1.MP3</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>3</u8></field>

</item>
</listend/>
</fsapiResponse>
```

'Select item 7: Michael jackson

```
GET /fsapi/SET/netRemote.nav.action.selectItem?value=7&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get Artist information

```
GET /fsapi/GET/netRemote.play.info.artist?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 108
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><c8_array>Michael Jackson</c8_array></value>
</fsapiResponse>
```

'Get Album information

```
GET /fsapi/GET/netRemote.play.info.album?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 105
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><c8_array>Off The Wall</c8_array></value>
</fsapiResponse>
```

'Get Track info

```
GET /fsapi/GET/netRemote.play.info.name?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 106
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><c8_array>Rock With You</c8_array></value>
</fsapiResponse>
```

'Get track duration

```
GET /fsapi/GET/netRemote.play.info.duration?pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 89
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u32>220672</u32></value>
</fsapiResponse>
```

'Get play.control'

GET /fsapi/GET/netRemote.play.control?pin=1234&sid=1033835912 HTTP/1.0 200

OK

Content-Type: text/xml

Content-Length: 82

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>1</u8></value>
</fsapiResponse>
```

'Get notifies'

GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK

Content-Type: text/xml

Content-Length: 373

```
<fsapiResponse>
<status>FS_OK</status>
<notify node="netremote.sys.mode"><value><u32>1</u32></value>
</notify>
<notify node="netremote.nav.status"><value><u8>1</u8></value>
</notify>
<notify node="netremote.play.info.name"><value><c8_array>Rock With
You</c8_array></value>
</notify>
<notify node="netremote.play.status"><value><u8>3</u8></value>
</notify>
</fsapiResponse>
```

9.2 Example 2: How to configure the EQ

'Get EQ list

```
GET /fsapi/LIST_GET_NEXT/netRemote.sys.caps.eqpresets/-1?maxItems=25
&pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 775

<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="label"><c8_array>My EQ</c8_array></field>

</item>
<item key="1">
<field name="label"><c8_array>Normal</c8_array></field>

</item>
<item key="2">
<field name="label"><c8_array>Flat</c8_array></field>

</item>
<item key="3">
<field name="label"><c8_array>Jazz</c8_array></field>

</item>
<item key="4">
<field name="label"><c8_array>Rock</c8_array></field>

</item>
<item key="5">
<field name="label"><c8_array>Movie</c8_array></field>

</item>
<item key="6">
<field name="label"><c8_array>Classic</c8_array></field>

</item>
<item key="7">
<field name="label"><c8_array>Pop</c8_array></field>

</item>
<item key="8">
<field name="label"><c8_array>News</c8_array></field>

</item>
</listend/>
</fsapiResponse>
```


'Get the EQpreset

```
GET /fsapi/GET/netRemote.sys.audio.eqpreset?pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 82
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>6</u8></value>
</fsapiResponse>
```

➔ Classic

'Set EQ type: My EQ

```
GET /fsapi/SET/netRemote.sys.audio.eqpreset?value=0&pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get the EQpreset

```
GET /fsapi/GET/netRemote.sys.audio.eqpreset?pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 82
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>0</u8></value>
</fsapiResponse>
```

'Get Eqloudness

```
GET /fsapi/GET/netRemote.sys.audio.eqloudness?pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 82
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>1</u8></value>
</fsapiResponse>
```

➔ Active

'Get bass level

```
GET /fsapi/GET/netRemote.sys.audio.eqcustom.param0?pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s16>2</s16></value>
</fsapiResponse>
```

➔ bass level: 2

'Get treble level

```
GET /fsapi/GET/netRemote.sys.audio.eqcustom.param1?pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s16>5</s16></value>
</fsapiResponse>
```

➔ treble level: 5

9.3 Example 3: How to select FM radio and change the channel

'Set system mode: FM radio

```
GET /fsapi/SET/netRemote.sys.mode?value=2&pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 56

<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get notifies

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 296

<fsapiResponse>
<status>FS_OK</status>
<notify node="netremote.sys.mode"><value><u32>2</u32></value>
</notify>
<notify node="netremote.play.status"><value><u8>2</u8></value>
</notify>
<notify node="netremote.play.info.name"><value><c8_array>RADIO 2
</c8_array></value>
</notify>
</fsapiResponse>
```

'Get Volume level

```
GET /fsapi/GET/netRemote.sys.audio.volume?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 82

<fsapiResponse>
<status>FS_OK</status>
<value><u8>5</u8></value>
</fsapiResponse>
```

➔ volume: 5

'Get info name

```
GET /fsapi/GET/netRemote.play.info.name?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 101

<fsapiResponse>
<status>FS_OK</status>
<value><c8_array>RADIO 2 </c8_array></value>
</fsapiResponse>
```

'RDS information

```
GET /fsapi/GET/netRemote.play.info.text?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 166
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><c8_array>De Madammen - 'Feel good'-programma met Leki,
Anja en Catherine</c8_array></value>
</fsapiResponse>
```

'Scan for the next available radio

```
GET /fsapi/SET/netRemote.play.control?value=3&pin=1234&sid=1033835912
HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get notifies

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 152
```

```
<fsapiResponse>
<status>FS_OK</status>
<notify
node="netremote.play.info.name"><value><c8_array>102.90MHz</c8_array></valu
e>
</notify>
</fsapiResponse>
```

'Get notifies

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 151
```

```
<fsapiResponse>
<status>FS_OK</status>
<notify
node="netremote.play.info.name"><value><c8_array>NOSTLGIE</c8_array></value
>
</notify>
</fsapiResponse>
```

'Get notifies

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 61
```

```
<fsapiResponse>
<status>FS_TIMEOUT</status>
</fsapiResponse>
```

➔ No new information

'Get play.status

```
GET /fsapi/GET/netRemote.play.status?&pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 82
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><u8>2</u8></value>
</fsapiResponse>
```

➔ Unit has finished scanning

'Get info name

```
GET /fsapi/GET/netRemote.play.info.name?pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 101
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><c8_array>NOSTLGIE</c8_array></value>
</fsapiResponse>
```

9.4 Example 4: How to select Ethernet radio

'Set system mode: Ethernet radio

```
GET /fsapi/SET/netRemote.sys.mode?value=0&pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 56

<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.state

```
GET /fsapi/GET/netRemote.nav.state?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 82

<fsapiResponse>
<status>FS_OK</status>
<value><u8>0</u8></value>
</fsapiResponse>
```

→ Disable

'Set nav.state: enable

```
GET /fsapi/SET/netRemote.nav.state?value=1&pin=1234&sid=1033835912 HTTP/1.0
200 OK
Content-Type: text/xml
Content-Length: 56

<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get notifies

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 519
```

```
<fsapiResponse>
<status>FS_OK</status>
<notify node="netremote.sys.mode"><value><u32>0</u32></value>
</notify>
<notify node="netremote.play.info.name"><value><c8_array>RePlayScape -
Ambient</c8_array></value>
</notify>
<notify node="netremote.play.status"><value><u8>2</u8></value>
</notify>
<notify node="netremote.play.info.text"><value><c8_array>SUSUMU YOKOTA
+ROTHKO - Reflections and Shadows (o)</c8_array></value>
</notify>
<notify node="netremote.nav.status"><value><u8>1</u8></value>
</notify>
</fsapiResponse>
```

'Get nav.numitems

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>6</s32></value>
</fsapiResponse>
```

➔ 6 items available

'Get nav.list

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=25&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
```

Content-Type: text/xml

Content-Length: 1042

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>My Favourites</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>Local Belgium</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="2">
<field name="name"><c8_array>Stations</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="3">
<field name="name"><c8_array>Podcasts</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="4">
<field name="name"><c8_array>My Added Stations</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="5">
<field name="name"><c8_array>Help</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
</listend/>
</fsapiResponse>
```


'Open map: Stations

```
GET /fsapi/SET/netRemote.nav.action.navigate?value=2&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.numitems

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 84
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>5</s32></value>
</fsapiResponse>
```

➔ 5 items available

'Get nav.list

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=25&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 883
```

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>Location</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>Genre</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="2">
<field name="name"><c8_array>Search stations</c8_array></field>
<field name="type"><u8>2</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="3">
<field name="name"><c8_array>Popular stations</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="4">
<field name="name"><c8_array>New stations</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<listend/>
</fsapiResponse>
```

'Open map: "Genre"'

```
GET /fsapi/SET/netRemote.nav.action.navigate?value=1&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.numitems'

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 85
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>54</s32></value>           → 54 items available
</fsapiResponse>
```

'Get nav.list (first 3 radios)'

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=3&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 538
```

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>Alternative</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>Ambient</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="2">
<field name="name"><c8_array>Big Band</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
</fsapiResponse>
```

'Select the second genre: "Ambient"'

```
GET /fsapi/SET/netRemote.nav.action.navigate?value=1&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.numitems'

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 85
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>42</s32></value>           → 42 items available
</fsapiResponse>
```

'Get nav.list (first 3 maps)'

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=3&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 553
```

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>All Stations</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>Highlighted Stations</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
<item key="2">
<field name="name"><c8_array>Argentina</c8_array></field>
<field name="type"><u8>0</u8></field>
<field name="subtype"><u8>0</u8></field>

</item>
</fsapiResponse>
```

'Select the first map: "All stations"'

```
GET /fsapi/SET/netRemote.nav.action.navigate?value=0&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get nav.numitems'

```
GET /fsapi/GET/netRemote.nav.numitems?pin=1234&sid=1033835912 HTTP/1.0 200
OK
Content-Type: text/xml
Content-Length: 86
```

```
<fsapiResponse>
<status>FS_OK</status>
<value><s32>313</s32></value>           → 313 items available
</fsapiResponse>
```

'Get nav.list (first 3 stations)'

```
GET /fsapi/LIST_GET_NEXT/netRemote.nav.list/-1?maxItems=3&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 579
```

```
<fsapiResponse>
<status>FS_OK</status>
<item key="0">
<field name="name"><c8_array>1.fm Brazilian Birds Radio</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>1</u8></field>

</item>
<item key="1">
<field name="name"><c8_array>1.fm Chillout Lounge</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>1</u8></field>

</item>
<item key="2">
<field name="name"><c8_array>1.fm Destination: SPA</c8_array></field>
<field name="type"><u8>1</u8></field>
<field name="subtype"><u8>1</u8></field>

</item>
</fsapiResponse>
```

'Select the first radio: "1.fm Brazilian Birds Radio"'

```
GET /fsapi/SET/netRemote.nav.action.selectItem?value=0&pin=1234
&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 56
```

```
<fsapiResponse>
<status>FS_OK</status>
</fsapiResponse>
```

'Get notifies'

```
GET /fsapi/GET_NOTIFIES?pin=1234&sid=1033835912 HTTP/1.0 200 OK
Content-Type: text/xml
Content-Length: 361
```

```
<fsapiResponse>
<status>FS_OK</status>
<notify node="netremote.play.info.name"><value><c8_array>1.fm Brazilian
Birds Radio</c8_array></value>
</notify>
<notify node="netremote.play.info.text"><value><c8_array>BRAZILIAN BIRDS -
RAINFOREST (I)</c8_array></value>
</notify>
<notify node="netremote.play.status"><value><u8>2</u8></value>
</notify>
</fsapiResponse>
```