x1814 - Change Host

Version 0

Change Host

- [0] **getHostInfo**() → nbHost, currHost, flags
- [1] **setCurrentHost**(currHost)
- [2] **getCookies**() → cookie
- [3] **setCookie**(host, cookie)

Overview

In case of a device having several RF channels, this feature allows to select explicitly a particular channel / host.

Every channel is connectable to a different host whatever the RF protocol (Unifying, BLE, Bolt ...)

Functions and Events

[0] getHostInfo() → nbHost, currHost, flags

Get info on the host implementation

Parameters

none

Returns

nbHost

The number of hosts / Rf channels

currHost

The current host index, starting from 0. If we have nbHost, the current host can be 0...nbHost - 1

flags

bit 0 - enhanced host switch on/off \rightarrow Currently the default value of "flags" is "0" (i.e inactive) FW tries to connect the specified host

If no success, it will try to connect any host having cookie!= 0 and starting from the lowest host (the original host and the specified host are excluded - so for Cala / Talise remains one possibility)

If no success, FW reconnects the original host

Table 1. getHostInfo() response packet format

byte \ bit	7	6	5	4	3	2	1	0	
0	nbHost								
1	currHost								
2	flags								
	reserved	ehs on/off							
315	reserved								

Errors

none

[1] setCurrentHost(currHost)

Set the current host; no return, since, if successful, the device will most probably reset

Parameters

currHost

Index of the new host to select

Table 2. setCurrentHost() request packet format

byte \ bit	7	6	5	4	3	2	1	0
0	currHost							
115	reserved							

Returns

none

Errors

none

[2] getCookies() → cookie

Get the data byte for each host

Parameters

none

Returns

Cookie

For every host, the SW has the possibility to read / write a personal data byte ("Cookie"), that will be stored permanently in the device's non volatile memory.

It can be used for example to determine if a given host has a specific SW installed

NOTE

SW can write any value, however:

- 1) The cookies are all zero for an OOB device
- 2) When a new host is connected, **FW** clears (= 0) the corresponding cookie

Table 3. getCookies() response packet format

byte \ bit	7	6	5	4	3	2	1	0		
0	cookie[0]									
1		cookie[1]								
•••										
cookie[n bHost - 1]	cookie[nbHost - 1]									
nbHost1	reserved									

Errors

none

[3] setCookie(host, cookie)

Write the specified cookie

Parameters

host

Channel / host index

cookie

The value to write

Table 4. setCookie() request packet format

byte \ bit	7	6	5	4	3	2	1	0	
0	host								
1	cookie								
215	reserved								

Returns

none

Errors

InvalidArgument (2) Invalid host index

ChangeLog

• Version 0: Initial version