

How to change Frequency Hopping Table

For RED Utility_v4.0.0 or later



Revision History

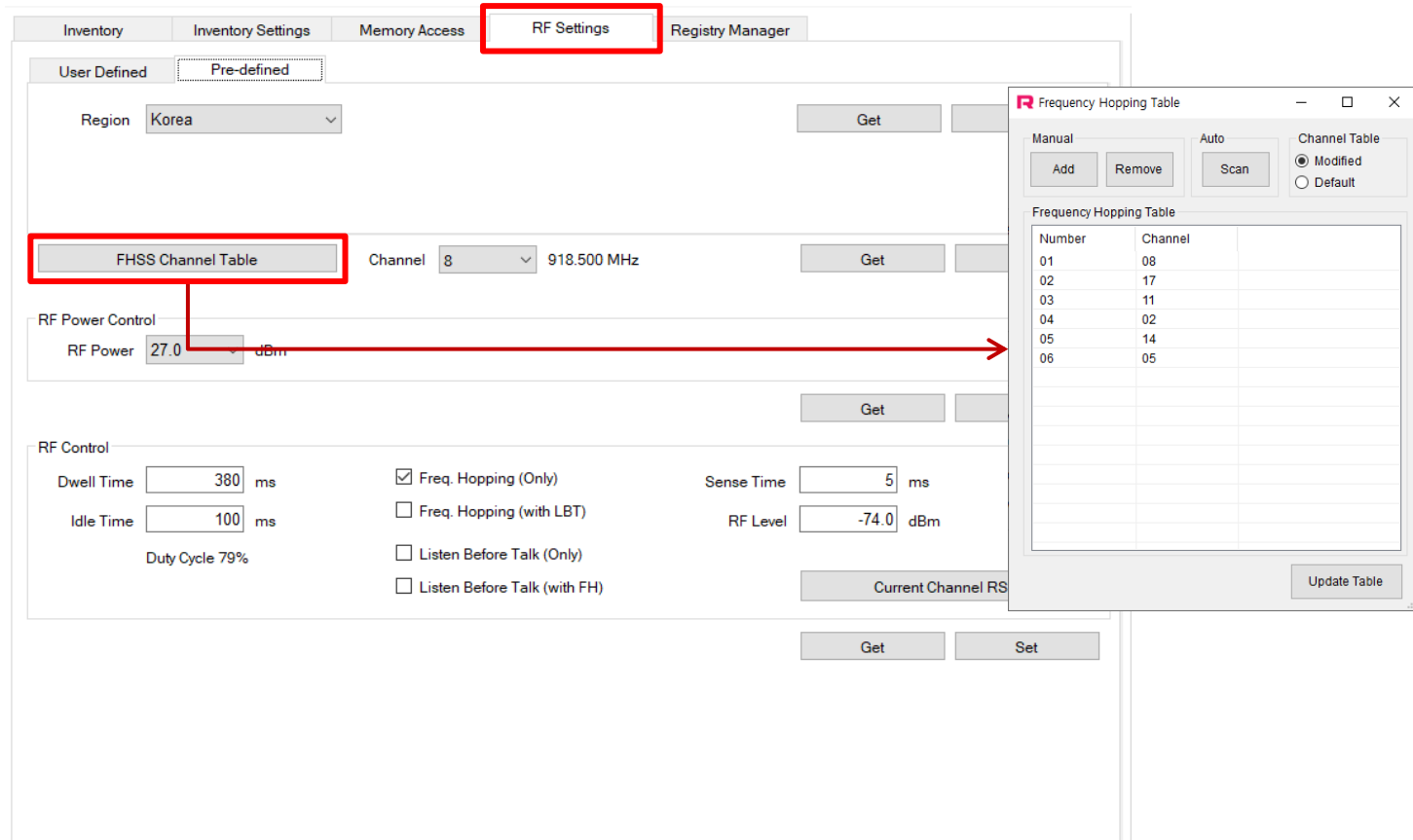
Version	Date	Description
01	2013-06-27	Initial release
02	2016-05-19	Added configuration of smart hopping
03	2020-09-09	Updated contents

Document Summary

- This document contains how to change Frequency Hopping Table and configures smart hopping
- User can change frequency hopping channel numbers, hopping order using these document

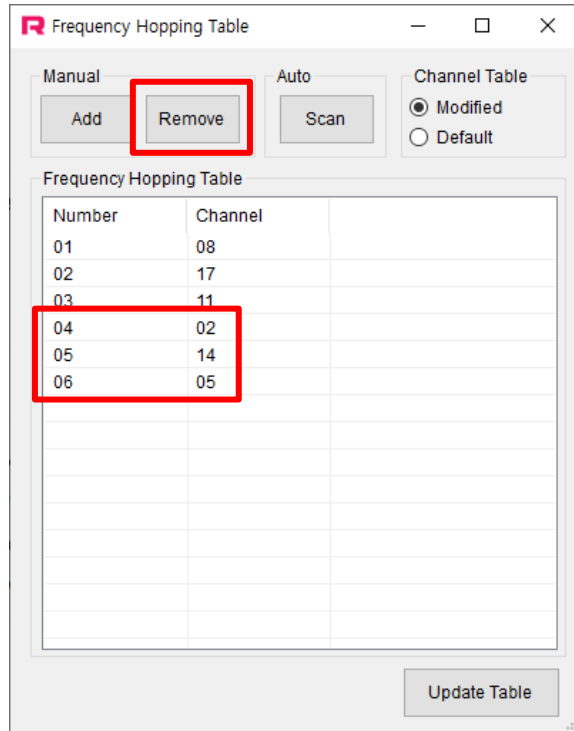
Set Frequency Hopping Table (1/4)

- Open Hopping Table
 - Click 'FHSS Channel Table' button



Set Frequency Hopping Table (2/4)

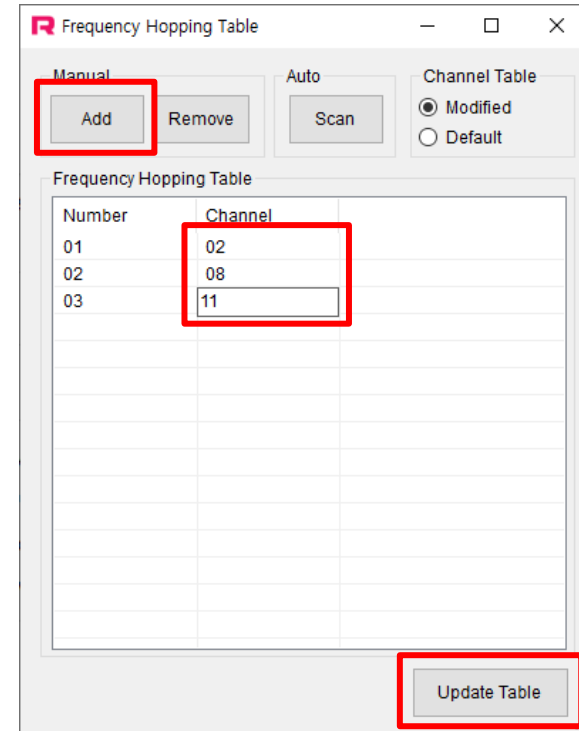
- Change Hopping Table



The screenshot shows the 'Frequency Hopping Table' window. The 'Manual' tab is selected. The 'Remove' button is highlighted with a red box. The 'Channel Table' section has the 'Modified' radio button selected. The table below has the following data:

Number	Channel
01	08
02	17
03	11
04	02
05	14
06	05

The 'Update Table' button is at the bottom right.



The screenshot shows the 'Frequency Hopping Table' window. The 'Manual' tab is selected. The 'Add' button is highlighted with a red box. The 'Channel Table' section has the 'Modified' radio button selected. The table below has the following data:

Number	Channel
01	02
02	08
03	11

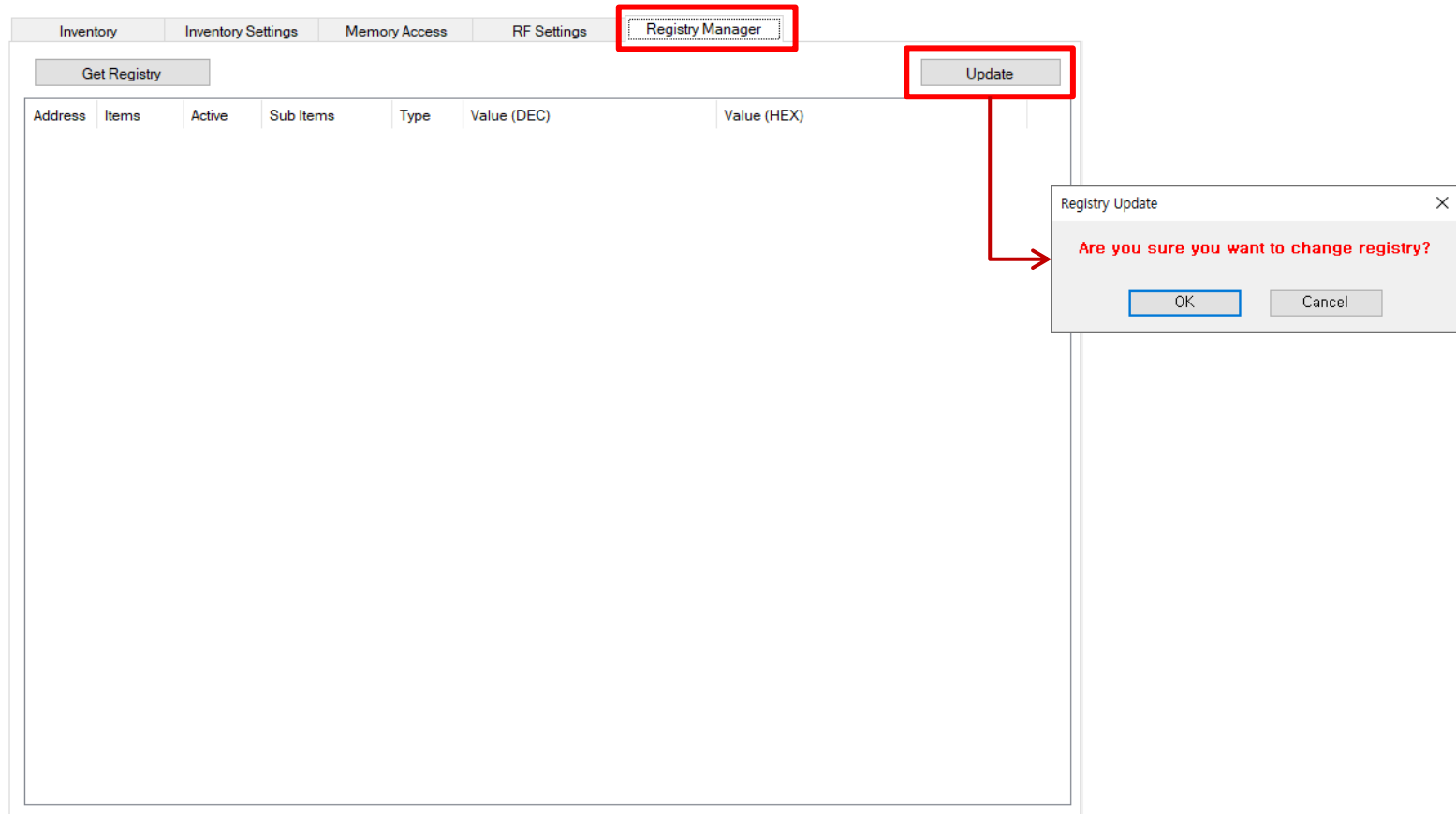
The 'Update Table' button is at the bottom right and is also highlighted with a red box.

1. Select the target channel list
2. Click "Remove" to remove all or in part of current channel list

1. Click "Add" as needed
2. Write channel number
3. Click "Update Table"

Set Frequency Hopping Table (3/4)

- Update Registry
 - Click 'Update' and 'OK' button

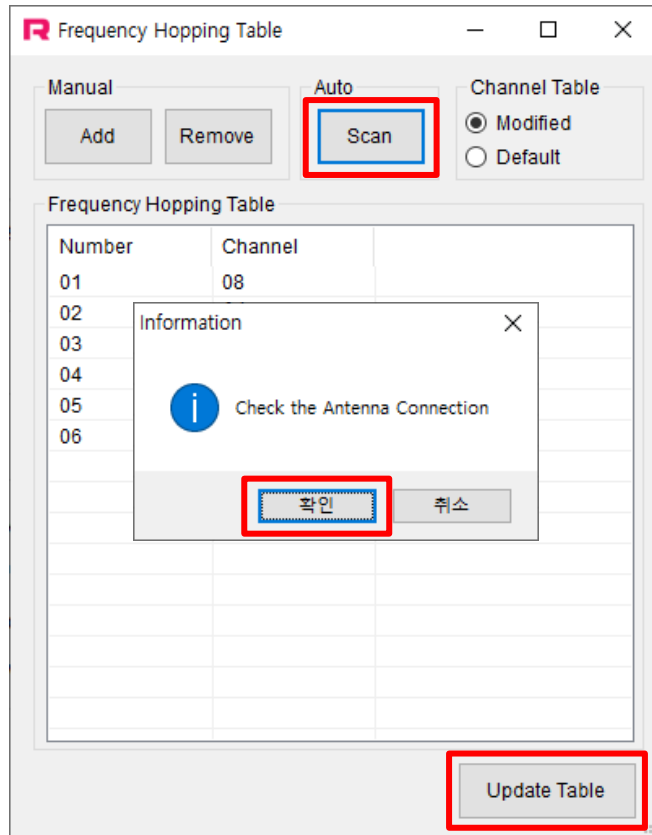


- Confirm Hopping Table
 - Click 'FHSS Channel Table' button and check new channel list

[illegible]

Smart Hopping Table

- Smart Hopping make you find good channel automatically instead of manual setting



1. Search good channel



2. Wait for the finish response



3. Set frequency hopping mode



4. Update registry

Smart Hopping Table

- Example when using as RCP

1. Search good channel

- Command : Set optimum Frequency Hopping Table
- Packet : BB 00 E4 00 00 7E

2. Wait for Finish Response of the “Set optimum Frequency Hopping Table”

- Response
- Packet : BB 01 E4 00 01 01 7E (Finish Response)

3. Set Frequency Hopping Mode with Smart Hopping Mode

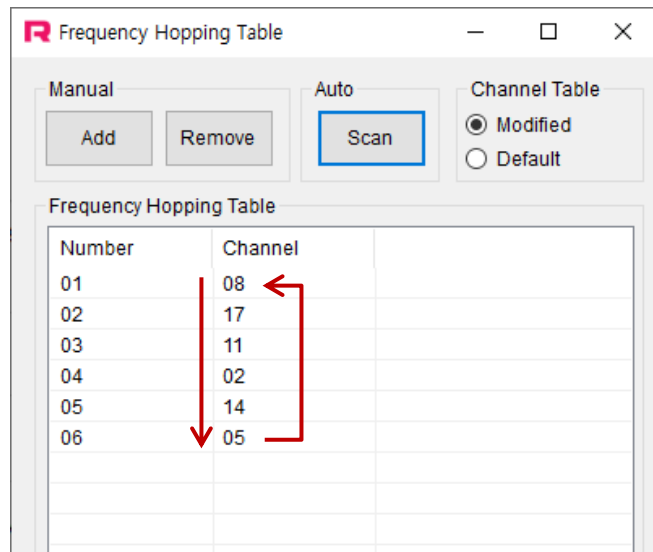
- Command : Set Frequency Hopping Mode
- Packet : BB 00 E6 00 01 01 7E

4. Registry Update

- Command : Update Registry
- Packet : BB 00 D2 00 01 01 7E

Notice

- Maximum length of Frequency Table is 50
 - Available channel number is from 1 to 50
- Frequency hopping is executed in order listed



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