VC7300 White List Function

Reported
FAE Dept.

Date
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Agenda

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- Setup the SDK configuration
- Add the whitelist
- Display the whitelist data
- Delete the whitelist
- Save the whitelist to Flash
- Check the whitelist in Flash
- Example
- API for whitelist

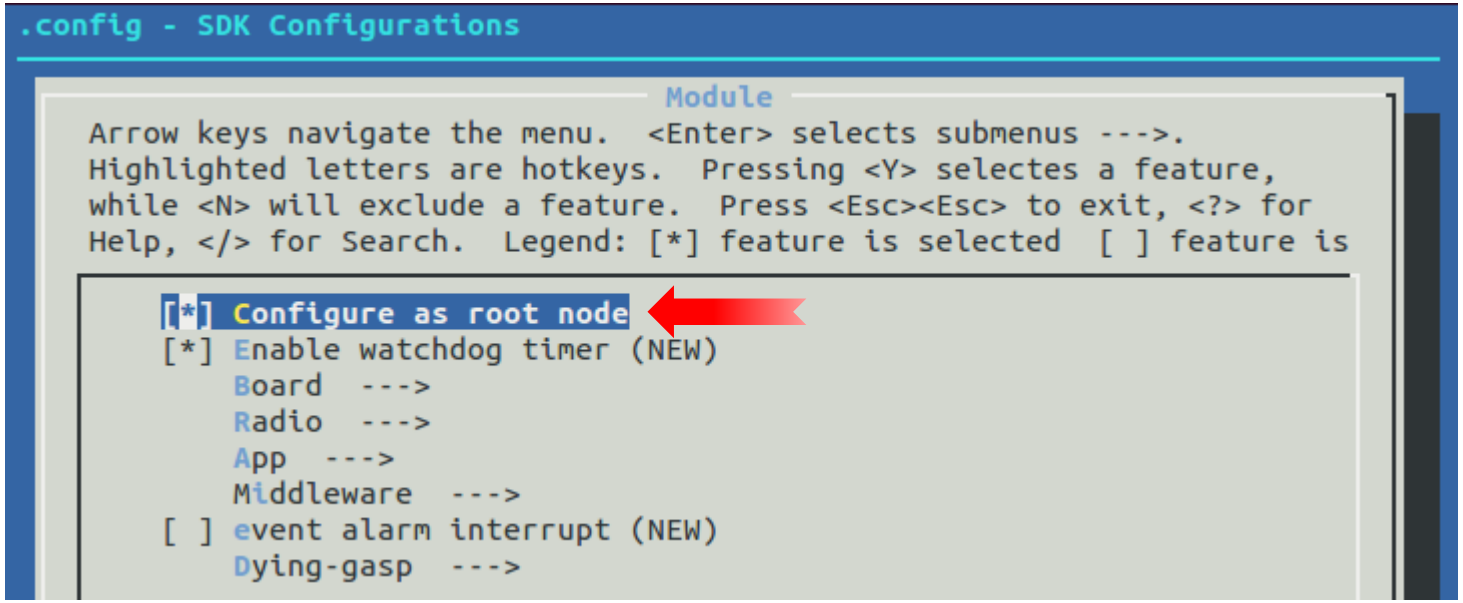
Setup the SDK configuration

Set up the SDK configuration from menu.

The whitelist function should set SDK configuration in Root setting as the steps below:

1. Select the root setting

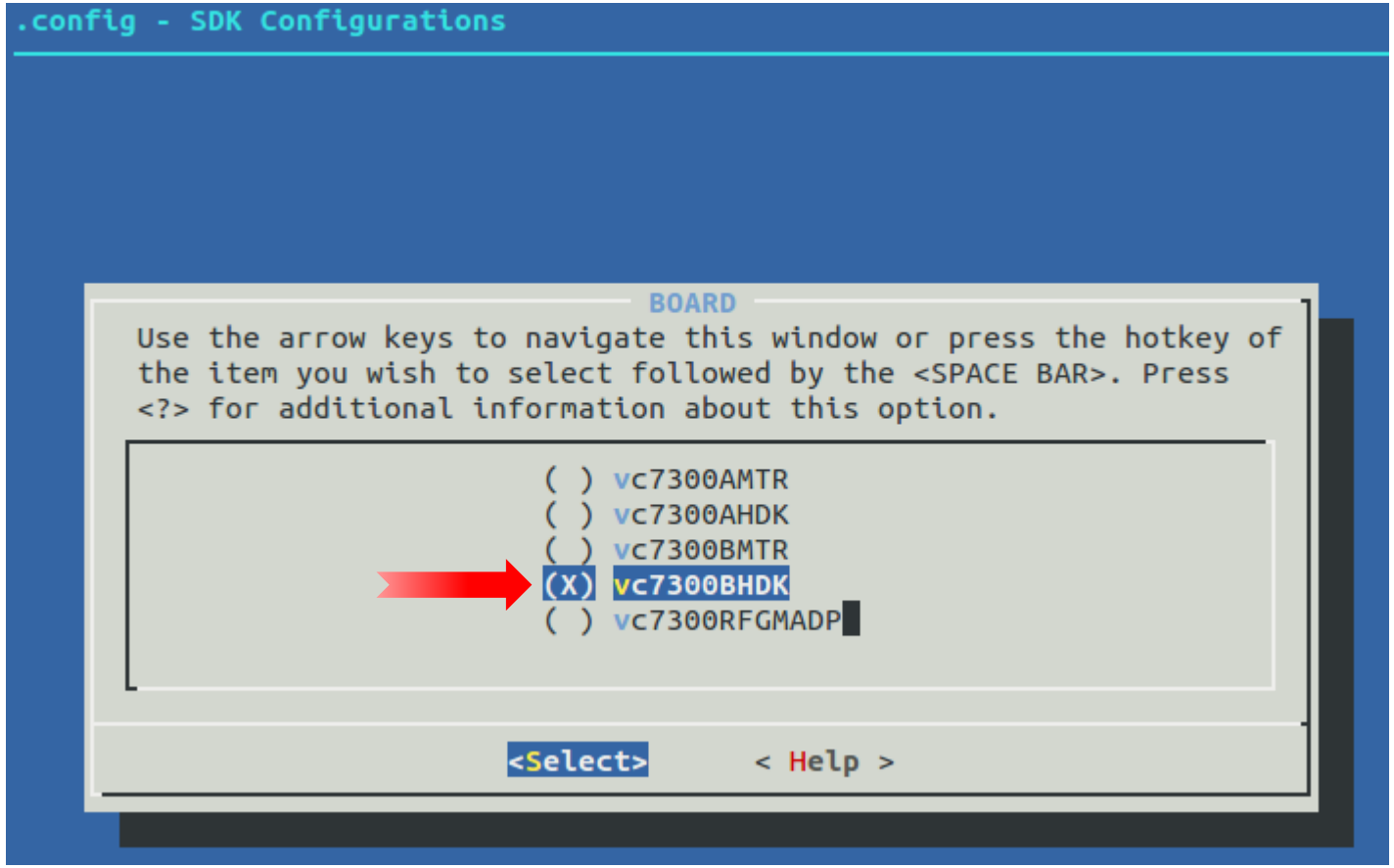
   Module → Configure as root node



Setup the SDK configuration

2. Select the SDK board

   Module → Board → vc7300BHDK

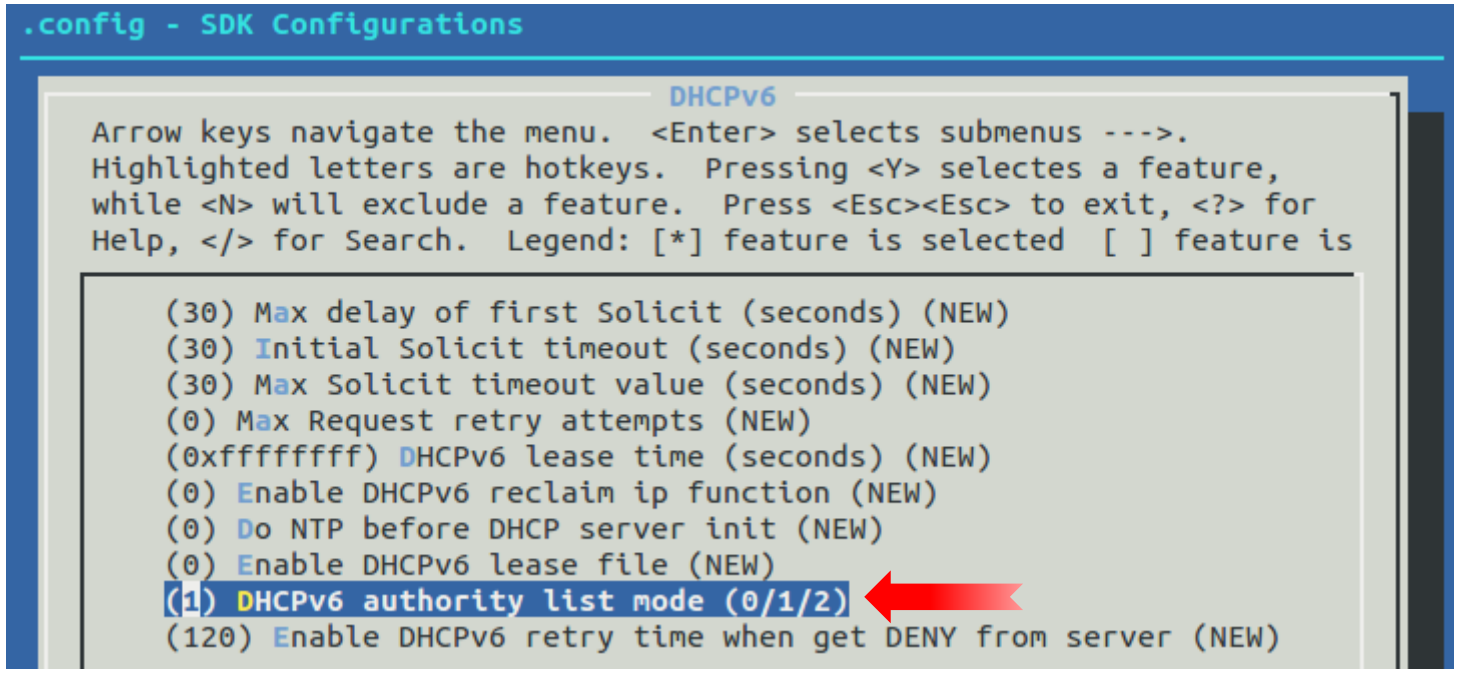


Setup the SDK configuration

3. Select the whitelist function

   Parameter → Networking → DHCPv6 → DHCPv6 authority list mode (0/1/2)

   Change the value from 0 to 1 (0: Disable 1: whitelist 2: blacklist)



Add the whitelist

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- Command : **rpl whitelist add xxxxx**

  xxxxx : WiSUN node mac address

- Example :

  To add the 00:18:23:00:00:00:09:c4 in the whitelist

```
vc#
vc# rpl whitelist add 00:18:23:00:00:00:09:c4
```

Display the whitelist data

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- Command : **rpl whitelist dump**

  Display the whitelist which had been added in SRAM

- Example :

```
vc# rpl whitelist dump
[0001] ff:ff:ff:ff:f4:5a:0c:83
[0002] ff:ff:ff:ff:f4:5a:0c:5a
```

Delete the whitelist

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- Command : **rpl whitelist delete xxxxx**

  xxxxx : WiSUN node mac address

- Example :

  To delete the 00:18:23:00:00:00:09:c4 from the whitelist

```
vc#
vc# rpl whitelist delete 00:18:23:00:00:00:09:c4
```

Save the whitelist to Flash

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- Command : **rpl whitelist export**

  Save the whitelist to keep in Flash memory

- Example :

```
vc#
vc# rpl whitelist export
```

Check the whitelist in Flash

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- Command : **list**

  Each list record will use 8 bytes space

- Example :

```
vc#
vc# list
```

Example

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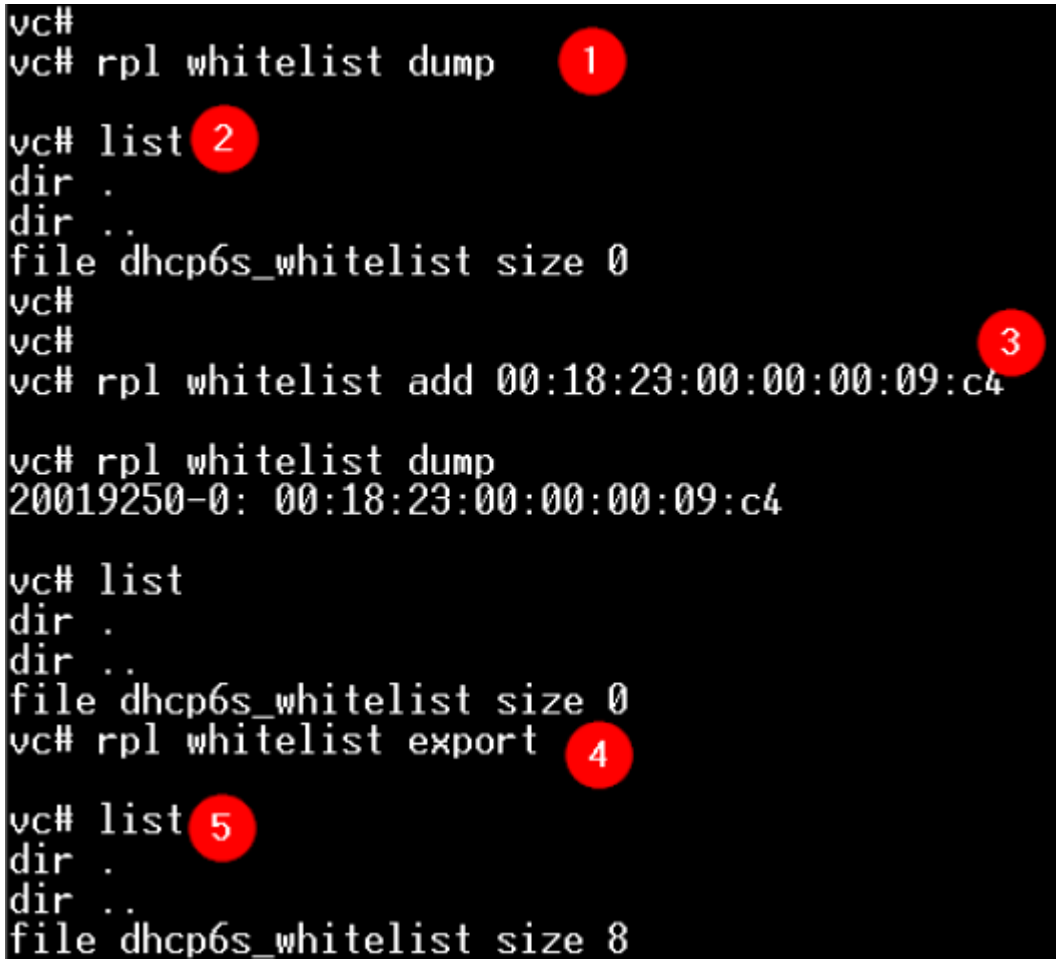
1. When no whitelist data, check the SRAM space, you will find no record information.

2. Use **list** command, you will find the whitelist size is 0 in the Flash.

3. To add a whitelist, then dump the whitelist information, but you will find the whitelist size is still 0 in the Flash, because it does not been kept in the Flash.

4. With **rpl whitelist export** command, to save data to the Flash.

5. Check whitelist again, you will find the whitelist size is 8.



API for whitelist

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API List:

DHCP_CONFIG.server_whitelist

dhcp6s_check_whitelist(uip_lladdr *lladdr)

return: **1** the uip_lladdr in whitelist ; **0** , the uip_lladdr note in whitelist

dhcp6s_import_whitelist_from_file( ) //remove record from file

return: **0** normal ; -1 error or the unsaved size

dhcp6s_export_whitelist_to_file() //save record to file

return: the file error information

dhcp6s_add_whitelist()

dhcp6s_delete_whitelist()

dhcp6s_dump_whitelist()

Thank You!