

Please tell me about the configuration of ESP IDF V5.0 BLE MESH

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Please tell me about the configuration of ESP IDF V5.0 BLE MESH (#p114273)

by tanguirong » Sun May 21, 2023 2:15 am

[/posting.php?mode=quote&f=25&p=114273&sid=53c96e6e](#)

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

Please tell me, after I use [the ble mesh provisioner](#) example to configure the onoff client network, I cannot successfully send messages. The error message is: BLE_MESH: Model not bound to AppKey 0x0001. When I use the mobile APP EspBleMesh or nRF Mesh to configure the network, I can send messages normally. Yes, what is the reason for this? The ESP32 development board I use uses the official example without changing a word. After the mobile phone is configured and the GPIO 0 button is pressed, the message can be sent normally and successfully, and the target device can also receive it successfully. The same onoff client is configured using provisioner. After that, when I press the button, an error will be reported. Can anyone please help me with the answer? I would be very grateful!

Re: Please tell me about the configuration of ESP IDF V5.0 BLE MESH (#p114374)

by ESP_@In Shoyoko » Tue May 23, 2023 9:36 am

[/posting.php?mode=quote&f=25&p=114374&sid=53c96e6e](#)

Posts: 132

Joined: Thu Nov 15, 2018 2:06 am

CODE: [SELECT ALL \(#\)](#)

```
switch (opcode) {
    case ESP_BLE_MESH_MODEL_OP_APP_KEY_ADD: {
        esp_ble_mesh_cfg_client_set_state_t set_state = {0};
        example_ble_mesh_set_msg_common(&common, node, config_client.model, ESP_BLE_MESH_MODEL_OP_MODEL_APP_BIND);
        set_state.model_app_bind.element_addr = node->unicast;
        set_state.model_app_bind.model_app_idx = prov_key.app_idx;
        set_state.model_app_bind.model_id = ESP_BLE_MESH_MODEL_ID_GEN_ONOFF_SRV;
        set_state.model_app_bind.company_id = ESP_BLE_MESH_CID_NVAL;
        err = esp_ble_mesh_config_client_set_state(&common, &set_state);
        if (err) {
            ESP_LOGE(TAG, "%s: Config Model App Bind failed", __func__);
            return;
        }
    }
}
```

[The provisioner](#) only binds the onoff server App key, but does not bind the onoff client model; the onoff client example uses the onoff client model.

Re: Please tell me about the configuration of ESP IDF V5.0 BLE MESH (#p114377)

by tanguirong » Tue May 23, 2023 9:54 am

[/posting.php?mode=quote&f=25&p=114377&sid=53c96e6e](#)

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

Thanks for the answer. How should the client model bind appkey?

Re: Please tell me about the configuration of ESP IDF V5.0 BLE MESH (#p114378)

by tanguirong » Tue May 23, 2023 9:57 am

[/posting.php?mode=quote&f=25&p=114378&sid=53c96e6e](#)

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

ESP_@Inxiayaoyaoziwrote ([./memberlist.php?mode=viewprofile&u=8644&sid=53c96e6e0b811d0e4baf916b88337e95](#)): [1](#) ([./viewtopic.php?p=114374&sid=53c96e6e0b811d0e4baf916b88337e95#p114374](#))
Tue May 23, 2023 9:36 am

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The provisioner only binds the onoff server App key, but does not bind the onoff client model; the onoff client example uses the onoff client model.

Thanks for the answer. How should the client model bind appkey?

Re: Please tell me about the configuration of ESP IDF V5.0 **BLE MSEH** (#p114380)

✉ by tanguirong » Tue May 23, 2023 10:08 am

/posting.php?mode=quote&f=25&p=114380&sid=53c96e6e

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

“**ESP @Inxiaoaoziwrote** ([./memberlist.php?mode=viewprofile&u=8644&sid=53c96e6e0b811d0e4baf916b88337e95](#)): [1](#) ([./viewtopic.php?p=114374&sid=53c96e6e0b811d0e4baf916b88337e95#p114374](#))

Tue May 23, 2023 9:36 am

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Re: Please tell me about the configuration of ESP IDF V5.0 **BLE MSEH** (#p114382)

✉ by tanguirong » Tue May 23, 2023 10:28 am

/posting.php?mode=quote&f=25&p=114382&sid=53c96e6e

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

“**tanguirong** ([./memberlist.php?mode=viewprofile&u=29181&sid=53c96e6e0b811d0e4baf916b88337e95](#)): [1](#) ([./viewtopic.php?p=114380&sid=53c96e6e0b811d0e4baf916b88337e95#p114380](#))

Tue May 23, 2023 10:08 am

“**ESP @Inxiaoaoziwrote** ([./memberlist.php?mode=viewprofile&u=8644&sid=53c96e6e0b811d0e4baf916b88337e95](#)): [1](#) ([./viewtopic.php?p=114374&sid=53c96e6e0b811d0e4baf916b88337e95#p114374](#))

Tue May 23, 2023 9:36 am

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11/22/23, 11:16 PM

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I tried to get param->params->model->model_id and param->params->ctx.model->model_id, but found that they seemed wrong. The value of param->params->model->model_id does not matter whether it is client or not. Or sever, it is always 1, and param->params->ctx.model->model_id will Core 0 panic when printing it.

Re: Please tell me about the configuration of ESP IDF V5.0 BLE MSEH (#p114751)

by ESP_@In逍遙子 » Wed May 31, 2023 10:07 am

[/posting.php?mode=edit&t=33747&p=114751&sid=53c96e6e66](#)

Posts: 132

Joined: Thu Nov 15, 2018 2:06 am

“

How does the provisioner determine whether the current configuration is a client model or a server model?

You can obtain the composition data of the other party's device and then judge it from the model id.

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