

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

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

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



[tangguirong](#)
posting.php?mode=viewprofile&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 cilent 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 cilent 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 MSEH (#p114374)

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



[ESP_@In Shoyoko](#)
posting.php?mode=viewprofile&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 MSEH (#p114377)

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




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

Posts: 9
Joined: Wed Feb 08, 2023 4:23 am

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

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

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



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

Posts: 9
Joined: Wed Feb 08, 2023 4:23 am

ESP_@Inxiaoyaoziwrote (/memberlist.php?mode=viewprofile&u=8644&sid=53c96e6e0b811d0e4baf916b88337e951: t (/viewtopic.php?p=114374&sid=53c96e6e0b811d0e4baf916b88337e951#p114374)

Tue May 23, 2023 9:36 am

CODE: SELECT ALL (#)

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    set_state.model_app_bind.model_app_idx = prov_key.app_idx;
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        return;
    }
    break;
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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 tangguirong » Tue May 23, 2023 10:08 am

posting profile Tangguirong

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

ESP @Inxiaoyaozi wrote (/memberlist.php?mode=viewprofile&u=8644&sid=53c96e6e0b811d0e4baf916b88337e95): 1 (/viewtopic.php?p=114374&sid=53c96e6e0b811d0e4baf916b88337e95#p114374)

Tue May 23, 2023 9:36 am

CODE: SELECT ALL (#)

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case ESP_BLE_MESH_MODEL_OP_APP_KEY_ADD: {
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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.

I tried to change set_state.model_app_bind.model_id = ESP_BLE_MESH_MODEL_ID_GEN_ONOFF_SRV; to set_state.model_app_bind.model_id = ESP_BLE_MESH_MODEL_ID_GEN_ONOFF_CLI; and successfully bind the app key to the client model. I would like to ask how the provisioner determines whether the current configuration is a client model or a server model.

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

by tangguirong » Tue May 23, 2023 10:28 am

posting profile Tangguirong

Posts: 9

Joined: Wed Feb 08, 2023 4:23 am

tangguirong (/memberlist.php?mode=viewprofile&u=29181&sid=53c96e6e0b811d0e4baf916b88337e95) wrote: 1 (/viewtopic.php?p=114380&sid=53c96e6e0b811d0e4baf916b88337e95#p114380)

Tue May 23, 2023 10:08 am

ESP @Inxiaoyaozi wrote (/memberlist.php?mode=viewprofile&u=8644&sid=53c96e6e0b811d0e4baf916b88337e95): 1 (/viewtopic.php?p=114374&sid=53c96e6e0b811d0e4baf916b88337e95#p114374)

Tue May 23, 2023 9:36 am

CODE: SELECT ALL (#)

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switch (opcode) {
case ESP_BLE_MESH_MODEL_OP_APP_KEY_ADD: {
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    set_state.model_app_bind.element_addr = node->unicast;
    set_state.model_app_bind.model_app_idx = prov_key.app_idx;
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I tried to change set_state.model_app_bind.model_id = ESP_BLE_MESH_MODEL_ID_GEN_ONOFF_SRV; to set_state.model_app_bind.model_id = ESP_BLE_MESH_MODEL_ID_GEN_ONOFF_CLI; and successfully bind the app key to the client model. I would like to ask how the provisioner determines whether the current configuration is a client model or a server model.

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 cilent 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逍遥子 » Wed May 31, 2023 10:07 am

“

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

”

ESP_@In逍遥子

Posts: 132

Joined: Thu Nov 15, 2018 2:06 am

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

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