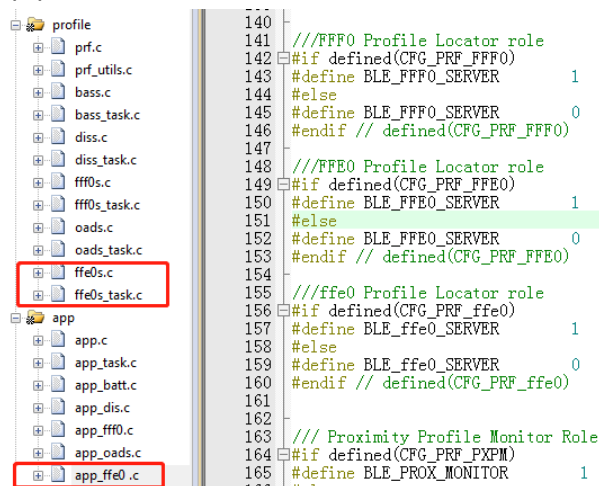
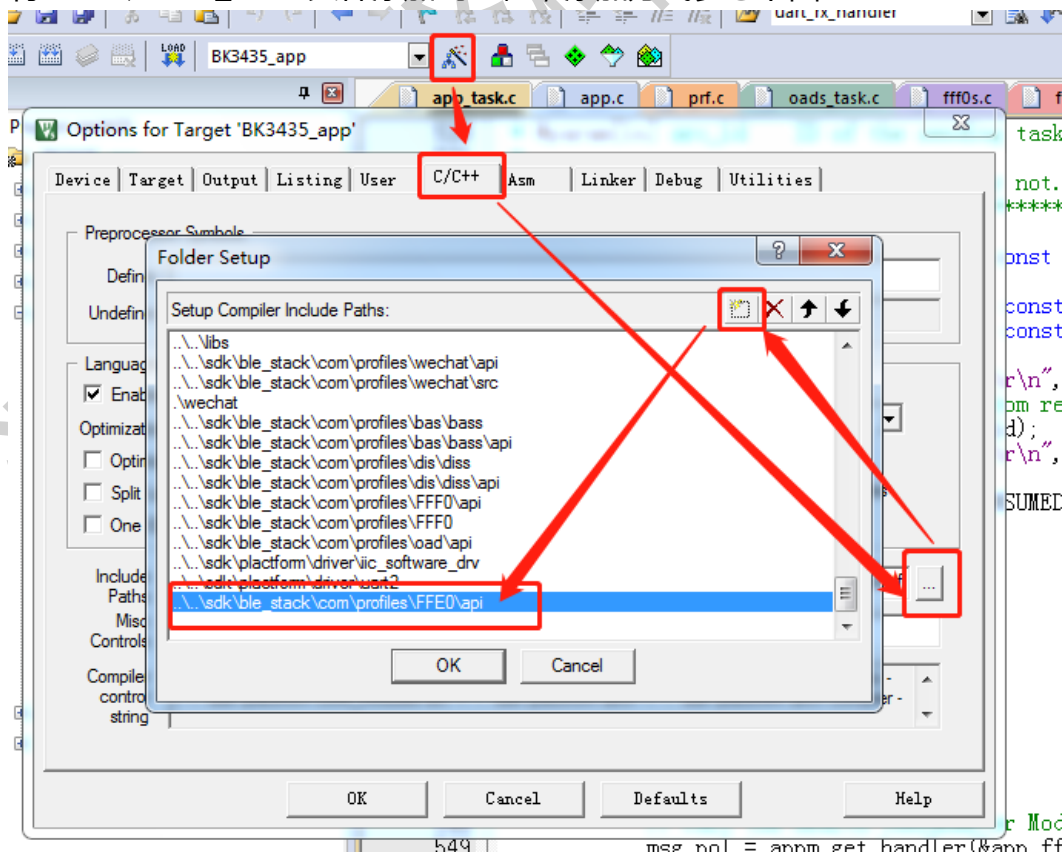


说明：该文档以添加ffe0服务为例，客户如果需要添加其他类型的服务可以参考说明进行添加。

1. 准备FFE0文件夹，FFE0文件夹下包含api：ffe0s.h、ffe0s_task.h和src：ffe0s.c、ffe0s_task.c。将FFE0文件夹复制到\sdk\ble_stack\com\profiles目录下。
2. 准备app_ffe0 .c、app_ffe0 .h文件，将两个文件复制到\projects\ble_app_gatt\app目录下。
3. 将ffe0s.c、ffe0s_task.c、app_ffe0.c文件添加到工程目录profile和app文件夹下，如下图。



4. 将ffe0s.h、ffe0s_task.h文件添加到工程，添加方式参考下图。



5. 在rwprf_config.h文件夹下添加服务的宏定义#define CFG_PRF_ffe0和

#define BLE_ffe0_SERVER 1, 宏名称客户需要根据自己添加的服务进行修改。

```
app_gatt\app) arch_main.c (projects\ble_app_gatt\app) rwprf_config.h (projects\...\config) × uart.
46: #define CFG_PRF_FFE0
47: #endif
48:
49: // <e> CFG_PRF_ffe0
50: // <i> ffe0 profile Locator Role
51: // </e>
52: #if ( 1 )
53: #define CFG_PRF_ffe0
54: #endif
55:

le_app_gatt\app) arch_main.c (projects\ble_app_gatt\app) rwprf_config.h (projects\...\config) × ui
152: #define BLE_ffe0_SERVER 0
153: #endif // defined(CFG_PRF_FFE0)
154:
155: ///ffe0 Profile Locator role
156: #if defined(CFG_PRF_ffe0)
157: #define BLE_ffe0_SERVER 1
158: #else
159: #define BLE_ffe0_SERVER 0
160: #endif // defined(CFG_PRF_ffe0)
161:
```

6. 在rwip_task.h文件的enum TASK_API_ID枚举下添加TASK_ID_ffe0S = 70,枚举成员, 如下图。

```
ble_app_gatt\app) rwip_task.h (sdk\ble_stack\com\rwip\api) × rwprf_config.h (projects\...\confi
127: TASK_ID_FFE0S = 70, // FFE0 Profile Server Task
128: TASK_ID_OADS = 71, // OADS Profile Server Task
129: TASK_ID_WECHAT = 72, //WECHAT profile Server Task
130: TASK_ID_ANCSC = 73, //Ancs Client
131: TASK_ID_FCC0S = 74, //FFC0 PROFILE SERVICE TASK
132: TASK_ID_FFF0S = 75, //FFF0 PROFILE SERVICE TASK
133: TASK_ID_ffe0S = 76, // ffe0 Profile Server Task
134:
135: /* 240 -> 241 reserved for Audio Mode 0 */
136: TASK_ID_AM0 = 240, // BLE Audio Mode 0 Task
```

7. 在prf.c文件的prf_itf_get函数下添加prf_cbs = ffe0s_prf_itf_get()函数和在prf.c文件外部声明ffe0s_prf_itf_get()函数。

```
le_app_gatt\app) prf.c (sdk\ble_stack\com\prf) × rwip_task.h (sdk\ble_stack\com\rwip\api) rwprf_config.h (proj
319: prf_cbs = ffe0s_prf_itf_get();
320: break;
321: #endif // (BLE_FFE0_SERVER)
322:
323: #if (BLE_ffe0_SERVER)
324: case TASK_ID_ffe0S:
325: prf_cbs = ffe0s_prf_itf_get();
326: break;
327: #endif // (BLE_ffe0_SERVER)
328:
329: #if (BLE_FCC0_SERVER)
50: #if (BLE_ffe0_SERVER)
51: extern const struct prf_task_cbs* ffe0s_prf_itf_get(void);
52: #endif // (BLE_ffe0_SERVER)
```

8. 在app_task.c文件的appm_msg_handler函数下添加

msg_pol = appm_get_handler(&app_ffe0_table_handler, msgid, param, src_id);



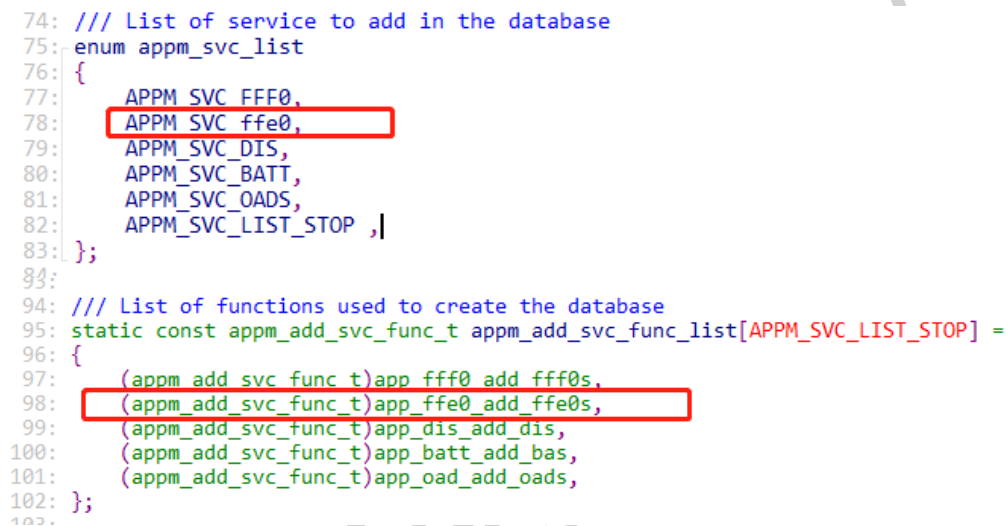
```

540: // else drop the message
541: } break;
542: case (TASK_ID_GATTC):
543: {
544: // Service Changed - Drop
545: } break;
546: case (TASK_ID_ffe0S):
547: {
548: // Call the Health Thermometer Module
549: msg_pol = appm_get_handler(&app_ffe0_table_handler, msgid, param, src_id);
550: } break;
551: case (TASK_ID_FFF0S):
552: {

```

9. 在app.c文件的enum appm_svc_list的枚举类型添加APPM_SVC_ffe0枚举成员和在

appm_add_svc_func_list[]数组里面添加(appm_add_svc_func_t)app_ffe0_add_ffe0s,

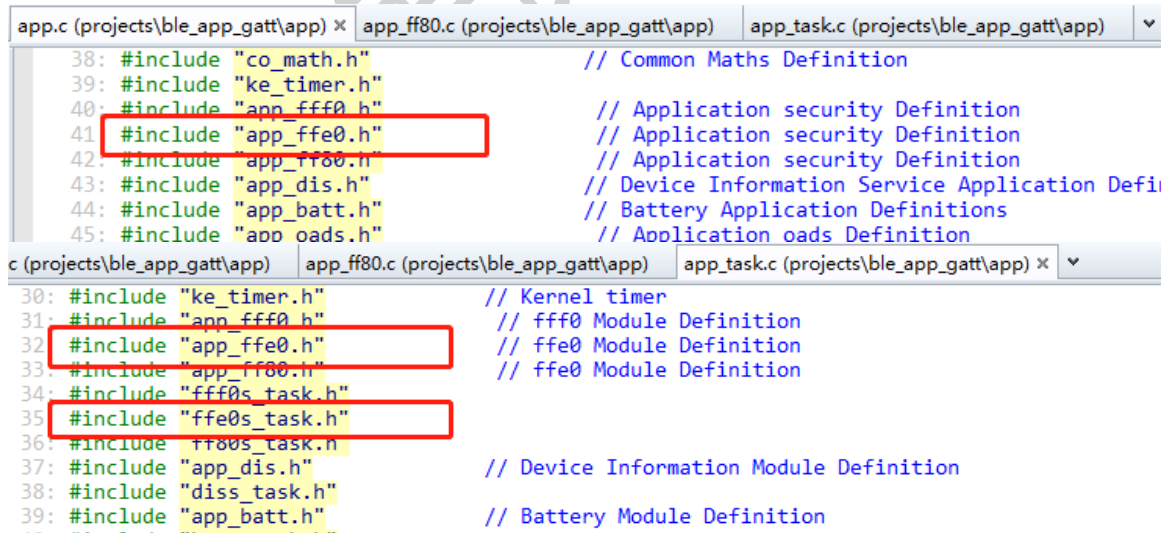


```

74: /// List of service to add in the database
75: enum appm_svc_list
76: {
77: APPM_SVC_FFF0,
78: APPM_SVC_ffe0,
79: APPM_SVC_DIS,
80: APPM_SVC_BATT,
81: APPM_SVC_OADS,
82: APPM_SVC_LIST_STOP ,|
83: };
84:
94: /// List of functions used to create the database
95: static const appm_add_svc_func_t appm_add_svc_func_list[APPM_SVC_LIST_STOP] =
96: {
97: (appm_add_svc_func_t)app_fff0_add_fff0s,
98: (appm_add_svc_func_t)app_ffe0_add_ffe0s,
99: (appm_add_svc_func_t)app_dis_add_dis,
100: (appm_add_svc_func_t)app_batt_add_bas,
101: (appm_add_svc_func_t)app_oadd_add_oadd,
102: };

```

10. 在app.c文件和app_task.c文件下添加头文件



app.c (projects\ble_app_gatt\app) × app_ff80.c (projects\ble_app_gatt\app) app_task.c (projects\ble_app_gatt\app) ▾

```

38: #include "co_math.h" // Common Maths Definition
39: #include "ke_timer.h"
40: #include "app_fff0.h" // Application security Definition
41: #include "app_ffe0.h" // Application security Definition
42: #include "app_ff80.h" // Application security Definition
43: #include "app_dis.h" // Device Information Service Application Defi
44: #include "app_batt.h" // Battery Application Definitions
45: #include "app_oadd.h" // Application oadd Definition

```

c (projects\ble_app_gatt\app) app_ff80.c (projects\ble_app_gatt\app) app_task.c (projects\ble_app_gatt\app) × ▾

```

30: #include "ke_timer.h" // Kernel timer
31: #include "app_fff0.h" // fff0 Module Definition
32: #include "app_ffe0.h" // ffe0 Module Definition
33: #include "app_ff80.h" // ffe0 Module Definition
34: #include "fff0s_task.h"
35: #include "ffe0s_task.h"
36: #include "ff80s_task.h"
37: #include "app_dis.h" // Device Information Module Definition
38: #include "diss_task.h"
39: #include "app_batt.h" // Battery Module Definition

```