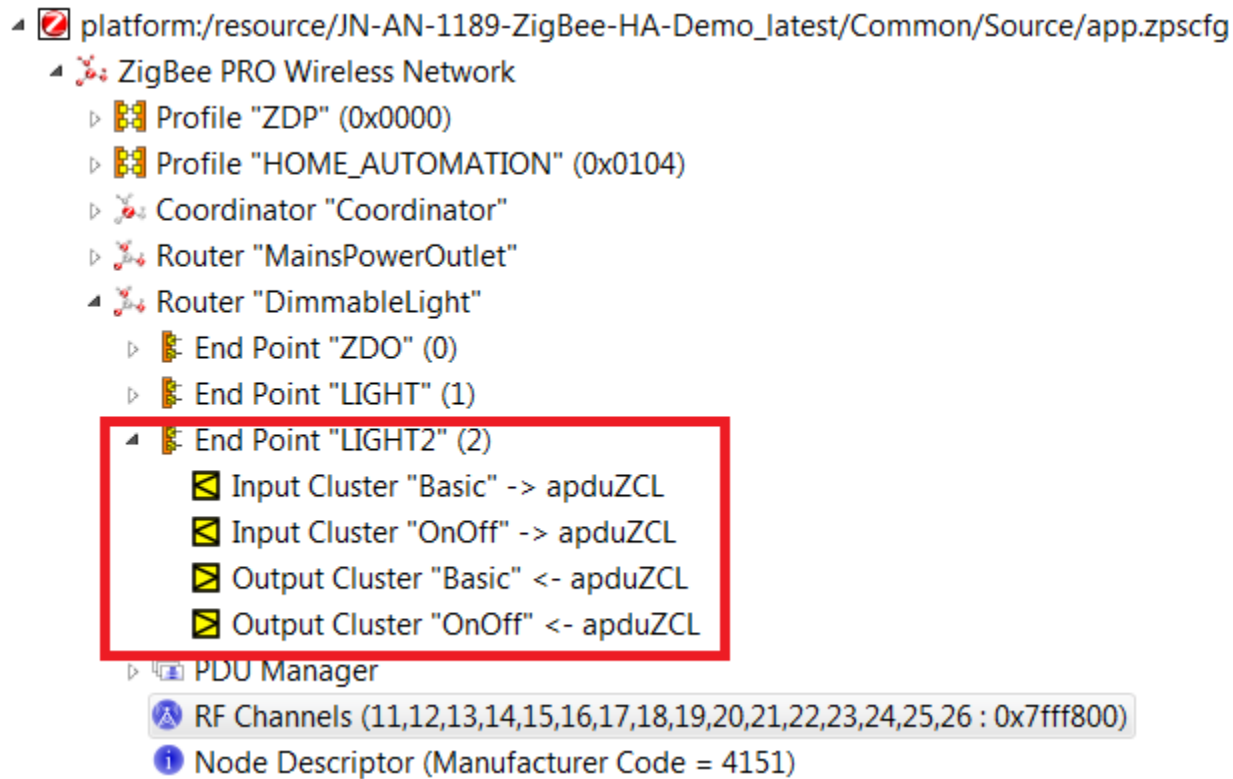


Add multiple endpoint 1

- ▶ Add new endpoint and its input/output cluster in zpscfig, a new endpoint name **DIMMABLELIGHT_LIGHT2_ENDPOINT** will be generated automatically in Zps_gen.h



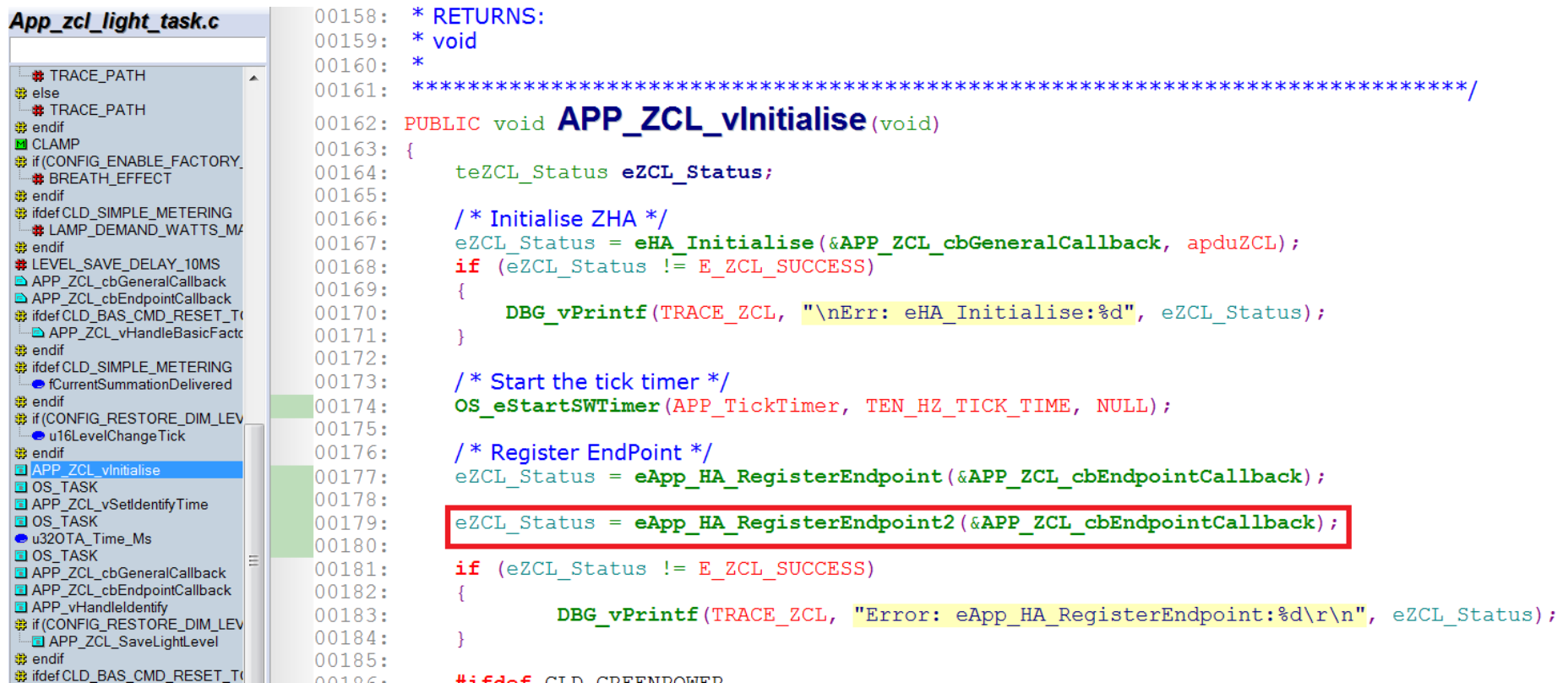
Add multiple endpoint 2

- ▶ Increase HA_NUMBER_OF_ENDPOINTS by 1. For dimmable light, originally it's 1, so increase it to 2.

```
00037: #define ZCL_OPTIONS_H
00038:
00039: #include <jendefs.h>
00040:
00041: PUBLIC void vSaveScenesNVM(void);
00042: PUBLIC void vLoadScenesNVM(void);
00043:
00044: /*****
00045:  ***      Macro Definitions      ***
00046: *****/
00047: #define COOPERATIVE
00048: // #define HA_NO_APS_ACK
00049:
00050: #define HA_NUMBER_OF_ZCL_APPLICATION_TIMERS 3
00051: #define HA_NUMBER_OF_ENDPOINTS 2
00052: #define ZCL_MANUFACTURER_CODE CONFIG_MANUFACTURER_CODE
00053:
00054: /* Clusters used by this application */
00055: #define CLD_BASIC
00056: #define BASIC_SERVER
00057:
```

Add multiple endpoint 3

- ▶ Register the new endpoint, the same callback function (APP_ZCL_cbEndpointCallback) can be shared or use a new callback for the new endpoint callback function.



```
00158: * RETURNS:
00159: * void
00160: *
00161: *****/
00162: PUBLIC void APP_ZCL_vInitialise(void)
00163: {
00164:     teZCL_Status eZCL_Status;
00165:
00166:     /* Initialise ZHA */
00167:     eZCL_Status = eHA_Initialise(&APP_ZCL_cbGeneralCallback, apduZCL);
00168:     if (eZCL_Status != E_ZCL_SUCCESS)
00169:     {
00170:         DBG_vPrintf(TRACE_ZCL, "\nErr: eHA_Initialise:%d", eZCL_Status);
00171:     }
00172:
00173:     /* Start the tick timer */
00174:     OS_eStartSWTimer(APP_TickTimer, TEN_HZ_TICK_TIME, NULL);
00175:
00176:     /* Register EndPoint */
00177:     eZCL_Status = eApp_HA_RegisterEndpoint(&APP_ZCL_cbEndpointCallback);
00178:
00179:     eZCL_Status = eApp_HA_RegisterEndpoint2(&APP_ZCL_cbEndpointCallback);
00180:
00181:     if (eZCL_Status != E_ZCL_SUCCESS)
00182:     {
00183:         DBG_vPrintf(TRACE_ZCL, "Error: eApp_HA_RegisterEndpoint:%d\r\n", eZCL_Status);
00184:     }
00185:
00186:     #ifdef CLD_CMD_RESET_T
```

Add multiple endpoint 4

- ▶ Use the new endpoint name **DIMMABLELIGHT_LIGHT2_ENDPOINT** for the new register function.

App_DimmableLight.c

```
00073: * Type          Name          Description
00074: * tfpZCL_ZCLCallbackFunction fptr      Pointer to ZCL Callback function
00075: *
00076: * RETURNS:
00077: * teZCL_Status
00078: *
00079: *****/
00080: PUBLIC teZCL_Status eApp_HA_RegisterEndpoint(tfpZCL_ZCLCallbackFunction fptr)
00081: {
00082:     return eHA_RegisterDimmableLightEndPoint(DIMMABLELIGHT_LIGHT_ENDPOINT,
00083:                                              fptr,
00084:                                              &sLight);
00085: }
00086:
00087: PUBLIC teZCL_Status eApp_HA_RegisterEndpoint2(tfpZCL_ZCLCallbackFunction fptr)
00088: {
00089:     return eHA_RegisterDimmableLightEndPoint(DIMMABLELIGHT_LIGHT2_ENDPOINT,
00090:                                              fptr,
00091:                                              &sLight);
00092: }
00093:
00094: /*****
00095: *
00096: * NAME: vAPP_ZCL_DeviceSpecific_Init
00097: *
```

File Explorer:

- include <jendef.h>
- include "zps_gen.h"
- include "App_DimmableLight.h"
- include "AppHardwareApi.h"
- include "dbg.h"
- include "os.h"
- include <string.h>
- include "app_light_interpolation.h"
- include "DriverBulb_Shim.h"
- sLight
- eApp_HA_RegisterEndpoint
- eApp_HA_RegisterEndpoint2**
- vAPP_ZCL_DeviceSpecific_Init
- ifdef CLD_BAS_CMD_RESET
- vApp_ZCL_ResetDeviceStatus
- endif
- vWhiteLightSetLevels
- if (defined DR1175) || (defined DR1176)
- OS_ISR
- OS_ISR
- OS_ISR
- endif
- u8AppGetEPId

