## ○前回(9/29)のミーティングでのNXPの各エラー内容

Coordinator

App: No event to process

- Enddevice
- ① App: Network discovery failed erorr=234
- ② App: No event to process!
- 3 App: Starting ZPS
- ○今回(10/7)のミーティング内容
- ① vWaitForNetworkDiscovery 関数に DBG\_vPrintf(TRACE\_APP,"App:Network discovery failed error %d¥n");

```
app_coordinator.c app_sleeping_enddevice.c app_router.c app_start.c
 PRIVATE void vWaitForNetworkDiscovery(ZPS_tsAfEvent sStackEvent)
      if (ZPS_EVENT_NONE != sStackEvent.eType)
          if (ZPS_EVENT_NWK_DISCOVERY_COMPLETE == sStackEvent.eType)
              DBG_vPrintf(TRACE_APP, "APP: Network discovery complete\n");
              if ((ZPS_E_SUCCESS == sStackEvent.uEvent.sNwkDiscoveryEvent.eStatus) ||
                  (ZPS_NWK_ENUM_NEIGHBOR_TABLE_FULL == sStackEvent.uEvent.sNwkDiscoveryEvent.eStatus))
                  DBG_vPrintf(TRACE_APP, "APP: Found %d networks\n", sStackEvent.uEvent.sNwkDiscoveryEvent.u8NetworkC
              }
              else
              {
                  DBG_vPrintf(TRACE_APP, "APP: Network discovery failed with error %d\n",sStackEvent.uEvent.sNwkDisco
              if (0 == sStackEvent.uEvent.sNwkDiscoveryEvent.u8NetworkCount
                  || 0xff == sStackEvent.uEvent.sNwkDiscoveryEvent.u8SelectedNetwork)
                  if (0 != sStackEvent.uEvent.sNwkDiscoveryEvent.u32UnscannedChannels)
                       * continue to look for networks on unscanned channels */
                      DBG_vPrintf(TRACE_APP, "APP: No networks found, continue scanning ...\n");
                      vClearDiscNT();
                      {\tt ZPS\_eAplZdoDiscoverNetworks(sStackEvent.} \underline{{\tt uEvent.sNwkDiscoveryEvent.u32UnscannedChannels)}; \\
```

## ② OS TASK 関数

DBG\_vPrintf(TRACE\_APP, "APP: No event to process!\n");

```
NAME: APP_taskSleepingEndDevice
   DESCRIPTION:
   Main state machine
   void
OS_TASK(APP_taskSleepingEndDevice)
    ZPS_tsAfEvent sStackEvent;
    sStackEvent.eType = ZPS_EVENT_NONE;
if (OS_E_OK_!= OS_eCollectMessage(APP_msgZpsEvents, &sStackEvent))
         DBG_vPrintf(TRACE_APP, "APP: No event to process!\n");
    switch (s_eDeviceState)
         case E_STARTUP:
             vStartup();
         break;
         case E_NETWORK_DISCOVERY:
             vWaitForNetworkDiscovery(sStackEvent);
         break;
         case E_NETWORK_JOIN:
```

③ app\_sleeping\_enddevice.c の vStart 関数に DBG\_vPrintf(TRACE\_APP, "APP: Starting ZPS¥n");

エラーの詳細を確認するため、適当に DBG\_vPrintf 関数を使って解決する.

最初、Starting ZPS とあったので、③の vStart 関数が初めに実行されると理解し、コードを 読んでいたが、エラー表示の順番より、誤解.

## コードに何も付け加えず、再度実行すると

```
u8Channel = 11;
     🖺 Problems 🖗 Tasks 🖳 Console 🖾 Properties 🧬 coordinator 69 🐶 enddevice 🖾
     Serial: (COM6, 115200, 8, 1, None, None - CLOSED) - Encoding: (ISO-8859-1)
     APP: Network discovery failed error=234
     APP: No event to process!
     APP: Starting ZPS
     APP: Network discovery complete
     APP: Found 1 networks
     APP: Unscanned channels 00000000
.pdf
              APP: Ext PAN ID = 001bc50122016bd5
              APP: Channel = 12
              APP: Stack Profile = 2
              APP: Zigbee Version = 2
              APP: Permit Joining = 1
              APP: Router Capacity = 1
              APP: End Device Capacity = 1
     APP: Trying Joining network
     APP: Joining network
     APP: Unexpected event in E_NETWORK_JOIN - 15
     APP: Unexpected event in E_NETWORK_JOIN - 15
    APP: Unexpected event in E_NETWORK_JOIN - 15
Encoding: (ISO-8859-1)
      APP: Unexpected event in E_NETWORK_JOIN - 15
      APP: Unexpected event in E_NETWORK_JOIN - 15
APP: Unexpected event in E_NETWORK_JOIN - 15
      APP: Unexpected event in E_NETWORK_JOIN
      APP: Unexpected event in E_NETWORK_JOIN
ite.pdf
      APP: Unexpected event in E_NETWORK_JOIN
                                                     - 15
ıdf
      APP: Node failed to join network. Retrying ...
      APP: No event to process!
      APP: Starting ZPS
APP: Network discovery complete
APP: Found 1 networks
       APP: Unscanned channels 00000000
                APP: Ext PAN ID = 001bc50122016bd5
APP: Channel = 12
                APP: Stack Profile = 2
                APP: Zigbee Version = 2
APP: Permit Joining = 1
                APP: Router Capacity = 1
                APP: End Device Capacity = 1
      APP: Trying Joining network
- Encoding: (ISO-8859-1)
```

Terminal に表示してある内容が、繰り返し表示される.

Coodinator のエラー内容 "APP: No event to process" の原因は ACK のようなメッセージがないため.

ー>ただ DBG\_vPrintf 関数を加えるだけでは意味がないのでは.

```
||⊌ app_coordinator.c ||⊎ app_sleeping_enddevice.c ≅ \| ∪ app_router.c ||⊍ app_start.c |
   * NAME: APP_taskSleepingEndDevice
   * DESCRIPTION:
   * Main state machine
   * RETURNS:
   * void
             OS_TASK(APP_taskSleepingEndDevice)
  {
     ZPS_tsAfEvent sStackEvent;
      sStackEvent.eType = ZPS_EVENT_NONE;
     if (OS E OK != OS_eCollectMessage(APP_msgZpsEvents, &sStackEvent))
      {
         DBG_vPrintf(TRACE_APP, "APP: No event to process!\n");
     }
      switch (s_eDeviceState)
         case E_STARTUP:
             vStartup();
         break;
         case E_NETWORK_DISCOVERY:
             vWaitForNetworkDiscovery(sStackEvent);
         break;
         case E_NETWORK_JOIN:
             vWaitForNetworkJoin(sStackEvent);
         break;
         case E_RUNNING:
             vHandleStackEvent(sStackEvent);
         break;
         default:
```

```
エラー内容から、OS_TASK 関数の
case E_NETWORK_JOIN
までは実行されていることが分かっている.
```

Coordinator と enddevice と router の 3 つ繋げるには、3 つの monostick が必要.