



Stack Errata Detail

Applicability: Stack version v2012-04-03 and older

Location: in WFMgmtMsg.c, and void WaitForMgmtResponse(UINT8 expectedSubtype, UINT8 freeAction) function

Detail:

New code:

```
void WaitForMgmtResponse(UINT8 expectedSubtype, UINT8 freeAction)
{
    #if defined(__18CXX)
        static tMgmtMsgRxHdr hdr;
    #else
        tMgmtMsgRxHdr hdr;
    #endif

    g_WaitingForMgmtResponse = TRUE;

    /* Wait until mgmt response is received */
    while (gMgmtConfirmMsgReceived == FALSE)
    {
        WFPProcess();

        /* if received a data packet while waiting for mgmt packet */
        if (g_HostRAWDataPacketReceived)
        {
            /* We can't let the StackTask process data messages that come in while waiting for mgmt
            // response because the application might send another mgmt message, which is illegal until the response
            // is received for the first mgmt msg. And, we can't prevent the race condition where a data message
            // comes in before a mgmt response is received. Thus, the only solution is to throw away a data message
            // that comes in while waiting for a mgmt response. This should happen very infrequently. If using TCP then the
            // stack takes care of retries. If using UDP, the application has to deal with occasional data messages not being
            // received. Also, applications typically do not send a lot of management messages after connected.

            // throw away the data rx
            RawMountRxBuffer();
            DeallocateDataRxBuffer();
            g_HostRAWDataPacketReceived = FALSE;

            /* ensure interrupts enabled */
            WF_EintEnable();
        }
    }
}
```

Original code:

```
void WaitForMgmtResponse(UINT8 expectedSubtype, UINT8 freeAction)
{
    tMgmtMsgRxHdr  hdr;

    g_WaitingForMgmtResponse = TRUE;

    /* Wait until mgmt response is received */
    while (gMgmtConfirmMsgReceived == FALSE)
    {
        WFPProcess();

        /* if received a data packet while waiting for mgmt packet */
        if (g_HostRAWDataPacketReceived)
        {
            /* loop until stack has processed the received data message */
            while (g_HostRAWDataPacketReceived)
            {
                StackTask();
            }

            /* ensure interrupts enabled */
            WF_EintEnable();
        }
    }
}
```