TCPIP stack and MRF24WB0MA/B and MRF24WG0MA/B Errata Detail

Applicability

Products MRF24WB0MA/B and MRF24WG0MA/B
Stack version v2012-08-22 and older
PIC24
SSL Client only

Problem

Current MLA releases only support 1024 SSL RSA key sizes. There is a requirement to be able to support 2048 SSL RSA key sizes

Fix

Code changes are needed in 2 files (SSLClientSize.h and Mac.h).

Details (FW Code change)

Related file and function prototypes :

1. SSLClientSize.h
   Comment out the following line
   // #error "SSL Key sizes greater than 1024 only supported on the PIC32"

2. Mac.h
   Modification is highlighted in red.

   ```
   #elif defined(WF_CS_TRIS)
       #define RAMSIZE         14170ul
       #define TXSTART         (RAMSIZE - ((4ul + MAX_PACKET_SIZE + 4ul)*1) - TCP_ETH_RAM_SIZE –
                               RESERVED_HTTP_MEMORY - RESERVED_SSL_MEMORY)
       #define RXSTART          (0ul)
       #define RXSTOP           ((TXSTART-2ul) | 0x0001ul)
       #define RXSIZE           (RXSTOP-RXSTART+1ul)
       #define BASE_TX_ADDR     (TXSTART + 4ul)
       #define BASE_TCB_ADDR    (BASE_TX_ADDR + ((MAX_PACKET_SIZE + 4ul)*1))
       #define BASE_HTTPB_ADDR (BASE_TCB_ADDR + TCP_ETH_RAM_SIZE)
   ```