Release Notes for MPLAB® Code Configurator’s TCP/IP Lite Library v2.2.8

1 What is MPLAB® Code Configurator’s TCP/IP Lite Library
The TCP/IP Lite library for Microchip’s MPLAB® X Code Configurator allows for quick and easy C code generation of TCP/IP Lite Stack. The library module uses Graphical User Interface (GUI) to choose, and configure various protocols from the TCP/IP lite stack and then generates the C code to program onto a PIC microcontroller.

2 System Requirements
- MPLAB® X IDE v3.61 or later
- XC8 compiler v1.42 or later
- MCC v3.36 or later
- PIC10 / PIC12 / PIC16 / PIC18 v1.45
- Foundation Services v0.1.21

3 Documentation Support
- AN1921 – Microchip TCP/IP Lite Stack
- Microchip TCP/IP Lite Stack:
  - http://www.microchip.com/design-centers/ethernet/ethernet-of-everything

4 Installing MPLAB® Code Configurator’s TCP/IP Lite Library
Basic steps for installing MPLAB® Code Configurator needs to be installed as below.

To install the MPLAB® Code Configurator v3.36 Plugin:
1. In the MPLAB® X IDE, select Plugins from the Tools menu
2. Select the Available Plugins tab
3. Check the box for the MPLAB® Code Configurator v3.36, and click on Install

To install the MCC TCP/IP Lite Library v2.2.8:
1. In the MPLAB® X IDE, select Plugins from the Tools menu
2. Select the Available Plugins tab
3. Check the box for the TCP/IP Lite Stack v2.2.8, and click on Install

To install the MCC Foundation Service Library v0.1.21:
1. In the MPLAB® X IDE, select Plugins from the Tools menu
2. Select the Available Plugins tab
3. Check the box for the Foundation Services v0.1.21, and click on Install
5 What’s New

- Usage of foundation services for the TCP/IP Lite Stack

6 Repairs and Enhancements

- Minor bug fixes in UDP, DHCP, LLDP, and Ethernet drivers
- Support for CoAP v1.0.0 added to the stack
- Bug Fixes

7 Known Issues

The minimum FLASH requirements for the TCP/IP lite stack:

<table>
<thead>
<tr>
<th>Protocols (includes DHCP, ARP, IP, MAC drivers)</th>
<th>Flash Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only UDP</td>
<td>&gt;= 8KB</td>
</tr>
<tr>
<td>Only TCP</td>
<td>&gt;=16KB</td>
</tr>
<tr>
<td>UDP and TCP</td>
<td>&gt;=16KB</td>
</tr>
<tr>
<td>UDP and (NTP or DNS or TFTP) or LLDP</td>
<td>&gt;16KB</td>
</tr>
</tbody>
</table>

By default, NTP, DNS, TFTP, and LLDP are disabled. If the user selects all the protocols and generates the code using MCC, then the generated code fails to build because of limited memory.

8 Frequently Asked Questions

For frequently asked questions, please refer to the FAQ post on the MCC Forum (http://www.microchip.com/forums/f293.aspx)

9 Supported Families

The MCC TCP/IP Lite Library v2.1 supports the following families.

9.1.1 8 bit Families

- PIC16F1xxx
- PIC16F1xxxx
- PIC18F1xxxx
10 Customer Support

10.1 The Microchip Web Site
Microchip provides online support via our web site at http://www.microchip.com. This web site is used as a means to make files and information easily available to customers. Accessible by using your favorite Internet browser, the web site contains the following information:

- Product Support – Data sheets and errata, application notes and sample programs, design resources, user’s guides and hardware support documents, latest software releases and archived software
- General Technical Support – Frequently Asked Questions (FAQs), technical support requests, online discussion groups/forums (http://forum.microchip.com), Microchip consultant program member listing
- Business of Microchip – Product selector and ordering guides, latest Microchip press releases, listing of seminars and events, listings of Microchip sales offices, distributors and factory representatives

10.2 Additional Support
Users of Microchip products can receive assistance through several channels:

- Distributor or Representative
- Local Sales Office
- Field Application Engineering (FAE)
- Technical Support

Customers should contact their distributor, representative or field application engineer (FAE) for support. Local sales offices are also available to help customers. A listing of sales offices and locations is available on our web site.

Technical support is available through the web site at: http://support.microchip.com