Industrial Automation Tech Note 31

Emailing via a Secure Connection



Abstract:

This document describes sending emails using a secure connection, with examples using Gmail, Yahoo, and Outlook.com accounts.

Products:

DSPZR / CSMSTRZR / Graphite[®] HMI / Graphite[®] Controllers

Use Case: Emailing via a Secure Connection

Many SMTP servers require a secure connection, using SSL, TLS, or STARTTLS; this document explains how to configure a secure connection in Crimson[®] 3.0.

Required Software:

Crimson[®] 3.0

Required Firmware:

Build 694.000 or higher

Enable Secure Protocol Support

Navigation Pane X	Communications - Network
🙈 New 🗸 📉	Ethernet 1 Ethernet 2 TLS - SSL Routing Download Add Ports
Communications Communications	Settings Protocol Support: Enabled ~
Port Network	Trusted Roots
Protocol 1	Certificate Source: Do Not Provide 🗸
Frotocol 3	Certificate File: Browse

- **1.** Navigate to the Communications section.
- 2. Configure Ethernet1, Ethernet 2, or a cellular modem driver as needed for the application.
- 3. Click on Network.
- 4. Click on the TLS SSL.
- 5. Set Protocol Support to Enabled under Settings.
- 6. Select Certificate Source

Note: Providing a certificate is not required for secure connection to be established. However, the default may or may not meet application's security requirements. Consult with the Information Technology department for security requirements.



Configure Mail Manager to Use a Secure Connection

- 1. Navigate to the Communications section.
- 2. Click on Mail Manager under Services.
- 3. Click on the Mail tab.
- 4. Set Enable Mail Manager to Yes.
- 5. Set the Unit Name.
- 6. Click the *Edit Contacts* link.
- 7. Configure contacts as required.
- 8. Click OK.
- 9. Click on the *SMTP* tab.
- **10.** Set the Transport Mode to *Enabled*.
- **11.** Configure the remaining SMTP transport settings as required.
- 12. Configure the SMTP Authentication with the required Method, Username, and Password.
- **13.** Set the Use Secure Connection to SSL/TLS or STARTTLS as required.

Navigation Pane X	Communications - Services - Mail Manager
💰 New + 🗙	Mail SMTP SMS
Communications Communications RS-485 Comms Port	SMTP Transport
 ■ RS-232 Comms Port ■ Potwork ■ Protocol 1 	Server Selection: Manual Configuration
ې Protocol 2 Protocol 3 Protocol 4	Server IP Address: Fixed Name smtp.gmail.com Server Port Number: 465
 	Domain Name: Reverse Path: G3 Test Edit
Mouse Services Time Manager PC Proxy	Initial Timeout: 30 secs Record Log File: Enabled
FTP Server	SMTP Authentication
Mail Manager	Method:
Gomms Modules If Slot 1 - Cell Modem	Username: fake-email@gmail.com Password:
 Image: Modern Port - PPP Client Slot 2 Slot 3 	Use Secure Connection: SSL/TLS
In Slot 4 Slot 5 Slot 6	Time Format Date Format: Locale Default



Common Email Provider Settings

Gmail SMTP Settings

- Server Address: smtp.gmail.com
- Username: Your full Gmail address (e.g. yourusername@gmail.com)
- Password: Your Gmail password
- Port (TLS): 587
- Port (SSL): 465
- TLS/SSL required: yes.

Yahoo SMTP Settings

- Server Address: smtp.mail.yahoo.com
- Username: Your full Yahoo address (e.g. yourusername@yahoo.com)
- Password: Your Yahoo password
- Port: 465 or 587
- Requires SSL: Yes
- Requires TLS: Yes (if available).

Outlook.com SMTP Settings

- Server Address: smtp-mail.outlook.com
- Username: Your full Outlook.com address (e.g. yourusername@outlook.com)
- Password: Your Outlook.com password
- Port: 587
- Requires STARTTLS: Yes.

Demo Accounts

Gmail:

Redliontest1@gmail.com Pass: 20willowsprings

<u>Yahoo:</u>

redliontest@yahoo.com Pass: 20willowsprings

Outlook:

redliontest@outlook.com Pass: 20willowsprings

For more information: http://www.redlion.net/support/policies-statements/warranty-statement

