



Application Note

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Product Family: Do-More

Number: AN-DM-001

Subject: Email Setup

Date Issued: May 14, 2021

Revision: V2.0

Do-More Email Setup

Before you get started, you will need to gather all necessary information to connect to ISP/Email provider:

- Authentication method required by ISP (SMTP AUTH, POP before SMTP, SSL, TLS, STARTTLS, etc...)
- SMTP server DNS/IP and port number
- POP3 server DNS/IP (if necessary) and port #
- Log on credentials
- Domain name (i.e. myemail@xxxxx.xxx)
- Allowed email addresses for account
- Email addresses to send to

Things to be aware of:

- The Do-More CPU must have a built-in Ethernet port (DM1E part number)
- The BRX DM1E can use the BX-P-ECOMEX, but not the BX-P-ECOMLT.
- The specific port numbers entered must be determined by the email provider.
- If you are using "POP3 before SMTP Authentication", the ISP/Email provider must use the same IP address for the SMTP server and POP3 server. They are not separate fields in Do-More.

Steps to configure email functionality.

- BRX PLC IP address, Subnet Mask, Gateway, and DNS need to be configured.
- Adding Email Device to System Configuration.
- EMAIL instruction in the ladder code.

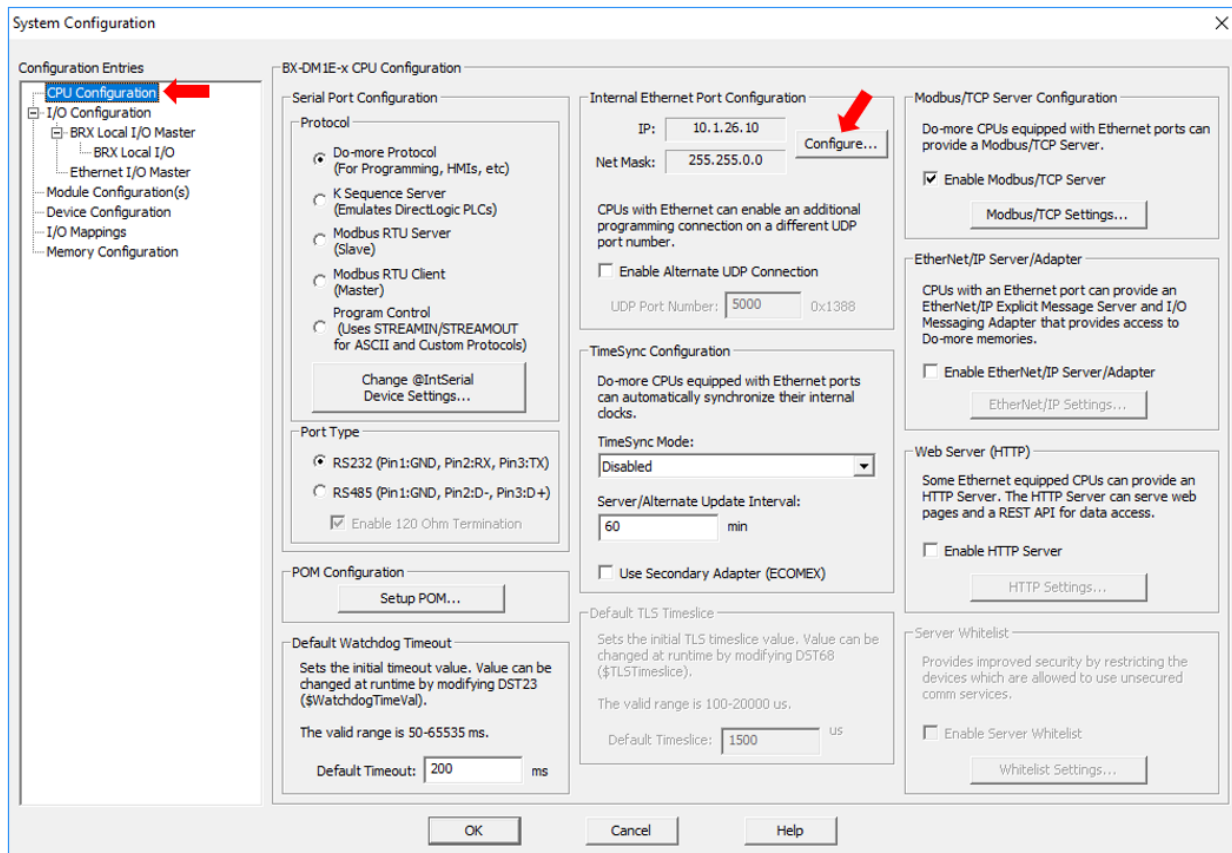


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Configuring the Do-More PLC Ethernet settings

Go the System Configuration (PLC >> System Configuration) and select "CPU Configuration" and then the "Configure" button.



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Once there, you will need to enter in your appropriate settings for your network. If you are unsure about what settings you need to use, please consult your local IT person for settings that will work on your network.

Probably one of the most common mistakes made when setting up Do-More to send email (or to be accessible on the Internet) is not specifying the Gateway address. The Do-More CPU cannot respond to nor target an IP address that is not on its subnet without the Gateway (which a public IP address WILL be). The default gateway IP address is the IP address of the router.

You also want to specify a DNS address. Then you can use a "Server Name" in the EMAIL instruction, instead of a static IP address. The DNS setting is preferred since some email providers will change their static IP address to try and combat spam. If you hard-code an IP address into the EMAIL instruction, you would have to modify and download the project to the PLC if the email provider changes the IP address.

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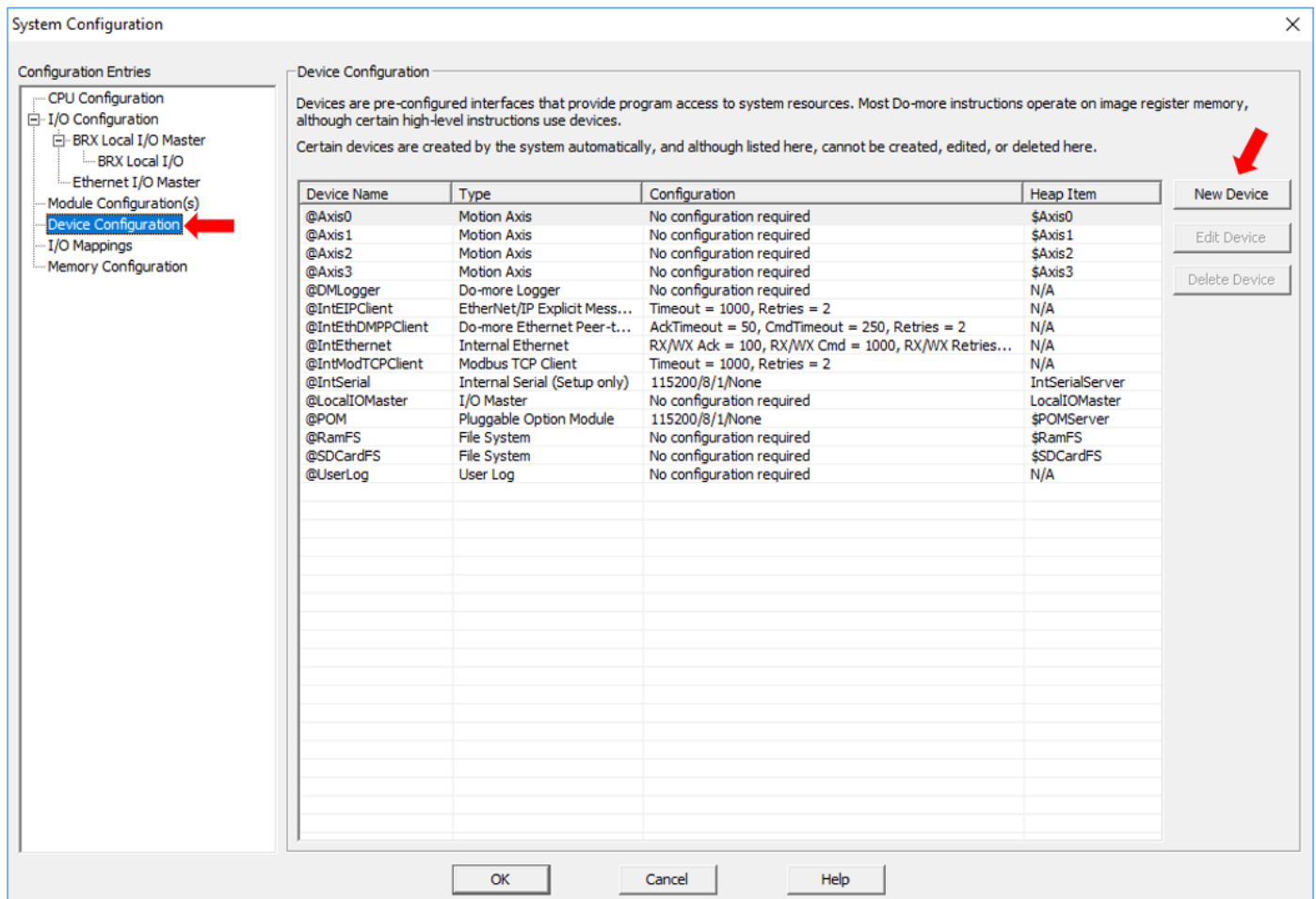
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Configuring the Email Device

Go to System Configuration (PLC >> **System Configuration**)

Select

- Device Configuration
- New Device



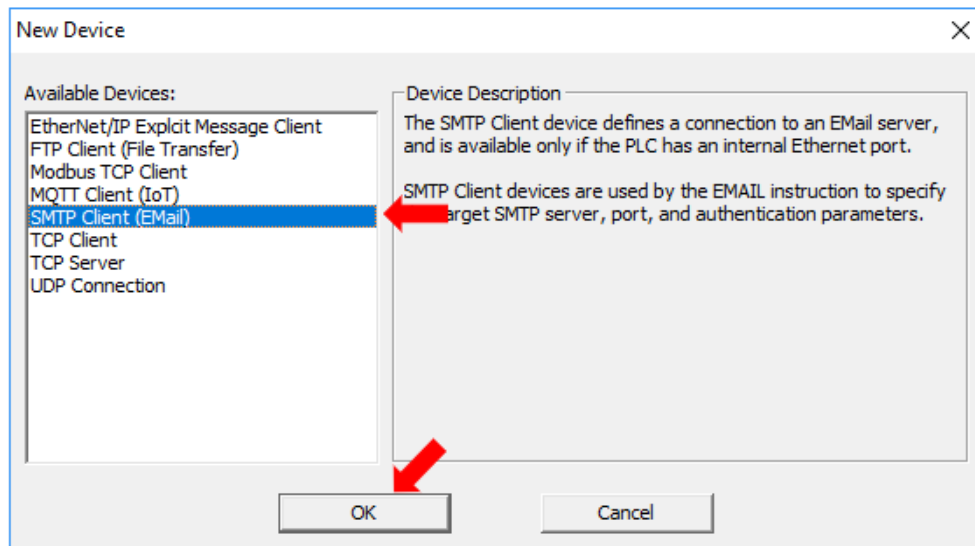
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At the "New Device" window you will need to add a SMTP Client





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In the settings widow, you will use the settings that you got from your email provider.

You will also need to test and verify your settings before the instruction will allow you to OK and exit.



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EMAIL Instruction in ladder Code

Once the device is configured, then you can add the EMAIL instruction into your ladder logic. See help topic DMD0068 in the Do-More Designer Software for more information about the EMAIL instruction. You can get to the help topic by clicking the "?" in the instruction dialog box.

EMAIL Hit Enter for Error Details

SMTP Device: @Gmail

☒ To:

☐ Cc:

☐ Bcc:

Subject:

☒ Automatically insert space after each term

Message Print Script

#	Function	Parameter List
1		

☐ Attach File

File System: @RamFS

File Name: "MyLog.txt"

☐ Delete File after Email sent

On Success: ☒ Set bit ☐ JMP to Stage C0

On Error: ☒ Set bit ☐ JMP to Stage C1

☒ Automatically create the SG box for any NEW stage number

☒ Below this rung

☐ At end of code-block

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Other Helpful Tips

DMLogger

If the EMAIL instruction is not working correctly, you can use the Do-More Logger to help troubleshoot. The logger setup and functions are described in the Do-More software's help file topic DMD0283.

The screenshot shows the 'Do-more Logger' window with the title bar '[10.0.0.102 - Port 0x7272]'. The configuration section at the top shows 'UDP Port: 0x7272', 'Accepting packets from: 10.0.0.102', and 'Max # of Records: 10000000'. Checkboxes for 'Display sending address', 'Display time', 'Insert at top', and 'Recognize # command strings' are all checked. Radio buttons for 'ASCII' and 'Hex' are present, with 'ASCII' selected. Buttons for 'About', 'Pause', 'Save', and 'Clear' are also visible.

Address	Time	Message
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.488	"Beginning DNS lookup..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.488	"Connecting to SMTP server..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.645	"SMTP connected!"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.808	"220 gm-x.com (mrgmx001) Nemesis ESMTP Service ready"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.808	"EHLO [10.0.0.109]..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.878	"250-gm-x.com Hello [10.0.0.109] [50.240.100.169]"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.878	"250-AUTH LOGIN PLAIN"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.878	"250-SIZE 69920427"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.878	"250 STARTTLS"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:15.878	"STARTTLS..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:16.040	"220 OK"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:16.040	"Starting TLS handshake..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:20.807	"TLS handshake complete"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:20.808	"EHLO [10.0.0.109]..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:20.956	"250-gm-x.com Hello [10.0.0.109] [50.240.100.169]"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:20.957	"250-AUTH LOGIN PLAIN"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:20.957	"250 SIZE 69920427"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:20.957	"AUTH LOGIN..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.112	"334 VNMicm5hbWU6"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.113	"bWxzMDYxQGdtcC5jb20=..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.269	"334 UGFzc3dvcmQ6"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.269	"TWl6N2RlYnU=..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.824	"235 Authentication succeeded"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.825	"MAIL FROM: <...>"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.977	"250 Requested mail action okay, completed"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:21.977	"RCPT TO: <...>"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.441	"250 OK"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.524	"354 Start mail input; end with <CRLF>., <CRLF>..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.525	"From: .."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.525	"To: .."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.525	"Subject: .."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.525	"Date: Mon, 4 Dec 2017 10:33:43 -0500..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.525	"Message-ID: <07E10C04010A212B@10.0.0.109>..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.525	"MIME-Version: 1.0...Content-type: text/plain; charset=US-ASCII..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.602	"Sending message..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.910	"250 Requested mail action okay, completed: id=0M7Xl3-1fGLFm3fdN-00..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.911	"QUIT..."
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.996	"221 gm-x.com Service closing transmission channel"
10.0.0.109 Port 29298(0x7272)	12/04/17 10:33:22.997	"SMTP disconnected!"

Allow Third Party Apps

In an effort to combat spam, some email providers (Gmail, Yahoo, etc) have started blocking third party apps (Do-More) from using their email systems. You can use those accounts for the Do-More PLC but you will have to log into your email account and configure your account to allow third-party access.

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