



INTEGRATED TELECOMMUNICATION SYSTEMS

## TECH NOTE 4

### UPLOADING MOSCAD & MOSCAD-L CPUS

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You will use the **MOSCAD Programming Toolbox** program group to upload your CPU. This group can be found either on your desktop or by selecting **Start, Programs, MOSCAD Programming Toolbox X.X** where **X.X** is the version of your **MOSCAD Programming Toolbox**. To begin, open the **MOSCAD Programming Toolbox** program group.

#### COMMUNICATIONS SET-UP

The most common problem when uploading a CPU is the communication setup. You must have the correct computer serial port selected, the correct baud rate of the CPU port and the programming cable must be connected from the configured serial port on your computer to a CPU port configured for **Local Computer** in the **Site Configuration** currently loaded into the CPU. To set-up the communications, follow these steps:

1. Open the **Comm Setup** application.
2. Set the **Communication port** to the computer port which is connected to your CPU.
3. Set the **Baud rate** to the port speed on the CPU configured for **Local Computer**.
4. After properly setting **Communication port** and **Baud rate**, click the **OK** button.
5. Upon exiting the **Communication Setup** application, a pop-up window will appear indicating a need to "Close all Toolbox applications and stop the communication driver". Press the **OK** button to proceed.
6. If changes were made to the communication setup, close all running Toolbox applications and stop the communication driver using the **Stop Comm Driver** application. If the communication driver was running, a pop-up window will indicate "Communication driver was stopped". If the communication driver was not running, a pop-up window will indicate "Communication driver is not running. Nothing to stop".
7. Verify proper connection from the computer COM port listed in the **Communication port** setting to the MOSCAD CPU port configured for **Local Computer (Port 1B, Port 2 or Port 3** if you are using an RS232 board). If you have just reset the CPU you may use either **Port 1B** or **Port 2**.

#### MOSCAD & MOSCAD-L LEDs

Before attempting to upload information out of a CPU, make sure there is something to upload! The current load status for **Site Configuration** and **Application** is displayed on LEDs on the CPU.

On a MOSCAD CPU, the **Site Configuration** load status is displayed on the **CFG** LED and the **Application** load status is displayed on the **APPL** LED. If you have no lights illuminated on the CPU, try pressing **PB1** once, the LEDs illumination setting may have timeout.

On a MOSCAD-L CPU, the **Site Configuration** load status is displayed on the **CFG** LED and the **Application** load status is displayed on the **APPL** LED. However, you must make sure the display mode for the MOSCAD-L is currently displaying **CPU**. To toggle the display mode, use the **PB**. When the **CPU** LED is illuminated, you are in the correct display mode.

## UPLOADING THE SITE CONFIGURATION

This explanation assumes that communication from your computer to the CPU has been correctly set-up.

### **Toolbox version 8.5 or earlier**

1. For MOSCAD CPUs, open the **MOSCAD Site Configuration** application.
2. For MOSCAD-L CPUs, open the **MOSCAD-L Site Configuration** application.
3. Select **File, Upload...** from the menu.
4. When prompted for a password, enter the password used in your system. This password **MUST** match the Communication Password assigned to the CPUs in your system for successful CPU to CPU communications.
5. In the **Site configuration communication** window, select **Local**, and click **Upload**.
6. The process is complete when the **Upload Information** dialog box is displayed listing the current **Configuration, Site ID, Firmware** and **Application**.

### **Toolbox Version 9.50 or later**

1. Open the **MOSCAD-MOSCAD-L Site Config** application.
2. Select the appropriate site configuration by selecting **File, Upload...** from the menu.
3. When prompted for a password, enter the password used in your system. This password **MUST** match the Communication Password assigned to the CPUs in your system for successful CPU to CPU communications.
4. After successful upload, you will be prompted to save this newly uploaded file.
5. If the uploaded **Site Configuration** is already saved in the **Config** directory, you will be prompted to either overwrite the existing file or save the configuration as a new file. If you do not wish to overwrite the existing file, select **No** when prompted and enter a new file name to save the uploaded configuration.
6. The process is complete when the **Upload Information** dialog box is displayed listing the current **Configuration, Site ID, Firmware** and **Application**

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