

# How to backup NVRAM (save configuration) on the IMACS

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## Scope

This document pertains to the IMACS 600, 800, and 900.

## Introduction

This document is a guide on how to backup the IMACS system configuration. Here are three methods on how to save the IMACS system configuration.

1. Save to file via terminal.
2. Save to file via TFTP.
3. Save to flash.

## Requirements

### Software:

- CPU software 5.0.x or above needed to backup NVRAM thru TFTP and Flash.
- CPU software 3.0.x, 4.0.x and 5.0.x can backup NVRAM to file thru terminal.
- TFTP software (such as 3COM TFTP server and Walusoft TFTP).
- VT-100 terminal software (such as Windows HyperTerminal).
- Software version of the CPU card is version A0 or above

### Hardware:

- Management channel Concentrator (MCC) card or the Internet Protocol Router (IPR) card is required to save the configuration via TFTP.

## Configuration Steps

### 1. Saving the IMACS configuration to file via Hyper-Terminal

- 1a. From the IMACS main menu, type **Y** for sYs then **B** for Backup.
- 1b. Move the cursor to **PROTOCOL**, select **ascii**. See Diagram 1.

```
unknown | NVRAM Backup | 06-08-30 0
C1      backup      Install Table      backup
C2      backup      Cross Connect      backup
P1      backup      Alarm Filters      backup
P2      backup      Alarms History     backup
P3      backup
P4      backup      PROTOCOL          ascii
W1      backup
W2      backup
W3      backup
W4      backup
IF      backup
U1      backup
U2      backup
U3      backup
U4      backup
U5      backup
U6      backup
U7      backup
U8      backup
Go | Copy | Main
```

Diagram 1

- 1c. Start a text capture in Windows Hyper Terminal by selectng **Transfer**→**Capture Text**. Provide a file name with a .TXT extension. For example, **CAPTURE.TXT**.
- 1d. Type **G** for Go. You will then see the configuration data appear on the screen while it's written to the file. When you see the message "BACKUP\_COMPLETE, Hit "m" to back to the menu", the backup is now completed.
- 1e. Stop the text capture in HyperTerminal by selecting **Transfer**→**Capture Text**→**Stop** then type **M** on the IMACS menu.

## 2. Saving the IMACS configuration to file via TFTP

**Note:** You need a MCC or IPR card to perform TFTP. See "How to upgrade IMACS via TFTP" for further assistance of setting up an IP connection.

- 2a. From the IMACS main menu, type **Y** for sYs, then **B** for Backup.
- 2b. Move the cursor to PROTOCOL, select **tftp**. See Diagram 2.

```
unknown | NVRAM Backup | 06-08-30 03:44
C1      backup      Install Table      backup
C2      backup      Cross Connect      backup
P1      backup      Alarm Filters      backup
P2      backup      Alarms History     backup
P3      backup
P4      backup      PROTOCOL           tftp
W1      backup
W2      backup
W3      backup
W4      backup
IF      backup
U1      backup
U2      backup
U3      backup
U4      backup
U5      backup
U6      backup
U7      backup
U8      backup
Go | Copy | Main
```

Diagram 2

- 2c. Type **G** for Go .
- 2d. The menu will ask you "Mismatch retries, Enter Number", leave as default by hit **Enter**. Hit **Enter** again for "Timeout retries". Then type the IP address of the TFTP server. For example **192.168.1.1**, then hit **Enter**. Type in the file name. For example **imacs.txt**, and hit **Enter**. You will then see the transmit status "Bytes left..." on the screen. When the message "BACKUP\_COMPLETE, Hit "m" to back to the menu " appears on the screen, type **M**.

### 3. Saving the IMACS configuration to flash

- 3a. From the main menu, type **Y** for sYs, then **B** for Backup.
- 3b. Move the cursor to PROTOCOL, select **flash**.
- 3c. Type **G** for Go.
- 3d. The configuration will be saved from the Interface card to the CPU card flash memory. When the message "Done, press any key to continue...", the backup is now completed.

## Troubleshooting

### Problem:

I don't see PROTOCOL field in Backup menu.

**Answer:**

The CPU card is prior to 5.0.x. You can only save configuration thru terminal as described in Step 1.

**Problem:**

I see the data scroll up the screen when you use HyperTerminal but nothing is saved to my PC.

**Answer:**

Make sure you click **Transfer**→**Capture Text** and specify the file name with .TXT extension.

**Problem:**

I don't see any data transmitted using the TFTP server.

**Answer:**

See "How to Upgrade CPU Software via TFTP" for further assistance.