

VadaTech UTC001

Upgrade Instructions

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Revision History

Doc Rev	Description of Change	Revision Date
1.0	Document Created	02/23/2009
1.1	Updated for UTC001 release 1.3.3	03/18/2009
1.2	Updated description of default IP connection	05/20/2009
1.3	Removed serial number	03/10/2010

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1 Overview

The VadaTech UTC001 is the most feature-rich MCH (MicroTCA Carrier Hub) on the market. This document is a guide to upgrading the components that make up the UTC001. These components include the MCMC, Carrier Manager, Shelf Manager, Daughter Card configuration, Services, and Tools.

1.1 Document References

- [VadaTech MicroTCA Carrier Manager Command Line Interface Reference Manual](#)
- [VadaTech MicroTCA Shelf Manager Command Line Interface Reference Manual](#)

1.2 Acronyms Used in this Document

Acronym	Description
MCH	MicroTCA Carrier Hub
MCMC	MicroTCA Carrier Management Controller

Table 1: Acronyms

2 MCH

The MCH package upgrades the MCMC, Carrier Manager, Shelf Manager, Services, and Tools. The package will also update the file-system. The package can be found in the file `mch-X.X.X.X.tgz`, where X.X.X.X is the version number.

The default IP address for all UTC001's is set to 192.168.1.252. The IP address is a configurable value in `etc/rc.d/rc.conf`, and may be changed at any time.

Note: When upgrading with the MCH package, all data will be lost. Only the files in `/etc` will be saved during the upgrade.

The following procedure outlines the steps to update an MCH:

- 1) The package must be extracted on a machine other than the target MCH due to memory constraints.

```
# tar xzvf mch-X.X.X.X.tgz
```

- 2) Once uncompressed, copy the contents of the created folder to `/upgrade` on the target UTC001.

```
# scp mch-X.X.X.X/* root@192.168.1.252:/upgrade
```

- 3) Connect to the UTC001 and go to `/upgrade`.

```
# cd /upgrade
```

Refer to the VadaTech MicroTCA Shelf Manager Command Line Interface Reference Manual and VadaTech MicroTCA Carrier Manager Command Line Interface Reference Manual for establishing a connection.

- 4) Run the `upgrade` command.
 - a. The user will be prompted to keep the old serial number, or enter a new one. Press `<ENTER>` to keep the old serial number. Otherwise, enter the new serial number and press `<ENTER>`.
 - b. The user will be shown the current software, management, and daughter card settings. Press `<ENTER>` to keep the old serial number. Otherwise, enter `n` to change the settings.
 - c. To continue with the upgrade, enter `y`.

```
# upgrade

****CURRENT SETTINGS****
Shelf Manager      : Enabled
SNMP daemon        : Enabled
SNMP trap handler  : Enabled
Web server         : Disabled
Spread spectrum clocking mode is disabled

Do you want to keep these settings? (press ENTER to keep existing or 'n')

==== VT002 Upgrader ====

REDBOOT:
  ROOTFS: vt002_nand_flash_mch-X.X.X.X.img
  KERNEL:
    FPGA:

Please ensure that you have specified the proper images.
Do you wish to continue with the upgrade (y/n)? y
```

5) Power cycle for the changes to take effect.

3 MCMC Configuration

The UTC001 comes in many different configurations. When upgrading the MCMC configuration, verify that the correct package is being used; otherwise the UTC001 may not function as expected. The configuration package can be found in the file `utc001-ABC-DEF-GHJ-X.X.X.tgz`, where ABC-DEF-GHJ represents the configuration options of the UTC001 and X.X.X is the version number.

The default IP address for all UTC001's is set to 192.168.1.252. The IP address is a configurable value in `etc/rc.d/rc.conf`, and may be changed at any time.

The following procedure outlines the steps to update an MCMC configuration:

- 1) Copy the configuration package to `/upgrade` on the target UTC001.

```
# utc001-ABC-DEF-GHJ-X.X.X.tgz root@192.168.1.252:/upgrade
```

- 2) Connect to the UTC001 and go to `/upgrade`.

```
# cd /upgrade
```

Refer to the VadaTech MicroTCA Shelf Manager Command Line Interface Reference Manual and VadaTech MicroTCA Carrier Manager Command Line Interface Reference Manual for establishing a connection.

- 3) Extract the files from the package.

```
# tar xzvf utc001-ABC-DEF-GHJ-X.X.X.tgz
```

- 4) Go to the created folder.

```
# cd utc001-ABC-DEF-GHJ-X.X.X
```

- 5) Run the `upgrade` command.

```
# upgrade
```

When prompted for serial number please input the UTC001 board serial number.

- 6) Power cycle for the changes to take effect.

4 Daughter Card Configuration

The UTC001 can be manufactured with one of several different daughter cards. When upgrading the Daughter Card configuration, verify that the correct package is being used; otherwise the UTC001 may not function as expected. The configuration package can be found in the file DA###-X.X.X.tgz, where ### is the type of Daughter Card and X.X.X is the version number.

The default IP address for all UTC001's is set to 192.168.1.252. The IP address is a configurable value in `etc/rc.d/rc.conf`, and may be changed at any time.

The following procedure outlines the steps to update the Daughter Card configuration:

- 1) Copy the configuration package to `/upgrade` on the target UTC001.

```
# DA###-X.X.X.tgz root@192.168.1.252:/upgrade
```

- 2) Connect to the UTC001 and go to `/upgrade`.

```
# cd /upgrade
```

Refer to the VadaTech MicroTCA Shelf Manager Command Line Interface Reference Manual and VadaTech MicroTCA Carrier Manager Command Line Interface Reference Manual for establishing a connection.

- 3) Extract the files from the package.

```
# tar xzvf utc001-ABC-DEF-GHJ-X.X.X.tgz
```

- 4) Go to the created folder.

```
# cd utc001-ABC-DEF-GHJ-X.X.X
```

- 5) Run the `upgrade` command. The daughter card's serial number must be specified as an argument.

```
# upgrade XXXXXXXX
```

- 6) Power cycle for the changes to take effect.