



Upgrading CSA System Firmware

PRELIMINARY

Overview

This application note describes how to upgrade firmware for CSA system components.

Summary

With CSA firmware release 2.00, the process for upgrading system firmware was modified. This application note explains how to install new firmware releases for the various components in CSA based systems. To upgrade to the latest release, if your current version is $\leq 1.9.9$, place MAIN.EXE for version 2.06 on a floppy and upgrade the CSA Front Panel Firmware to that version, then after the CSA has rebooted, place CSAvVYY.UPG for the latest version on a floppy and press Upgrade System Firmware. The upgrade may cause the CSA to reboot several times, this is normal. The upgrade is complete when the normal CSA screen shows up again.

CSA Versions 0.0.0 to 1.9.9

Separate disks/files are required to install:

- CSA Front Panel Firmware Upgrade
 - MAIN.EXE
 - \CSASYS\FACTORY.SST (usually optional)
- Expansion Chassis Firmware Upgrade
 - CHASSIS.EXE
- Channel Card Firmware Upgrade
 - CC.I0
- WaveRef Card Firmware Upgrade
 - WAVeref.I0

By version 1.9.9, a separate softkey panel had been created to perform each of the above operations. The files needed for each operation are listed above. To perform a given operation, the listed files would need to be placed on a floppy disk and inserted into the CSA floppy drive. Then the user would press the respective softkey to perform the operation.

CSA Versions 2.00 to Present

The format of version numbering was changed from an X.X.X format to a V.YY format. A single softkey, *Upgrade System Firmware*, is now used to perform all upgrade operations. The upgrade process is backwards compatible so that older upgrade disks and filenames are still supported.

File Names

CSAvVYY.UPG

This is a self extracting PkZip DOS EXE file that is renamed to UPGRADE.EXE when copied to the CSA hard disk and executed the next time the CSA reboots. This file contains all of the latest upgrade files, including: CSA firmware, Expansion Chassis firmware, Channel Card and WaveRef Card firmware.

CSAvVYY.ZIP	This is a standard Windows ZIP file used to transmit upgrade files from dBm to our customers. It generally will contain the following files: CSAvVYY.UPG ReleaseNotes.PDF 025 Upgrading CSA System Firmware.PDF
MAIN.EXE	CSA Front Panel firmware file.
CHASSIS.EXE	Expansion Chassis firmware file.
CC.I0	Channel Card firmware file. When this file is used, ALL channel cards are upgraded to this firmware version.
CCVVYY.I0	Channel Card firmware file for version VV.YY. All channel cards that do not match version VV.YY are upgraded using this file.
WAVeref.I0	WaveRef Card firmware file. When this file is used, the WaveRef card is upgraded to this firmware version.
WRVVYY.I0	WaveRef Card firmware file. When this file is used, the WaveRef card is only upgraded if the card version does not match VV.YY.
FACTORY.SST	Factory default settings file. This file is automatically created by the CSA firmware and no longer needs to be distributed for versions >= 2.00.

When the *Upgrade System Firmware* softkey is pressed, ALL files and subdirectories on the floppy drive are copied to the CSA hard disk, then the CSA is rebooted. If expansion chassis are connected to the CSA, they are rebooted as well.

Upgrading from Version X.X.X to 2.06

- Place MAIN.EXE for version 2.06 on a floppy disk, and place the disk in the CSA floppy drive.
- Press softkey *Front Panel Firmware Upgrade* or *Upgrade System Firmware*.
- After the upgrade is finished, then follow the instructions for upgrading from version 2.06 to V.YY if you want to upgrade expansion chassis, channel cards or waveref card firmware.

Upgrading from Version 2.06 to V.YY

- Place the upgrade file CSAvVYY.UPG on a floppy disk. In the file name, V is the major version number, YY is the minor version number. Place the disk in the CSA floppy drive.
- Press softkey *Upgrade System Firmware*.

Downgrading from Version V.YY to 1.X.X

- Place the upgrade disk or MAIN.EXE for version 1.X.X in the CSA floppy drive.
- Press softkey *Upgrade System Firmware*.

What if the files don't fit on a floppy?

Start with a blank reformatted floppy disk. Sometimes disks can have hidden or system files on them that use some of the space on the floppy.

Or try doing the upgrade with the CSAvVYY.UPG file instead of MAIN.EXE .

Or do the upgrade in steps, do MAIN.EXE first then all the other files second.

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