

# BOOTP Configuration Guide



## Audience

This guide is for system administrators who want to use BOOTP to configure Cognitive's network e+Solutions™ printer line.

## Applicable Models

All Del Sol and Advantage network e+Solutions™ enabled printers.

**Cognitive**

# Overview & Sample BOOTP File

## Guide Conventions

Notes and important comments are highlighted respectively with a border line and red text.

**Note:** *Contains information that helps prevent errors and provides tips on where to find additional information.*

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**Important:** *Indicates procedures and comments that must be followed or the software and/or printer could be misconfigured.*

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This document is for a system or network administrator to follow and use as a guide to update network printer firmware using BOOTP file configurations.

## Related Documents

Visit [www.cognitive.com](http://www.cognitive.com) to download these and other Cognitive documents.

- Cognitive Printers *Programmer's Guide*, includes Cognitive Programming Language (CPL) syntax (part number 105-008-01)
- *Network Printer Setup Guide* (part number 191-017-01)
- *Ethernet Printer Programmer's Guide* (part number 195-127-100)
- *inControl™ User's Guide* (part number 105-022-01)
- *Quick Start Guide* specific to the printer (part number varies with printer model)

## Sample BOOTP File

The following sample illustrates a simple BOOTPTAB file, running under Linux Redhat 7.0.

```
CogTest2:\
:ht=ethernet:\
:vm=auto:\
:ha=00E070010001:\
:ip=130.60.10.133:\
:sm=255.255.0.0:\
:bf=/tftpboot/4inlin.lbl:\
:gw=130.60.250.1:
```

**Note:** *This is only a sample file from a specific platform for reference purposes only. You will need to create your own BOOTP files to work with your system configuration.*

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# Firmware Updates via BOOTP

## Firmware Updates via BOOTP

**Note:** *This process is necessary only if the printer's firmware version is out of date and the process is being automated via BOOTP.*

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Updating the firmware version via BOOTP requires a manual addition to the BOOTP file (bf). The following describes the file format and procedures to accomplish this. Example BOOTP file:

```
! 0 0 0 0
VARIABLE READ
VARIABLE ETHERNET FIRMWARE 195-113-217 V2.17
    /tftpboot/195113.217
VARIABLE WRITE
VARIABLE ETHERNET RESET
END
```

**Note:** *Printer command language syntax requirements do not accept carriage returns or line feeds within a command line. The indented lines in the examples in this section indicate a continuation of the preceding line.*

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The variable ethernet firmware line in the example above specifies that the printer's firmware with part number 195-113-217 should have version 2.17 or higher.

Visit Cognitive's web site, [www.cognitive.com/firmware](http://www.cognitive.com/firmware), for the printer's newest firmware version. In this example, if the currently loaded firmware is older than version 2.17, the system will load the firmware update 195113.217 from directory /tftpboot/ to the printer.

To access the firmware update from a server other than the BOOTP host, add the host IP address at the end of the file path command line, for example:

```
! 0 0 0 0
VARIABLE READ
VARIABLE ETHERNET FIRMWARE 195-113-217 V2.17
    /tftpboot/195113.217 130.10.103.106
VARIABLE WRITE
VARIABLE ETHERNET RESET
END
```

**Important:** *The code only updates if the firmware part numbers match and the revision number listed in the script file, the file referenced on the server, is higher (i.e., newer) than the printer's current version. The part number and firmware versions may change, please check with Cognitive or visit [www.cognitive.com](http://www.cognitive.com) for additional information.*

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The printer checks the code validity after the download and before reprogramming itself.

**Note:** *Consult your operating system documentation for information on specific BOOTP configurations. A BOOTP file may contain other configuration information for your system in addition to the firmware updates.*

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**Note:** *Cognitive's inControl software enables easy configuration via a Windows-based graphic user interface.*

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