



Application note

How to use the Auto-configuration feature

Introduction

This document presents the auto-configuration feature for an INNES platform (DMC200, DMB300, SMA200, and SMT210) through a TFTP server + DHCP server or through a USB dongle.

This feature is used to configure a group of INNES platforms simultaneously. No need to pass by each Web UI. For example it helps you to:

- Define network configuration,
- Configure your Innes displays,
- ...

Auto-configuration principles

Auto-configuration consists in executing a javascript, which can be loaded by 2 means:

- By a TFTP server, associated to DHCP server,
- a USB storage.

The script isn't executed directly after its reception, but integrated in an application extension.

The auto-configuration script can vary depending on the platform; if so its name is «<MAC>.js », where <MAC> is the platform MAC address without any separator, for example "00E04B4124DB.js". This script priority if present on a TFTP server or a USB storage.

The auto-configuration script can be general; if so its name is «000000000000.js». This version is executed only when the specific version isn't present.

The auto-configuration scripts can be integrated in 2 different extensions. You can thus install a general script and then a specific script.

TFTP auto-configuration

To use TFTP auto-configuration, you need a TFTP server (Trivial File Transfert Protocol) and a DHCP server to which TFTP server associated (66 code option).

The network interfaces of INNES media players must be configured to obtain their IP address by DHCP.

The TFTP auto-configuration script downloading operation (specific or general) is realized with a dialog step with the DHCP server (during the platform boot or during a bail renew).

INNES media player configures first its network parameters obtained by DHCP server, and then launches TFTP download. The TFTP server must be on a compatible network with the media player.

Caution: The installation phase can be launched only if the script has never been downloaded before or if its content has been modified since the last download (md5 verification).

USB auto-configuration

The auto-configuration script is copied from the USB storage. The installation phase is always launched, without any verification.

Activation/Deactivation of auto-configuration

Auto-configuration is activated by default.

To deactivate it, you need to modify the following preference:

'innes.app-profile.addon-manager.*.*.authorized' = 'false'



Use of auto-configuration feature

This won't prevent from downloading the script by TFTP, but it won't be executed.

If you re-activate the function, you will need to modify the script so it can be downloaded again by TFTP.

TFTP auto-configuration

Prerequisites

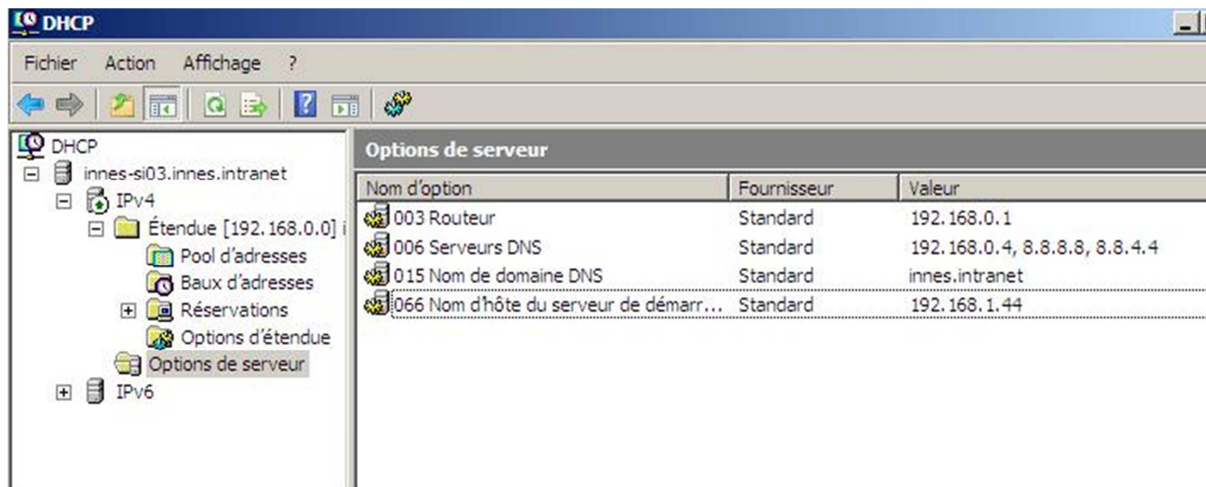
The following conditions must be met:

1. Have an INNES media player of series DM, SM or TM, with a version V3.10.31 minimum; its LAN interface must be configured in DHCP mode,
2. have a DHCP server,
3. have a TFTP server. This TFTP server TFTP must be on a network visible by the media player after DHCP configuration.

DHCP server configuration

The DHCP server must be configured to be associated to TFTP server. For that, you need to use code 66 option (TFTP Server), with a value equal to the IPV4 of TFTP server.

For example, for a Microsoft DHCP server, you need to define the option « starting server host name » and give the IPV4 of the TFTP server (« 192.168.1.44 » in the following example).

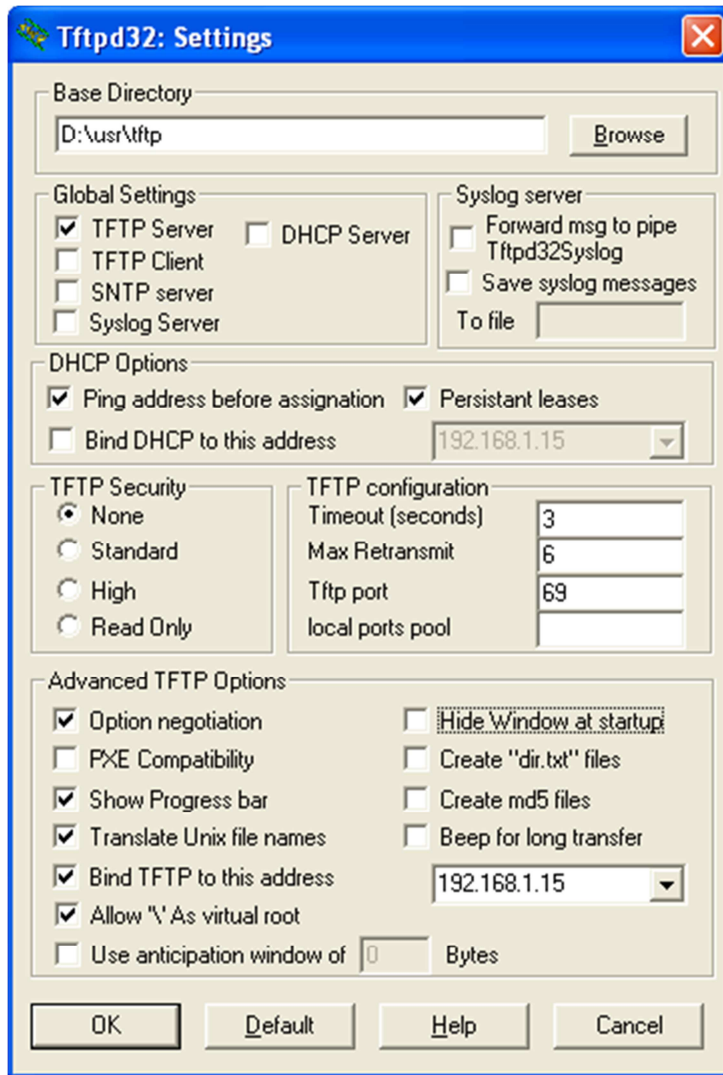


TFTP server configuration

Configuration depends on the software solution used. In all cases, you need to:

- Get the directory visible by TFTP clients, into which the auto-configuration scripts will be put,
- select a not secure connection,
- remain the default port (69).

Here is an example of the tftp32 software under windows:



In this example, the server address is « 192.168.1.15 », and the exported directory is « D:/usr/tftp ».

Implementation

Follow the different steps:

- Configure TFTP and DHCP servers as stated above,
- copy the auto-configuration scripts in the exported directory of the TFTP server,
- media players LAN interfaces configured in DHCP mode,
- restart the media players.

At the media player boot, the auto-configuration script is downloaded. The script will install only if the script has never been downloaded before or if its content has been modified since the previous downloading session.

The script installation phases are

- interruption of the current media content,
- message informing of the stage current installation process,
- display a message to inform that the installation has finished and the media player will reboot,
- media player reboot.

If an error is detected during script execution, a message is displayed during 10 seconds to show the error, and the media content is played again.

USB auto-configuration

Prerequisites

The following conditions must be met:

1. have an INNES media player of series DM, SM or TM, with a version V3.10.31 minimum,
2. a USB storage formatted in FAT32.

Implementation

Follow the different steps:

- copy the auto-configuration scripts on the root folder of the USB storage,
- Connect the USB storage into the media player (the player must be in function).

The script installation phases are:

- interruption of the current media content,
- a message informs you of stage of the current copy,
- a message asking to remove the USB storage,
- a message gives you the status of the current installation process,
- a message informs you that the installation is completed; the media player will reboot.
- Media player reboot.

If an error has been detected during script execution, a message is displayed during 10 seconds showing the error, and the media content is played again.