

GrapeTC Lite Net Boot Guide

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About this guide.

This document describes how to make GrapeTC Lite bootable via HTTP/HTTPS/FTP protocols using bootable USB key.

Important parts of the guide are segregated by **bold** font.

Program code and configuration samples are segregated by *italic* font and gray background.

This guide does not consist descriptions for installation and setting up of third-party products such as DHCP and TFTP servers. Information about syslinux are limited by using it in particular case of GrapeTC Lite installation.

Introduction and product overview.

GrapeTC Lite is an OS image created by Grapecom Ltd. for easy and safe terminal access with many protocols. This is modern, safe and fast operating system which can be used for any x86 PC or thin client station.

In most usual case GrapeTC Lite can be booted from TFTP server using PXE or from internal or external USB or IDE device.

GrapeTC Lite is using syslinux project utilities for booting, so it can be booted from any device which supported by syslinux/pxelinux/isolinux.

In some cases it is useful to boot GrapeTC Lite from HTTP/HTTPS/FTP server and/or keep configuration files on server too.

For this situation we will need in bootable USB key, which can start GrapeTC Lite from server. Of course you can use internal drive (or another bootable device) for booting GrapeTC Lite from server.

Installation geverboot on USB key.

geverboot archive can be found in delivery pack of GrapeTC Lite version 2.1.1 or higher. It named geverboot.zip and can be found in directory geverboot.

For installing geverboot to USB stick (or internal device like DoM or Compact Flash card) you will need in syslinux utility. You can download it from kernel.org site:

<http://www.kernel.org/pub/linux/utils/boot/syslinux/>

The versions for different operating systems are available.

First of all unpack geverboot to your device. It will take ~4Mb.

Then run syslinux program with device name as parameter.

In Linux operating system you must run: `syslinux <device file>`, where <device file> is a path to your device file, for example `syslinux /dev/sdc`.

In Windows operating system you must run `syslinux <disk name>`, where <disk name> is a volume name of your device, for example `syslinux E:`.

Attention! Will be very careful installing syslinux, if you will install it by mistake to your hard drive you will loose all information about your disk partitions!

In some cases you will need force installing, for example if you install geverboot to unremovable device. In this case you can use `-f` flag.

Sometimes you need also force installing syslinux to mbr or make boot partition active (all Intel platform devices require active boot partition). In this cases use `-m -a` flags.

For example if you install GrapeTC Lite on Windows machine to the DoM installed in second IDE slot visible as disk D: and it's planned to boot Intel TC from this DoM, you must run:

```
syslinux -f -m -a D:
```

Configuring geverboot.

For configuring servers for booting GrapeTC Lite from and keeping configuration files on you must open file gconfig.conf on your USB key and set your servers in parameters like in this example:

```
conf='http://user:password@bootserver.lan/grapetclite/'  
boot='http://user:password@configserver.lan/grapetclite/'
```

Booting GrapeTC Lite.

Just boot using your USB key.

Additional information.

Any additional information can be got from documentation of syslinux project.

Its homepage is <http://syslinux.zytor.com/>

Support information.

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