

GrapeTC Lite Installation Guide

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About this guide.

This document describes installation process of GrapeTC Lite operating system.

It consists of step by step instructions for installation GrapeTC Lite to boot it from PXE and instruction how to install it on USB stick.

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.

Installation GrapeTC Lite for PXE booting.

For booting GrapeTC Lite first of all you must set up DHCP and TFTP servers.

DHCP server setup.

There is necessary to set up On DHCP server. You must set up TFTP server address and file name for BOOTP protocol.

If you are using dhcpd server, configuration file part with BOOTP settings will look like in example 1.

Example 1.

```
next-server <tftp server name or address>
```

```
filename pxelinux.0
```

In this example you have to replace *<tftp server name or address>* with your TFTP server FQDN or IP address.

Please see instruction for your DHCP server to set up BOOTP.

TFTP server setup.

TFTP server is very simple internet service and does not need in additional setup. Just unpack GrapeTC Lite archive to the TFTP server root directory. That's all with TFTP server.

After all described steps GrapeTC Lite is ready for booting. Don't forget to change BIOS settings in your GrapeTC Lite device for booting from network.

Installation GrapeTC Lite for booting from USB stick.

For installing GrapeTC Lite 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 GrapeTC Lite to your device.

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 GrapeTC Lite 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.

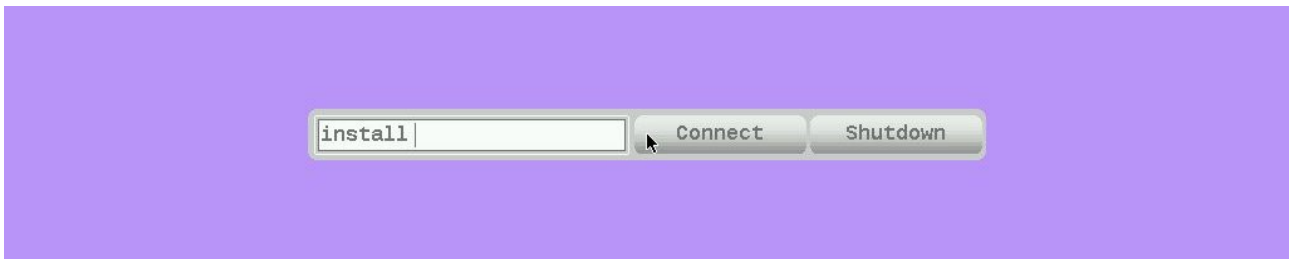
For example if you install GrapeTC Lite on Windows machine to the DoM installed in second IDE slot visible as disk D: and it's planned to boot Intel TC from this DoM, you must run:

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

Attention! The required syslinux version is 3.86. If you used syslinux version 4 you have to format your disk and reinstall GrapeTC Lite using syslinux 3.86.

Installation on USB storage from PXE booted system.

You can install GrapeTC Lite to USB (or other, for example DoM) storage directly from booted image. First of all boot GrapeTC Lite and input "install" in server address request dialog (Picture 1).



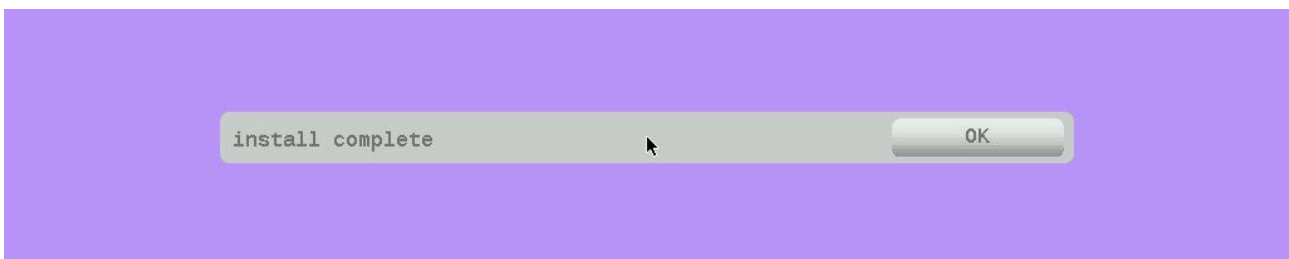
Picture 1: Installation beginnig.

Answer “OK” for formatting disk request (Picture 2) and wait for message of successful installation (Picture 3).

All data on the storage will be destroyed by formatting. Never use this method if you have attached storages with important information!



Picture 2: Formatting request.



Picture 3: Installation complete.

All your current settings, including license information, will be saved to configuration file on the storage.

In case if you cancel formatting install will be done anymore, but it will be successful only if your storage is formatted to FAT and consists of only one partition without MBR. In this case data on storage will not be destroyed.

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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