

# Creating a bootable USB key

## For an iA86 storage array

MPStackware can be used to turn any ia86 based system into a storage Array. A web based tool is available from the MPSTOR website to create a bootable USB key.



*Accelerating development of vertical OEM applications*



## Summary

MPStackware installer is a tool downloaded from the MPSTOR website to create an image on a USB key that can be used to boot an Intel based Storage Array.

### Step 1

Go to the MPSTOR firmware download web page.

The screenshot shows the MPSTOR website's 'Support - Firmware' page. The top navigation bar includes 'Products', 'Solutions', 'Support' (circled in red), 'Partners', 'News', and 'About Us'. The main content area features a 'Support' header with a background image of four people. Below this, a sidebar on the left contains links for 'Downloads', 'Service Request', 'Latest Firmware' (circled in red), and 'Troubleshooting'. The main content area is titled 'Firmware' and contains the following text:

MPStackware for Intel allows any Intel based controller to be configured as a storage controller. A detailed **HOWTO** is available to describe the process of downloading, installing and configuring MPStackware for Intel based systems. The minimum requirements to build an MPStackare enabled storage controller are:

- ia86 based controller/motherboard, equipped with one or more Ethernet ports
- ia86 based controller/motherboard, equipped with a bootable USB or Compact Flash port
- Disk connectivity (can be onboard IO controller or HBA) please see our AVL of approved IO controllers
- Host connection (can be Ethernet (iSCSI), Fibre Channel, SAS or Infiniband Host connection), please see our AVL of approved IO controllers

Please follow these steps to create an MPStackware enabled storage system:

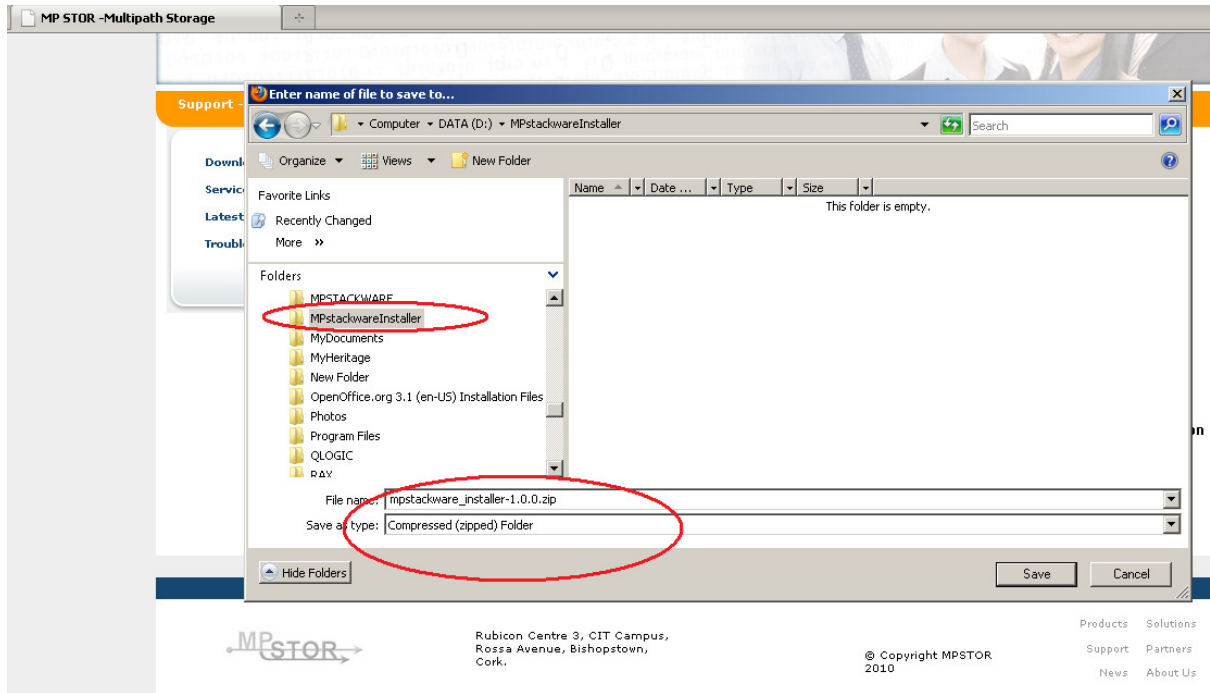
**STEP1 - Download the Package from MPStackware** (circled in red)

**STEP2 - Make a bootable device for your target ia86 based system (Netboot, USB or Compact Flash)**

**STEP 3 - Boot your image on your ia86 target platform and Request a licence file for hardware configuration using the Service Request Form**

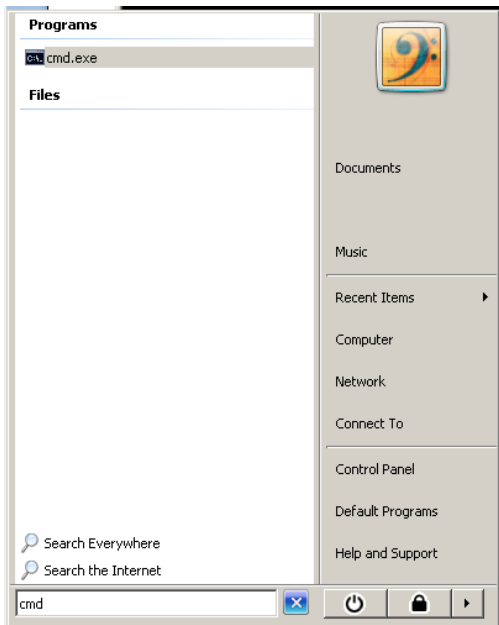
### Step 2

Download the MPStackware Intaller to your system and unzip the file.



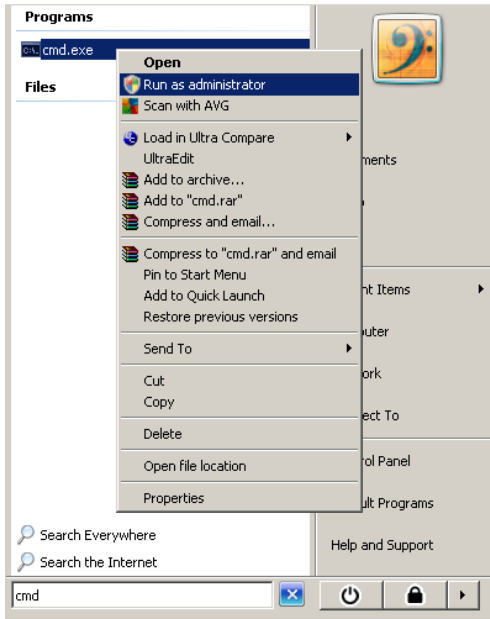
### Step 3

Run windows START and type "cmd" in the command box



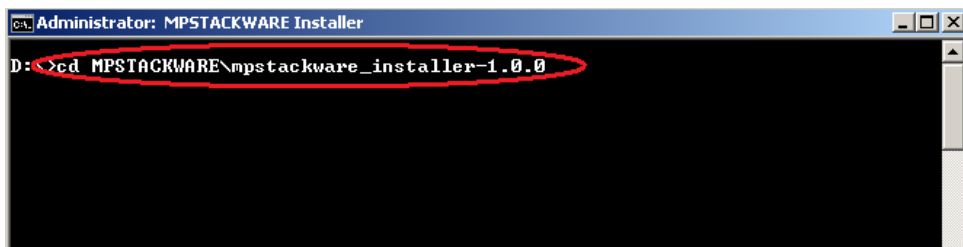
### Step 4

Right click "cmd.exe" under the programs tab and select "Run as administrator"



## Step 5

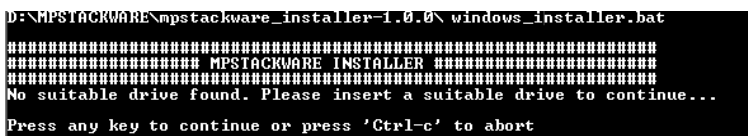
Under DOS use the “cd” command to navigate to your directory where the installer has been unzipped.



## Step 6

Type windows\_installer.bat to run the installer.

⇒ IF NOT USB IS PRESENT the message below is printed.



⇒ Install a USB key and re run windows\_installer.bat

## Step 7

Select the USB key to install software to, shown below the USB key it at logical Disk 0, select this drive and hit <ENTER>



```
##### MPSTACKWARE INSTALLER #####
Please select a disk to install the firmware on:

Disk 0: silicon-power USB Device
Interface type: USB
Size: 1906MB

    Partition 1: Disk #1, Partition #0
    Logical Disk 0: F:
    Partition 2: Disk #1, Partition #1
        No logical disk found on this partition.
    Partition 3: Disk #1, Partition #2
        No logical disk found on this partition.

Please select a disk to install the firmware on: 0_
```

### Step 8

Confirm your choice to continue

```
##### MPSTACKWARE INSTALLER #####
Please select a disk to install the firmware on:

Disk 0: silicon-power USB Device
Interface type: USB
Size: 1906MB

    Partition 1: Disk #1, Partition #0
    Logical Disk 0: F:
    Partition 2: Disk #1, Partition #1
        No logical disk found on this partition.
    Partition 3: Disk #1, Partition #2
        No logical disk found on this partition.

Please select a disk to install the firmware on: 0
You have selected disk 0
Disk 0: silicon-power USB Device

Interface type: USB
Size: 1906MB
Press any key to continue or press 'Ctrl-c' to abort

!!!!!! WARNING !!!!!!!: Proceeding will erase *ALL* data
on the device, do you want to continue?
Type y for yes or n for no: y
Formatting partition... This can take up to three minutes.
```

### Step 9

Wait until the USB key has been formatted and the files copied, when the installation has been completed you will be prompted to remove the USB key from the system.

```
Interface type: USB
Size: 1906MB

Partition 1: Disk #1, Partition #0
Logical Disk 0: F:

Partition 2: Disk #1, Partition #1
No logical disk found on this partition.

Partition 3: Disk #1, Partition #2
No logical disk found on this partition.

Please select a disk to install the firmware on: 0
You have selected disk 0
Disk 0: silicon-power USB Device

Interface type: USB
Size: 1906MB

Press any key to continue or press 'Ctrl-c' to abort

!!!!!!!!!! WARNING !!!!!!!!!!!: Proceeding will erase *ALL* data
on the device, do you want to continue?
Type y for yes or n for no.
Formatting partition. This can take up to three minutes.
Partition formatted, trying to mount partition.
...Partition mounted.
Now copying install files. This can take up to three minutes.
All files copied.
Installing the bootloader on the device now.
Bootloader installation successful.
The installation was successful! Please remove the key from the system.
Press any key to continue . . .
```

## Step 10

Use WINDOWS to remove the USB key from the system and unplug the USB key.

**You can now use the USB key to boot your Storage Array.**

