

Exchange of the Backup Battery in Dell Optiplex PC's

Version: 1.0

Content

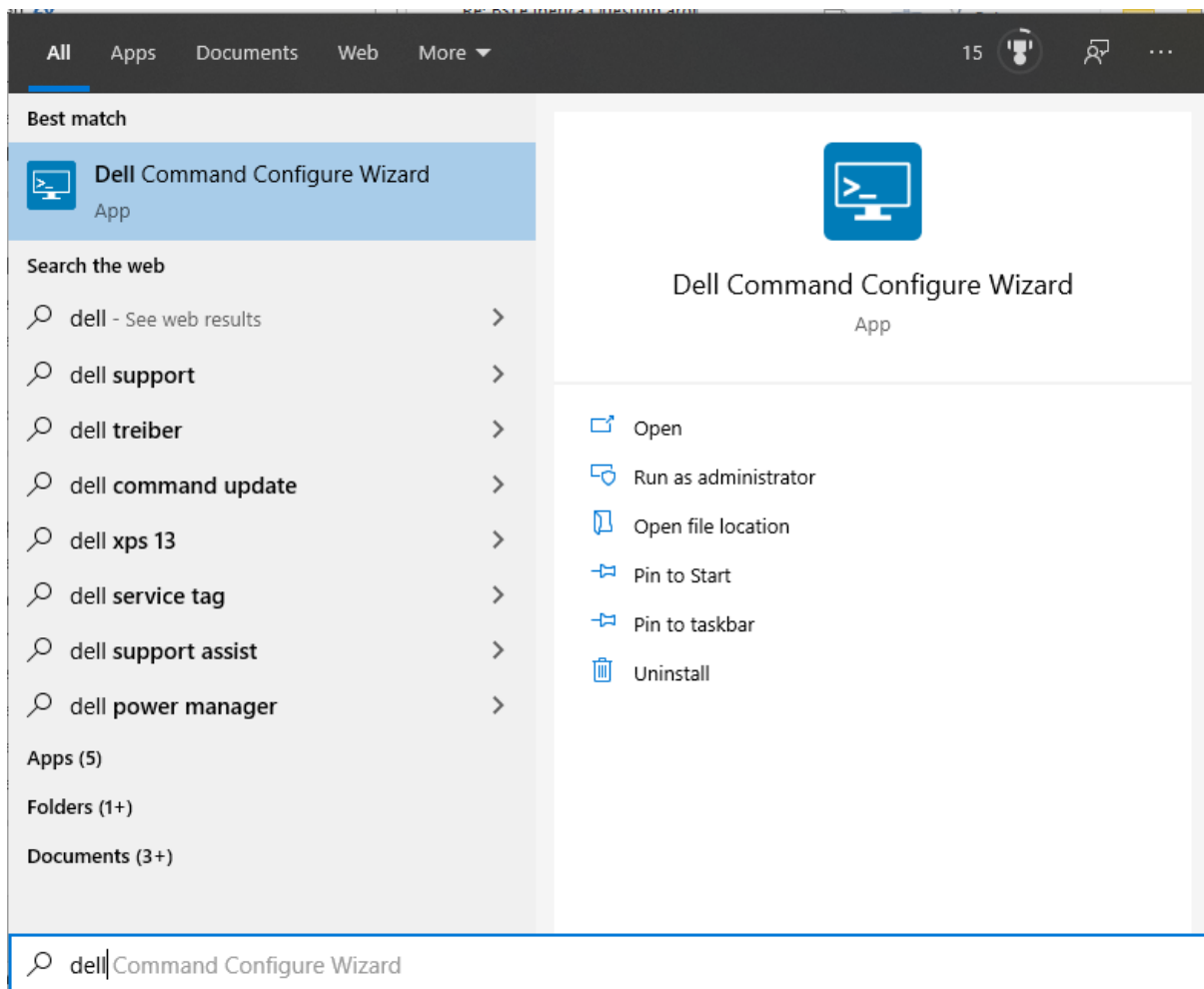
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1 Preparation

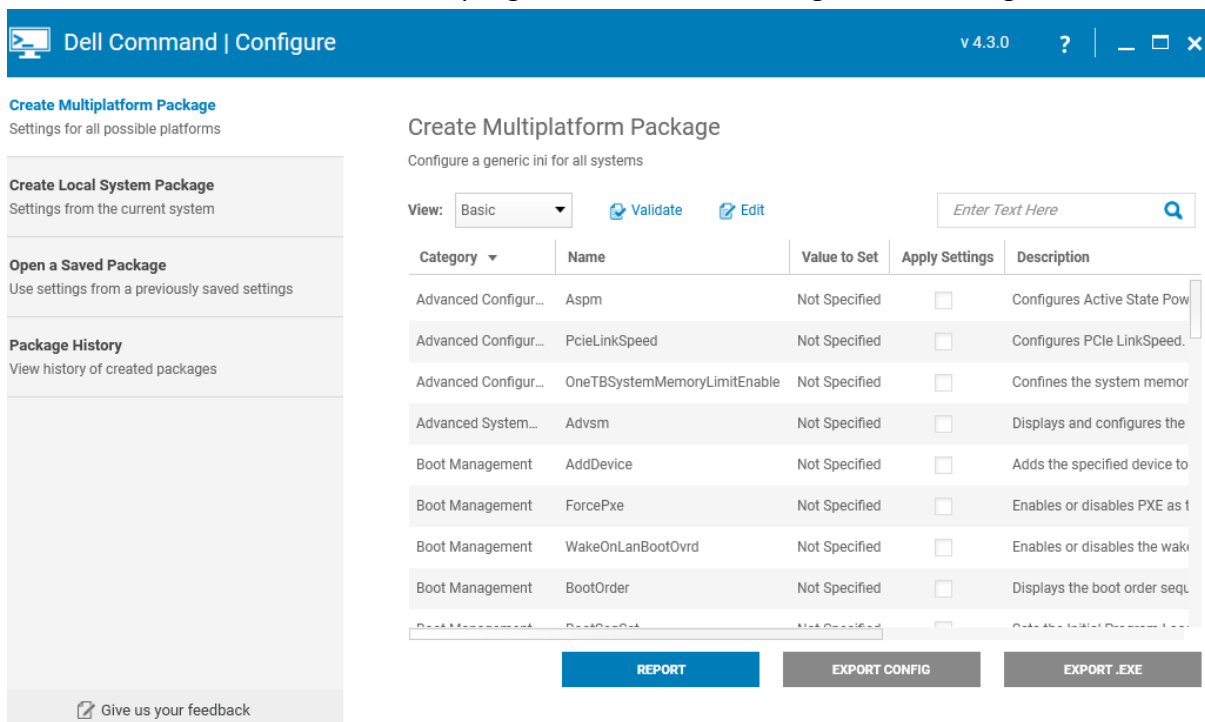
The CMOS-battery on the mainboard of the DELL Optiplex PC's is a battery of type CR2032. When this battery is low and the PC is not powered over AC, it can happen that date and time is lost. In that case the TubeScan software will throw the exception "The system time is invalid", therefore, the battery needs to be changed. We recommend to exchange the CMOS-battery after 3 years, when the customer has a maintenance contract or when a service is done with the system. The battery is available in the most markets.

2 Make a backup of the DELL BIOS Configuration

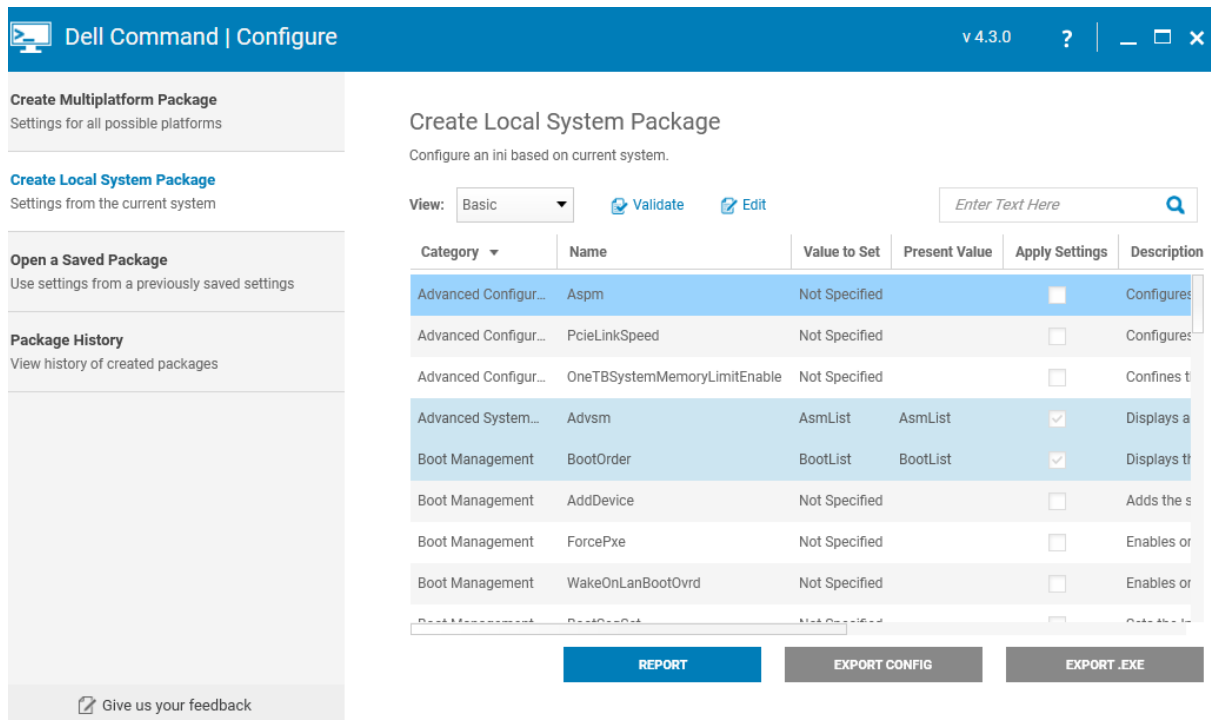
A backup of the BIOS configuration should be done before the battery is exchanged, as it can happen that a part of the BIOS configuration is lost. Use the windows button and type "Dell Command Configure"! In newer PC's this program is already installed. With older PC's there will be a link, where to download from the internet.



Select "Run as administrator". The program will show all configuration settings:



Select "Create Local System Package"

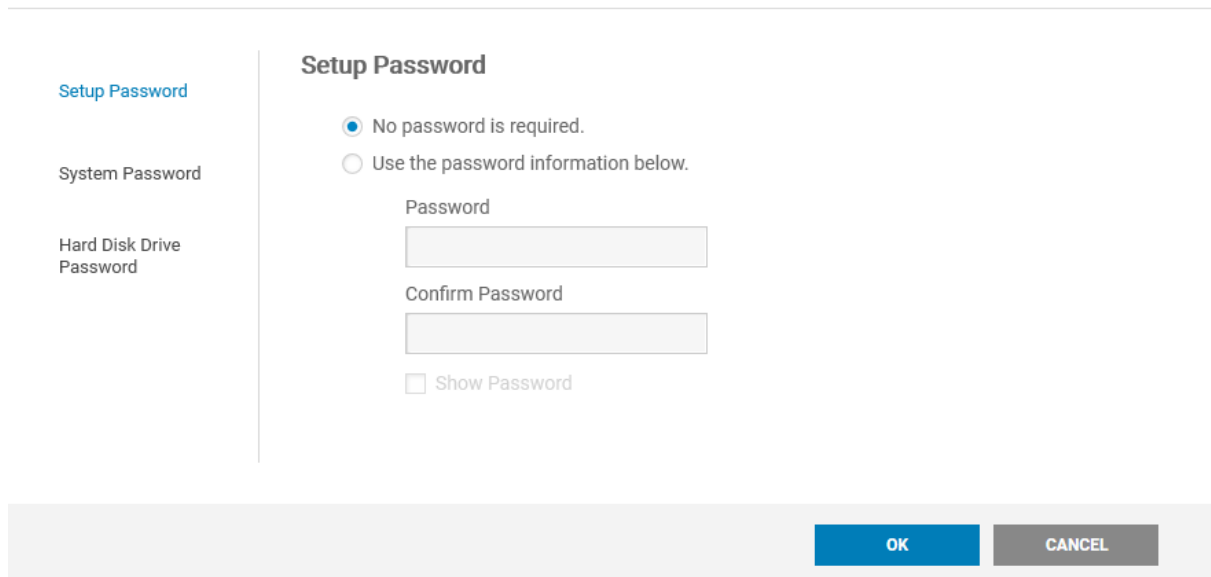


Create a DELL backup folder, select “Report” and save the file in this folder.

Select “Export Config” and save the file in this folder.

Select “Export.exe” and the following window will pop up:

Setup, System or Hard Disk Drive Password



Check “No password is required” and save the file in this folder.

Check that the following files are available now:

Optiplex XXXX_YYYYYYY.ctk

Optiplex XXXX_YYYYYYY.exe

Optiplex XXXX_YYYYYYY.html

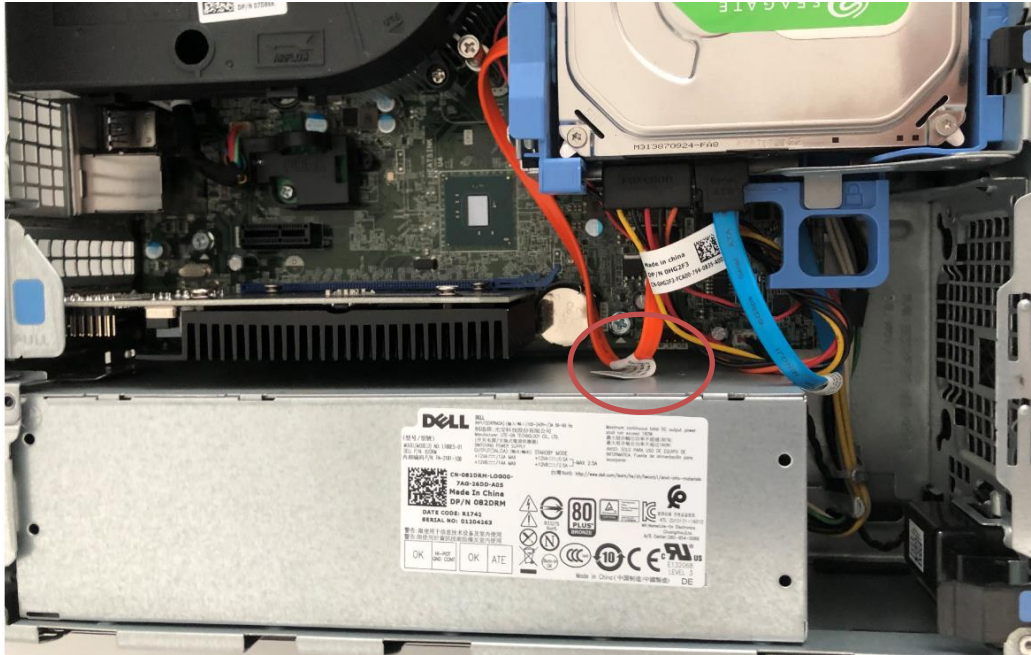
Optiplex XXXX_YYYYYYY.sh

Optiplex XXXX_YYYYYYY_x64.exe

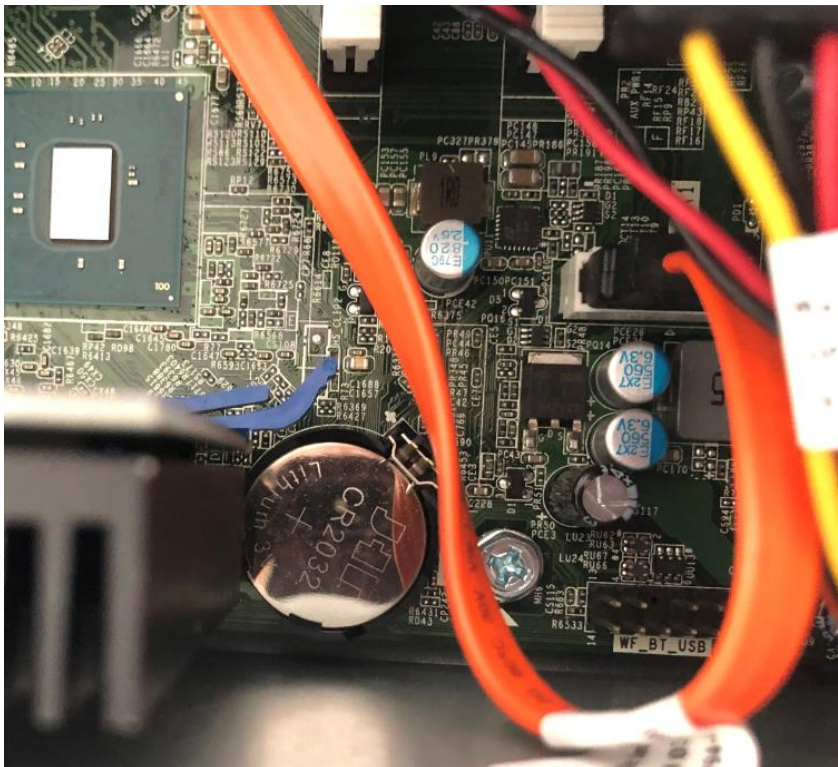
XXXX is the type of your PC, YYYYYYY is the Service Tag, which is labelled on your PC.

3 Exchange the backup battery

Shut down the PC and disconnect it from AC power. Dismount the lid of the PC.



The backup battery is located between HDD and power supply.



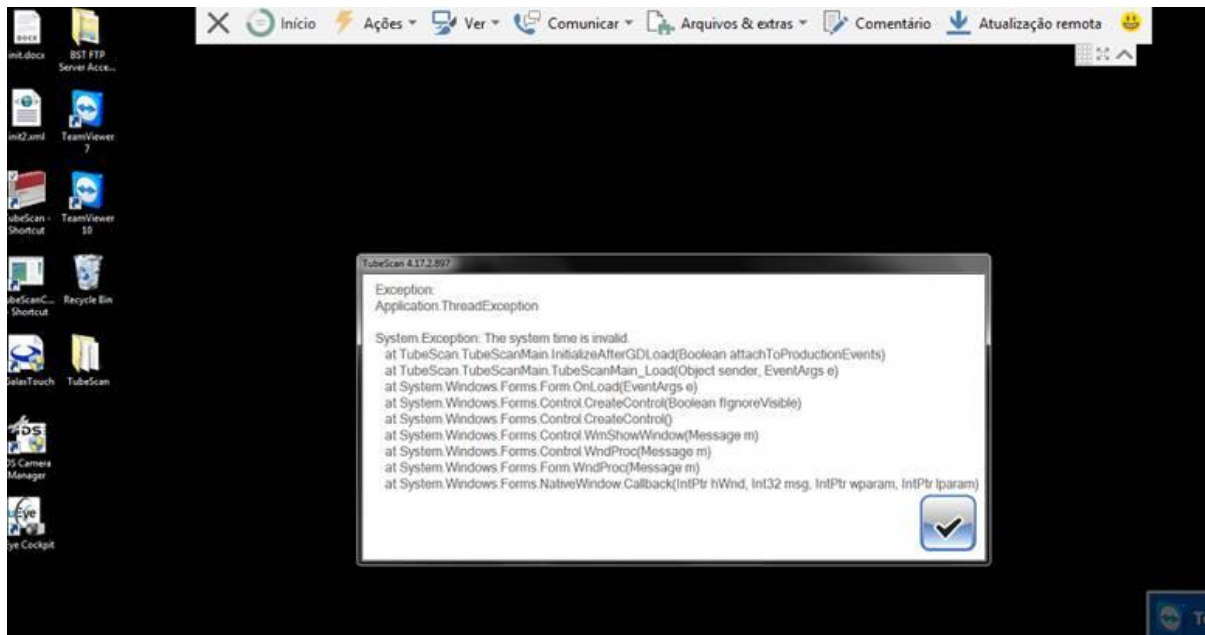
Exchange the battery, close the lid and power the PC again.

4 Restore the DELL BIOS Configuration

Run the file Optiplex XXXX_YYYYYYY_x64.exe!

Adjust date and time!

Start the TubeScan SW, if the TubeScan Software throws the exception "The system time is invalid", then close the SW again.



For TubeScan versions up to v7.2 the parameter "SaveTicks" can be found in SystemSettings.xml under C:\NYCAMConfig (for newer versions, the parameter resides in EnvironmentSettings.xml.), as follows:

```
<SaveTicks type="System.Int64" assembly="mscorlib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" value="635568300747482612" />
```

In newer versions:

```
<SaveTicks value="636952265368084520" />
```

The yellow marked number is the value of an internal timer. Set this value to 0. The SW should start again without exceptions.

5 History

Version	Changes	Autor	Control	Approval
1.0	First revision	Andreas Volz	Stephan Pittino	Stephan Pittino