Customer Service Manual

PCE

Pharma Vision Inspection

Backup & Restore

Document Version B

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METTLER TOLEDO

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1.1.2 PLM Complete without Internal Database

1. PLM must be closed

Create a folder *…**Desktop**Backup_yyyyMMdd*\ where the backup can be stored

2. Log in PLM with administrator rights
3. Follow the steps 1.3.1 to 1.3.5 and 1.3.7 to 1.3.8
4. Log off by choosing the *"Login/logoff"* button and *"Exit to OS"*
5. Copy the folder *…**PCE**Pilot*\ into the created backup folder

1.1.3 PLM Internal Databse Only

1. PLM must be closed
2. Create a folder *…**Desktop**Backup_yyyyMMdd*\ where the backup can be stored
3. Copy the folder *…**PCE**db* into the created backup folder

1.2 Restore Pilot Line Manager up to 4.6

1.2.1 PLM Internal Database Only

1. Be sure to have a backup of the database (derby)
2. PLM must be closed
3. Delete the folder *…\PCE\db\pilot*
4. Copy the folder from …\Desktop\Backup_yyyyMMdd\db\pilot into …\PCE\db\

1.2.2 PLM Complete without internal database

1. Be sure to have a backup of the PLM
2. PLM must be closed
3. Delete all folders and files in folder *…\PCE\Pilot*
4. Copy all folders and files from …\Desktop\Backup_yyyyMMdd\Pilot\ into …\PCE\Pilot\
5. Follow the step 1.2.3

1.2.3 Restore within PLM

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1.3 Backup Pilot Line Manager 4.7 to 4.9

1.3.1 PLC XML Files

1. PLM must run
2. Choose button " *System Setting* "
3. Choose button " Edit Device settings "
4. Select folder " *PLC* "
5. Scroll down and choose the button " *Import/Export* "
6. Choose button " Export all settings " and " Export parameters " and " Export messages " and " Export counters " and " Export teach parameters"
7. The files are stored in *…\PCE\Pilot\distribution\PLC* (5 different files with different names *plc_plcname_ exportname.xml)*

1.3.2 PLC Configuration

1. PLM must run
2. Choose button " *System Setting* "
3. Choose button " Edit Device settings "
4. Select folder " *PLC* "
5. Scroll down and choose button " *Teach* "
6. Choose button " Read "
7. Take screenshots for all pages of PLC configuration (see PLM manual 6.3.2.1, Taking screenshots)
8. Save all screenshots into …\PCE\Pilot\distribution\PLC

1.3.3 PLM System Settings and System Information

1. PLM must run
2. Choose button " *System settings* "
3. Choose button " *System information* "
4. Select folder " *Systeminformation* "
5. Choose button " *Save* "
6. The file is stored in *…\PCE\Pilot\log* (file name *system_info.log*)

1.3.4 PLM Second Signature

1. PLM must run
2. Choose button " *System settings* "
3. Choose button " Second signature action configuration "
4. Choose button " *Export* "
5. The file is stored in …\PCE\Pilot\distribution\setup\

(file name yyyyMMdd_time_SecondSignature_Messages.xml)

1.3.5 PLM Month Name List

1. PLM must run
2. Choose button " *System settings* "
3. Choose button " Edit month name list "
4. Choose button " *Export* "
5. The file is stored in …\PCE\Pilot\distribution\setup\

(file name yyyyMMdd_time_MonthNameList.xml)

1.3.6 PLM Log File

1. PLM must run
2. Choose button " *Log File Management* " (need sometimes until 1 minute to load)
3. Choose button " *Print* " (need sometimes until 1 minute to proceed)
4. A new window " Report Settings " will appear. Select the report template design and then " OK "
5. The file is stored in *…\PCE\Pilot\log* (file name *plm.log*)

1.3.7 PLM Log File into Another Format

1. PLM must run
2. Choose button *" Backup "*
3. Choose button" Backup Log file "
4. A new window " Back Up Logfile " will appear. Select the backup details (e.g. format PDF) and then button " *backup* "
5. Store the file plm.log into *…**PCE**Pilot*\

1.3.8 PLM Camera Formats

1. PLM must run
2. Choose button *" Backup "*
3. Choose button" Backup Camera Formats "
4. A new window " *Backup Camera Formats* " appear. Select cameras and choose button " *Backup* "
5. For each camera a folder is created and stored in *…**PCE**Pilot**database**backup_yyyy_MM_dd_time*\ (file name *cam-IPadress.zip*)

1.3.9 PLM Line Formats

1. PLM must run
2. Choose button " Production "
3. Choose button" Add/Edit line format "
4. Select a line format and choose button " *PDF Report* "
5. A new window " *Report settings* " appear. Select report template design and choose button " *OK* "
6. The file is stored in *…**PCE**Pilot**pdf*\

(file name lineformatname_lineformat_report_yyyyMMdd_time)

1.3.10 PLM Internal Database Only

1. PLM must be closed
2. Create a folder *…**Desktop**Backup_yyyyMMdd**Pilot*\ where the backup can be stored
3. Copy the folder *…**PCE**Pilot**database* into the created backup folder

1.3.11 PLM Complete with Internal Databse

1. PLM must be closed
2. Create a path *…**Desktop**Backup_yyyyMMdd*\ where the backup can be stored
3. Log in PLM with administrator rights
4. Follow the steps 1.3.1 to 1.3.4 and 1.3.7 to 1.3.8
6. Log off by choosing the *"Login/logoff"* button and *"Exit to OS"*
7. Copy the folder *…**PCE**Pilot*\ into the created backup folder

1.4 Restore Pilot Line Manager 4.7 to 4.9

1.4.1 PLM Internal Database Only

1. Be sure to have a backup of the database h2
2. PLM must be closed
3. Delete all folders and files in *…\PCE\Pilot\database*
4. Copy all folders and files of the backup folder …\Desktop\Backup_yyyyMMdd\Pilot\database\ into …\PCE\Pilot\database

1.4.2 PLM Complete with Internal Database

1. Be sure to have a backup of the complete PLM
2. PLM must be closed
3. Delete all folders and files in folder *…\PCE\Pilot*
4. Copy all folders and files of the backup folder *…\Desktop\Backup_yyyyMMdd\Pilot* into …\PCE\Pilot\
5. Follow the steps 1.4.3 to 1.4.6

1.4.3 PLC XML Files

1. PLM must run
2. Choose button " *System Setting* "
3. Choose button " Edit Device settings "
4. Select folder " *PLC* "
5. Scroll down and choose " *Import/Export* "
6. Choose one after another the buttons " *Import all* settings " and " *Import parameters* " and " *Import messages* " and " *Import counters* " and " *Import teach parameters* "
7. A new window appear. Select the path *…\Desktop\Backup_yyyyMMdd\Pilot*distribution\PLC\ and select the right backup file *plc_plcname_ exportname.xml* and choose button " *open* "

1.4.4 PLC Configuration

1. PLM must run
2. Choose button " *System Setting* "
3. Choose button " Edit Device settings "
4. Select folder " *PLC* "
5. Scroll down and choose button " *Teach* "
6. Choose button " Read "
7. Use the screenshots in *…\PCE\Pilot\distribution\PLC* to fill in the configurations
8. Choose the button " Write "

1.4.5 PLM Second Signature

1. PLM must run
2. Choose button " *System settings* "
3. Choose button " Second signature action configuration "
4. Choose button " *Import* "
6. A new window appear. Select the path *…\Desktop\Backup_yyyyMMdd\Pilot*distribution\setup\ and select the backup file *yyyyMMdd_time_SecondSignature_Messages.xml* and choose the button " *open* "

1.4.6 PLM Month Name List

1. PLM must run
2. Choose button " *System settings* "
3. Choose button " Edit month name list "
4. Choose button " *Import* "
5. A new window appears. Select the path …\Desktop\Backup_yyyyMMdd\Pilot\distribution\setup\ and select the backup file yyyyMMdd_time_MonthNameList.xml and choose button " open "

2 Smart Camera

Requirements:

1. Connect a keyboard and a mouse to IPC

2.1 Backup Camera Formats Only with PLM

1. See step 1.3.8 in section Backup Pilot Line Manager 4.7 to 4.9

2.2 Full Backup

1. PLM must be closed
2. Create a folder in …\PCE\Pilot\distribution\JDatatrans
3. Start *JDataTrans* (Icon on Desktop)
4. Confirm or enter the IP-Address of the camera. You will find the IP address of the camera in your documents (e.g. wiring diagram) and on the label on the camera. In the right window (*File Explorer*) you will then see a list of files concerning the camera
5. Stop the camera software by choosing the button " *esc+Q* ". The frame (command line) under the button *esc+Q* will turn to *green*
6. Choose the button " *Backup* "
7. Select the path …\PCE\Pilot\distribution\JDatatrans
8. Create a new folder " *CAM_IPaddress* " and choose button " *open* "
9. Choose the button " *open* " again
10. The backup will be stored in the selected path with folder name *CamBack-yyyy-MM-dd time*
11. Enter the command line
    HINT: To set the camera memory to an optimal state, fill in " *pk* " and " *Enter* " for Packing Flash (need sometimes up to 1 minute to proceed)
12. If software OCR6 (Code and Optical Character Inspection) installed, fill in " *OCR6* " and " *Enter* " to start the software
13. If software OSR6 (Optical Shift Register) installed, fill in " *OSR6* " and " *Enter* " to start the software
14. If software PC6 (Product Control) installed, fill in " *PC6* " and " *Enter* " to start the software
15. If software PDF6C (PDF Code Reader) installed, fill in " *PDF6* " and " *Enter* " to start the software
16. If software CPC6 (Colour Product Control) installed, fill in " *CPC6* " and " *Enter* " to start the software
17. If software CBI6 (Colour Blister Inspection) installed, fill in " *CBI6* " and " *Enter* " to start the software
18. The software is started if the frame turns to *yellow*
19. End JDataTrans

2.3 Restore

1. PLM must be closed
2. Start JDataTrans (Icon on Desktop)
3. Confirm or enter the IP-Address of the camera. You will find the IP address of the camera in your documents (e.g. wiring diagram) and on the label on the camera. In the right window (File Explorer) you will then see a list of files concerning the camera.
4. Stop the camera software with choosing the button " *esc+Q* ". The frame (command line) under the button *esc+Q* will turn to *green*
5. Choose the button " *Upload* ", a new window appears
6. Select the path …\PCE\Pilot\distribution\JDatatrans\
7. Select the backup file CamBack - YYYY-MM-DD time
8. Choose the button " open ". Allow approximately 10 minutes for the restore procedure
9. Enter the command line
    HINT: To set the camera memory to an optimal state, fill in " *pk* " and " *Enter* " for Packing Flash (need sometimes until 1 minute to proceed)
10. If software OCR6 (Code and Optical Character Inspection) installed, fill in " *OCR6* " and " *Enter* " to start the software
11. If software OSR6 (Optical Shift Register) installed, fill in " *OSR6* " and " *Enter* " to start the software
12. If software PC6 (Product Control) installed, fill in " *PC6* " and " *Enter* " to start the software
13. If software PDF6C (PDF Code Reader) installed, fill in " *PDF6* " and " *Enter* " to start the software
14. If software CPC6 (Colour Product Control) installed, fill in " *CPC6* " and " *Enter* " to start the software
15. If software CBI6 (Colour Blister Inspection) installed, fill in " *CBI6* " and " *Enter* " to start the software
16. The software is started if the frame turn to *yellow*
17. End JDataTrans

18. Enter the ID-Code if necessary

    Hint: If the restore is from a different camera, you are asked to enter an ID-Code. You get the ID-Code by calling PCE

3 PLC S7-1200

Requirements:

1. Siemens SD card with PLC program (available at PCE only)
2. SD Card Reader

3.1 PLC Backup

1. Create a folder …\Desktop\Backup_yyyyMMdd\Pilot\distribution\PLC\
2. Copy all folders and files from the SD Card into the backup folder

3.2 PLC Restore

1. Switch off *PLC*
2. Slot the SD memory card into the memory card slot of the PLC
3. Switch on the PLC
   A flashing sequence between the *RUN/STOP, ERROR* and *MAINT LEDs* indicates that the program is currently being transferred to the controller. The end of the transfer is indicated by the *RUN/STOP LED* lighting *orange* and the *MAINT LED* flashing at the same time.
4. Switch off the S7-1200 CPU and remove the SD memory card from the slot
5. Switch on the S7-1200 CPU
   The application starts up automatically *RUN/STOP LED* lights green

   Note:
   This process deletes all the data on the S7-1200 CPU and overwrites it with the contents of the memory card. The program on the memory card must always contain the complete S7-1200 application (device configuration and all the blocks). Even if you only want to update a modified block, all the blocks must still be on the memory card.

4 PLC S7-200

Requirements:

1. Step7 MicroWin Manager (Version 4.0 or higher)
2. Basis for the backup is the file "*.mwp " created at the programming
3. Connection of PLC with notebook

4.1 PLC Backup

1. Open the file " **.mwp* " with *Step 7 Manager*
2. Choose " status table "
3. Choose *" ANWENDER 1 "*
4. Choose *" Single Read "* (symbol glasses) to read the data from the CPU
5. Print data as *PDF* file
6. Choose the sheet *" Fehler_aus "* and read the data (symbol glasses)
7. Print data as *PDF* file. Note the version number of the machine on the printed documents
8. Copy the *.mwp and the PDF file into the folder *…\PCE\Pilot\distribution\PLC*

4.2 PLC Restore

4.2.1 Only Data

1. Switch the PLC to *" Stop "*
2. Select the path …\PCE\Pilot\distribution\PLC\
3. Open the file " **.mwp* " with *Step 7 Manager*
4. Transfer the *programming module* and the *system module* into the PLC
5. Switch the PLC to " *Run* "

4.2.2 Complete

1. Switch the PLC to *" Stop "*
2. Open the file " **.mwp* " with Step 7 Manager
3. Transfer all modules (programming module, data module, system data module) into the PLC
4. Enter all data from the stored PDF files *ANWENDER1* and *Fehler_aus* into the fields
   " Neuer Wert *"*
5. Enter all data and set the bit *" M_Store_to_EEPROM "* to *" 1 "*
   The data will be written to the EEPROM after the next start of the PLC
6. Choose the table *" Fehler_aus "*
7. Enter all data from the stored PDF file
8. Switch the PLC to " *Run* "

5 IPC

Requirements:

1. Connected keyboard and mouse on IPC
2. Acronis True Image on external hard drive
3. For Raid Systems you need Acronis True Image 2013 or higher

5.1 Backup

1. Turn off the IPC
2. Connect the keyboard, mouse and external hard drive to the USB port at the IPC
3. Turn on the machine
4. Choose " Acronis True Image Home "
5. Select " *Backup* "
6. Choose " Disk Backup – Disk and Partition Backup "
7. Choose " *Disk 1* " and choose " *Next* "
8. Choose " Create new Backup archive "
9. Enter the *path* and the *name* for the backup (**.tib*) and press " *Next* "
10. Choose " *Proceed* "

5.2 Restore

1. Turn off the machine
2. Connect the keyboard, mouse and external hard drive to the USB port at the IPC
3. Turn on the machine
4. Choose " Acronis True Image Home "
5. Choose " *Recover* "
6. Choose " Browse for backup "
7. Select the *path* with the stored backup and press " *OK* "
8. Select the *backup* (**.tib*) and choose with the right mouse button " *Recovery* "
9. Choose " Recover whole disk and partitions " and press " Next "
10. Choose " *Drive 1* " and press " *Next* "
11. Confirm that all files on the target drive will be deleted before the recovery starts
12. Select " *Disk 1* " and press " *Next* "
13. Choose " *Proceed* " to start the recovery procedure
14. After a successful recovery press " *OK* "
15. Disconnect the hard drive from the IPC
16. Close the window. The DMS restarts

6 Printer Wolke

Requirements:

1. Connected keyboard and mouse on IPC

6.1 Backup Labels

2. PLM must be closed
3. Create a folder into *…\PCE\Pilot\distribution\Wolke\Labels* where the backup can be stored
4. Start *Wolke Ethernet Manager* (Icon on desktop) with administrator rights
5. Choose the button " *Connect* "
6. Select the path*…\PCE\Pilot\distribution\Wolke\Labels,* in the left down window for the backup
7. Mark the labels which should be stored in the upper window
8. Copy the marked labels with drag and drop to the selected backup path
9. Choose the button " *Disconnect* "
10. Close Wolke Ethernet Manager

6.2 Restore Labels

1. PLM must be closed
2. Start *Wolke Ethernet Manager* (Icon on desktop) with administrator rights
3. Choose the button " *Connect* " to connect the printer
4. Select the path *…\PCE\Pilot\distribution\Wolke\Labels,* in the left down window where the backup is stored
5. Mark the labels which should be restore in the lower window
6. Copy the marked labels with drag and drop to the upper window
7. Choose the button " *Disconnect* "
8. Close Wolke Ethernet Manager

6.3 Backup System Settings

1. PLM must be closed
2. Create a folder …\PCE\Pilot\distribution\Wolke\System
3. Start *Wolke Ethernet Manager* (Icon on desktop) with administrator rights
4. Choose the button " *Connect* " to connect the printer
5. Choose the button " Install, Installation Settings "
6. Choose the button " *m600 > PC* "
7. Enter a file name (Linename_yyyyMMdd)

The file will be stored on the IPC under …\Programme\Wolke\m600 Ethernet Manager\System Properties

8. Choose the button " *Disconnect* "
9. Close Wolke Ethernet Manager

Copy the stored backup file into…\Programme\Wolke\m600 Ethernet Manager\System

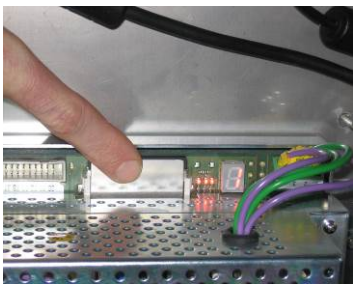
6.4 Restore System Settings

1. PLM must be closed
2. Start *Wolke Ethernet Manager* (Icon on desktop) with administrator rights
3. Choose the button " *Connect* " to connect the printer
4. Choose " Installation Settings "
   Choose " User-defined Directory " and select the path …\Programme\Wolke\m600 Ethernet Manager\System
5. Choose the button " *PC > m600* "
6. Choose the button " *Disconnect* "
7. Close Wolke Ethernet Manager

7 Printer Domino G300

Requirements:

1. Flash Card of the printer
2. Flash Card reader
3. Connected keyboard and mouse on IPC



7.1 Backup

1. PLM must be closed
2. Create a folder into *…\PCE\Pilot\distribution\Domino* where the backup can be stored
3. Turn off the machine
4. Pull out the Flash Card of the Printer
5. Copy all data of the card into create folder *…\PCE\Pilot\distribution\Domino*
6. Put the Flash Card back into the printer

7.2 Restore

1. PLM must be closed
2. Turn off the machine
3. Pull out the Flash Card of the Printer
4. Select the path …\PCE\Pilot\distribution\Domino
5. Select all files and copy all files onto the Flash Card
6. Put the Flash Card back into the printer

8 RFID Reader/Writer - Feig

Requirements:

1. Software ID ISOStart2012 from Feig
2. Connected keyboard and mouse on IPC

8.1 Backup

1. Create a folder *…\PCE\Pilot\distribution\RFID* where the backup can be stored
2. Open program " *ID ISOStart2012* "
3. Enter correct IP address
4. Choose " *Detect* "
5. Select " Run without change "
6. Choose button " *Configuration* "
7. Mark " Complete Configuration " and choose " Read "
8. Select " Save "and enter name for RFID backup file and select path …\PCE\Pilot\distribution\RFID\

8.2 Restore

1. Open program " *ID ISOStart2012* "
2. Enter correct IP address
3. Choose " Detect "
4. Select " Run without change "
5. Choose button Select " *Open* "
6. Select path *…\PCE\Pilot\distribution\RFID* and RFID backup file
7. Choose button " *Open* "
8. Choose button " *Configuration* "
9. Mark " Complete Configuration " and choose " Apply "

9 VGL 7/8

Requirements:

1. Software @CHIPTOOL from Beck IPC GmbH
2. Connect a keyboard and a mouse to IPC

9.1 Backup

1. Create a folder for each VGL into *…\PCE\Pilot\distribution\VGL7_IPaddress* or *VGL8_IP-address* where the backup can be stored
2. Open program " *@CHIPTOOL* "
3. The program scans automatically if comparators are available and then displays all comparators found
4. With right click, select *VGL7* or *VGL8*
5. Select " *FTP* "
6. A connecting window opens. The IP address of selected comparator is automatically shown in Target-IP field
7. Enter " *ftp* " in User field and password field
8. Choose button " *Connect* ". Connecting window will close and *@CHIPTOOL* FTP-Client window is opened. On the right side, you can find the comparator content. On the left side is displayed the local folder structure
9. Select the backup path …\PCE\Pilot\distribution\VGL7_IPaddress or VGL8_IPadress) on the left side
10. Drag complete comparator content (**.txt, *.bat, *.ini, *.exe*) on the right side to the desired path on the left side
11. Choose button " *disconnect* "

9.2 Restore

1. Open program " *@CHIPTOOL* "
2. The program scans automatically if comparators are available and then displays all comparators found
3. With right click, select *VGL7* or *VGL8*
4. Select " *FTP* "
5. A connecting window opens. The IP address of selected comparator is automatically shown in Target-IP field
6. Enter " *ftp* " in User field and password field
7. Choose button " *Connect* ". Connecting window is closed *@CHIPTOOL* FTP-Client window is opened. On the right side, you can find the comparator content. On the left side is displayed the local folder structure
8. Select the path …\PCE\Pilot\distribution\\VGL7_IPaddressor or VGL8_IPadress)
9. Select all files (**.txt, *.bat, *.ini, *.exe*) on the left side and drag these on the right side (comperator)
10. Choose button " *Disconnect* "

10 HRC CORE

Applicable for:

- HRC AI-CORE
- HRC LI-CORE
- HRC 360-CORE

10.1 Backup System Information

1. HRC CORE must run
2. Log in HRC CORE with administrator rights
3. Choose the button " *Reports* "
4. Choose the button " *Export* "
5. Select the path C:\Printinspection\
6. Choose the button " *OK* "

A file (*Systeminformation.txt*) will be stored

10.2 Backup HRC CORE

1. HRC CORE must run
2. Log in HRC CORE with administrator rights
3. Choose the button " *Management* "
4. Choose the button " *Additional Option* "
5. Choose the button " *Create backup* "
6. Choose the button " *OK* "

A new folder for the backup will be created
(*C:\Backup_Printinspection\yyyy_MM_dd_(h;min)_Verison_BackupPrintinspection*)

10.3 Restore HRC CORE

1. HRC CORE must be closed
2. Copy *C:\Backup_Printinspection\yyyy_MM_dd_(h;min)_Verison_BackupPrintinspection to C:*
3. Rename C:*yyyy_MM_dd_(h;min)_Verison_BackupPrintinspection to C:\Printinspection*

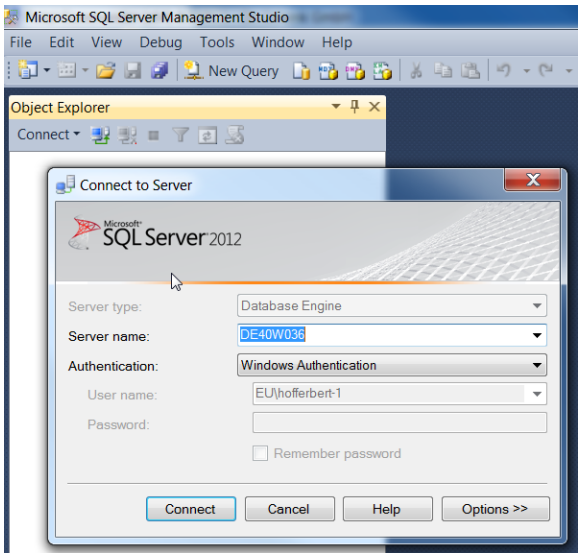
11 MSSQL Server Database

Requirements:

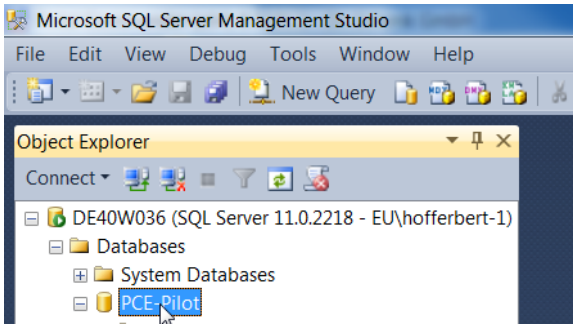
1. Pilot Suite Database on Microsoft SQL Server 2008 or 2012
2. Microsoft SQL Server Management Studio
3. Connect a keyboard and a mouse to IPC
4. Access to the database

11.1 Backup Database MSSQL

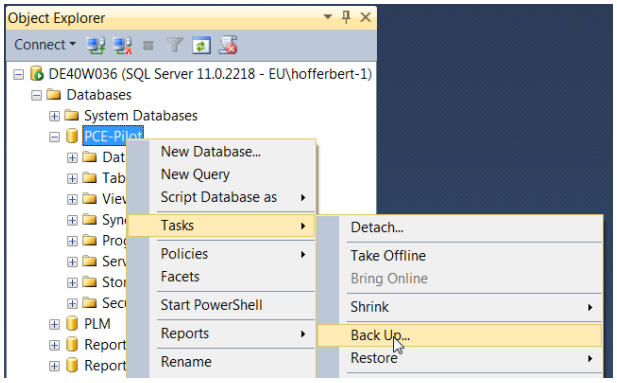
1. Open Mircrosoft SQL Server Management Studio
2. Select the Server name and choose "Connect"



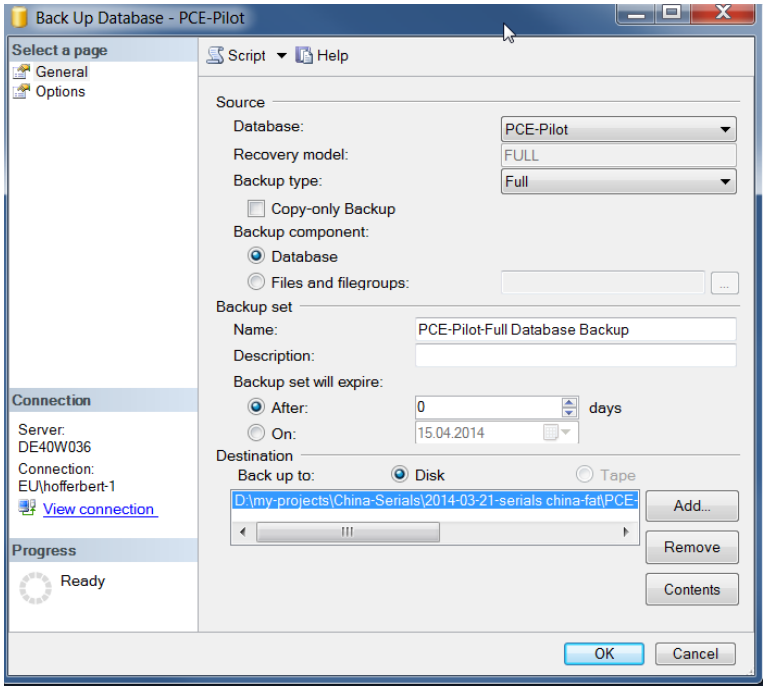
3. Select the database which should be backed up



4. Right Click onto the database in the tree view and select the context menu entry Tasks – Backup



5. Set the backup options:
   - Backup type *Full*
   - Backup component *Database*
   - Select a path where the backup should be stored
   - Remove all other path



6. Choose the button " OK ". The backup will be saved to a file in the destination folder.

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