

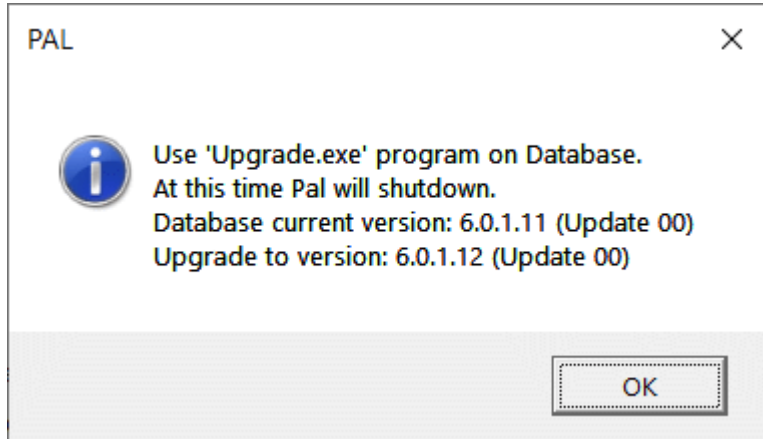
Upgrade Help Index

About:

This help file describes the information how to upgrade the config.mdb file from an older revision to a newer revision in a E-Series Automation System.

Introduction:

Adding new features and enhancing the existing ones sometimes requires a design change in the system databases. If a database is incompatible with the system software (IOServer.exe, Pal.exe or CamClient.exe) the system will ask for upgrading the database. For upgrading the system database 'config.mdb' with of use the utility upgrade.exe.



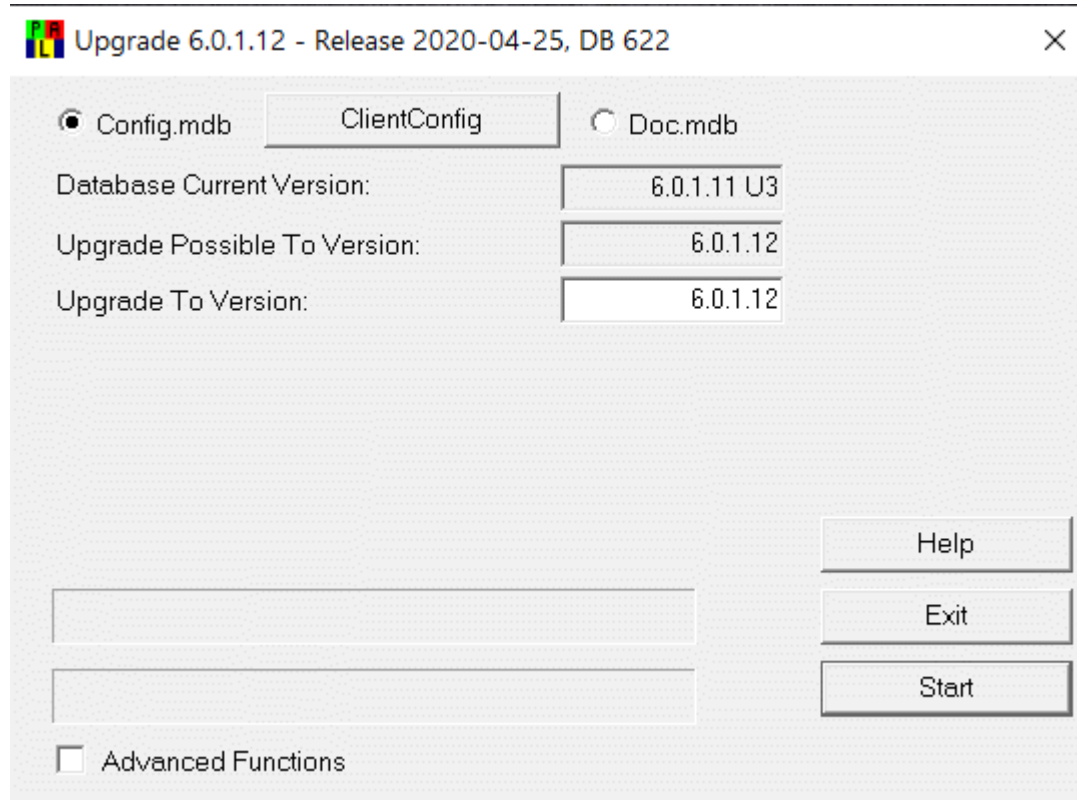
The databases are according the Microsoft Access format, and does support East Asiatic Languages. The format is suitable for these type of languages based on the Unicode standard text definition.

How To ...

1. [How to Upgrade a Database File](#)
2. [How to Use Advanced Functions](#)
3. [How to Use Client Config Button](#)

Upgrade Database File

Use this command to upgrade a database file.



Upgrade 6.0.1.12 - Release 2020-04-25, DB 622

☒ Config.mdb ☐ Doc.mdb

ClientConfig

Database Current Version: 6.0.1.11 U3

Upgrade Possible To Version: 6.0.1.12

Upgrade To Version: 6.0.1.12

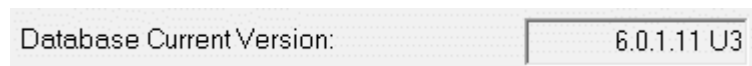
Advanced Functions

Help

Exit

Start

It shows the current version of database.



Database Current Version: 6.0.1.11 U3

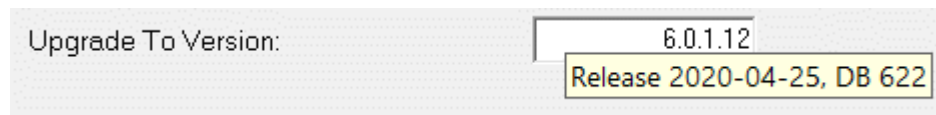
First select which file is wanted to be upgraded: default (Config.mdb)



☒ Config.mdb ☐ Doc.mdb

ClientConfig

Enter Release version number you like to upgrade to: default (last version)
picture is shown with ToolTip



Upgrade To Version: 6.0.1.12

Release 2020-04-25, DB 622

It's highly recommended that you always upgrade to the latest version of system, because this is needed for a correct working run-time system.

Press 'Start' button to begin upgrade process.

When it is finished the current database version becomes the latest database version.

☒ Config.mdb ClientConfig ☐ Doc.mdb

Database Current Version: 6.0.1.12

Upgrade Possible To Version: 6.0.1.12

Upgrade To Version: 6.0.1.12

Help

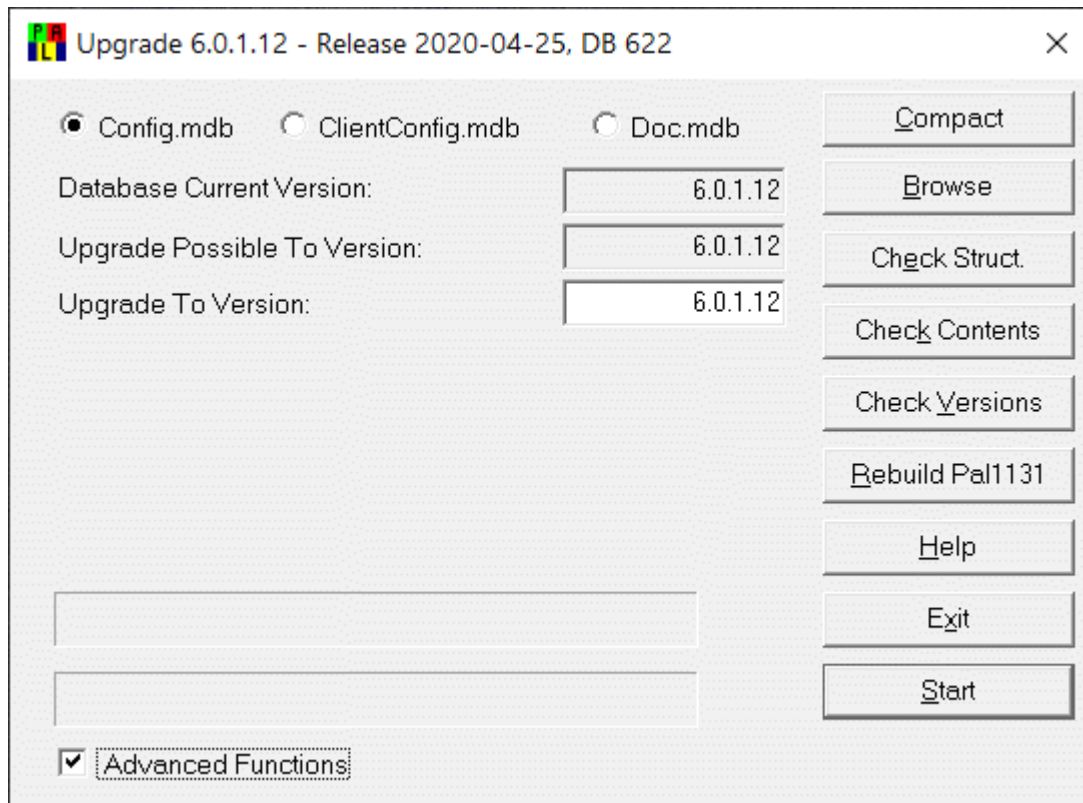
Exit

Start

☐ Advanced Functions

Advanced Functions

After marking checkbox "Advanced Functions" new buttons are shown



The following options allow you to improve or examine your current database file.

Compact

Performs a compact function on your database.

For more detailed information see [Compact \(Advanced Functions\)](#).

Check Struct

Check the internal structure of the tables in Config.mdb file.

For more detailed information see [Check Struct \(Advanced Functions\)](#).

Check Contents

Check the data inside the tables in Config.mdb file.

For more detailed information see [Check Contents \(Advanced Functions\)](#).

Check Versions

Check the versions of the Plugin files in the current working directory.

For more detailed information see [Check Versions \(Advanced Functions\)](#).

Rebuild PAL1131

Rebuild the PAL1311 projects in the current working directory.

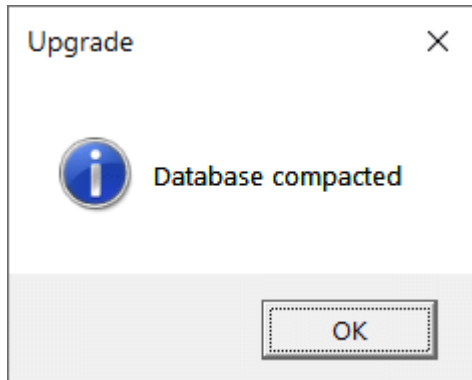
For more detailed information see [Rebuild PAL1131 \(Advanced Functions\)](#).

See Also: [Upgrade General Information](#)

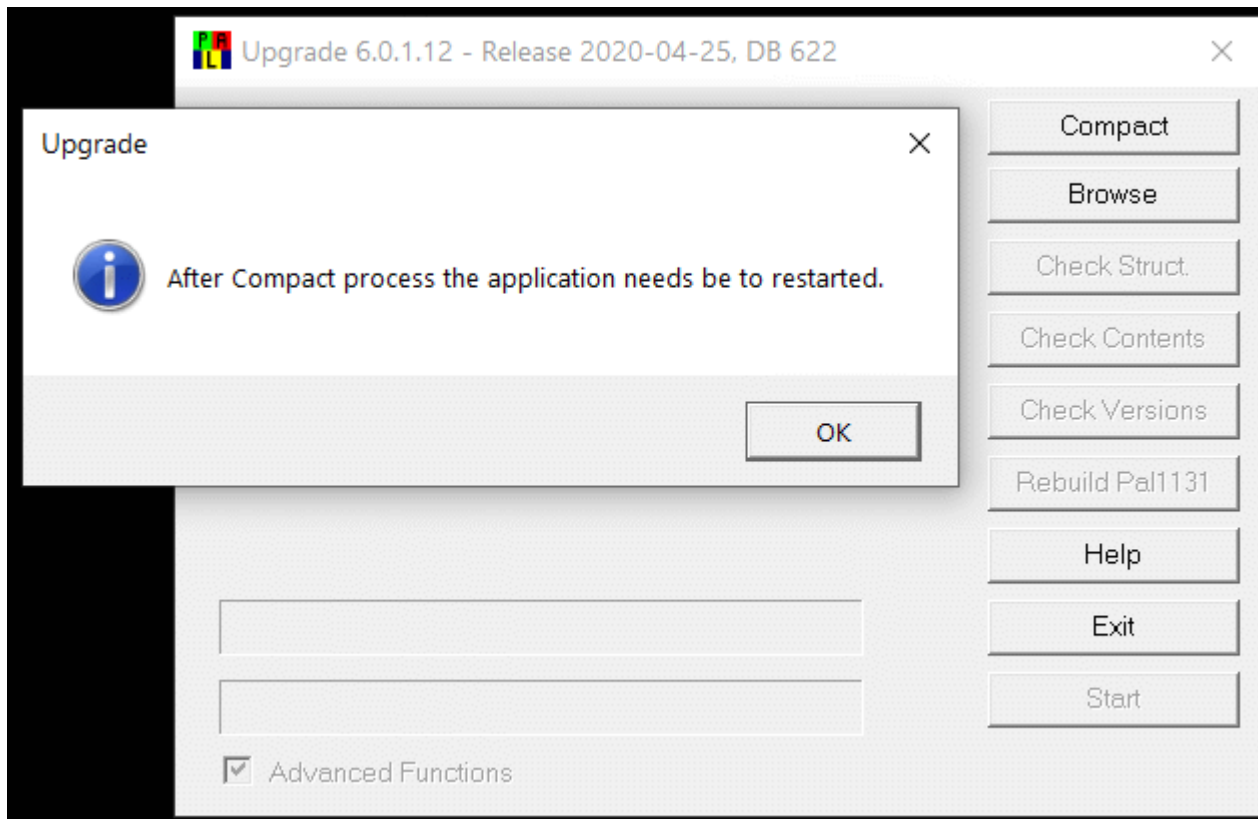
Compact Database

As you change data in a database, the database file can become fragmented and use more disk space than is necessary. Periodically, you can use the CompactDatabase method to compact your database to defragment the database file. The compacted database is usually smaller and often runs faster.

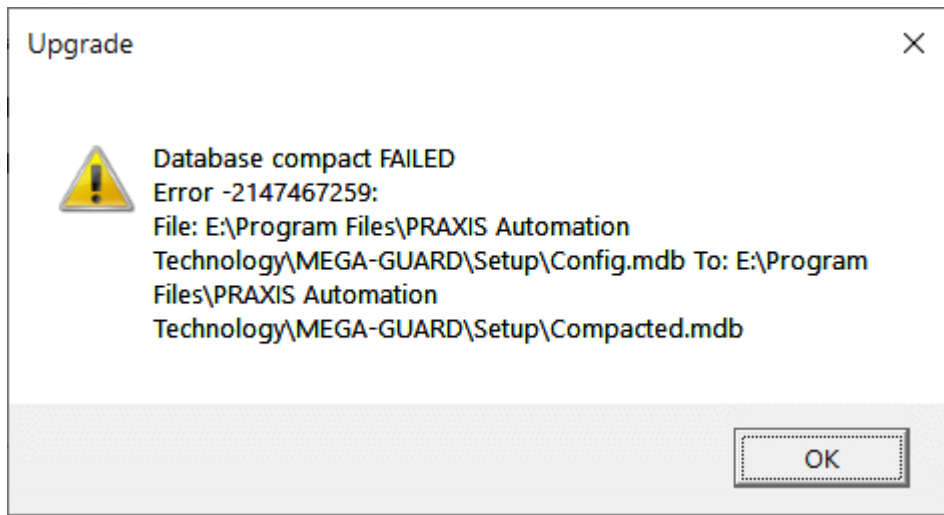
Messagebox shown if Compact function is executed correctly.



After running Compact function 'Upgrade.exe' application needs to be restarted, if you want to continue working with 'Upgrade.exe'



It is possible to get an error like these, if the database is locked by another process (make sure that PAL, IOSever, MS Access, are closed when running this function)



-2147467259 = Unspecified Error

What Causes Error Code -2147467259 (hex 0x80004005) ?

Error code 0x80004005 typically happens when you try to access shared folders or drives, when you use a specific program, or when you experience a problem installing Windows updates.

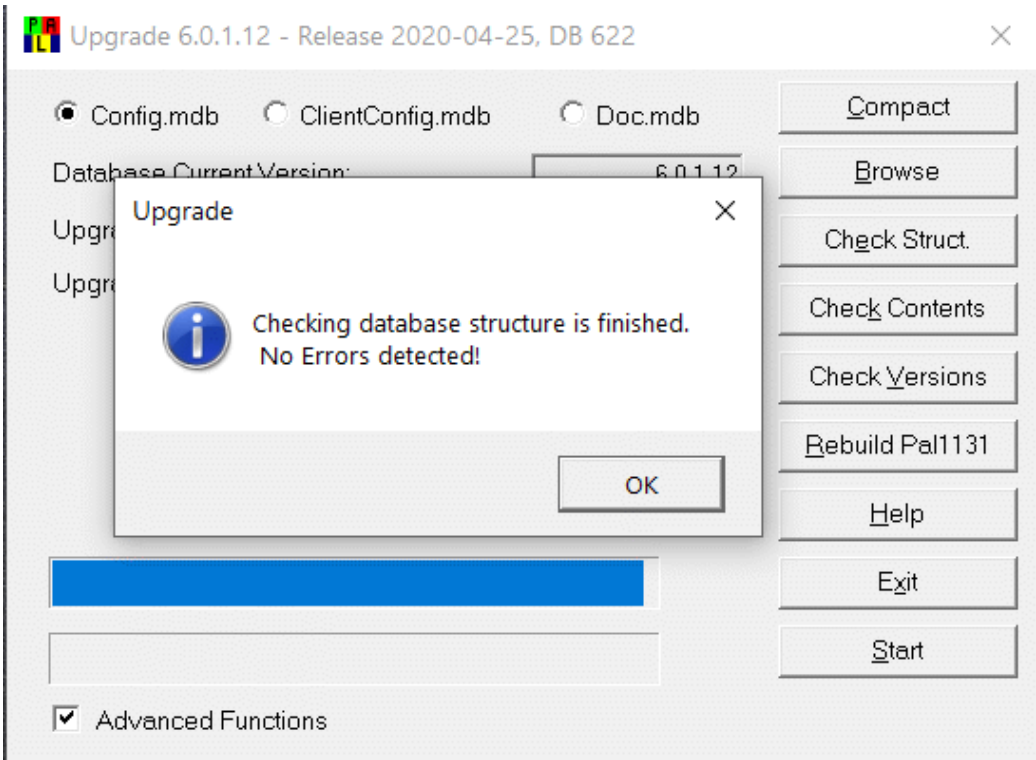
Here are the most common causes of error code 0x80004005:

- Problems with Windows Update.
- Problems with shared files or folders.
- Windows notification issues.
- Problems opening or extracting compressed files and folders.

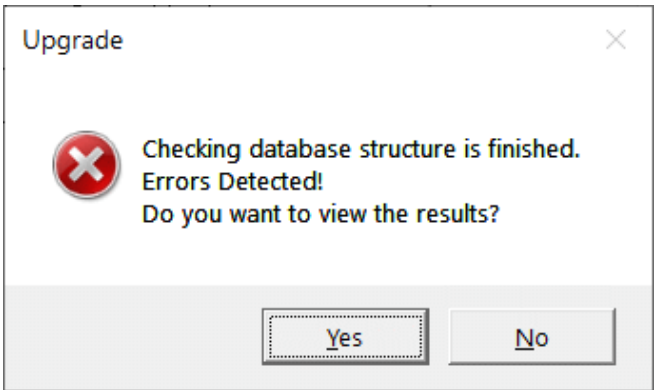
See Also: [How to Use Advanced Functions](#)

Check Structure

Use this command to examine the internal structure a database file. This command is a part of the Advanced Functions.

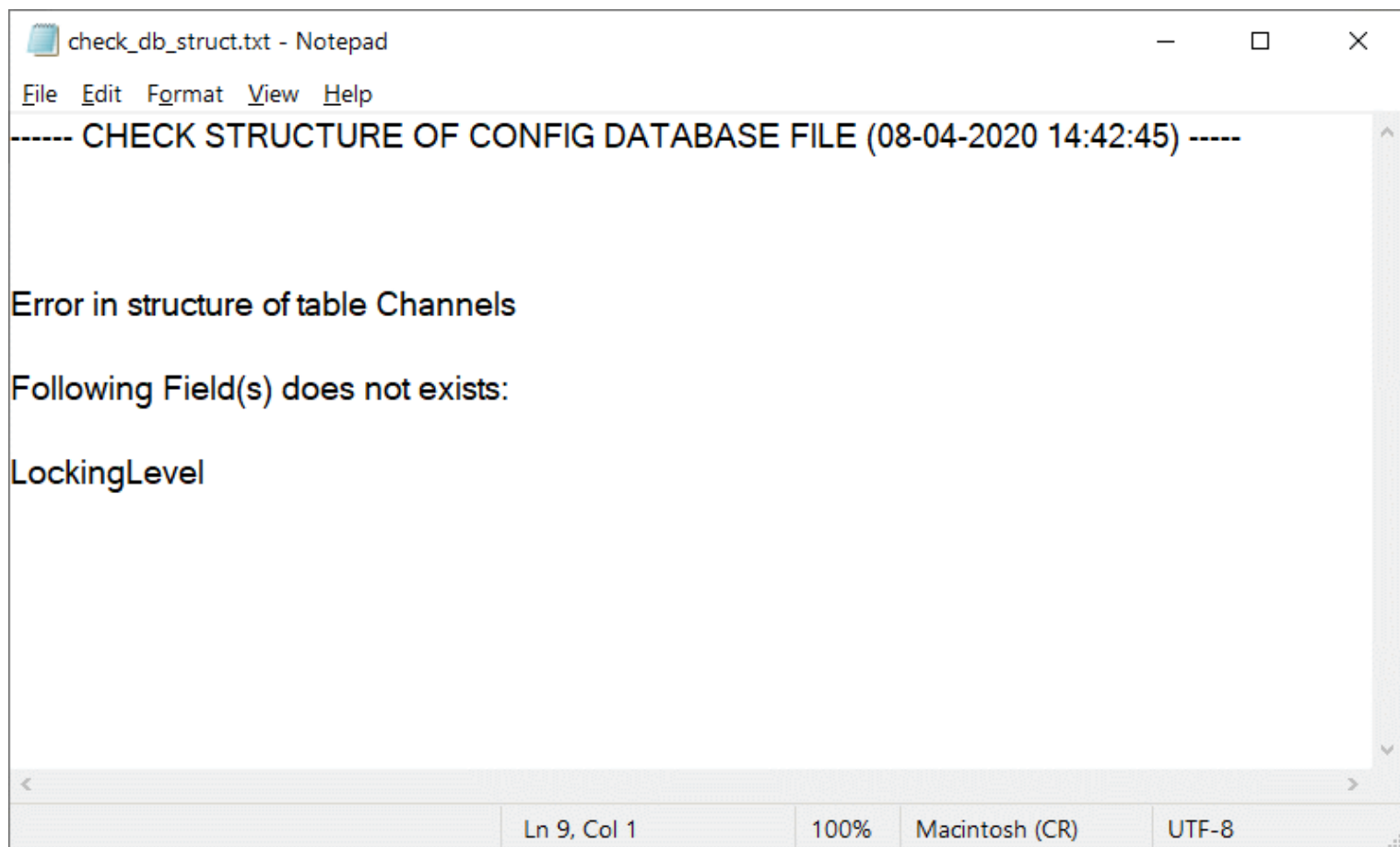


Example when something is wrong:
Popup is shown

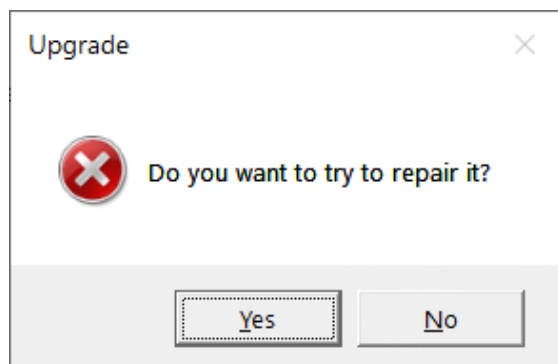


Choose "Yes" for more information

The created error log file is shown by the use of Notepad.



After closing Notepad, new messagebox is shown, with a question to repair the database file.

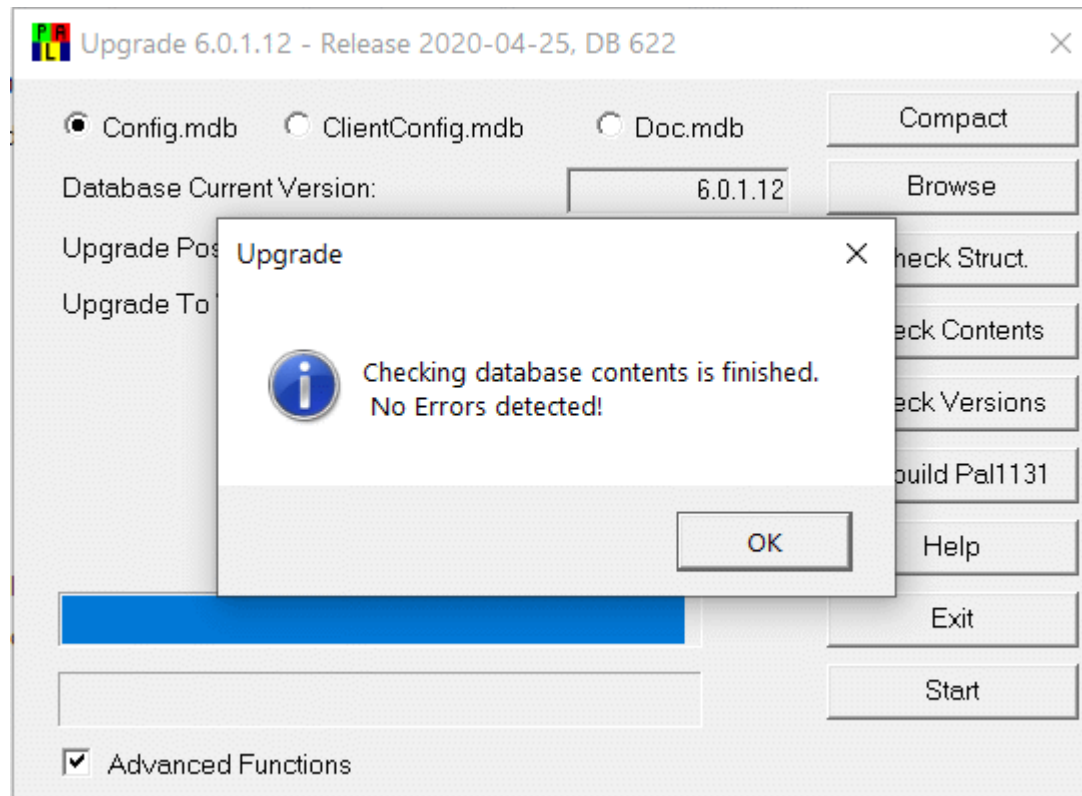


After choose "Yes", database will be repaired.
After it's repaired, you could run "Check Structure" function again, to see if the error is gone.

See Also: [How to Use Advanced Functions](#)

Check Contents

Use this command to examine the data inside a database file. This command is a part of the Advanced Functions.



1. It checks for every known table: validation rule set per field with the contents in that table.
2. Clean up function for channel pool list (multiple channel of D-OUT / Average).
3. Remove of all 'Carriage Return + Line Feeds (CR,LF)' at description fields.
4. Repair of Channel List at Groups Configuration.
5. Check and Repair of retain Channels with number of decimals and corresponding deviation.
6. Check and correct Linking Channels references.
7. Check if all Diagnostic Messages are added to the database.

See Also: [How to Use Advanced Functions](#)

Check Versions

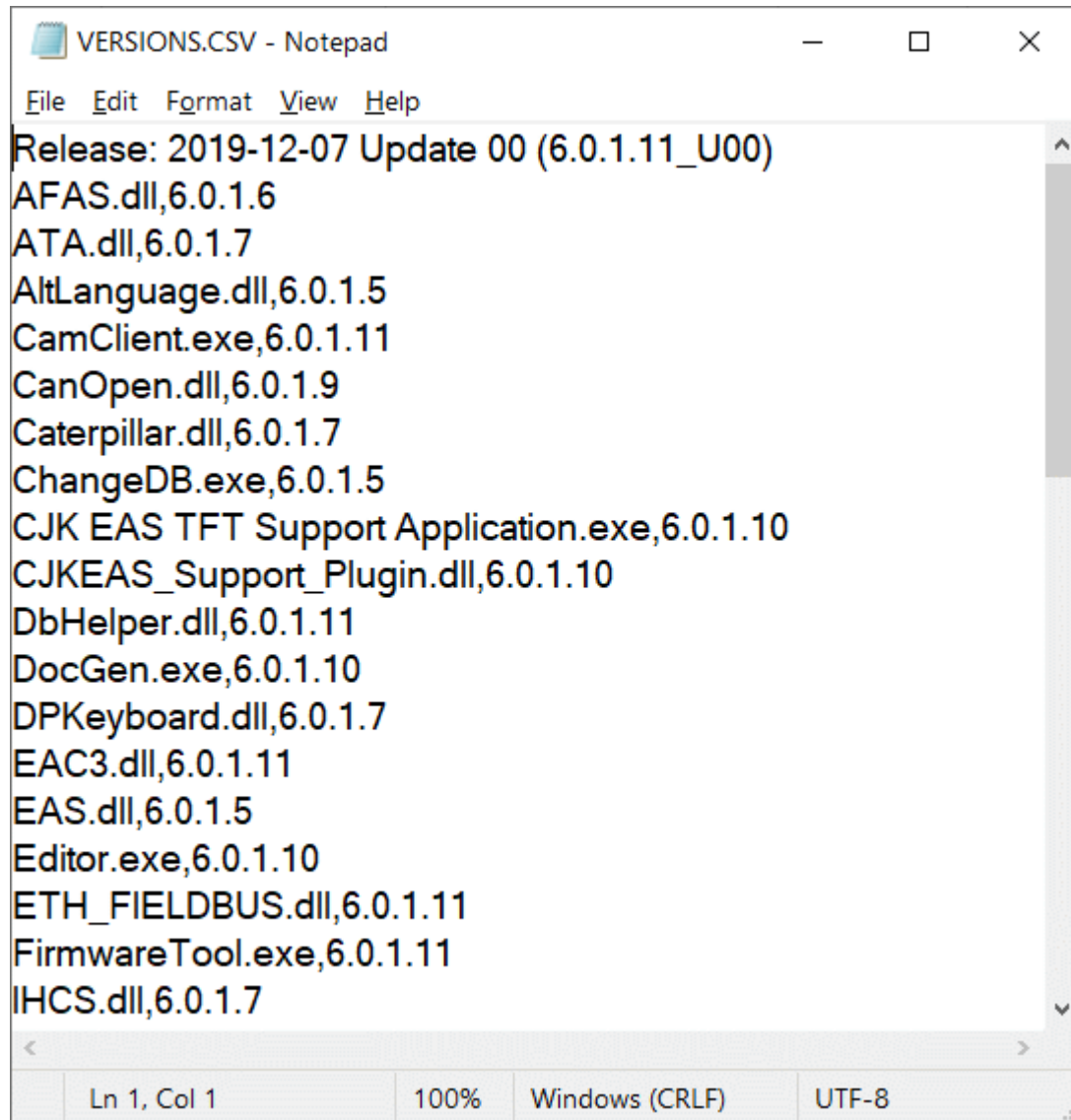
This function checks the versions of the Plugin files in the current working directory.

In bin folder, there is the file "VERSIONS.CSV".

This file contains Software Production Versions of all .exe and dll files.

The Check Versions function checks these versions with the installed files.



























Example of 'Versions.csv' File



```
VERSIONS.CSV - Notepad
File Edit Format View Help
Release: 2019-12-07 Update 00 (6.0.1.11_U00)
AFAS.dll,6.0.1.6
ATA.dll,6.0.1.7
AltLanguage.dll,6.0.1.5
CamClient.exe,6.0.1.11
CanOpen.dll,6.0.1.9
Caterpillar.dll,6.0.1.7
ChangeDB.exe,6.0.1.5
CJK EAS TFT Support Application.exe,6.0.1.10
CJKEAS_Support_Plugin.dll,6.0.1.10
DbHelper.dll,6.0.1.11
DocGen.exe,6.0.1.10
DPKeyboard.dll,6.0.1.7
EAC3.dll,6.0.1.11
EAS.dll,6.0.1.5
Editor.exe,6.0.1.10
ETH_FIELDBUS.dll,6.0.1.11
FirmwareTool.exe,6.0.1.11
IHCS.dll,6.0.1.7
Ln 1, Col 1 100% Windows (CRLF) UTF-8
```

Example to get production version of a certain file:


- Open File Explorer
- go to the Plugins folder
- select a file by left mouse button click
- open popup menu by right mouse button click
- choose 'Properties'
- choose tab page 'Details'


Name	Date modified	Type	Size
 AFAS.dll	27-Feb-20 15:27	Application extension	113 KB
 ATA.dll	27-Feb-20 15:27	Application extension	367 KB
 CanOpen.dll		Application extension	498 KB
 CanOpen1.dll		Application extension	498 KB
 CanOpen2.dll		Application extension	498 KB
 Caterpillar.dll		Application extension	429 KB
 DPKKeyboard.dll		Application extension	48 KB
 EAC3.dll		Application extension	315 KB
 EAS.dll		Application extension	111 KB
 ETH_Fieldbus.dll		Application extension	110 KB
 IHCS.dll		Application extension	182 KB
 J1939.dll		Application extension	687 KB
 J1939_2.dll		Application extension	687 KB
 LineIn.dll		Application extension	424 KB
 LinePrint.dll		Application extension	70 KB
 MAKE_DLLS.BAT		Windows Batch File	2 KB
 MBM.dll		Application extension	488 KB
 MBM_TCP.dll		Application extension	526 KB
 MBM1.DLL		Application extension	488 KB
 MBS.dll		Application extension	391 KB
 MBS_TCP.dll		Application extension	421 KB
 MBS2.DLL		Application extension	391 KB
 MG.dll		Application extension	313 KB
 MSMRU.dll		Application extension	418 KB
 MTUS.dll	27-Feb-20 15:27	Application extension	525 KB
 NMEA_out.dll	27-Feb-20 15:27	Application extension	459 KB


View Dependencies


7-Zip

CRC SHA

 Edit with Notepad++


 Select Left File for Compare

 Scan with Windows Defender...

 Share

Open with...

Give access to

 WinMerge

Restore previous versions

Send to

Cut

Copy

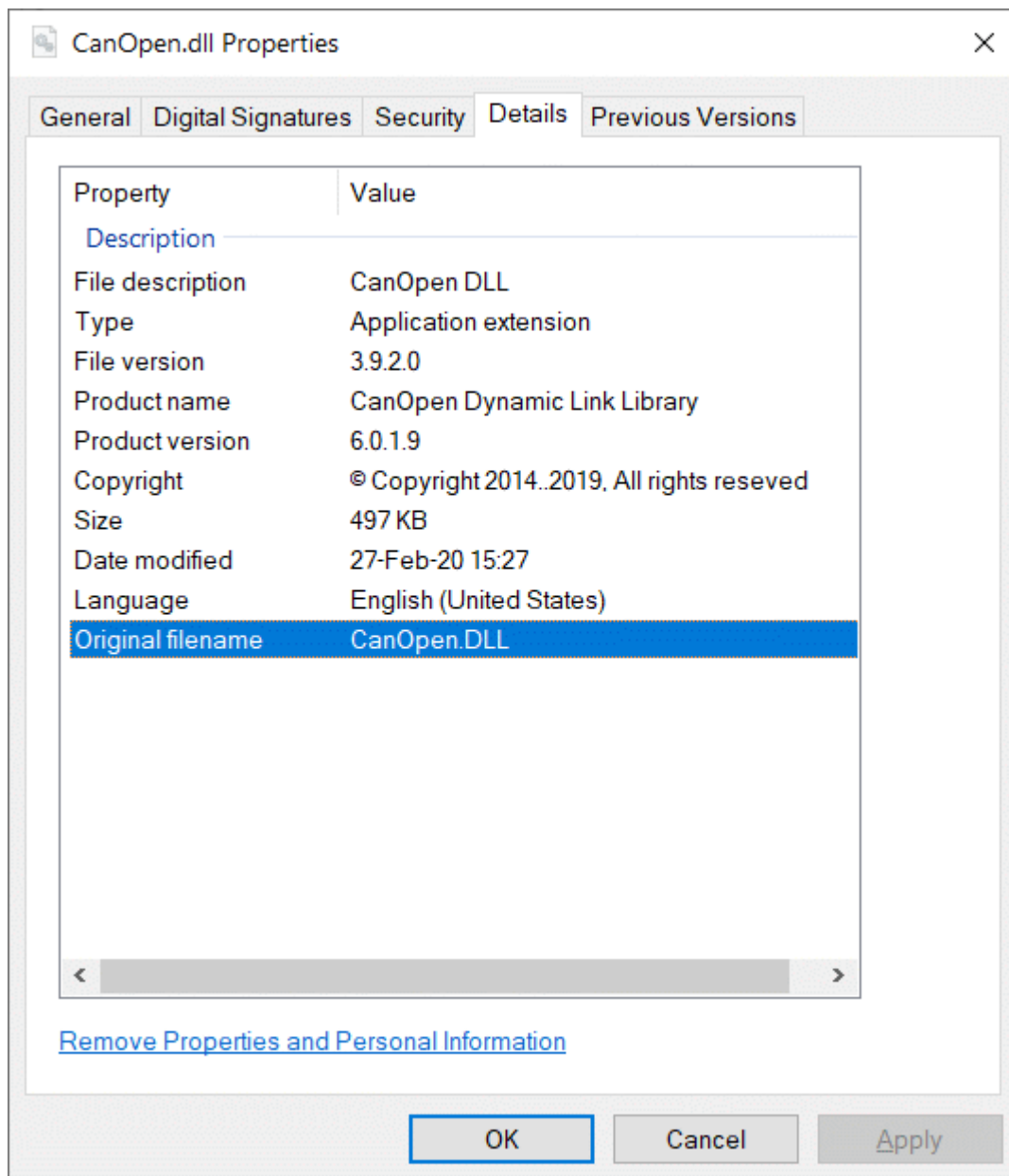
Create shortcut

Delete

Rename

Properties

See Production version on tab page 'Details'

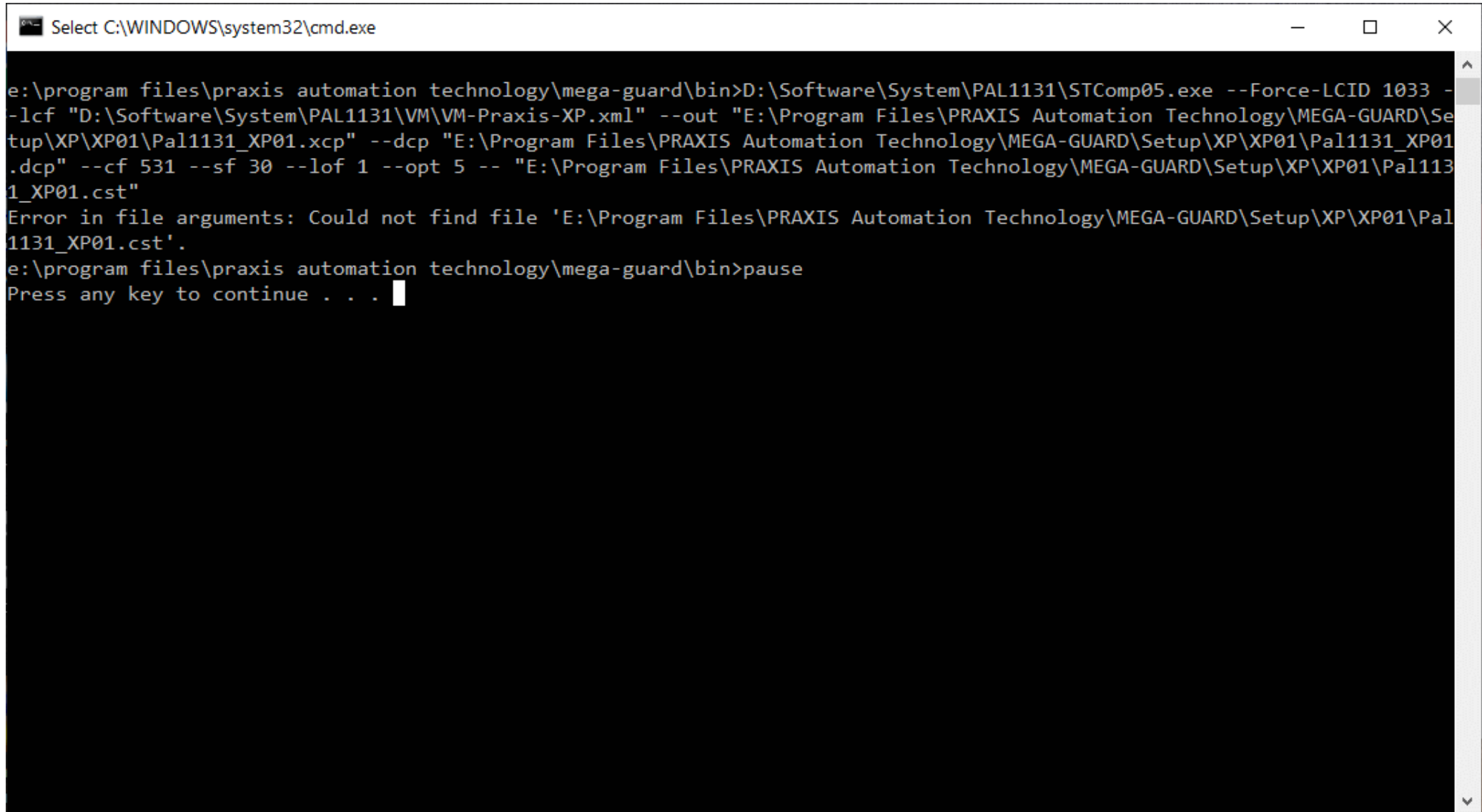


See Also: [How to Use Advanced Functions](#)

Rebuild PAL1131

Function to rebuild your project files in the current working directory.

A command window will be shown. You need to press a key to continue to do the next XP.



```
Select C:\WINDOWS\system32\cmd.exe

e:\program files\praxis automation technology\mega-guard\bin>D:\Software\System\PAL1131\STComp05.exe --Force-LCID 1033 -
-lcf "D:\Software\System\PAL1131\VM\VM-Praxis-XP.xml" --out "E:\Program Files\PRAXIS Automation Technology\MEGA-GUARD\Se
tup\XP\XP01\Pal1131_XP01.xcp" --dcp "E:\Program Files\PRAXIS Automation Technology\MEGA-GUARD\Setup\XP\XP01\Pal1131_XP01
.dcp" --cf 531 --sf 30 --lof 1 --opt 5 -- "E:\Program Files\PRAXIS Automation Technology\MEGA-GUARD\Setup\XP\XP01\Pal113
1_XP01.cst"
Error in file arguments: Could not find file 'E:\Program Files\PRAXIS Automation Technology\MEGA-GUARD\Setup\XP\XP01\Pal
1131_XP01.cst'.
e:\program files\praxis automation technology\mega-guard\bin>pause
Press any key to continue . . .
```

If something went wrong, you could see it in the command window.
Like the screenshot shows that the .cst file can not be found!

See Also: [How to Use Advanced Functions](#)

Client Config

Client Config contains configuration for (CAMClient)

- CTRL+M Mimics on workstation
- CTRL+G Groups on workstation
- CTRL+K special key macros on workstation
- Color Tables on workstation
- Color Schemes on workstation
- Top Buttons on workstation (not longer applicable on current mimic system)

Following dialog could be come if you upgrade from older version.

Previous versions had on every workstation it's own ClientConfig.mdb file.
This file is replaced by tables inside 'Config.mdb'.

This function is for integrating ClientConfig.mdb into Config.mdb

1a) When running Upgrade.exe to upgrade a Config.mdb it automatically places the ClientConfig.mdb that is in same folder into the Config.mdb as client configuration for Server_1.

1b) If you run Upgrade.exe on Server_1 it will also import ClientConfig.mdb from Server_2 and Client_1 to Client_n if they are connected via network and running (Only Windows should run, MEGA-GUARD should be switched off). This option can also manually be started from this dialog.

2) For an upgrade on separate (service) laptop Upgrade.exe will do same as in 1a and has an extra "Import" option to import any ClientConfig.mdb into a any Workstation configuration of Config.mdb. For normal usage you will only use the "Screen 1" option because your MarinePC's only have 1 Display (Monitor) connected.

The Copy Client function is also normally not needed. It copies Client Config inside Config.mdb from Workstation to other Workstation (Workstation is a Server or Client).

Local			
Update only local (Laptop)	<input type="checkbox"/>	Update from Local	

System			
		Start IP Address From	
Number of Servers:	<input type="text" value="1"/>	<input type="text" value="192 . 168 . 1 . 101"/>	
Number of Clients:	<input type="text" value="0"/>	<input type="text" value="192 . 168 . 1 . 111"/>	
Note: Check if pc's are online.			
Note: you may need to start rednetwork.			Update from Network

Import File			
ClientConfig:	<input type="text"/>		...
ID:	<input type="text"/>	Screen:	<input type="text" value="Screen 1"/>
			Import ClientConfig

Copy Client Configuration			
From ID:	<input type="text"/>	Screen:	<input type="text" value="Screen 1"/>
To ID:	<input type="text"/>	Screen:	<input type="text" value="Screen 1"/>
			Copy ID to New ID

Exit No Changes

If updating a client config for a development pc (e.g a work laptop) only a local update needs to be done. Check the "Update only local (Laptop)" checkbox and click the **"Update from Local"** button.

Local	
Update only local (Laptop)	<input checked="" type="checkbox"/>

Update from Local

For update of a working system; in "Number of Servers" fill out the number of servers and the address of Server 1. Fill in the number of clients in "Number of Clients" and the address of Client 1. Click **Update from Network** and the 'Config.mdb' will be updated with ClientConfig files found on the Network.

System

Start IP Address From

Number of Servers:

Number of Clients:

Note: Check if pc's are online.

Note: you may need to start rednetwork.

Two other functions are created, for updating 'Config.mdb' with ClientConfig data at later stage. These are:

1. **Import File**
2. **Copy Client Configuration**

(1) Import File a function to read out ClientConfig.mdb to put it's data to Config.mdb to certain ID.

- Select File with Browse Button
- Select Destination (To ID)
- Keep Screen Selection on 'Screen 1' (only used at multiple monitors)
- Press Button 'Import ClientConfig'

Import File

ClientConfig:

ID: Screen:

(2) Copy a Client Config configuration from Server_1 to Server_2.

- Select Source (From ID) and Destination (To ID)
- Keep Screen Selection on 'Screen 1' (only used at multiple monitors)
- Press Button 'Copy ID to New ID'

Copy Client Configuration

From ID: Screen:

To ID: Screen:

See Also: [Upgrade General Information](#)