

Business Context (mandatory):

- Process (mandatory):**

- Data Model/DB Tables (optional if DB is involved and/or to be changed):**

- [illegible]

- - Table does not exist
- x Table exists
- Optional additional row with Amount rows contains the number the of elements if only view data rows are contained and optional the use devuser in development systems and produser in productive system, if the the table has not been created in the context of informix.

Frontend - Windows/Citrix (optional if a Frontend is involved and/or to be changed):

- dbcomparer is a CSharp GUI to compare tables and databases, it is also possible to compare zdev21 tables from one country to another country
- additionally this tools can be used to evaluate differences in table definitions for additional or missing columns, or different column type definitions
- The report created can be copied to excel to be used for further evaluation

dbcomparer tool: Steps from Clone to Run

1. Clone the Repository:

- Ensure you have Git installed.
- Clone the phoenix.tools.dbcomparer repository to your local machine:

```
1 git clone <repository_url> C:\dev\comparer_tool\phoenix.tools.dbcomparer
```

2. Install Prerequisites

- Navigate to the cloned directory:

```
1 cd C:\dev\comparer_tool\phoenix.tools.dbcomparer
```

- Apache Ant and Ivy: Install and configure (ensure ant is in PATH).
- IBM.Data.DB2: install \\phdev\shared\$\cs_tools\install\database\informix\IBM Data Server\Runtime Client\v11.5.5fp1_ntx64_rtcl_EN.exe
- OpenSSL 1.0.2u (64-bit): Install to C:\OpenSSL-Win64\bin and copy DLLs:

```
1 copy "C:\OpenSSL-Win64\bin\libeay32.dll" "C:\bin\IBM Informix Client SDK\bin\"
2 copy "C:\OpenSSL-Win64\bin\ssleay32.dll" "C:\bin\IBM Informix Client SDK\bin\"
```

- Java JRE v1.8
 - NuGet under C:\Tools\NuGet
 - 7-Zip: Install for zipping artifacts.
- #### 3. Open Developer Command Prompt

- Launch the Developer Command Prompt for Visual Studio to initialize the MSBuild environment:

```
1 "C:\Program Files\Microsoft Visual Studio\2022\Professional\Common7\Tools\VsDevCmd.bat"
```


4. Set Environment Variables/Cache

- Check IBM.Data.DB2 installation

5. Restore NuGet Packages

- Navigate to the source directory and restore dependencies:

```
1 cd C:\dev\comparer_tool\phoenix.tools.dbcomparer\dev\src\dbcomparer
2 nuget restore ..\dbcomparer.sln
```

 Note: if encountered "'nuget' is not recognized..", add C:\Tools\NuGet to System Variables-Path or temporary: set PATH=%PATH%;C:\Tools\NuGet

6. Build the Solution

- Compile the project:

```
1 cd C:\dev\comparer_tool\phoenix.tools.dbcomparer\dev\src
2 msbuild dbcomparer.sln /p:Configuration=Release /p:Platform="Any CPU"
```

7. Export the Package

- Generate the deployment package:

```
1 cd C:\dev\comparer_tool\phoenix.tools.dbcomparer\dev\src
2 ant export
```

8. Verify Package Contents

- Check the exported package:

```
1 cd C:\dev\comparer_tool\phoenix.tools.dbcomparer\export\dbcomparer
2 7z l dbcomparer.zip
```

- Ensure dbcomparer.exe and required DLLs are included.

9. Extract and Deploy the Package

- Extract the package to the deployment directory:

```
1 7z x dbcomparer.zip -oC:\dbcomparer
2 cd C:\dbcomparer
```

10. Run the Application

```
1 cd C:\dbcomparer
2 .\dbcomparer.exe > log\output.txt 2>&1
```

- Open the UI, select two databases (e.g., oat21@zdev21 and oat21pre@zdev21), and click "Compare".
- Copy/Paste to an Excel sheet.

Backend - AIX / Windows Webserver (optional if a Backend is involved and/or to be changed):

- The database comparison tool "dbcomparer" generates Excel reports as attached in "Documents" highlighting structural differences between tables across servers. After analyzing the comparison results, we can take the following actions:

Tables/Views	Remarks	Suggested actions	Done on
zartikel	No longer needed , replaced by <u>artikelzentral</u>	Synonym can be deleted when CPR-240377 is completed	zdev21
zartwg	No longer needed , replaced by <u>loadtradegroup</u>	Synonym can be deleted when CPR-240377 is completed	zdev21
zdkbtm	No longer needed , replaced by <u>narcgroup</u>	Synonym can be deleted when CPR-240377 is completed	zdev21
amcqbrancharticlequotaload	<ul style="list-style-type: none"> • amcq table are from an application called AMCQUOTA • Seems that the AMCQUOTA was never moved to production, only the tables are created in france 	Request on ofr21@zdev21 to remove the following tables as their _remove counterparts already exist: <ul style="list-style-type: none"> • amcqbrancharticlequotaload, • amcqcalparams, • amcqcalresult 	zdev21 (add _remove to tablename)
amcqcalparams		Ask the informix team to verify that : <ol style="list-style-type: none"> 1. No automated DB tool is recreating these tables, as applications should not be creating them directly. 	zdev21 (add _remove to tablename)
amcqcalresult		<ol style="list-style-type: none"> 2. There are no active dependencies on these tables. <p>⇒ objects deleted with 20250703KSC-amcq-</p>	zdev21 (add _remove to tablename)

		HBenAbdelaziz_10.74_10.75.sql (request RITM0054895)	
articlequotaconfig	The table articlequotaconfig was initially planned for implementation under CPR-220856, but the CPR was halted. Since the table was only created in DEV and never deployed to PROD, it is now effectively obsolete .	Table can be deleted [Only in ZDEV21 related to CPR-220856 - DE - AE Customer order management - PHARMOS CS - Confluence]	onhold (there is a new CPR to takeover this part)
callbackcategory	No confirmed requirement for this table. (empty table, obsolete)	Table can be deleted [Only in ZDEV21 probably related to CPR-240019 - AT - Extension Callback-Button Order Entry - PHARMOS CS - Confluence]	
imexblockmodes	No confirmed requirement for this table. (obsolete)	Only in ZDEV21 might be related to MDE Imex Monitor (Olaf Wasmuth) or ImEx (Inbound Leopold Fuchs)	
bkp_parameter_change_logging, bkp1_msv3cstinfo	Exist only in dev: ode21 ... No evidence on Unix (binaries, logs, scripts)	Table can be deleted	
phcdc_checktab	Exist only in prod: obg21 and ohr21	dont delete it, to be clarified with DB Team (Bernd Schierhorn) Found evidence under: ./informix/phcdc/ 1. Table Contents: <ul style="list-style-type: none"> Contains repeated entries tracking enable/disable operations for full row logging 	



- Stores checkpoint or status information for the PHCDC application
- Potentially maintains temporary process results

2. **Functional Purpose:**

- Primary function appears to be monitoring and auditing
- Likely implements Change Data Capture (CDC) functionality
- Full row logging suggests either:
 - Data synchronization with external systems
 - Comprehensive audit trail requirements

3. **Technical Context:**

- Schema: obg21:informix
- Table name convention indicates checkpoint functionality
- Logging pattern suggests transactional behavior tracking

4. **Outstanding Questions:**

- What triggers PHCDC application execution?
- What is the retention policy for table entries?
- Are there downstream consumers of this data?
- What specific processes write to this table?

tmpdocument archiveinfo, tmpdocument archiveinfo05, tmpphatra, tmpreportdate	Exist only in prod: oat21 and ode21: No evidence in servers	Need more informations (tmpdocument* and tmpreportdate table could be docinfoarchive tool, ask Rolf Brahm-Vogelsanger)	
view: bld_registere d	Exists only in prod: och21, ode21 and ofr21: No evidence in server	Need more informations (need to be checked with DB team (Bernd Schierhorn) as this relates to any systables	
view: bldi_provided	Exists only in prod	Need more informations (need to be checked with DB team (Bernd Schierhorn) as this relates to any systables	
view: bldi_required	Exists only in prod	Need more informations (need to be checked with DB team (Bernd Schierhorn) as this relates to any systables	
view: varticlequota	Different between servers	Need more informations (could be used by BI (Adil El Houat)	
view: vartikellokal	Different between servers	Need more informations (could be used by BI (Adil El Houat)	
view: vkdiverbund	Exists only in prod	Need more informations (could be used by BI (Adil El Houat)	
view: vkdiverbundp os	Exists only in prod	Need more informations (could be used by BI (Adil El Houat)	
view: vkndausku	Exists only in prod	Need more informations (could be used by BI (Adil El Houat)	





Dependent department inputs (optional if any external department outside PHARMOS is involved):

- PINT
- Citrix
- Infrastructure Env
- Schedule/Batch
- BI
- GxP (in case of GxP relevance)

Documents (Analysis and Solution Specification):

File	Modified
 image-20250605-105313.png	Jun 05, 2025 by Dirk Keller
 Comparer_result_dev_prod-18-06-2025.xlsx	Jun 18, 2025 by Haythem BEN ABDELAZIZ
 Comparer_result_ztst_prod-19-06-2025.xlsx	Jun 19, 2025 by Haythem BEN ABDELAZIZ
 Comparer_result_zqas_prod-23-06-2025.xlsx	Jun 23, 2025 by Haythem BEN ABDELAZIZ

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