# **2023.1 Required Upgrade Path (Assuming Database is already upgraded to 2020.1)**

**Note: 2022.1 does not exist! It was skipped/integrated into 2023.1 (code), however, the script for 2022.1 is still critical to execute!**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sequence Number** | **Database** | **Script** | **Description** |
| 1 | InsightCS (main) | InsightCS 2020.2.sql | Run on the production database. |
| 2 | InsightCS (main) | MigrateGenderAndSexualOrientation.bat (and accompanying sub-directory) | Used for running the MigrateInsightUDT SQL 2019.exe tool for each datatype that needs to be updated for 2020.3 (gender\_cd, sexual\_orientation\_cd). This changes the size of both GENDER\_CD and SEXUAL\_ORIENTATION\_CD from a length of 2 to a length of 20. |
| 3 | InsightCS (main) | InsightCS 2022.1.sql | Run on the production database. |
| 4 | InsightCS (main) | InsightCS 2023.1.sql | Run on the production database. |
| 5 | InsightCS (main) | NS-122728 IcsMain Deprecate Unused SQL SPs.sql | Run on the production database. |
| 6 | InsightCS (main) | NS-122803 IcsMain Update SQL Triggers.sql | Run on the production database. |
| 7 | InsightCS (main) | NS-152717 Update Visit Number Value in Notes\_FF Table.sql | Run on the production database. |
| 8 | InsightCS (main) | NS-127537 - SQL Server Audit Log Specifications.sql | Run on the production database. |
| 9 | Sislnk | Sislnk 2022.1.sql | Run on the Sislnk database. |
| 10 | Sislnk | Sislnk 2023.1.sql | Run on the Sislnk database. |
| 11 | Sislnk | NS-122728 Sislnk Deprecate Unused SQL SPs.sql | Run on the Sislnk database. |
| 12 | Collector | Collector 2022.1.sql | Run on the Collector database. |
| 13 | Collector | Collector 2023.1.sql | Run on the Collector database. |

## Detailed Migration Instructions

The following steps should be performed ***from the database server***, not a user’s machine or different server.

**Before You Begin**

* Locate the Migration Scripts and Batch file mentioned above. For 2020.1, these items can be found in the Scripts folder. The executable requires additional files that are found in the scripts\MigrationAssistant2019 folder. Do *not* rename the folder. Make sure all files are copied to the ***database server***.

**Migrate the InsightCS Database**

1. Back Up The InsightCS Database
   1. Back up the InsightCS database, or ensure that a current database backup is available, to prevent data loss if something goes wrong. Should a catastrophic or unrecoverable error occur, the proper course is to rollback (restore) from the backup and abort the upgrade.
2. Ensure that production and test databases have compatibility set to SQL 2017.

**Implementation Notes**

* Angular Web Framework used by RCM Cloud will no longer support Internet Explorer. Chrome is the default/preferred browser for RCM Cloud.
* WebScanningHost is versioned as of the 2023.1 release. Installations of RCM Cloud release 2023.1 and higher should match the version of the WebScanningHost File.
* For clients who will implement the Audit Logging and Reporting functionality (Case 127537), a technical design document with an Implementation section can be found here: [​docx icon SQL Aduit Log.docx](https://medsphere.sharepoint.com/:w:/g/STL/Development/EYGe54XhRg9In0ScOAlCnXoBTNgO1DYxp1Sq3ZGR-Nzmfw?e=obZryV)

2) Run Migration (this path assumes a warehouse database exists and is currently operating. If not, skip any step related to the warehouse/replication)

* View Snapshot & Subscription details (from Replication Monitor) and ensure replication is up & running without issue.
* Run **UDT migration** on ***main* (literally run the migration on the server box)**.
  + Note: For SQL2012 & under, .NET 4.7.2 is required.
  + Use the MigrateGenderAndSexualOrientation.bat file with server and database for arguments:
    - Command Line Example: ***MigrateGenderAndSexualOrientation.bat Stkl-Sql IcsDev***
  + Ensure migration is successful (screen/log file)

|  |
| --- |
| **NOTE:** Depending on the origin of the database, this migration may result in messages that indicate that the targeted columns already reflect the desired outcome. There is no risk in this outcome. In fact, it ensures that there is either a preferred outcome, or an inherent outcome. |

1. Script: Run the annual/release script (**InsightCS 2022.1.sql**) on ***main***.
   1. View Snapshot & Subscription details (from Replication Monitor), ensure snapshot updates complete (if any) and is running without error.