



Meta-Model Asset Creation

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1.0 Introduction

The purpose of this document is to provide the Kentucky Transportation Cabinet (KYTC) with supporting documentation to accompany a script that has been developed to meet an outstanding data need. This document should be read in its entirety prior to running the script that it supports, *install_meta_assets.sql*. It provides brief instructions on how to install the assets and make updates to meet any administration requirements, such as defining roles to control user access to the new asset.

The script creates two Assets for asset meta-model information that is currently in use. A parent asset named METP and a Child asset named METC, Bentley Systems, Inc. has developed a script that will meet this need and this document will instruct KYTC on how to install the function.

2.0 Description of meta-model Asset Solution

Bentley Systems has developed a script that utilizes existing functions in the Exor Software and some custom functions to provide a solution to meet the requirements discussed above. Standard features include asset meta-model installation and CSV loader installations.

3.0 Derived Asset Details and Administration Security

Bentley has created an installation process to implement standard features of the Exor software. The details of these are:

- An asset of type named METP will be created
 - This asset will store the requested information on asset types in the Exor system.
- An asset of type named METC will be created
 - This asset will store the requested information on asset type attribute for each asset listed in METC.
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- Triggers to automatically add basic information to METP/METC when new assets and asset type attributes are created.
- CSV Loaders to load initial data into the METP and then METC attribute.
 - Their names are METP_CSV and METC_CSV
 - Sample csv files are included under:
 - ..\doc\sample_METP.csv
 - ..\doc\sample_METC.csv
 - Both sample files contain header information in the first row. As a result, the CSV LOAD will throw an error for line one that can be ignored.
- Scripts to load basic data into METC and METC for any attributes that were missed during the CSV load.
 - This is an optional step the scripts are located in:
 - ..\install\afterCSV_METP.sql
 - ..\install\afterCSV_METC.sql
 - If Ran, METP should be ran first then METC

4.0 Installing the Meta-Data Assets

A script has been provided to install the derived asset and all of its dependencies to the database. It creates the derived asset, associated roles, and the merge query.

The script can be located in: `..\install\install_meta_assets.sql`

After installation please review the log file that is created during the installer process for errors.

5.0 Uninstalling the Derived Asset

Two additional scripts has been provided that can be run if KYTC ever needs to remove the asset and all of its dependencies from the database.

- `z_uninstall_meta_assets_tools.sql`
 - Removes the triggers, the CSV Loaders and dependent functional objects.
- `z_remove_meta_asset_data.sql`
 - Removes all METC Data, and then removes the METC Asset entry.
 - Removes all METP Data, and then removes the METP Asset entry.

6.0 Summary and Conclusion

The assets created by running the script accompanying this document will meet the data needs for querying and reporting information pertaining to attribute information. The triggers will update Asset description information in METC/METP but other data such as report level well need to be manually updated.