GRID Asset Extracts

Project Plan

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**Task:** Automate extracting and then exporting all critical and high priority GRID assets to Comanche and AGO.

**Purpose:** Produce up to date feature classes and services of GRID assets to be consumed by TxDOT employees, contractors, and the public.

*Produce a Feature Dataset/ Service of GRID Assets on Comanche/AGO*

* Produce an extract of each critical and high priority GRID asset.
  1. The schema will match the standard schema with few exceptions.

**DELIVERABLES:**

1. Feature class for each critical/high-priority asset on Comanche
2. Authoritative service for each critical/high-priority asset on AGO
3. .aprx on a shared location

*Automate the process*

* Stephen is producing the script to push extracted GRID data to AGO
  1. Working first to successfully export each quarterly asset from the T:/ to AGO
  2. Then working to successfully export each asset to AGO from Comanche
* Jessica and Laura are responsible for the script to extract data from GRID and export it to a local .gdb/T:/, Comanche
  1. Working first to successfully export each asset locally and to the T:/ with a manual trigger
  2. Then working to successfully export each asset all the way to Comanche
* Task scheduler set up on lab computer to run the script daily, which will then extract and export the assets according to the schedule

**DELIVERABLES:**

1. Two python scripts to be combined into one, or kept separate (TBD)
2. Schedule finalized and published on wiki page

*Update the documentation*

* Document the process for extracting single assets manually using the python script
  + Possibility of separate script which has the push to T:/, Comanche and AGO commented out or disabled?
* Document the process for creating, running and using the python script(s)

**DELIVERABLES:**

1. Wiki Pages
   1. Project Page
   2. Assets Pages

**Progress Tracking:** Weekly check in with Chris, twice weekly meetings with Stephen and Laura

**Project Start Date**: 3/28/2019

**Project Length:** 3 months

**Target Completion Dates:**

**April 11th**

* Extract and export each asset successfully (to a local location)
  + Document those assets which are still failing
* Push quarterly assets to T:/ and Comanche.

**April 22ndth**

* Extract and export each asset successfully to T:/ and Comanche
* Set up .aprx on a shared location
* Push quarterly assets to AGO manually

**April 29th**

* Task scheduler set up on lab machine to run python script daily and push to T:/ and Comanche
  + This is in time to export all the quarterly assets ‘automatically’ during the first week of May

**May 10th**

* Push quarterly assets to AGO using Stephen’s script
  + The goal is to override the authoritative services on AGO, not just push up to personal account
* Automated push of quarterly assets to Comanche using the main script.
  + This will require spreading awareness of the schedule, and informing Comanche users that they will be disconnected from the ‘GRID\_Extract’ feature dataset on certain days before-hand

**June 14th - Goal Completion Date**

* Combine scripts to push remaining assets to Comanche/AGO.
* Update the metadata, including the description on the wiki pages and the SQL query.
* Use task scheduler, run python script daily on the lab machine.
* Fully updated documentation

**Work Assignments:**

Jessica Lane – scripting and documentation, project lead

Laura Roedl – scripting, process improvements, documentation review

Stephen Ross – scripting the process to push to AGO, documentation review

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| --- | --- |
| **Number of Updates to be Made** | N/A |
| **Number of Analysts Doing Work** | 3 |
| **Number of Days to Complete Project** | 60 |
| **Number of Updates Completed per Day** | N/A |

**Resources:**

GitHub - <https://github.com/jess8d7/GRIDExtracts>

Project Folder - [T:\DATAMGT\MAPPING\Projects\2019\2019\_GRID\_Assets\_Extract](file:///T:\DATAMGT\MAPPING\Projects\2019\2019_GRID_Assets_Extract)

Trello board (Jessica’s PM tool) - <https://trello.com/b/xaxL9v54/grid-asset-extracts>

Comanche –TPP\_GIS.APP\_TPP\_GIS\_ADMIN.GRID\_Export\_Assets

Wiki page - <https://txdot.sharepoint.com/sites/division-tpp/DM-Admin/DM%20Wiki%20Library/GRID%20-%20Asset%20Export.aspx>

**Summarized Deliverables:**

A feature class on Comanche for all assets.

An authoritative service on AGO for all assets

One script which combines both efforts to extract/export to Comanche and push the data to AGO

Updated wiki pages for each high priority/critical asset which includes updated asset description and SQL query.

**Notes:**

These dates are contingent upon successful extract of each GRID asset. Some assets aren’t successfully exporting, and thus we’re still in a troubleshooting phase. Dates may change in case the solution doesn’t come quickly enough.

Some services don’t have the standard schema, and thus currently require further post-processing which is currently a manual process. This either needs to change or the post-processing needs to be scripted.