**Database Version Control Module Documentation**

Purpose: There is a need to store the upgrade history for a given database instance so it can be safely and easily upgraded when a given version of an application or module is deployed. This module will serve to inform data staff of which database module version is installed on a given database instance and when each database module upgrade was applied to the instance. This module is used to apply the necessary database upgrades in order to deploy a given database module version for an associated application or module.

Resources:

* Repository: [git@pichub.pifsc.gov:application-development/centralized-tools.git](mailto:git@pichub.pifsc.gov:application-development/centralized-tools.git) in the DB\_version\_control folder
  + Repository web interface: <http://pichub.pifsc.gov/application-development/centralized-tools/tree/master/DB_version_control>
* [DB Version Control Module SOP](DB%20Version%20Control%20Module%20SOP.docx)
* [Installing or Upgrading the DB Version Control Module](C:\\Users\\Jesse.Abdul\\Documents\\Version Control\\Git\\centralized-tools\\DB_version_control\\docs\\Installing or Upgrading the DB Version Control Module.docx)
* [Template - Installing or Upgrading the Database](file:///C:\Users\Jesse.Abdul\Documents\Version%20Control\Git\centralized-tools\DB_version_control\docs\Template%20-%20Installing%20or%20Upgrading%20the%20Database.docx)
  + This template is provided so a given module that has had the Database Version Control Module installed can change the placeholders and reference that document in the main technical document for the module.

Database Design:

* Naming Convention: The Objects used in the module have the prefix "DB\_UPGRADE\_"
* Oracle Tables:
  + Each time a database upgrade is applied it will insert a record in to the DB\_UPGRADE\_LOGS table that defines the numeric version and application/module name that was applied
* Oracle Views:
  + The DB\_UPGRADE\_LOGS\_V view can be used to view the upgrade logs for a given database instance
* \*\*Note: detailed object/column comments are defined on each table and view database objects