# Database Version Control Module Documentation

### Overview:

### 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 Database Version Control Module (VCM) 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 the correct order to deploy a given database module version for an associated application/module.

### Resources:

* DB Version Control Module Version Control Information:
  + URL: [git@gitlab.pifsc.gov:centralized-data-tools/centralized-tools.git](mailto:git@gitlab.pifsc.gov:centralized-data-tools/centralized-tools.git) in the DB\_version\_control folder
  + Database: 0.2 (git tag: db\_vers\_ctrl\_db\_v0.2)
  + Application: 0.13 (git tag: db\_vers\_ctrl\_v0.13)
* [DB Version Control Module SOP](DB%20Version%20Control%20Module%20SOP.docx)
* [Database Naming Conventions](DB%20Version%20Control%20Module%20DB%20Naming%20Conventions.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)
* Documentation Template:
  + This Database Installation/Upgrade template is provided so a given module that has had the Database Version Control Module installed can change the [placeholders](placeholder_documentation.MD) (defined in enclosing brackets) and reference that document in the main technical document for the module.
    - [Word Format](Template%20-%20Installing%20or%20Upgrading%20the%20Database.docx)
    - [Markdown Format](Template%20-%20Installing%20or%20Upgrading%20the%20Database.MD)

### Database Design:

* Oracle Tables:
  + Each time a database upgrade is applied it will insert a record into 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