



## Facility Registry System (FRS)

### Data/Model Structure Changes

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**Prepared for:** ENVIRONMENTAL PROTECTION AGENCY

**Prepared by:** INDUS Corporation  
1951 Kidwell Drive  
Vienna, Virginia 22182



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## REVISION HISTORY

Version Number	Date	Description of Changes
1.0	05/20/2012	Initial creation.

## A. DATA/MODEL STRUCTURE CHANGES

### A.1 TABLE STRUCTURES WERE CHANGED AS FOLLOWS:

1. Since FRS\_INTEREST is the parent to most of the child data in FRS, and INTEREST\_TYPE is part of the primary key of FRS\_INTEREST along with PGM\_SYS\_ACRNM and PGM\_SYS\_ID, a lot of duplicate child data has been created for those programs that have multiple interest types, such as RCRAInfo. Therefore, instead of the FRS\_INTEREST table, the FRS\_PROGRAM\_FACILITY table, with a primary key of PGM\_SYS\_ACRNM and PGM\_SYS\_ID, is now the parent to all of the child tables and FRS\_INTEREST is now a child of FRS\_PROGRAM\_FACILITY. This is a major change and the biggest change in the model because the primary key of the many of the child tables is being changed; meaning most of data in the database will change. In addition:
  - INTEREST\_TYPE is removed from all child tables, including FRS\_SUPPLEMENTAL\_INTEREST.
  - REGISTRY\_ID is removed from FRS\_INTEREST, as it is no longer a foreign key. REGISTRY\_ID has been retained in FRS\_ALT\_NAME by adding a relationship between FRS\_FACILITY\_SITE and FRS\_ALT\_NAME.
  - The current process of creating an FRS\_INTEREST record for every FRS\_FACILITY\_SITE record (to allow child data to be related to the FRS record) will be stopped. Instead, a relationship will be added between FRS\_FACILITY\_SITE and FRS\_AFFILIATION, thus adding REGISTRY\_ID as a foreign key in the FRS\_AFFILIATION table.
2. STATE\_CODE – changed length to 5 to allow storage of foreign codes in the following tables: FRS\_FACILITY\_SITE, FRS\_PROGRAM\_FACILITY, FRS\_MAILING\_ADDRESS, FRS\_SITE\_HISTORY, FRS\_PGM\_FACILITY\_HISTORY, FRS\_RES\_PGM\_FACILITY, FRS\_ZIP\_CODE\_REF, FRS\_RES\_ORG, FRS\_RES\_CONTACT, FRS\_RES\_MAIL, FRS\_MAILING\_ADDRESS\_HISTORY, FRS\_STATE\_REF, FRS\_USER\_REGISTRY (2 instances of STATE), FRS\_USER\_REGISTRY\_HISTORY (2 instances of STATE)
3. HUC\_CODE – in FRS\_PROGRAM\_FACILITY, FRS\_RES\_PGM\_FACILITY, FRS\_PGM\_FACILITY\_HISTORY
  - changed name of HUC\_CODE to HUC\_CODE\_8
  - added new data element, called HUC\_CODE\_12
4. FRS\_NAICS, FRS\_NAICS\_HISTORY, FRS\_SIC, FRS\_SIC\_HISTORY, FRS\_PROGRAM\_FACILITY, and FRS\_PGM\_FACILITY\_HISTORY all have a column called END\_DATE, which was never used, so it has been removed.
5. FRS\_INTEREST – the following columns have been removed because they are not used:
  - COMPLIANCE\_IND
  - DQ\_IND
6. FRS\_PROGRAM\_FACILITY – FACILITY\_UIN has been removed because it is no longer being used
7. FRS\_FACILITY\_SITE – the following data elements have been removed:
  - CONFIDENCE\_IND - not being used
  - DUNS\_NUMBER – not being used and DUNS Number should not be included at the facility level. It is an Organization level data element and is located in the FRS\_ORGANIZATION table
8. The address standardization and parsing routines are being replaced by improved routines utilizing Oracle's spatial address parsing, Navteq street data, and the ZIP4 dataset. Therefore, the data elements that supported the old process have been removed and the data elements supporting the new process have been added.

- The following data elements have been removed from the FRS\_FACILITY\_SITE, FRS\_PROGRAM\_FACILITY, FRS\_RES\_PGM\_FACILITY, FRS\_PGM\_FACILITY\_HISTORY, and FRS\_SITE\_HISTORY Tables:
    - PARSED\_PRE\_DIR\_CODE
    - PARSED\_STREET\_NUMBER
    - PARSED\_STREET\_NAME
    - PARSED\_STREET\_SUFFIX
    - PARSED\_POST\_DIR\_CODE
    - LOCATION\_KEY
  - The following data elements have been added to the FRS\_FACILITY\_SITE, FRS\_PROGRAM\_FACILITY, FRS\_RES\_PGM\_FACILITY, FRS\_PGM\_FACILITY\_HISTORY, and FRS\_SITE\_HISTORY Tables:
    - STD\_HOUSE\_NUMBER
    - STD\_STREET\_NAME
    - STD\_BASE\_NAME
    - STD\_PREFIX
    - STD\_SUFFIX
    - STD\_STYPE\_BEFORE
    - STD\_STYPE\_AFTER
    - STD\_POSTAL\_CODE
    - STD\_STATE\_CODE
    - STD\_COUNTY\_FIPS
    - STD\_COUNTRY
    - STD\_FULL\_ADDRESS
  - The following data elements have been removed from the FRS\_PROGRAM\_FACILITY Table:
    - DERIV\_STD\_CITY
    - DERIV\_STD\_COUNTY
    - DERIV\_POSTAL\_CODE
    - MATCH\_PERCNTG
  - STD\_CITY\_NAME, STD\_LOC\_ADDRESS, and STD\_COUNTY\_NAME remain as is in the FRS\_FACILITY\_SITE, FRS\_PROGRAM\_FACILITY, FRS\_RES\_PGM\_FACILITY, FRS\_PGM\_FACILITY\_HISTORY, and FRS\_SITE\_HISTORY Tables.
9. Moved spatially derived data elements from FRS\_FACILITY\_SITE, FRS\_PROGRAM\_FACILITY, FRS\_RES\_PGM\_FACILITY, FRS\_PGM\_FACILITY\_HISTORY, and FRS\_SITE\_HISTORY tables to the geospatial tables.
- The following data elements were removed from FRS\_FACILITY\_SITE and FRS\_SITE\_HISTORY to the geospatial table:
    - GEOCODE\_LATITUDE
    - GEOCODE\_LONGITUDE
    - ACCURACY\_MEASURE
    - US\_MEXICO\_BORDER\_IND
    - HUC\_CODE\_8
    - HUC\_CODE\_12
    - AIRSHED\_CODE
    - CENSUS\_BLOCK\_CODE
    - CONGRESSIONAL\_DIST\_NUM

- The following data elements are removed from FRS\_PROGRAM\_FACILITY, FRS\_RES\_PGM\_FACILITY, FRS\_PGM\_FACILITY\_HISTORY to the geospatial table:

AIRSHED\_CODE

CENSUS\_BLOCK\_CODE

CONGRESSIONAL\_DIST\_NUM

Note: HUC\_CODE\_8 and HUC\_CODE\_12 will stay in this table to store values received from programs.

10. The column STATE\_ID was removed from FRS\_RES\_INTEREST because it is not being used.
11. The column OLD\_AFS\_PGM\_SYS\_ID is being removed from PGM\_FACILITY\_HISTORY, ALT\_NAME\_HISTORY, AFFILIATION\_HISTORY, SIC\_HISTORY, and NAICS\_HISTORY.
12. The following tables were deleted because they are not used:
  - FRS\_FED\_FAC\_DSCRIP
  - FRS\_LOC\_KEY
  - FRS\_ACCESS\_REGISTRY\_HISTORY
13. FRS\_COMMENT – REGISTRY\_ID was added, PGM\_SYS\_ACRNM, PGM\_SYS\_ID, and INTEREST\_TYPE were deleted and the length of USER\_COMMENT was expanded to 4,000.
14. FRS\_STATE\_REF – the column, STATE\_FIPS, was added to the table.
15. FRS\_AFFILIATION & FRS\_AFFILIATION\_HISTORY – removed column STD\_AFF\_TYPE.
16. FRS\_ACCESS\_REGISTRY – the columns EPA\_REGION\_CODE and STATE\_CODE were removed, as these columns are not being populated.
17. FRS\_USER\_REGISTRY – removed column USER\_PW, as single sign-on removes the need to track user passwords. Also, because of single sign-on, the table FRS\_USERID\_HISTORY was deleted.
18. FRS\_INTEREST, FRS\_INTEREST\_HISTORY, and FRS\_RES\_INTEREST – changed ACTIVE\_CODE to ACTIVE\_STATUS to store more descriptive status values specific to programs. For example, for CERCLIS, ACTIVE\_STATUS would have values based on the RNPL\_STATUS\_CODE (e.g., 'Site is Part of NPL Site', 'Deleted from Final NPL', 'Currently on Final NPL').
19. FRS\_ALTERNATIVE\_ID – added UPDATE\_DATE because it was missing.
20. FRS\_USER\_REGISTRY and FRS\_USER\_REGISTRY\_HISTORY
  - Added column PREVIOUS\_USER\_ID varchar2(30)
  - Changed length of USER\_ID and TRANSACTION\_USER\_ID to 30

Future plans include adding/modifying the model to incorporate corporate and sub-facility information.