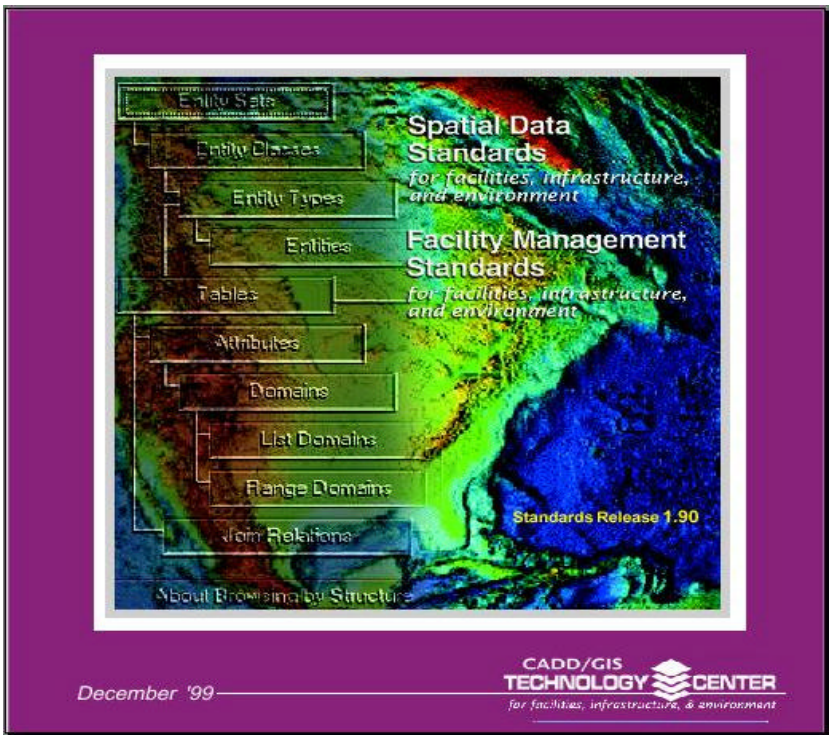
FY 2000 Year-In-Review Article - Project No. 96.013



The completion of the Spatial Data Standards (SDS) for Facilities, Infrastructure, and Environment Release 1.90, in December 1999 marked another major milestone in the CADD/GIS Technology Center's development of standards for GIS implementations. Among the most significant accomplishments included: (1) Further integration of the USACE Mississippi Valley Division's Regional Engineering and Environmental GIS (REEGIS); (2) Incorporation of features provided by an USACE Civil Works Lake Operations task group; (3) Incorporation of additional "Military Range & Training" related features and development of a "Range and Training Filter" (Filters are a predefined subset of the standards); (4) Update of the symbol sets for Micro Station, AutoCAD, & ARCINFO; (5) Major improvements to the two interactive 32-bit software Windows (NT, 95, and 98) software applications (i.e., the Browser and Generator); and (6) Development of the "Filter Maker" Windows software application.

An interim update of the Spatial Data Standards was provided with the SDS/FMS Release 1.95, completed in April 2000. Five hundred Release 1.95 CD-ROMs were published, the majority of which were distributed at the CADD/GIS Symposium and Exposition 2000, St. Louis, MO in May 2000. The major enhancement provided in Release 1.95 involved the development of a new "GeoMedia Generator" software application (i.e., an automated tool which will build a SDS compliant database schema for use with Intergraph GeoMedia GIS software).

Also, FY2000 saw the completion of the alpha version of Release 2.00. Among the most notable Release 2.00 accomplishments included: (1) Incorporation of Real Estate features and data requirements from USACE REMIS/GIS project; (2) Incorporation of additional Airfield, Utility,

Demographics Census, and Environmental Compliance related features; and (3) Revision of the Communications Entity Set data model as recommended by field communications experts.

In addition, 2000 marked the second year The CADD/GIS Technology Center offered SDS Implementation Workshops. Two workshops were offered, with a total of 64 students from various Department of Defense (i.e., Army, Air Force, Marines, Navy, & USACE) organizations, other Federal Government agencies (CIA & FAA), and local government organizations (MARIS & Greater Orlando International Airport) participating. Two mini-workshops were conducted at the U.S. Army's ITAM GIS Workshop and one mini-workshop was offered at the May Symposium.

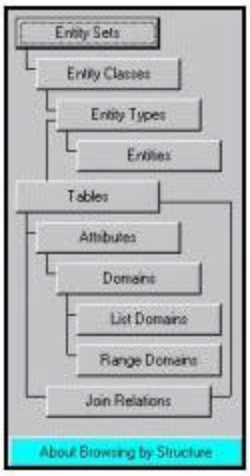
2000 also saw ESRI unveil their new ARCINFO 8.0 GIS software. ARCINFO 8.0 constitutes ESRI's first step in moving their GIS software into the object oriented technology arena. The Center worked closely with ESRI in development of a SDS compliant prototype implementation of the ESRI ARCINFO 8.0 GeoDatabase.

An additional accomplishment included initial approval of the concept for adoption of the SDS as a national GIS standard by the American National Standards Institute (ANSI).

Also, beginning with the Release 2.00, the acronym will be changed to SDSFIE, as directed by the CADD/GIS Technology Center's Standards Committee (SC) and Corporate Staff (CS).

SDS/FMS Structure

Size and Complexity - Release 1.95



26	Entity Sets
174	Entity Classes
971	Entity Types
5,010	Entities
969	Tables
24,208	Attributes
894	Domain Tables
20,659	List Domain Values
18	Range Domains
7,517	Join Relations