PLTS Configuration and Solutions

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Seminar Overview

- **PLTS Solutions**
  - What are they?

- **Working with solutions & Configuring PLTS**
  - Geodatabase schemas
  - Knowledge Base
  - ReViewer Batch Jobs
  - MPS-Atlas Views and Visual Specifications
Solutions

- Industry specific aides to production
- Product specific resources
  - Geodatabase schemas
    - Knowledge base tables
  - Map series information
    - Grid templates
    - Surround
  - Special tools
- Modifiable
  - Edit existing
  - Create from scratch
- Sits ‘on top’ of PLTS Foundation
PLTS ‘framework’
The PLTS Geodatabase Model

- Expands on basic geodatabase
  - Detailed domains
  - Feature classes
    - With subtypes
      - For detailed pre-attribution
  - Schema built to standard
    - Solutions come with several schema options
- Knowledge Base Tables
  - Provided with solutions
  - Can be customized or created from scratch
    - Valid Value Tables (VVTs)
    - Condition Table
    - DBS_FC_VVT table
    - PLTS_Master_CNT table
Solutions and GDB

- **Data Schemas**
  - Provided in PLTS Install directory
  - Used to create geodatabase structure
    - Case tools
    - Geodatabase designer
    - Geodatabase builder (PLTS Defense)

- **PLTS Knowledge base**
  - Used to make the software ‘smart’
  - Suite of tables
    - Validation rules
    - Table of Contents management
    - Feature level metadata
Data Loading

- **PLTS Data Loader**
  - Batch processing
    - Multiple sources to multiple targets in a GDB
    - Can be used with or without a solution
  - Uses Cross Reference database
    - Used to map source to target
    - Templates available
Demo

- Use Case Tools to create the GDB
- Explore and load the PLTS Knowledge Base
- Editing the knowledge base
Data Review: Batch Jobs

- **Used during the data QC process**
  - Example: MGCP and GAIT checks
- **Performs automated data checking**
  - Pre-configured run as part of QC process
  - Records possible errors to the ReViewer table
- **Created using the batch job manager**
  - Modifiable
Demo

- ReViewer  Batch Job Manager
- Batch Validate
MPS Atlas

- Rendering tools in PLTS
  - Valid Value Table (VVT)
    - Renders using feature symbology
    - Uses pre-defined attribute combinations
  - PLTS Visual Specifications Tool (VST)
    - Renders using Representations
    - Rule-to-feature assignment through query language logic
      - SQL and VBScript
  - PLTS Views
    - Store and manage layer files and data frame properties
Valid Value Tables (VVT)

- Part of the Knowledge Base
  - Defines symbology using pre-set attribute combinations
  - One VVT per feature class
- Can be used for data QC
  - Features with invalid attributes symbolized with distinct colors
- Many style columns can be populated
- Comes populated with Solutions
Visual Specifications tool

- Systematic application of representations
  - To features and text strings
    - Calculated Representations
    - Calculated Text Strings

- Specification rules applied using feature attributes
  - SQL or VBScript to query features
  - Once rules applied they become part of the data

- Stored in a geodatabase for easy access and distribution

- Builds on existing ArcGIS representation functionality
PLTS Views

- Alternative ways of displaying the same data
  - For managing layer and data frame properties
  - Fast application of properties
  - Views of data
    - Working views
      - Editing, Data QC, etc
    - Product views
      - Street Atlas, TLM50, TLM100, etc
- Stored in a database
  - Easy to access
  - Distributable
Demo

- Working with PLTS Views
- PLTS Visual Specifications tool