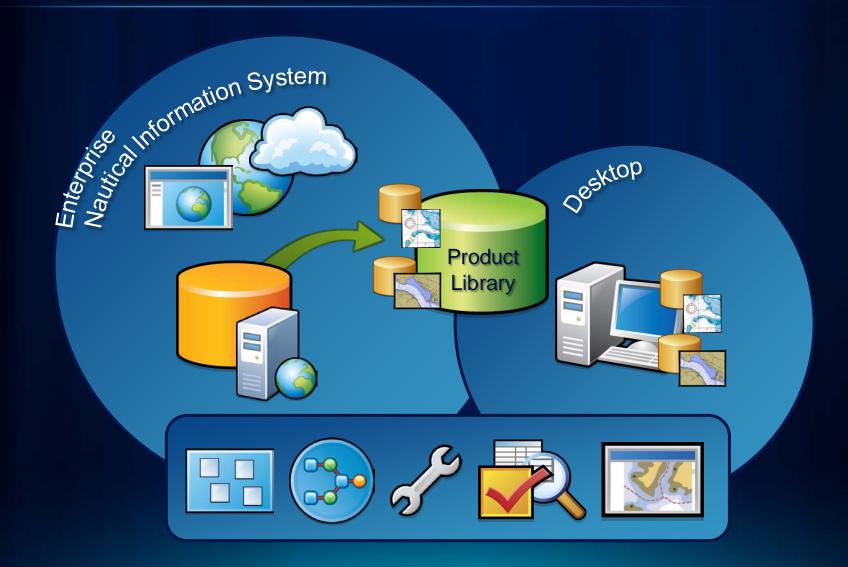


Overview

- System Architecture
- Enterprise Production
- ArcGIS in the Cloud



Esri Nautical Solution



Web Tier

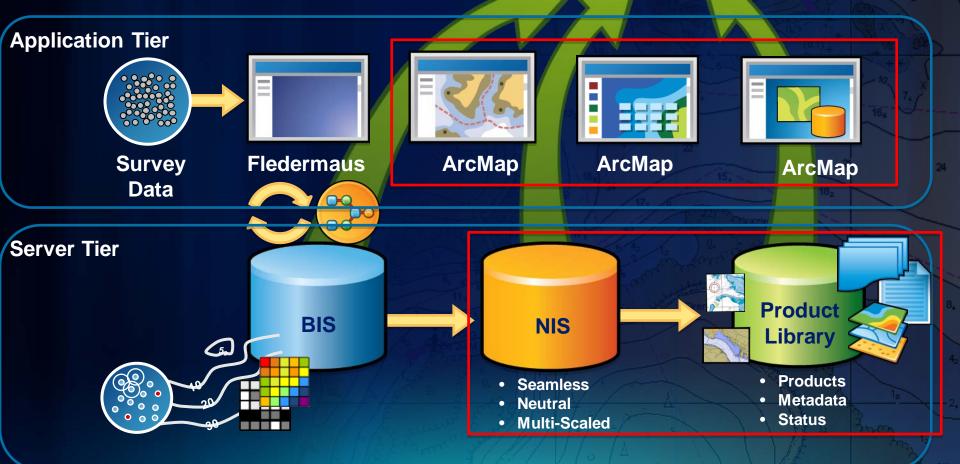
Esri Nautical Solution

Enterprise System Overview



Thin Clients

Rich Clients



Nautical Information System (NIS)

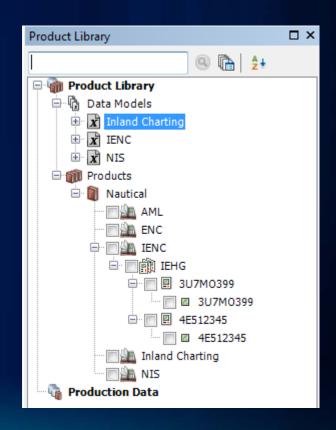


- Product Neutral Geodatabase
 - Centralized data
- RDBMS Neutral
- Updates multiple products with one edit
- One feature one time
- Multiple cartographic displays
- Scale banded (configurable)
- Extendable data model
- Multi-user access
- ArcGIS Server



Product Management using Product Library

- Framework within ArcGIS for effective management of products and associated metadata
- Products managed through "Check-in/out" process
- Contains Business Rules
 - Symbology, Validation, Surround Elements, Data model



Data Loading



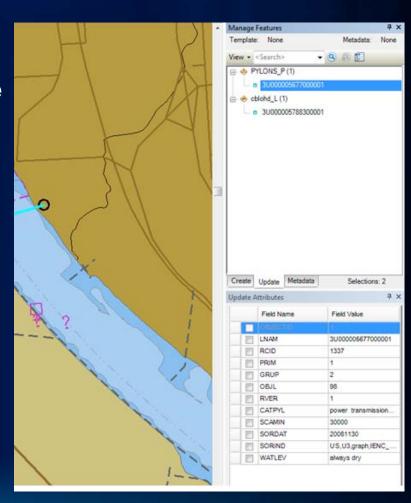
- Import existing S-57 data
- Copy/Paste supported ArcGIS formats
- Heads up digitizing
- Customize using Safe Software FME
 - Data Interoperability Extension



A C

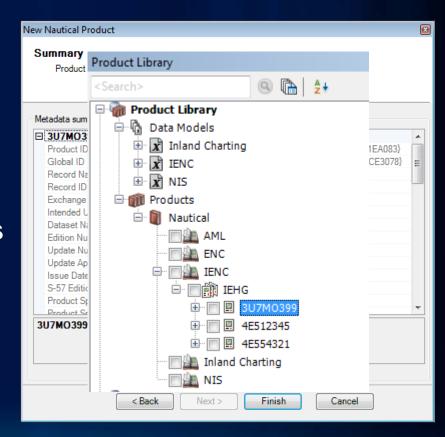
Editing

- Feature Manager
 - Efficiently manage features while editing
 - Symbolized favorites
 - Use of construction tools
 - Integrated with Product Library
 - Field display
 - Validation rules
 - Metadata configuration
 - Specialized tools
 - ArcGIS functionality
 - Geoprocessing
 - Python scripts
 - models



Product Creation: Nautical Product Wizard

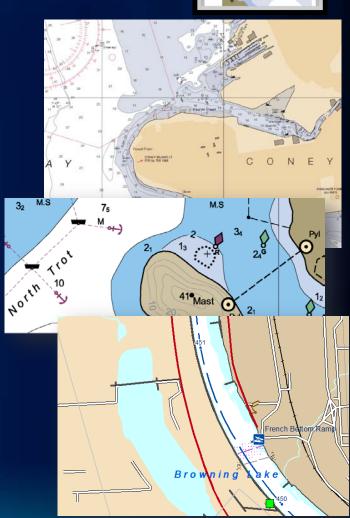
- Leverages Business Rules in Product Library (PL)
- Use existing data (S-57)
- Define new product boundaries
- Extend beyond traditional metadata
- Stores everything in PL



Cartography



- Database driven cartography
 - Persisted through editions
- Edit with Overrides
 - Does not alter data
 - Representations
- Surround Elements stored centrally
 - Linked through Product Library
- Automated masking
- Traditional Charts
- Inland Charts (Books)

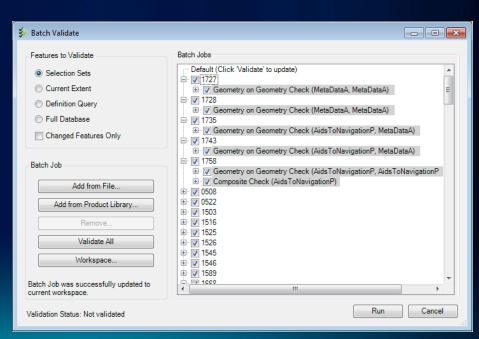




Validation



- Batch Jobs are integrated with Product Library
 - Validation rules stored once
- Reporting
 - Report by check and error description
 - Dashboard
- Run-time validation
- Extensible



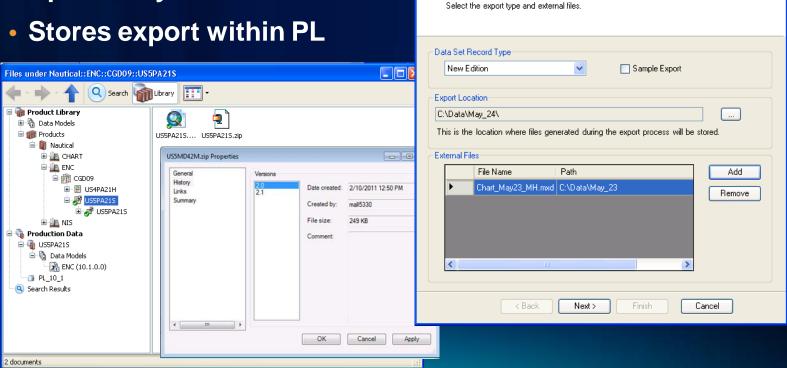


Exporting

Controlled through Product Library (PL)

- Uses existing business rules

Updates system metadata



ENC Export Wizard

US5PA21S Export Information

Workflow Management



- Workflow Manager Extension
 - Bundled with Esri Nautical Solution
 - Equipped for the enterprise (Server enabled)
 - Build standardized workflows
 - Assign, share and monitor jobs
- Task Assistant Manager
 - Bundled with Esri Nautical Solution
 - Deployable through centralized location or locally
 - Build detailed workflow steps (akin to SOPs)
 - Start/stop, pass to other users and chart progress

ArcGIS in the Cloud



Questions?

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