Advances in PARS Ile and Incorporating Automated Testing

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Where Are We?

• Conducting regular and widely-attended training webinars
• Implemented advanced capability for handling sensitive documents (OUO and UCNI)
• Developed “Find It Fast” resource that is intended to provide access to key guidance and templates for Project Teams
• Established infrastructure to take PARS IIe to the next level
PARS IIe – Vision for 2016

Legacy Application

Project Information, Documentation, and Assessments

Project Performance Data

SharePoint 2013 Platform

Business Intelligence (BI) Platform

Lessons Learned

Collaboration

Documentation

Information

Analysis

Knowledge
PARS IIE – Vision for 2016

Oversight & Assessment Module

Project Performance Module

Analysis & Reporting Module
Oversight & Assessment Module

• Modernized Graphical User Interface (GUI)
• Streamlined data presentation
• Improved and simplified project navigation
• Added capabilities (FPD Toolbox, On-Screen Project Overview, Assessment SPELL CHECK)

OA Module Evolution

Legacy Application  Enhanced Document Management (with CUI)  Improved Functionality and User Experience
New OA Module: Quick Peek

**Project Overview**

**OA Overview**

**FPD Toolbox**

**Assessment Spell Check**
Project Performance Module

- Improved User Interface (UI) for file uploads
- Support for XML and MDB data formats
- Capability to “Publish” data submission
- Enhanced error checking and data validation

CPP Module Evolution

- Manual Data Input
- Automated Data Exchange in Proprietary Format
- Automated and Comprehensive Data Exchange in Standard Format
• Question: Are we moving to UN/CEFACT XML?
  – Answer: Yes

• Question: Will existing Extractor be supported?
  – Answer: Yes

• Question: Can I test my XML output?
  – Answer: Yes

• Question: Can I verify that data is correct?
  – Answer: Very soon
What is UN/CEFACT XML?

• International standard for project performance data exchange
• Minimizes the effort required to integrate project management systems
• Supported as standard output by many major software vendors (Oracle, Microsoft, Deltek)
• Contains all necessary data elements to conduct detailed performance analysis
• Does not require any modifications to support future software upgrades
UN/CEFACT XML vs. PARS II MDB

**UN/CEFACT XML**
- Natively supported by software tools
- Inclusive and future-proof data set
- Can be re-used for data exchange with other systems
- Supports scalability and longevity of the process

**PARS II MDB Template**
- Requires use of PARS II Extraction Utility
- Limited, unique, and heavily customized data set
- Proprietary to PARS II data uploads
- Requires continuous updates with new software releases
Analysis & Reporting Module

- On-screen data analysis and reporting through interactive dashboards
- Automated data validation and data analysis
- Scheduled report delivery
- User-defined data exploration and analysis

Reporting Module Evolution

- Manual Process
- Standardized Reporting
- User-Driven Analysis
Business Intelligence (BI) Platform

• Interactive and intuitive interface
  – Reduces learning curve and makes the application more usable for non-technical users

• Integrated Export Transform Load (ETL) Engine
  – Allows shaping of the data to provide robust capabilities for building data modules that meet variety of reporting and analysis requirements now and in the future

• Advanced governed data exploration
  – Provides enhanced capabilities for data reporting and analysis, while maintaining framework for required access control and information security
BI: Near and Long-Term Uses

Near-Term

• Meet monthly departmental reporting requirements
• Support management data calls
• Verify contractor-submitted performance data
• Conduct basic project performance analysis
• Basic support of EVMS certification/surveillance

Long-Term & Ongoing

• Achieve 100% of EVMSIH tests automation
• Offer in-depth data validation capabilities
• Support user-driven detailed data discovery and analysis
• Expand to other available data sources (i.e. budget, cost estimating, accounting, etc.)
Questions