AUSTAL USA, A CASE STUDY IN ADVANCED EVMS

- Integrated Management Concepts
- Encore Analytics

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Austral USA Technology

Challenge
- The move from Subcontractor to Prime Contractor required an expansion to Austral’s Mobile, AL facility.

Solution
- Reinvented the manufacturing facility & process.

Benefit
- Won Prime Contracts for Navy vessel construction programs of JHSV and LCS.

Added Benefit
- Significantly improved manufacturing process and management of those processes.
DecisionEdge CloudEVM Technology

Challenge
- Upgrade software from Client/Server to Cloud/Web.

Solution
- Completely reengineered the software from the User Interface to the Earned Value engine.

Benefit
- Faster software processing allows user to focus on analyzing data and assisting CAMs and PMs ability to access to the software anywhere, anytime on any device.

Added Benefit
- Improved software performance.
What Technology Improvements really mean

- Intuitive User Interface
- Zero Footprint
- Quick Deployment
- Cost Efficient
- Scalable
- Functionally Rich EV Business Solution
- Secure, Enterprise Ready
AustalUSA Process Improvements

Challenge

- Existing processes cumbersome and time consuming.

Solution

- Redesigned processes from the ground up with Meta Data structure that seamlessly enabled the management and analysis of the work.

Benefit

- Reduced work flow time.

Added Benefit

- Improved Analytical Capabilities and Communication between Organizations.
Austal USA Process Improvements

Module
- WBS 1.1
- WBS 1.2
- WBS 1.3

Assembly
- WBS 1.2.1
- WBS 1.2.2
- WBS 1.2.3
- WBS 1.2.4
- WBS 1.2.5

Control Account – Sub Assembly
- WBS 1.2.3.1
- WBS 1.2.3.2
- WBS 1.2.3.3
- WBS 1.2.3.4
- WBS 1.2.3.5
- WBS 1.2.3.6
- WBS 1.2.3.7
- WBS 1.2.3.8

Work Package – Fabricated Parts
- WBS 1.2.3.5.1
- WBS 1.2.3.5.2
- WBS 1.2.3.5.3
- WBS 1.2.3.5.4
- WBS 1.2.3.5.5
- WBS 1.2.3.5.6
- WBS 1.2.3.5.7
- WBS 1.2.3.5.8
- WBS 1.2.3.5.9
- WBS 1.2.3.5.10
- WBS 1.2.3.5.11
- WBS 1.2.3.5.12
- WBS 1.2.3.5.13
- WBS 1.2.3.5.14
DecisionEdge CloudEVM Process Improvements

**Challenge**
- Existing software was cumbersome and hard to use.

**Solution**
- Reinvented software based on lessons learned and user feedback.

**Benefit**
- Streamlined process time from integration through data analysis.

**Added Benefit**
- Allows analyst to actually analyze data and not spend their time processing data.
How EVMS works at AustalUSA
Austal USA Technology and Process Improvements lower Risk and Cost

Challenge
• Implementing process improvements can be slow and difficult to roll out.

Solution
• Process improvements were implemented using the same planning approach that was applied to the factory process.

Benefit
• Faster time to delivery.

Added Benefit
• Productivity improvements due to a higher efficiency
Austal USA Technology and Process Improvements lower Risk and Cost

- Work scope management and solid schedules are the foundation of a good work management system.
- Usable Earned value metrics are natural output of a good work management system.
- Strategic identification of attributes/meta data is critical to support the various stakeholders.
- It is essential to have an internal system to organically train/mentor project control staff.
Challenge

- Reduce overall implementation time.

Solution

- Cloud/Web based solution made implementation and user acceptance much easier and faster.

Benefit

- Processing time more efficient

Added Benefit

- Lower operating costs due to productivity improvements.
Incredible Data Transformation into useful EVM Information
CloudEVM to Empower
CloudEVM Product Demonstration
Empower – Advanced Analytics

- **Integrated Cost/Schedule Analytics**
  - Intuitive user interface (UI)
  - Complete feature set in a single browser-based UI
  - Collaborative narrative collection
- **Integrated Data Health Checks**
  - Earned Value
  - Schedule/IMS
  - Cost/Schedule integration
- **Designed to engage all project stakeholders**
- **Enterprise Level Application**
- **Quickly migrate data and user information from existing analytical tools**
Sample Analytics

Project 123W WBS Hrs (1.A)
Cumulative Cost Variance vs. Percent Complete
Sample Analytics

Project 123W  WBS Hrs (1.A.A.3)

Cumulative Cost Variance vs. Percent Complete

Cost Variance

Percent Complete
