VICTORY VALIDATION – AN INTRODUCTION AND TECHNICAL OVERVIEW
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Agenda

• VICTORY Standards Process Overview

• Validation Team Responsibilities

• Experiment Guidelines and Philosophy

• Initial Validation Status
Why Use VICTORY Standards?

“Stove-Pipe Solutions”

- Multiple GPS units
- Multiple SPUs
- Multiple displays

“Shared Services”

- Shared GPS unit(s)
- Shared SPU(s)
- Shared display(s)
Creating the Victory Standard

- VICTORY Standards Support Office (VSSO)
  - Oversee standards development
  - Market to the community

- Working Groups
  - Research technology
  - Develop specifications
  - Create standards documents
    - Schemas/WSDLs
    - VICTORY Standards Specification
Maturing the Specifications: Validation Team

• Ensure clarity and completeness

• Provide reference implementations
Validation Team Structure

• Software Lead

• Experiment Lead

• Software Developer
Software Lead Responsibilities

• Overall source code design
  – Ensure new components fit

• Source code repository
  – Configure individual experiment repositories
  – Maintain master repository
    • Bug fixes
    • Merges

• Coding standards enforcement
  – Ensures software developers follow the standard
Experiment Lead Responsibilities

- Experiment plan
  - Develop/Document plan
    - Goals
    - Logical/Physical Design
    - Procedures
- Conduct experiment
  - Evaluate VICTORY Specification
    - Specification Document, Schemas, & WSDLs
    - Document findings/make recommendations
- Maintain issue tracking system
- Schedule experiment reviews
Software Developer Responsibilities

- Evaluate VICTORY Specification
  - Specification document
  - Schema & WSDLs

- Document findings
  - Anomalies/ambiguities
  - Make recommendations

- Develop software
  - Implement reference components
  - Follow the VICTORY Coding Standard
Validation Experiment Guidelines

• Goals
  – Mature standards
  – Ensure clarity
  – Reference functional components

• Multiple independent evaluations
  – Evaluators
    • Experiment Lead
    • Software Developer
  – Artifacts
    • Specification Document
    • Schema & WSDLs

• Provide feedback to Working Groups & VSSO
  – Detailed experiment results
  – Recommendations for removing ambiguities
Experiment
Lead

Initial Validation Plan

Evaluate Specifications

Evaluate Specifications

Implement Software Components

Software Developer

Initial Validation Experiment
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VICTORY Services network as implemented in the VICTORY SIL
### Additional Validation Status

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Summary

• VICTORY Standards Process
  – Move from “stove-pipe” to shared services

• Validation Team Responsibilities
  – Software Lead Responsibilities
    • Overall validation software
  – Experiment Lead
    • Overall experiment
  – Software Developer
    • Functional components
Summary: Guidelines and Initial Status

• Validation Experiment Guidelines and Philosophy
  – Independent evaluations
    • Ensure the specifications: clear and complete
    – Provide reference functional components

• Initial Validation Status
  – 136 specifications at proposed level
  – 69 capabilities