

## VICTORY VALIDATION – AN INTRODUCTION AND TECHNICAL OVERVIEW



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Validation Team Responsibilities

Experiment Guidelines and Philosophy

Initial Validation Status







#### Why Use VICTORY Standards?

#### "Stove-Pipe Solutions"



#### "Shared Services"



- Multiple GPS units
- Multiple SPUs
- Multiple displays

- 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



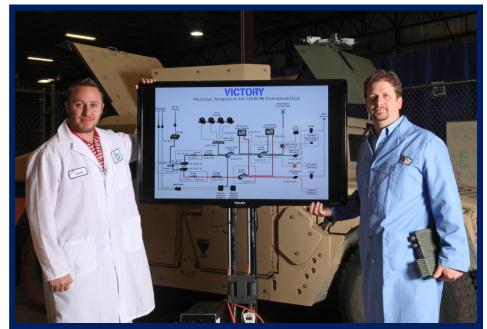
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Software Lead



Experiment Lead











### Software Lead Responsibilities

- Overall source code design
  - Ensure new components fit
- Source code repository
  - Configure individual experiment repositories
  - Maintain master repository
    - Bug fixes
    - Merges



 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







## Validation Experiment Philosophy



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**Software** 

**Developer** 

### Experiment Lead













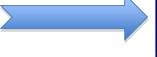
Evaluate Specifications





Initial Validation Plan



















#### **Initial Validation Status**



Specification Version	Number of Experiments	Number of Proposed Specifications
1.0	20	108
1.1	14	35
1.2	16	37
1.3	~12	~20
1.4	~18	~45
Total	~80	~240

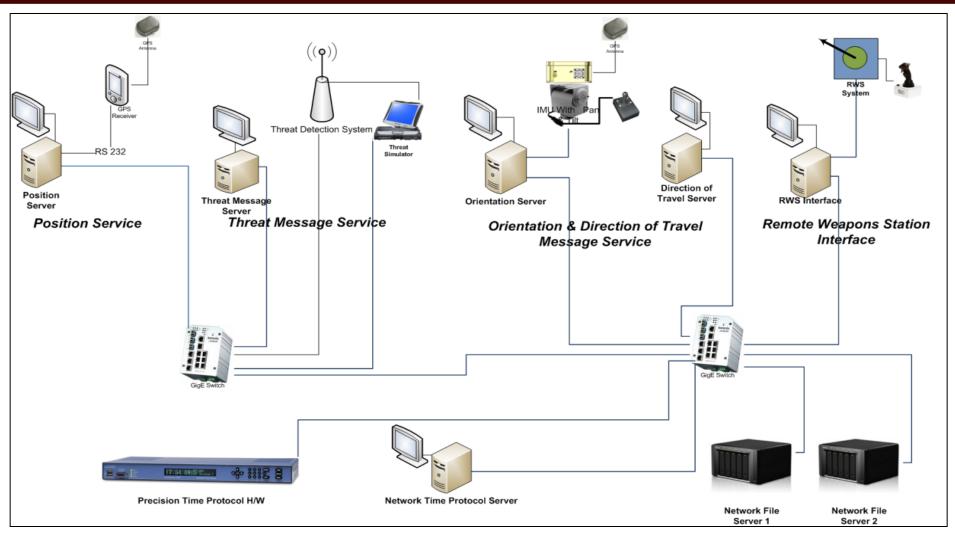






# VICTORY Services network as implemented in the VICTORY SIL











### **Additional Validation Status**



Specification Version	Number of Experiments	Number of Proposed Specifications
1.0	45	96
Total	45	96





- 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



