e. Table of Contents

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Front Matter

- a. Cover Page
- b. Summary of Changes
- c. Abstract
- d. Copyright Notice
- e. Table of Contents
- f. Preface
- g. OMG Discussion Paper Disclaimer

User Experiences

- Use Case 1: Connected Healthcare
- Use Case 2: Tactical Microgrid Standard (TMS)
- Use Case 3: Smart Manufacturing
- Use Case 4: Digital Agriculture
- Use Case 5: General Vehicle Architecture (GVA)
- Use Case 6: Kubernetes (K8s)
- User Scenario 1: Energy Sector
- User Scenario 2: Data Acquisition and Instrumentation
- User Scenario 3: Medical Devices

Appendices

No subnamespaces.

Questions

1. Intro to the document (audience, what it is, what it is not)
2. Intro to DDS
    - a. History
    - b. What is the Problem it solves?
    - c. Aren't there other solutions?
    - d. What is Realtime?
    - e. How fast is fast?
    - f. How Scalable is DDS?
    - g. Is it Portable?
    - h. Is there a Standard?
3. Portability
    - a. What is Portability
    - b. API
    - c. Interface Definition Language (IDL)
    - d. Procedural Languages (C/C++, Java, C#)
    - e. Protocol - is different (see next section)
    - f. Platform Portability - Computer, server, phone adrino, etc
4. Interoperability
    - a. What is Interoperability?
    - b. Protocol
    - c. Between DDS Products
    - d. Bridges to other Messaging Products
    - e. Security
5. Maintainability
    - a. X-Types
6. Integration
    - a. SOSA/MOSA
    - b. Sensor Open System Architecture
    - c. Modular Open System Architecture (or approach)
    - d. NGVA
7. Basic Architecture of DDS
    - a. What is Architecture
    - b. Distributed
    - c. Data Centric
    - d. Publish – Subscribe
8. Couldn't I implement it myself?
    - a. Do you build infrastructure or do you want to build your business
9. What is a Topic?
    - a. Name
    - b. datastructure
    - c. Set of Quality of Service (QoS) Policy
    - d. Introduce Domain (Topics belong to the Domain)
    - e. (clarify with Java Message Queue)
10. How to Define a Structure
    - a. IDL
    - b. Simple Structure

    - c. Complex Structures
    - d. Converting from IDL to other Procedural Languages
    - e. Data Marshalling
    - f. Byte order: Big/Little Endian
    - g. Word size: 32-bit/64-bit
    - h. X-Types
11. How to Define QoS
    - a. What is QoS?
    - b. Do I need all of them?
    - c. Useful Subsets of QoS
12. Readers and Writers
    - a. What is a Writer?
    - b. What is a Reader?
    - c. Hello World Example
13. Shapes Demo
    - a. Where I get the Demo?
    - b. Can I download multiple vendor Shapes Readers/Writers? (links)
14. Medical Device Example
15. Glossary

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