

e. Table of Contents

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Front Matter

this namespace doesn't exist: ddsf:private:guidebook:01_front

DDS Chapters

No subnamespaces.

User Experiences

this namespace doesn't exist: ddsf:private:guidebook:03_user

Demonstration Projects

No subnamespaces.

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, arduino, 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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