

e. Table of Contents

[return to Front Matter](#)

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.

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

XIV. Glossary

From:

<https://omgwiki.org/ddsf/> - **DDS Foundation Wiki**

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