

System Architecture Reference Model (RASDS++)

Viewpoint Specs

Stakeholders

Concerns

Viewpoints

Enterprise

- Organizations
- Domains
- Capabilities
- Requirements
- Resources
- Agreements / Contracts
- Budget

Functional

- Composition
- Behavior
- Abstract Interfaces
- Abstract information flows

Protocol

- Functionality
- Peer Behavior
- Protocol Data Units (PDU)
- Standards
- Required/Provided Interfaces

Information

- Type
- Representation
- Structure
- Relationships

Service

- Service functions
- Service operations
- Interface protocol
- Service constraints

Physical

Connectivity

- Node-to-node Communication
- End-to-end flows

Structural

- Physical connections
- Materials
- Static / dynamic
- Mass

Energetic

- Electrical
- Magnetic
- Thermal
- Propulsive
- Gravitational
- ...

Position

- Location
- Velocity

Operational

- Process
- Procedure
- Activity

Views

Representations

- Powerpoint "cartoons"
- SysML diagrams
- OML Ontologies

Methods

define representation & contents

have

address

describe systems from these perspectives

define

define