

RASDS Connectivity View Representation

Related to the Physical Viewpoint, but focus is on data connections not physical connections or energetic flows.

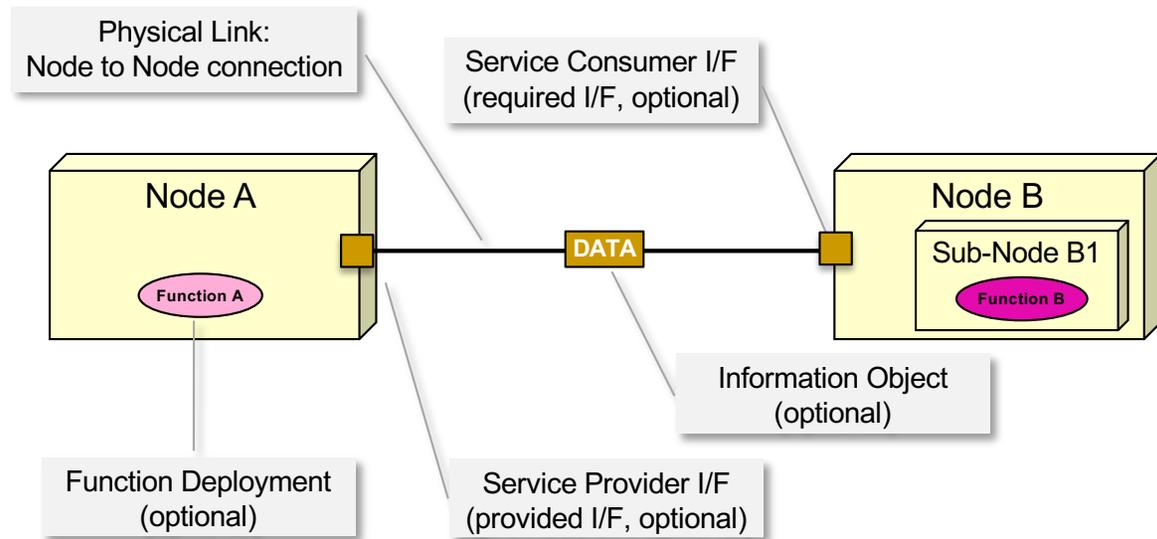
Nodes (Components) will explicitly connect via some Physical Link. This may be free space (RF or optical) or it may be a hardware connection of some sort (cable, twisted pair, fiber optic).

A Node may explicitly define a physical interface, but this is not required. Nodes may have a provider/consumer relationship or they may be peers.

May show allocation of implemented Functions, in hardware (as a sub-node) or in software. These are tied by correspondence to the Functional View where they are defined.

May explicitly identify the information objects exchanged over the link (tied by correspondence to the Information View where they are defined).

May explicitly identify the protocol stack at an interface (tied by correspondence to the Communications View where they are defined).



Specific and Generic Object Types and Containment:

-  Denotes a specific Node (physical component), may have embedded components
-  Denotes an implementation of a defined function, may be software or hardware (optional, see Functional Viewpoint)
-  Denotes a Physical Link (Connector of some sort) between two Nodes
-  Denotes a physical interface (optional, allows interface type to be characterized)
-  Information Object describing communicated data, which may be defined in the Information Viewpoint and referenced by correspondence
-  Denotes a protocol layer at an interface (not shown here, optional overlay, allows interface binding to be characterized by correspondence, see Communications Viewpoint)