

RASDS Physical (Structural) View Representation

Related to the Connectivity Viewpoint, but focus here is on physical characterization, connections and energetic flow, not data.

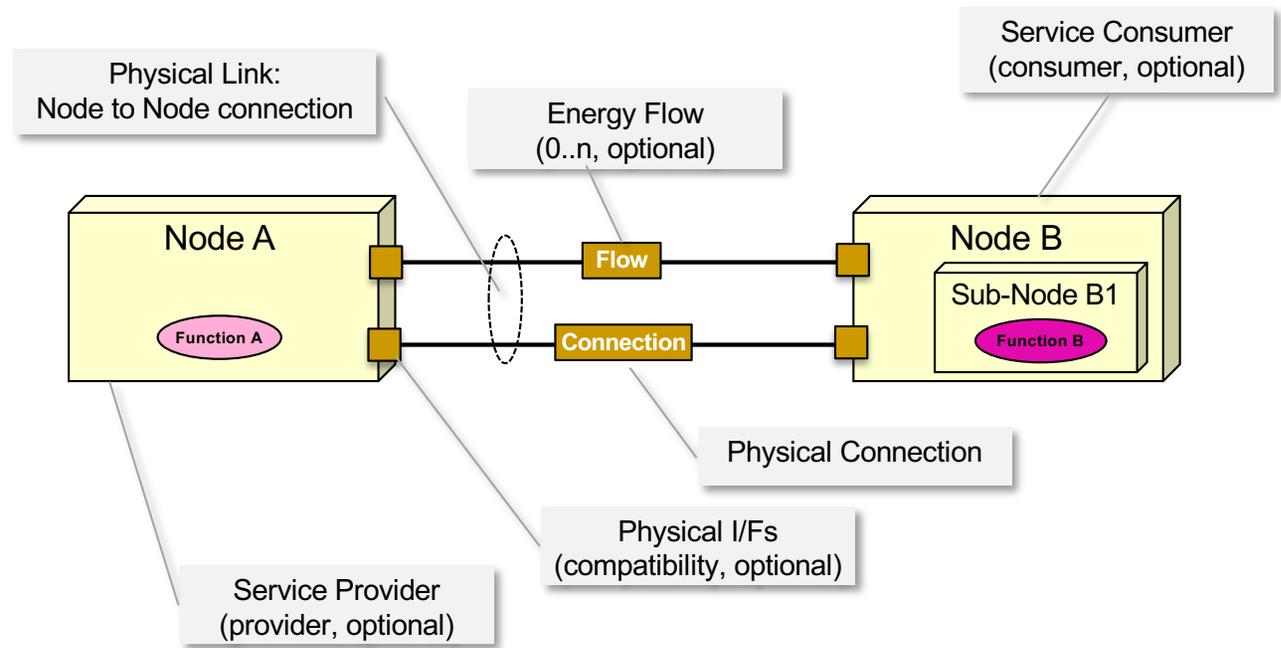
Nodes (Components) will explicitly connect via some Physical Link. Nodes will have mass, power, thermal, and other properties. A Node may explicitly define a physical interface, but this is not required.

Physical connection (represents energetic constraint). This may be dynamic or static, structural / rigid, flexible, or other energetic (electromagnetic, thrust, gravitational, thermal radiation).

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

May explicitly identify the flows exchanged by the objects using the link (defined in these views).

May explicitly identify the physical interface or connection type.



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 and referenced by correspondence, see Functional Viewpoint)
-  Denotes a Physical Link (Connection of some sort) between two Nodes
-  Denotes a Physical Interface (optional, allows interface type to be characterized)
-  Information Object describing flow or connection, which may be fully defined in the Information Viewpoint and referenced by correspondence