

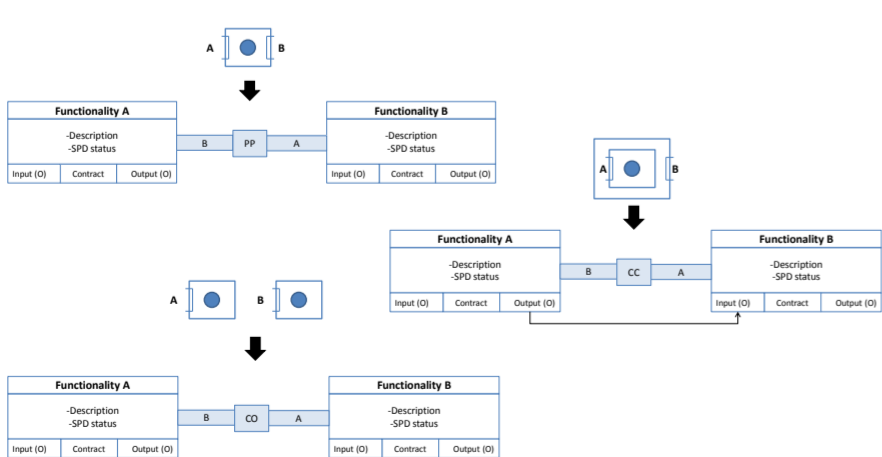
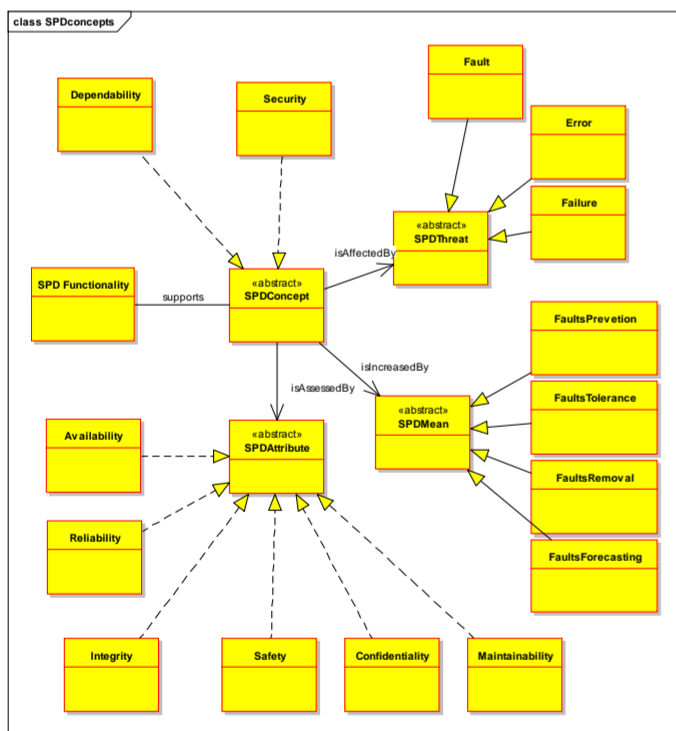
WP5 – SPD Middleware & Overlay Task 5.1 - SPD Driven Semantic

This prototype represents the pSHIELD Semantic model used to:

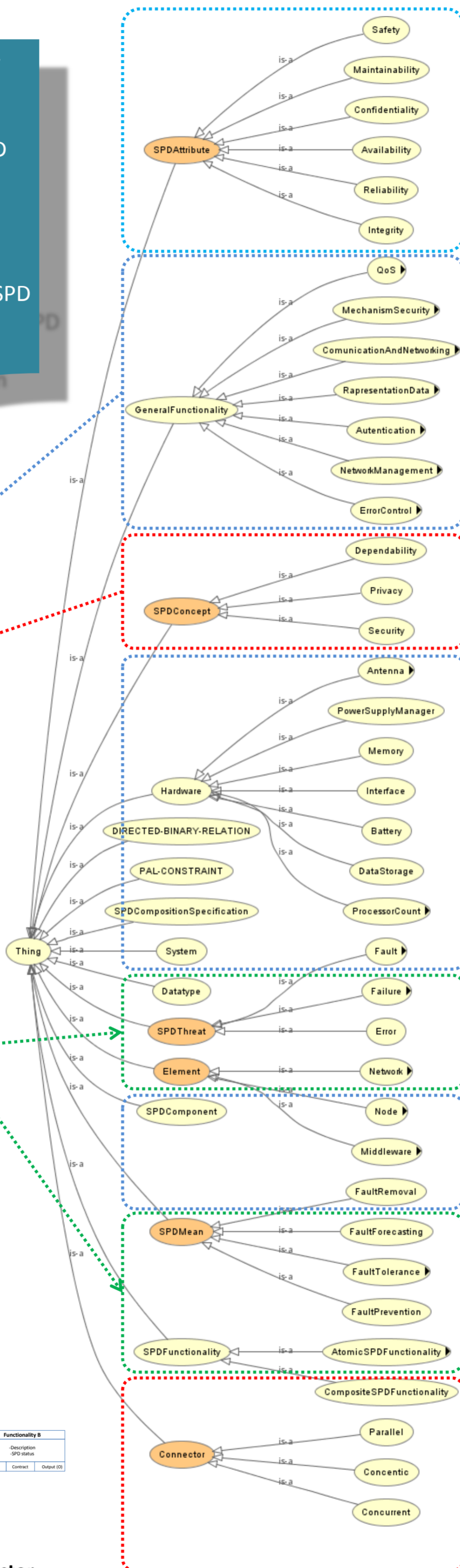
- describe the system
- identify the (SPD) functionalities
- extrapolate relations between components and functionalities (in a SPD perspective)
- perform and quantify composition

System Functionalities
performed by pSHIELD system

SPD Concepts expressed
by means of metrics



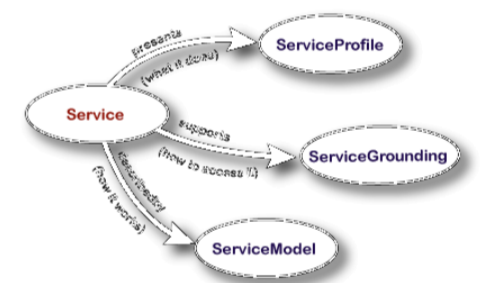
Atomic SPD Functionalities and Connector
to enable composability



SPD Attributes to map SPD requirements into
pSHIELD physical and functional components



pSHIELD Node and Network described



OWL-S to describe
Middleware Services

pSHIELD Ontology flow

- The pSHIELD System is composed by Node, Network and Middleware **elements**
- These elements are made by real **hardware** components and realizes some **functionalities**
- Some of these components can be considered as **SPD Component** as well as some of these functionalities realise SPD Functionalities
- SPD Functionalities can be **composed**
- SPD Functionalities impact **SPD Attributes**
- SPD Attributes are affected by **SPD Threats**
- SPD Threats can be improved by **SPD Means**