Unit 3 Task: SysML Home Network
  • Program used: Gaphor (Linux)

pkg Home Network Model [Model Organisation]

| Requirements | Behaviour | Structure | Parametrics |

req [Package] Requirements [Home Network Requirements]

«requirement»
Home Network

«requirement»
WAN
(from Home Network)

«requirement»
LAN
(from Home Network)

«requirement»
Power
(from Home Network)

«requirement»
Availability
(from Home Network)

«requirement»
Reliability
(from Home Network)

«requirement»
Security
(from Home Network)

bdd [Package] Structure [Home Network System Hierarchy]

«block»
Home Network Context

«block»
Wireless Router

«block»
Wired Internet

«block»
Switch

«block»
Desktop (wired)

«block»
Laptop (wireless)

«block»
pfSense Server

«block»
Printer (wired & wireless)

«block»
Tablet (wireless)

act [Activity] Connectivity

| «block» Switch | «block» Wired Internet | «block» pfSense Server | «block» Wireless Router | «block» Desktop | «block» Laptop | «block» Tablet | «block» Printer |

- Provide proxy layer
- Power System
- Provide Connection
- Provide Internet Port
- Connect to WAN/LAN (Wired)
- Connect to WAN/LAN (Wireless)
- Connect to WAN/LAN (Wireless)
- Print (Wired)
- Print (Wireless)