

untitled-ontology-67 (http://www.semanticweb.org/avvm1/ontologies/2022/2/untitled-ontology-67) : [C:\Users\avvm1\Desktop\Ontology\Computer Networks\Computer Networks.owl]

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untitled-ontology-67 (http://www.semanticweb.org/avvm1/ontologies/2022/2/untitled-ontology-67) Search for entity

Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf Ontology Differences SPARQL Query

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Computer\_Networks

- Thing
  - Computer\_Networks
    - Uses\_Of\_Networks
    - Reference\_Models
    - Network\_Hardware
    - Network\_Software
    - Network\_Security
    - Examples\_Of\_Networks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Uses_Of_Networks; Computer_Networks --> Reference_Models; Computer_Networks --> Network_Hardware; Computer_Networks --> Network_Software; Computer_Networks --> Network_Security; Computer_Networks --> Examples_Of_Networks;
```

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Search for entity

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Class hierarchyClass hierarchy (inferred)

Class hierarchy: Uses\_Of\_Networks

Thing

- Computer\_Networks
  - Uses\_Of\_Networks
    - Business\_Application
    - Home\_Application
    - Mobile\_Application
    - Social\_Issues
  - Reference\_Models
  - Network\_Hardware
  - Network\_Software
  - Network\_Security
  - Examples\_Of\_Networks

OntoGraf:

Search:containsSearchClear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Uses_Of_Networks; Uses_Of_Networks --> Mobile_Application; Uses_Of_Networks --> Business_Application; Uses_Of_Networks --> Social_Issues; Uses_Of_Networks --> Home_Application;
```

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Class hierarchyClass hierarchy (inferred)

Class hierarchy: TCP/IP\_Reference\_Model

Thing

- Computer\_Networks
  - Uses\_Of\_Networks
  - Reference\_Models
    - OSI\_Reference\_Model
    - TCP/IP\_Reference\_Model
  - Network\_Hardware
  - Network\_Software
  - Network\_Security
  - Examples\_Of\_Networks

OntoGraf:

Search:containsSearchClear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Reference_Models; Reference_Models --> OSI_Reference_Model; Reference_Models --> TCP/IP_Reference_Model; style TCP/IP_Reference_Model stroke:#00FF00,stroke-width:2px
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Application\_Layer

- Thing
  - Computer\_Networks
    - Uses\_Of\_Networks
    - Reference\_Models
      - OSI\_Reference\_Model
        - Physical\_Layer
        - Data\_Link\_Layer
        - Network\_Layer
        - Transport\_Layer
        - Session\_Layer
        - Presentation\_Layer
        - Application\_Layer
      - TCP/IP\_Reference\_Model
    - Network\_Hardware
    - Network\_Software
    - Network\_Security
    - Examples\_Of\_Networks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Reference_Models; Reference_Models --> OSI_Reference_Model; Reference_Models --> TCP_IP_Reference_Model[TCP/IP_Reference_Model]; OSI_Reference_Model --> Physical_Layer; OSI_Reference_Model --> Data_Link_Layer; OSI_Reference_Model --> Network_Layer; OSI_Reference_Model --> Transport_Layer; OSI_Reference_Model --> Session_Layer; OSI_Reference_Model --> Presentation_Layer; OSI_Reference_Model --> Application_Layer; style Application_Layer stroke:#00FF00,stroke-width:2px;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Network\_Hardware

- Thing
  - Computer\_Networks
    - Uses\_Of\_Networks
    - Reference\_Models
    - Network\_Hardware
      - BroadCast\_Links
      - Point\_to\_Point\_Links
    - Network\_Software
    - Network\_Security
    - Examples\_Of\_Networks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Network_Hardware; Network_Hardware --> BroadCast_Links; Network_Hardware --> Point_to_Point_Links;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Point\_to\_Point\_Links

- Thing
  - Computer\_Networks
    - Uses\_Of\_Networks
    - Reference\_Models
    - Network\_Hardware
      - BroadCast\_Links
      - Point\_to\_Point\_Links
        - LAN
        - WAN
        - MAN
        - Home\_Networks
        - Inter\_Networks
        - Wireless\_Networks
  - Network\_Software
  - Network\_Security
  - Examples\_Of\_Networks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Network_Hardware; Network_Hardware --> BroadCast_Links; Network_Hardware --> Point_to_Point_Links; Point_to_Point_Links --> LAN; Point_to_Point_Links --> WAN; Point_to_Point_Links --> MAN; Point_to_Point_Links --> Home_Networks; Point_to_Point_Links --> Inter_Networks; Point_to_Point_Links --> Wireless_Networks;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Protocol\_Hierarchies

- Computer\_Networks
  - Uses\_Of\_Networks
  - Reference\_Models
  - Network\_Hardware
  - Network\_Software
    - Connection\_Oriented\_and\_Connectionless\_Serv...
    - Design\_Issues\_For\_The\_Layer
    - Protocol\_Hierarchies
    - Service\_Primitives
    - The\_Relationship\_of\_Services\_to\_Protocols
  - Network\_Security
  - Examples\_Of\_Networks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Network_Software; Network_Software --> Connection_Oriented_and_Connectionless_Serv...; Network_Software --> Design_Issues_For_The_Layer; Network_Software --> Service_Primitives; Network_Software --> Protocol_Hierarchies;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Authentication

- Thing
  - Computer\_Networks
    - Uses\_Of\_Networks
    - Reference\_Models
    - Network\_Hardware
    - Network\_Software
    - Network\_Security
      - Authentication
      - Communication\_Security
      - Cryptography
      - Digital\_Signature
      - Public\_Key\_Algorithm
    - Examples\_Of\_Networks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Network_Security; Network_Security --> Authentication; Network_Security --> Communication_Security; Network_Security --> Cryptography; Network_Security --> Digital_Signature; Network_Security --> Public_Key_Algorithm;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Examples\_Of\_Networks

- Thing
  - Computer\_Networks
    - Uses\_Of\_Networks
    - Reference\_Models
    - Network\_Hardware
    - Network\_Software
    - Network\_Security
    - Examples\_Of\_Networks
      - Internet
      - Ethernet
      - Wireless\_LAN
      - Connection\_Oriented\_Network

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Computer_Networks; Computer_Networks --> Examples_Of_Networks; Examples_Of_Networks --> Internet; Examples_Of_Networks --> Ethernet; Examples_Of_Networks --> Wireless_LAN; Examples_Of_Networks --> Connection_Oriented_Network;
```

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