

Title:

The OSI Reference Model and TCP/IP architecture

Word Count:

436

Summary:

The OSI Model was developed by the International Organization for Standardization in order to

Keywords:

iso, iso/osi, reference model, tcp, IP, udp

Article Body:

The model represents a standard for connecting network systems. The model does not specify the

The OSI Model consists of seven layers, each of which, as was already stated, receives

1. Physical layer
2. Data Link layer
3. Network layer
4. Transport layer
5. Session layer
6. Presentation layer
7. Application layer

Description of the individual layers

Physical Layer

The Physical layer comprises the lowest layer of the OSI model. Its function is to est

Data Link Layer

The Data Link layer provides the link between two adjacent network entities, establish  
Bridges and switches operate at this layer.

Network Layer

The Network layer provides functional means of transferring data from a source to a de  
Routers work with a hierarchical addressing scheme. The most widely known protocol of

Transport Layer

The Transport layer provides data transfer between end users. The main transport layer protoc

TCP

- " a reliable data transfer protocol
- " Flow control protocol regulates receiving of data packets and prevents the TCP receive
- " Windowing - after certain amount of data packets have been labelled as received (the a

UDP

- " an unreliable data transfer protocol
- " used by network applications that do not require the whole of data packets to be recei

Session layer

The Session layer coordinates data transfer between cooperating session layers.

Presentation layer

This layer is responsible for formatting of the data for application entities. Its fun

Application Layer

The Application layer provides the application entities with the access to the communi

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