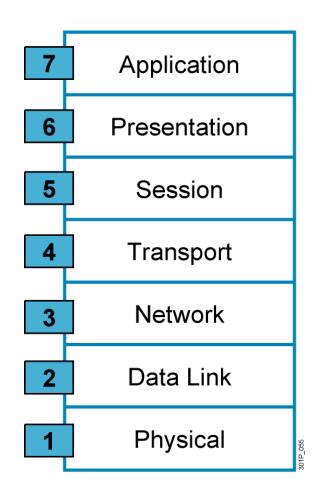


Ağ Temelleri 7.Hafta

Öğr.Gör.Volkan ALTINTAŞ www.volkanaltintas.com



- Eski Model
  - Özel
  - Uygulama ve bunların kombinasyonları yazılım, bir kişi tarafından kontrol edilen
- Standartlara Dayalı Modeller
  - Çok sahipli
  - Katmanlı Uygulamalar



- Karmaşıklığı azaltır
- Standart Arayüzler
- Mühendisliği Kolaylaştırır
- Birlikte çalışabilen teknolojiyi sağlar.
- Gelişimi hızlandırır
- Öğretim ve öğrenmeyi kolaylaştırır.
- OSI: Open Systems Interconnection (1977)
- ISO: International Organization for Standardization

Application Presentation 6 Session Transport Network Data Link Physical

Network Process to Applications

**Data Representation** 

Interhost Communication

**End-to-End Connections** 

Data Delivery

Access to Media

### Binary Transmission

 Defines the electrical, mechanical, procedural, and functional specifications for activating, maintaining, and deactivating the physical link

Application Presentation Session Transport Network Data Link Physical

**Network Process to Applications** 

**Data Representation** 

**Interhost Communication** 

**End-to-End Connections** 

Data Delivery

#### Access to Media

- Defines how data is formatted for transmission and how access to the network is controlled
- Provides error detection

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Application Presentation Session Transport Network Data Link Physical

Network Process to Applications

Data Representation

**Interhost Communication** 

**End-to-End Connections** 

### **Data Delivery**

- Routes data packets
- Selects best path to deliver data
- Provides logical addressing and path selection

3

**Application** Presentation 5 Session Transport Network 3 Data Link Physical

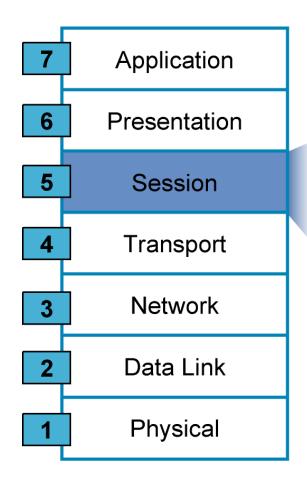
**Network Process to Applications** 

**Data Representation** 

**Interhost Communication** 

#### **End-to-End Connections**

- Handles transportation issues between hosts
- Ensures data transport reliability
- Establishes, maintains, and terminates virtual circuits
- Provides reliability through fault detection and recovery information flow control

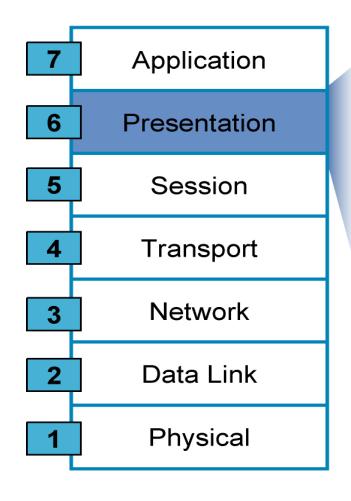


**Network Process to Applications** 

**Data Representation** 

#### **Interhost Communication**

 Establishes, manages, and terminates sessions between applications

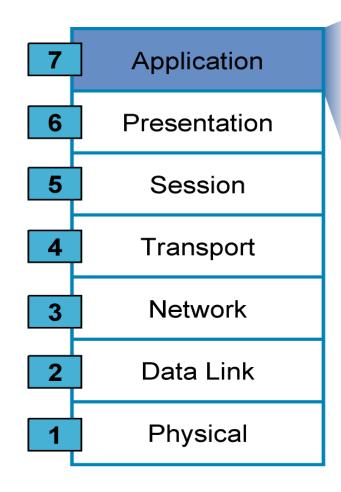


### **Network Process to Applications**

### Data Representation

- Ensures that data is readable by receiving system
- Formats data
- Structures data
- Negotiates data transfer syntax for application layer
- Provides encryption

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### **Network Processes to Applications**

- Provides network services to application processes (such as electronic mail, file transfer, and terminal emulation)
- Provides user authentication