Protecting Information Assets - Unit# 6a -

Network Security

Agenda

- Open Systems Interconnection Model: Foundation for understanding networks
- Concept of Perimeter (Boundary Protection)
- Defense-in-Depth and Layered Architectures (Tiers)
- Role of Network Segmentation (Compartmentalize)
- Security Information and Event Management (SIEM)
- Quiz

Telecommunication Models

Help understand electromagnetic transmission of data among systems

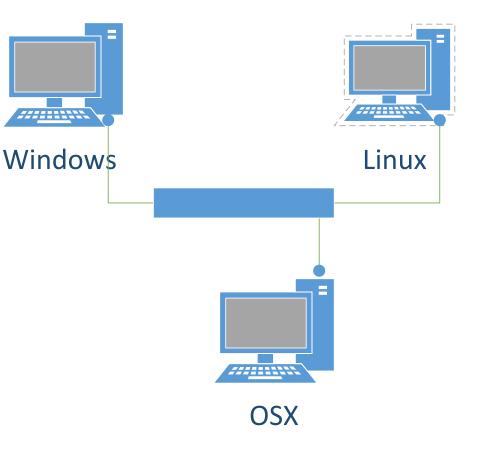
- Through digital, wireless and analog transmission networks
- **Models** and standards of the following organizations have shaped our IT communication technology today
 - International Telecommunication Union (ITU)
 - International Standards Organization (ISO)



Information and Communications Technologies (ICT)

Network protocol

- Standard set of rules that determines how systems communicate across networks
- Different systems can use the same protocol to communicate and understand each other despite their differences



Open Systems Interconnection(OSI) Reference Model – ISO Standard 7498-1



OSI Model

 Guidelines used by vendors, engineers, developers to develop products that enable computer systems to interoperate

• Open network architecture is

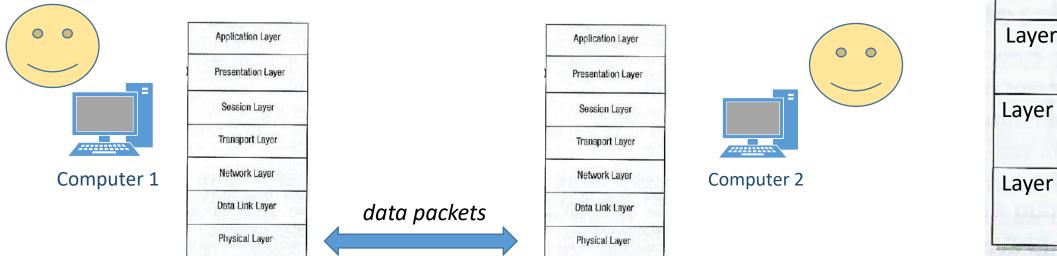
- Not owned by vendors and not proprietary
- Can easily integrate various technologies and vendor implementation of those technologies

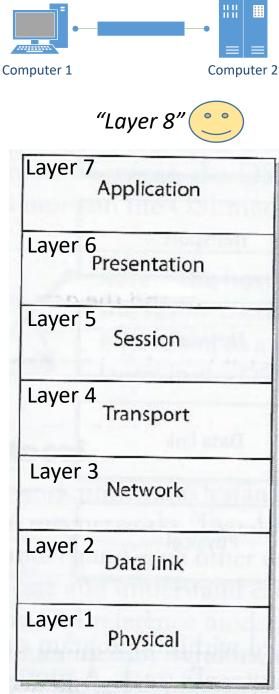
Graphics on the following slides come from Harris S. and Maymi F. (2016) <u>All in One CISSP Exam Guide</u>, Seventh Edition

Open Systems Interconnection(OSI) Reference Model – ISO Standard 7498-1

OSI Model

- Guidelines used by vendors, engineers, developers to enable their systems to interoperate
- Layers networking tasks, protocols and services into different layers
- Each layer has its own responsibilities regarding how two computers communicate over a network

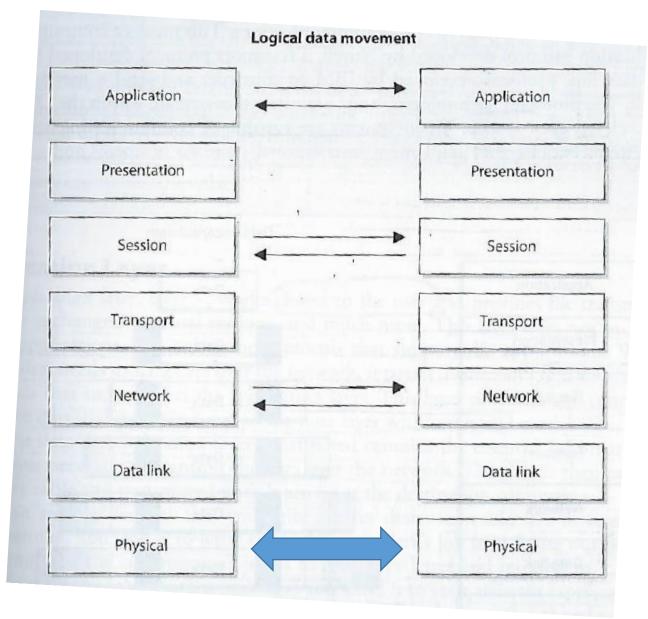




Computers communicate via network

- Protocols function in specific OSI layers
- Each protocol on one computer communicates with the same corresponding protocol within the same OSI layer on another computer
- Via logical channels

 At the physical layer electronic/light signals are passed from one computer over a wire/fiber optic cable to the other computer



Computer 1

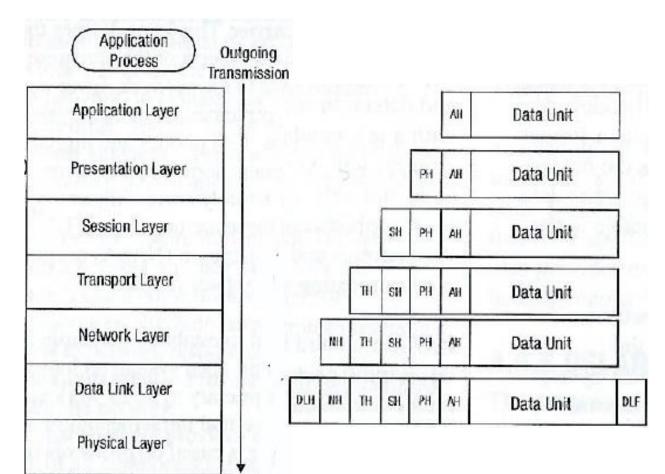
Computer 2

Encapsulation

• Process by which a protocol is used to enable two computers to communicate with each other within a specific OSI layer on each

1. A message is constructed within a program on one computer and passed down through a stack of network protocols...

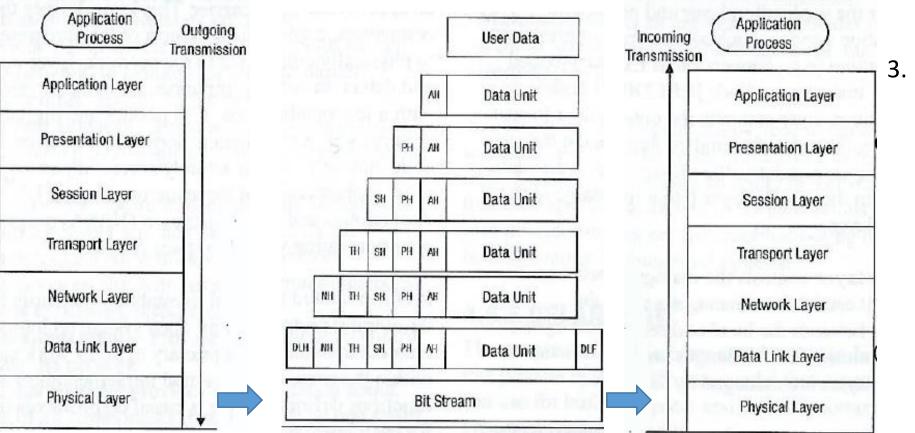
A protocol at each layer adds its own information to the message, and the message grows in size as it goes down the protocol stack & is prepared for transfer over the network



Computer 1 Computer 2

Encapsulation

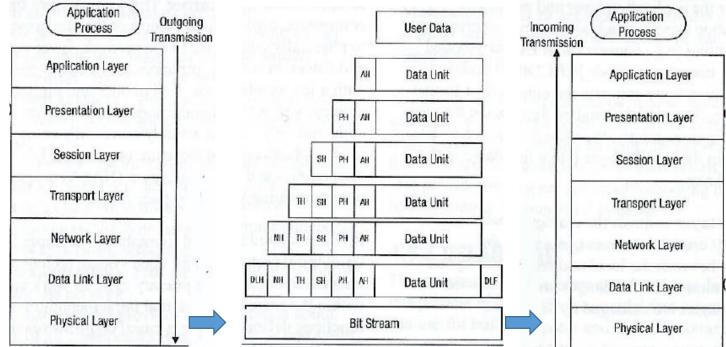
2. At the physical layer of the network the message is passed by the sending computer as bits via electronic or light pulses (on/off) across the network to the destination computer



At the destination computer the encapsulation is reversed taking the message apart via the protocols of each layer until the data is ready for the application processing

OSI Network Model

- A protocol at each layer expects the data in a particular format ("syntax") and performs specific control functions on the data
- Data for control functions are added by the protocols at each layer in the form of headers and trailers of the datagram/packet/frame
- Each layer has a connection point ("interface") that allows it to communicate with 3 other layers, communications with:
- 1. Interface of the layer above
- 2. Interface of the layer below it
- 3. Communications with the same layer in the interface of the destination computer



OSI Layers

- Specifications for each layer's interface is very structured
- Implementing international standard protocols and interfaces within different vendors' technologies makes them part of an "open system" in which computers can communicate with one another
- Being part of an open system of protocols makes the different layers of a common network stack vulnerable and targets of attack

A network can be:

- 1. Used as a <u>channel of an attack</u> i.e. as a resource for an attacker
 - For example: Attacker sends a virus via a network channel from one system to another
- 2. The <u>target of an attack</u>
 - For example: Attacker carries out a denial-of-service (DoS) attack which sends a large volume of badly formed protocol message traffic over a network link to bog it down

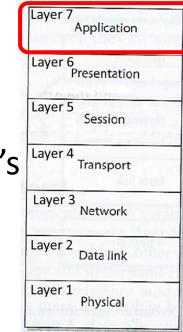
Layer 7 Applicat	ion
Layer 6 Presenta	tion
Layer 5 Session	n
Layer 4 Transpo	ort
Layer 3 Networ	'k
Layer 2 Data lin	k
Layer 1 Physica	il gun b

Works closest to the user – providing protocols that support the user's applications

For example: File transmissions, message exchanges, terminal sessions...

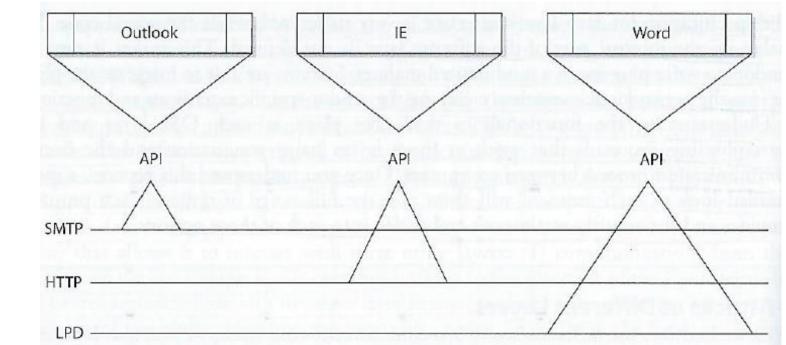
 When an application needs to send data over the network, it passes instructions and data through the protocols that support it at the application layer

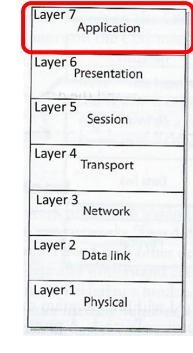
Application layer properly formats the data and sends it down to the presentation layer... (after data makes it through all the layers it has all the information needed to transmit it over the network)



Applications communicate with Layer 7 protocols by sending requests using Application Program Interface (API) libraries

E.g. Outlook user clicks send, and the email client sends this information to SMTP (Simple Mail Transfer Protocol) which adds information to the user's message and passes it down to the Presentation Layer





Many application service-specific protocols are available within Layer 7, including:

Running Commands and Applications

- **Telnet** A terminal emulation network application that supports remote connectivity for executing commands and running applications. It does not support transfer of files
- X Window A graphical user interface (GUI) application programming interface (API) for command-line operating systems

File Transfer:

- File Transfer Protocol (FTP) A network application that supports exchange of files which supports either anonymous and specific authentication
- Trivial File Transfer Protocol (TFTP) A network application that supports exchange of files that does not require authentication
- Network File System (NFS) A network service used to support file sharing between different systems

Email:

- Simple Mail Transfer Protocol (SMTP) A protocol for transmitting email messages from a client to an email server and from one email server to another
- Post Office Protocol (POP3) A protocol for pulling email messages from an inbox on an email server down to an
 email client
- Internet Message Access Protocol (IMAP) More secure than POP3. A protocol for: pulling email messages from an inbox on an email server down to an email client; pulling email message headers from the email server and deleting messages from the email server (without pulling the entire message to the local client)

Layer	7 Application
Laye	r 6 Presentation
Laye	r 5 Session
Laye	r 4 Transport
Laye	r 3 Network
Layer	2 Data link
Layer	⁻ 1 Physical

Many application service-specific protocols are available within the Application Layer, including:

Network Addressing

• **Dynamic Host Configuration Protocol (DHCP)** – Enables centralized control of network addressing, used to assign TCP/IP configuration settings to systems when booted up

Web Pages

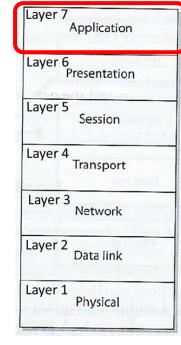
 Hypertext Transfer Protocol (HTTP) – A protocol used to transmit web page contents from web server to web browsers

Printing

• Line Print Daemon (LPD) – A network service used to send print jobs to printers, and to spool print jobs

Network Monitoring

• Simple Network Management Protocol (SNMP) – A protocol used to collect network status and health information by polling devices (routers, switches, wireless access points, firewalls, printers, ...) from a central monitoring station. SNMP v3 supports encryption and authentication



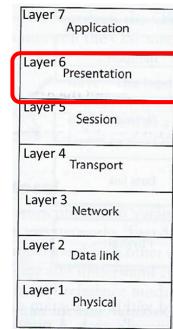
Layer 6: Presentation Layer

Receives data from the application layer protocol and puts it in a standard format with annotation that enables understanding by the processes operating at Layer 6 on destination computer

Presentation layer

- 1. Translates the format of data an application is using into a standard format used for passing messages over a network
- 2. Adds file type data to tell destination computer the file type and how to process and present it
- 3. Handles compression and encryption requests and adds data that enables the receiving computer to know how to decompress and decrypt the data

Application layer properly formats the data and sends it down to the presentation layer... (after data makes it through all the layers it has all the information needed to transmit it over the network)



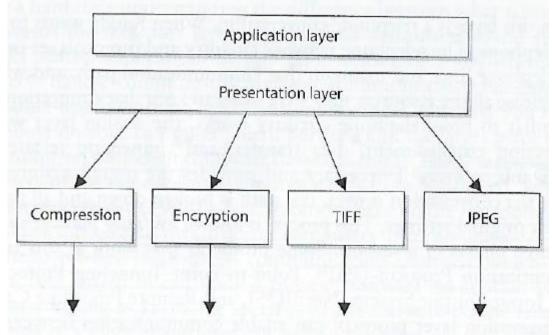
Layer 6: Presentation Layer

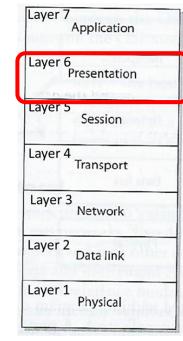
Protocols functioning at this layer communicate include:

- ASCII American Standard Code for Information Interchange
- MIME Multipurpose Internet Main Extensions standards
- TIFF Tagged Image File Format
- GIF Graphic Interchange Format
- JPEG Joint Photographic Experts Group
- MPEG Moving Picture Experts Group
- MIDI Musical Instrument Digital Interface

For example,

- 1. User compresses file on Windows computer sends it to someone on Linux computer
- 2. Linux computer receives the file, it looks at the file header, interprets the header's MIME type (Content-Type: application/zip) and knows what application to use to decompress the file
- 3. If systems does not have a program that understands the compression/decompression instructions, the file is displayed to the user with an unassociated icon





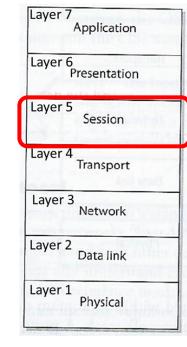
Layer 5: Session Layer

When two applications need to communicate or transfer data between themselves, Layer 5 is responsible for:

- 1. Establishing a connection between two applications
- 2. Dialog management to maintain the connection during the transfer of data
 - Restarts and recovers the session to maintain the connection if needed
- 3. Controlling release of the connection
- Provides inter-process communication channels, enables one software module on a local system to call a second software module running on a remote system. The results of the second module are retuned to the first system over the same session protocol channel

The session layer protocol enables 3 different modes of communications between 2 applications running on different computers across the network:

- **1. Simplex:** Communication takes place in one direction (very seldom used)
- **2.** Half-duplex: Communication takes place in both directions, but only one application can send information at a time
- **3. Full-duplex:** Communication takes place in both directions , and both applications can send information at the same time



Layer 5: Session Layer

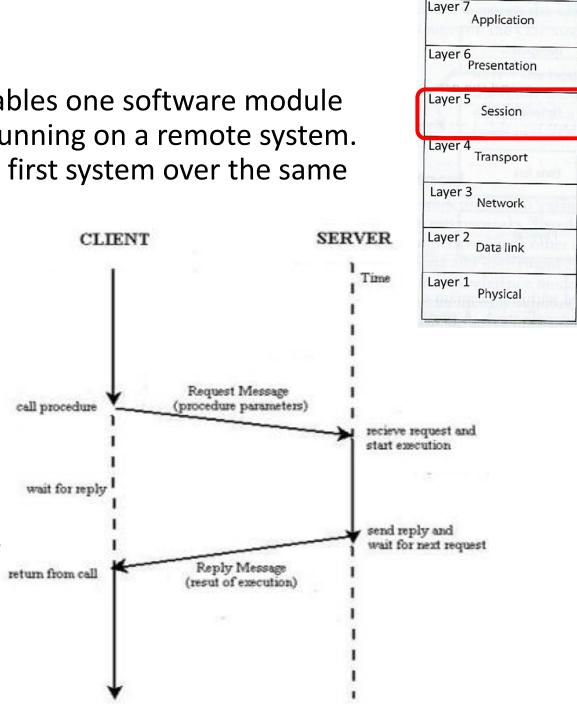
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Protocols include:

- PAP Password Authentication Protocol
- PPTP Point to Point Tunneling Protocol
- SQL Structured Query Language
- <u>RPC Remote Procedure Call</u>

Session layer protocols provide the middleware functionality that connects and maintains the connection between software applications on different computers as they communicate (i.e. application to application communication)

- Client-server model
- Service oriented architecture (SOA)



Layer 5: Session Layer

One security issue affecting the session layer common to inter-process communication software (e.g. RPC) is the lack of authentication or use of weak authentication *Example mitigation:*

• Use SRPC – Secure RPC

Requires authentication to take place before two computers located in different locations are able to communicate with each other

Session layer protocols need to secure authentication capabilities, however, which use shared secret keys, public keys, or Kerberos tickets

Unused Session Layer protocols should be identified and disabled on systems to decrease the chance of them getting exploited

RPC and NetBIOS and similar distributed processing calls usually only take place within a single organization's network, thus firewalls should be configured to filter this dangerous traffic and prevent it from moving into or out of the network

	Layer 7 Application		
No. of the second s	Layer 6 Presentation		
	Layer 5 Session		
	Layer 4 Transport		
	Layer 3 Network		
	Layer 2 Data link		
	Layer 1 Physical		

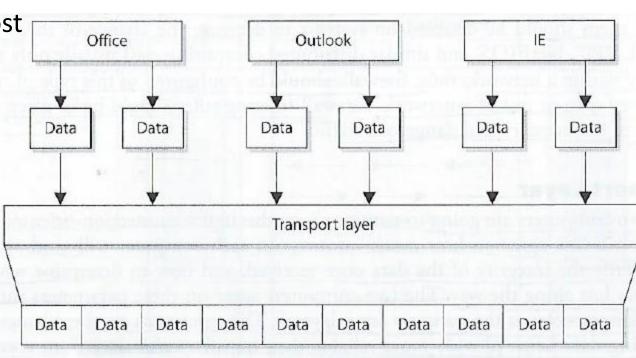
Layer 4: Transport Layer

Establishes a logical connection between two computer systems and provides end-to-end data transport services

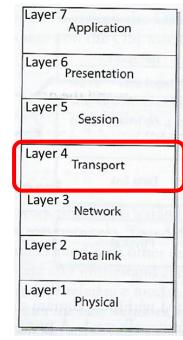
Provides connection level protocols for two computers to engage in a "handshaking process" and agree on parameters for:

- 1. How much data each computer will send at a time
- 2. How to verify data integrity once received
- 3. How to determine if a data packet was lost

Receives data from different applications and assembles their data into a stream for transmission over the network



Assemble data into a stream



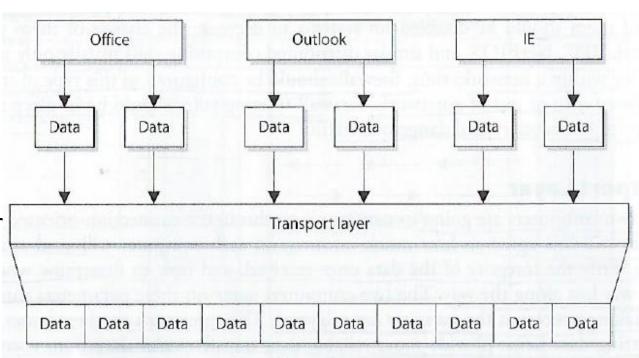
Layer 4: Transport Layer

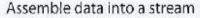
Transport layer protocol controls data flow across computer to computer connections without tracking connections between individual pairs of applications communicating across the network

Protocols include:

- TCP Transmission Control Protocol, Connection-oriented provides reliable data transmission
- UDP User Datagram Protocol, Connectionless
- SSL Secure Sockets Layer (SSL) Originally designed for secure web communications (HTTPS)
- **TLS Transport Layer Security protocol**, straddles both Session and Transport layers, is capable of securing communications supporting other Application Layer protocols

After the Transport Layer appends it's information to the data message, it is called either a TCP "segment" or a UDP "Packet"





Layer 7 Application Layer 6 Presentation Layer 5 Session Layer 4 Transport Layer 3 Network Layer 2 Data link Layer 1 Physical

Layer 3: Network Layer's

Routing protocols

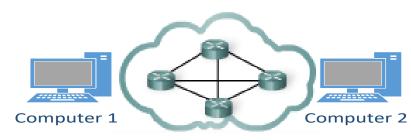
- Build and maintain routing tables Routing tables are maps of the network
- Determine best route to send packet from source computer to destination computer
- Inserts information into the data packet's header consisting of addresses (source and destination) and routes to their destination
- Do not guarantee delivery of packets *Transport layer protocols catch problems and resend packets as needed (TCP not UDP)*

Protocols include:

- ICMP Internet Control Message Protocol
- IP Internet Protocol
- Internet Protocol Security (IPSec)
- IPX Internet Packet Exchange
- RIP Routing Information Protocol
- OSPF Open Shortest Path First
- BGP Border Gateway Protocol
- NAT Network Address Translation
- SKIP Simple Key Management for Internet Protocols

After the Network Layer appends it's information to the data message, it converts it to binary format and the unit of data is called a "packet"

Routers operate on OSI Layer 3



Layer 7 Application	and a second sec
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Layer 5 Session	-
Layer 4 Transport	
Layer 3 Network	
Layer 2 Data link	
Layer 1 Physical	
	Application Layer 6 Presentation Layer 5 Session Layer 4 Transport Layer 3 Network Layer 2 Data link Layer 1

Layer 2: Data Link Layer

Translates the data packet with header/footer information accumulated from layers above into

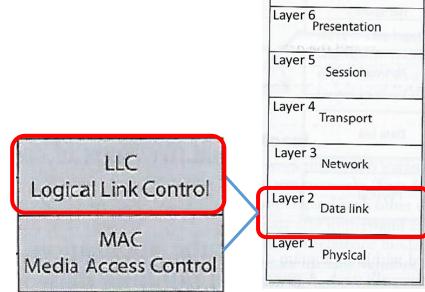
LAN (Local Area Network) or WAN (Wide Area Network) binary format for transmission over the network transmission line

After the network layer adds its routing information into the data packet, it passes the packet to the Data Link Layer's LCC sublayer

LCC sublayer takes care of flow of control and error checking and passes it to the MAC sublayer

"Framing" is the name of the process when the data link layer applies its header and trailer to the data message

The unit of data is called a "frame"



Layer 7

Application

Switches operation on OSI Layer 2

Layer 2: Data Link Layer

The MAC sublayer determines if data will be transmitted over a LAN or WAN, network type and protocols and puts the last header and trailer on the packet before it is transmitted

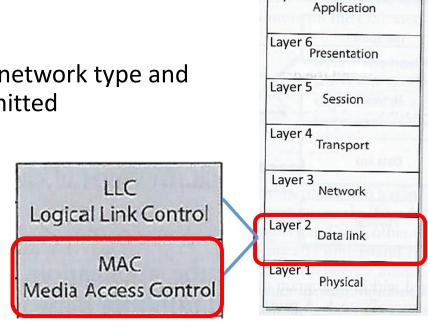
- Each network type uses different protocols, NICs (network interface cards), cables, and transmission methods
- The MAC sublayer determines the format of the data frame for transmission over the particular type network the computer's NIC is attached to the following protocols:

Ethernet (IEEE 802.3) Token Ring (IEEE 802.3) FDDI – Fiber Distributed Data Interface Wireless Ethernet (IEEE 802.11)

Other protocols at this layer include:

- ARP Address Resolution Protocol
- RARP Reverse Address Resolution Protocol
- SLIP Serial Line Internet Protocol
- PPP Point-to-Point Protocol
- PPTP Point-to-Point Tunneling Protocol
- L2F Layer 2 Forwarding
- L2TP –Layer 2 Tunneling Protocol

The computer's network card bridges the data link and physical layers, takes data passed down from the user's application through the 6 layers above and its network card driver encodes the bits at the data link layer



Layer 7

Each component has a different:

- Header data format structure
- Protocol for physical transmission across the network type (coaxial, twisted pair, fiber optic cable; or wireless)

Layer 1: Physical Layer

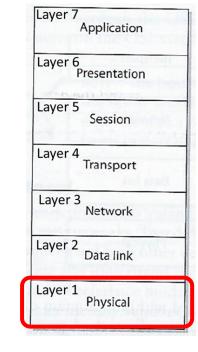
The Network Interface Card (NIC)

- Produces and interprets electromagnetic signals
- Converts bits into signals or voltages suitable for transmission across the LAN or WAN technology it is connected
- Determines synchronization, data transfer rates, line noise and transmission techniques based on the physical connection to electrical, optical or mechanical equipment

E.g. A '1' bit transmitted via Ethernet would be translated by the NIC to +0.5-volt electric signal, and '0' bit would be transmitted as 0-volts

Standard interfaces at this layer include:

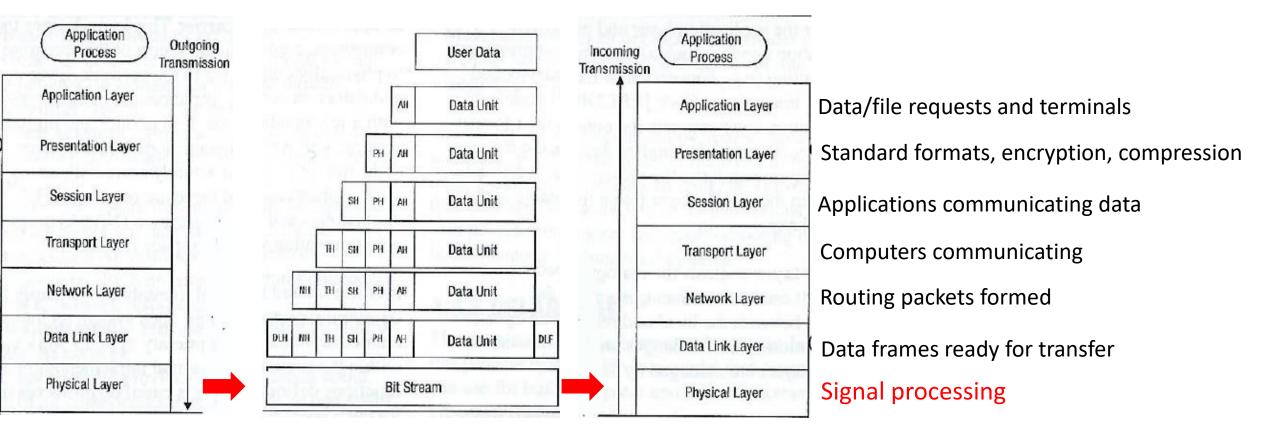
- RS/EIA/TIA-422, RS/EIA/TIA-423, RS/EIA/TIA-429, RS/EIA/TIA-449, RS/EIA/TIA-485
- 10Base-T, 10Base2, 10Base5, 100Base-TX, 100Base-FX, 100Base-T, 1000Base-T, 1000-Base-SX
- X.21
- HSSI High-Speed Serial Interface
- SONET Synchronous Optical Networking
- V.24 and V.35

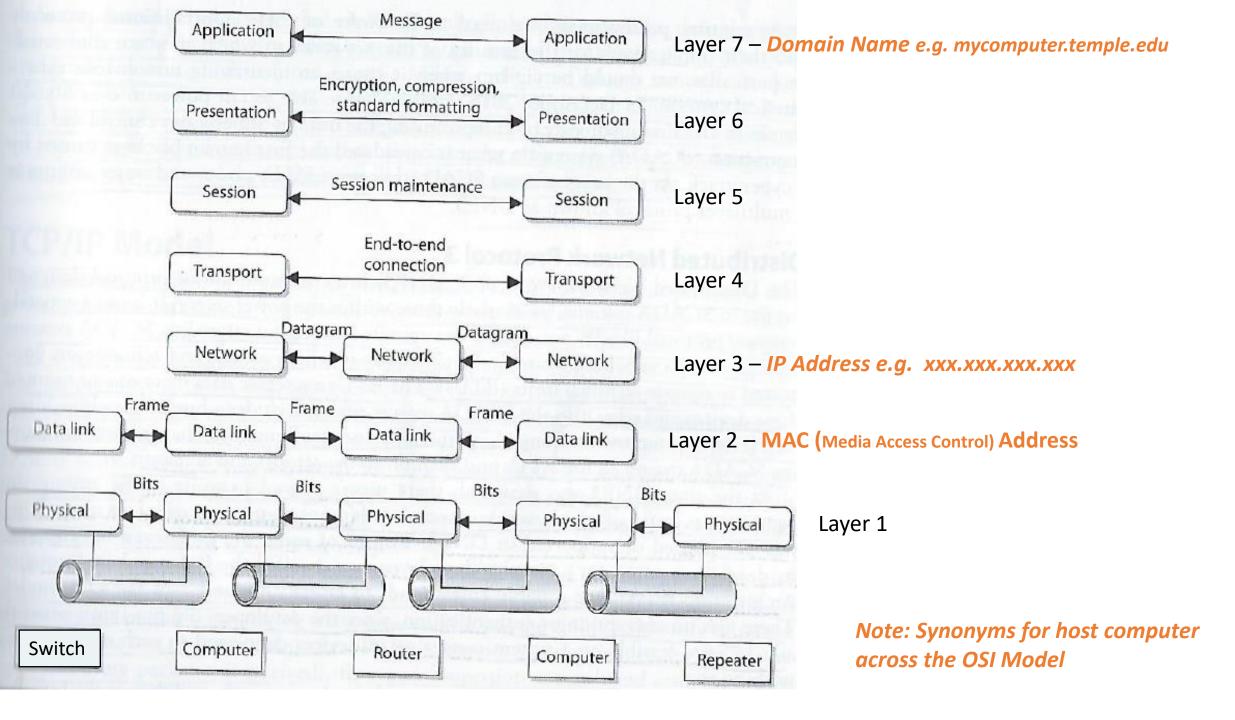


TIA – Telecommunications Industry Association

EIA – Electronic Industry Alliance

Layer 1: Physical Layer





Agenda

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- Quiz

Flat Networks

- Flat networks (single vlan) do not have defense-in-depth.
- No network level inspections
- Events on flat networks propagate on entire vlan

Flat Switched Network					
One large broadcast domain					

vlan = virtual local area network

Network Security is about controlling access to who can

see packets (<u>C</u>onfidentiality)

change packets (<u>Integrity</u>)

interrupt packets (Availability)





Perimeter

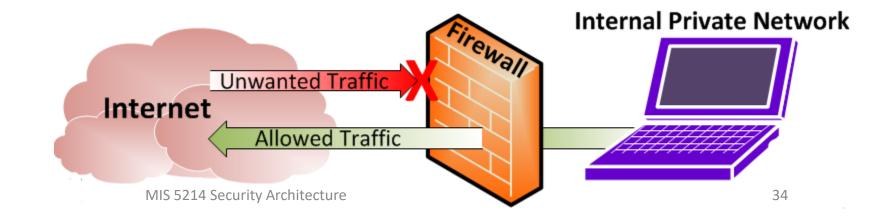
Perimeter

- Boundary between the private and locally managed-and-owned side of a network.
- Requires necessary safeguards
 - Firewalls
- What is the exposure?
 - Vulnerability scanning (Nmap)



Firewalls used to Implement Network Security Policy

- Support and enforce an organization's network security policy
- Implement high-level directives on acceptable an unacceptable actions to protect critical assets
- Firewall security policy:
 - What services can be accessed
 - What IP addresses and ranges are restricted
 - What ports can be accessed



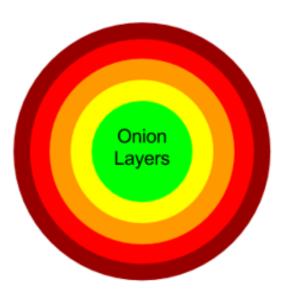
Firewalls are security architecture "choke points" in an IT network

- All communication should flow through, be inspected by, and restricted by firewalls
- Firewalls are used to restrict access from one network to another network
 - From the internet to access corporate networks
 - Between internal network segments
- Restrict access
 - Between origin and destination
 - Based on determination of acceptable traffic type(s)

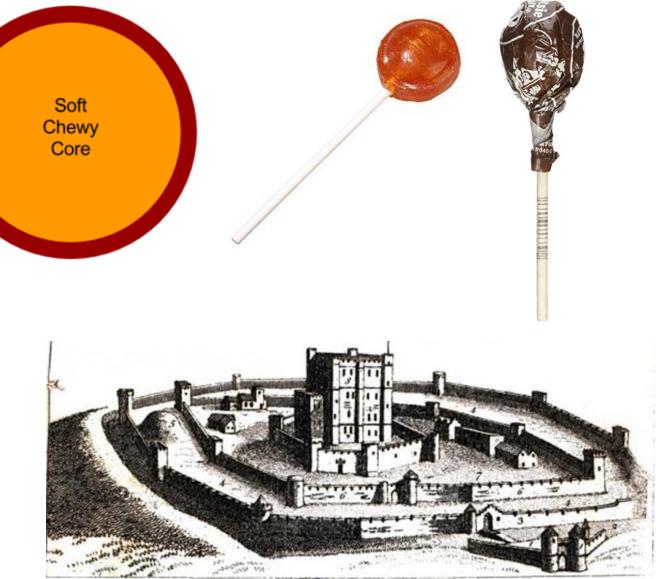


Perimeter security only takes care of the outer layer of security

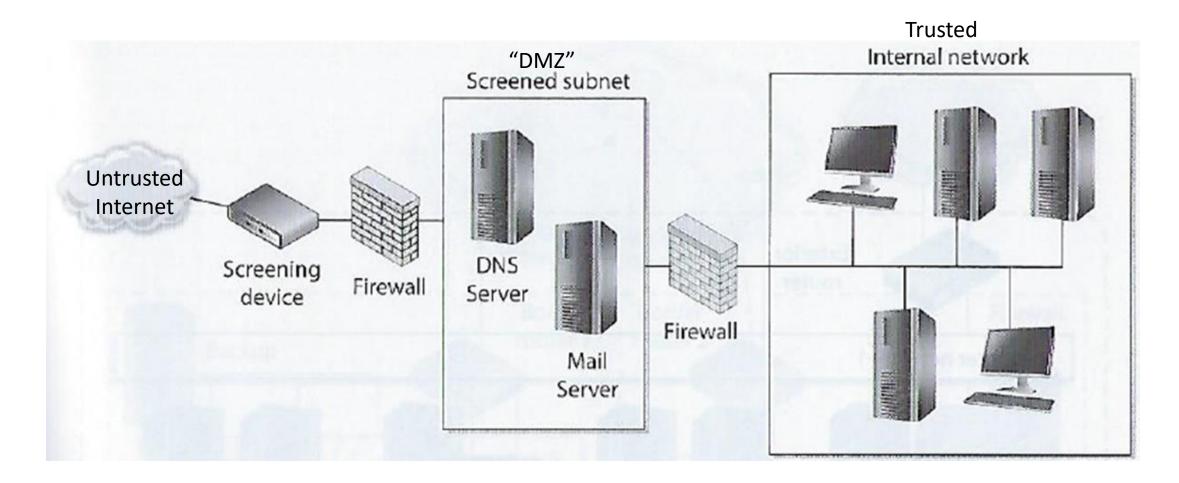
For better security, however, we seek...



"Layered Security" = "Defense in Depth"



Layered Security Architecture at Perimeter



Firewall Technology

- May be implemented as a
 - Software product running on a server
 - Specialized hardware appliance



- Monitors data packets coming into and out of the network it is protecting
- Packets are filtered by:
 - Source and destination addresses and ports
 - Header information
 - Protocol type
 - Packet type
 - Service
 - Data content i.e. application and file data content

Different types of firewalls work at different OSI Layers

- 1. Static Packet filtering firewalls (OSI Network Layer 3)
- 2. Dynamic packet filtering firewalls (OSI Network & Transport Layers 3 & 4)
- 3. Stateful inspection firewalls (OSI Transport Layer 4)
- 4. Deep Packet Inspection or Application-Level firewalls (OSI Application Layer 7)
- 5. Next-Generation firewalls (OSI Layers 3 through 7 + IDS or IPS)

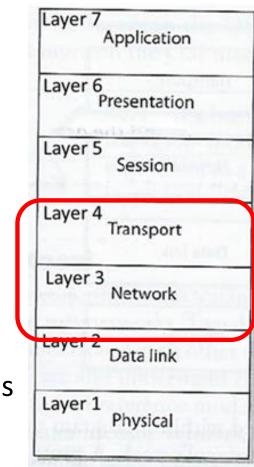
Static packet-filtering firewalls

"First-generation" firewall technology – most basic and primitive

- Operate on Network Layer 3 of the OSI model
- Also known as "screening routers"

Capabilities built into most firewalls and routers

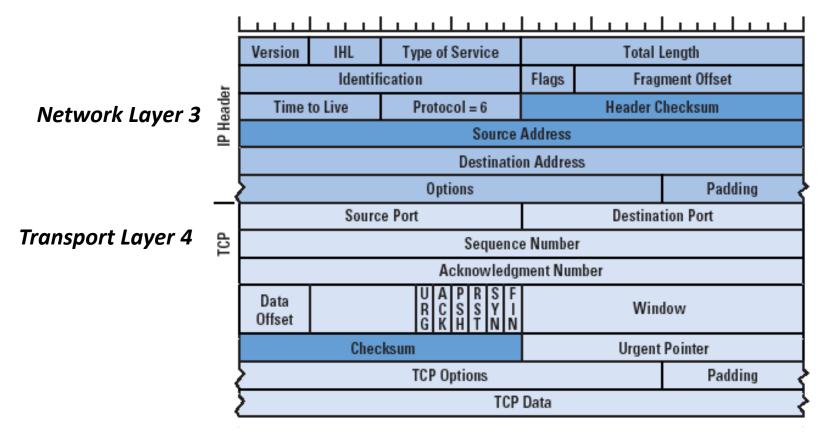
- Configured with <u>access control list</u> (ACL) rules which dictate the sources or destinations of permitted traffic into and out of the network
- Filters compare protocol header information from network and transport layers with ACLs
 - ACL black-listing allows all traffic by default but specifically identifies IP addresses
 of packets associated with prohibited origins or destinations
 - ACL white-listing denies all traffic by default but specifically identifies IP address of packets associated with permitted origins or destinations



Packet-filtering Firewalls

Compares ACLS with network protocol header values to determine permit/deny network access based on:

- 1. Source and destination IP addresses
- 2. Source and destination port numbers
- 3. Protocol types
- 4. Inbound and outbound traffic direction



Packet - E-mail Example					
Header	Sender's IP address Receiver's IP address Protocol Packet number	96 bits			
Payload	Data	896 bits			
Trailer	Data to show end of packet Error correction	32 bits			
		©2000 How Stuff Works			

Agenda

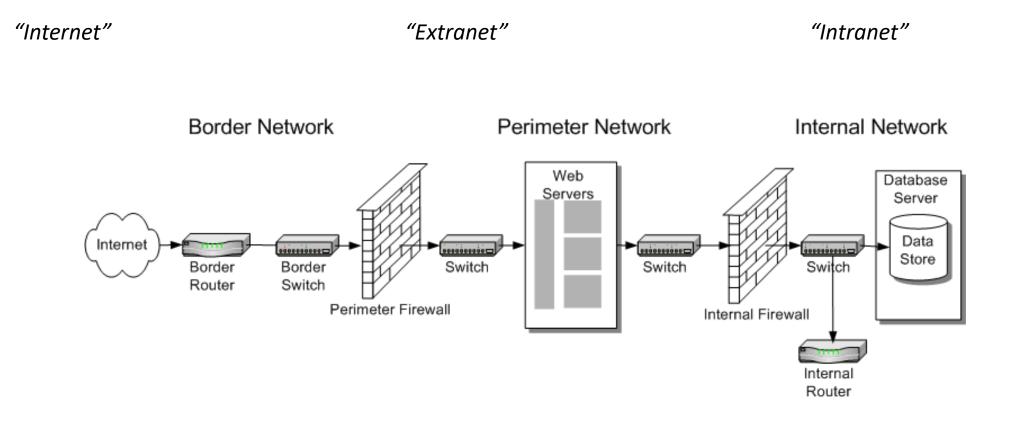
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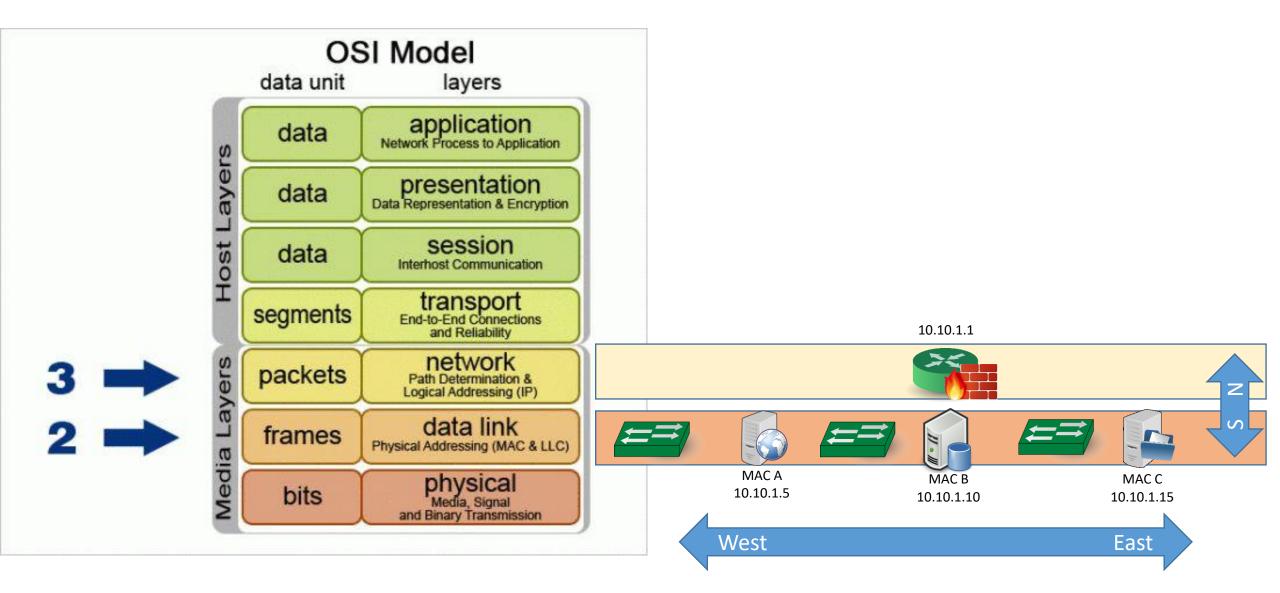
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Network Segmentation: What is it?

Example Segmented Architecture at Perimeter

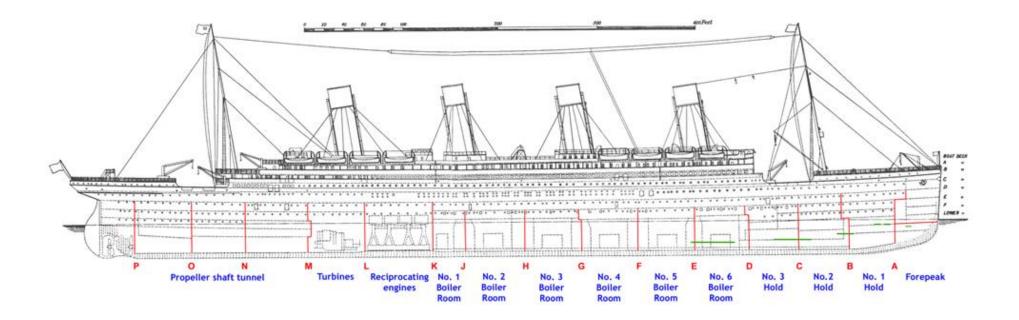


Layer 2: Flat Networks

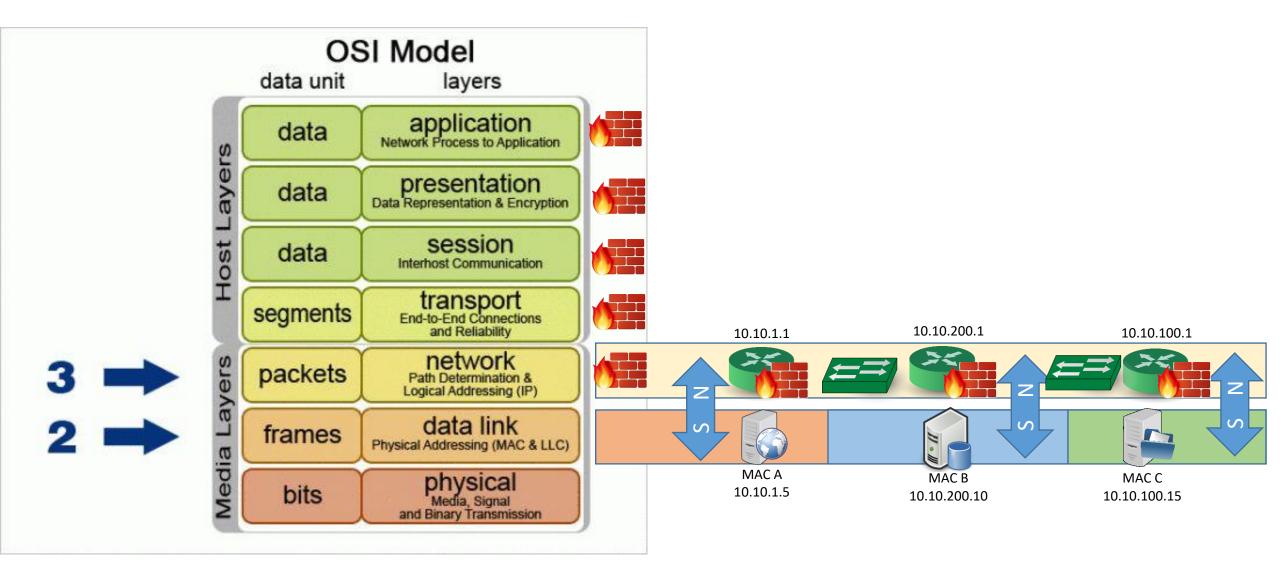


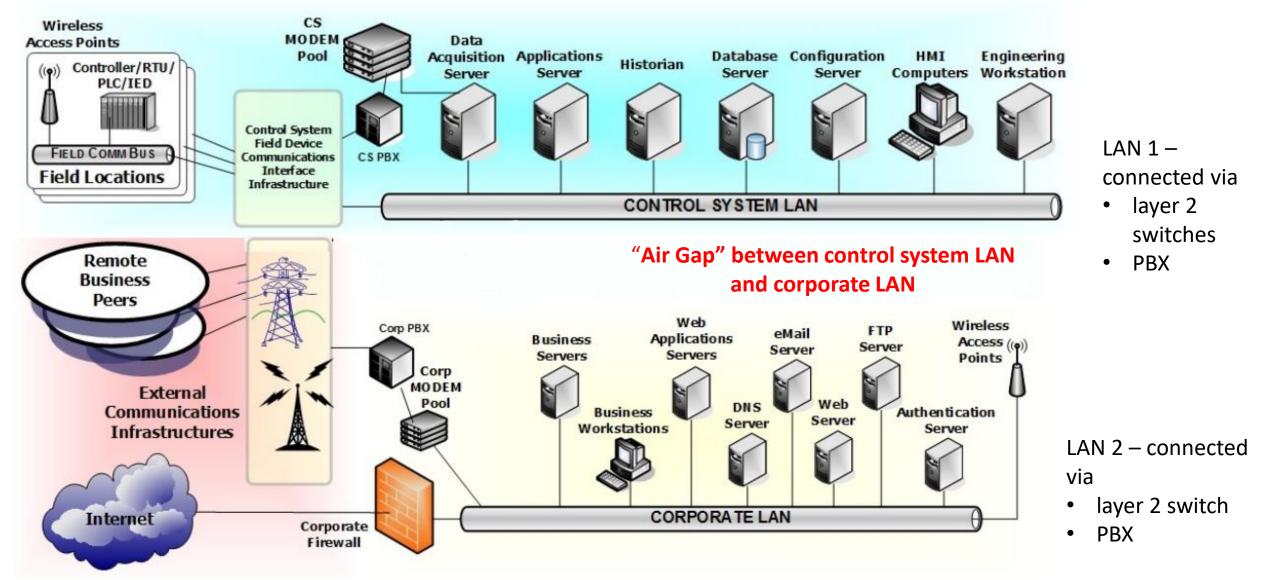
Segmentation

- Network attacks are "multi-vector", a single safeguard is not enough to see it and stop it. Therefore, defense-in-depth.
- Golden rule of secure architecture. No compromise of a single element should compromise the whole application stream or network. (compartmentalize)

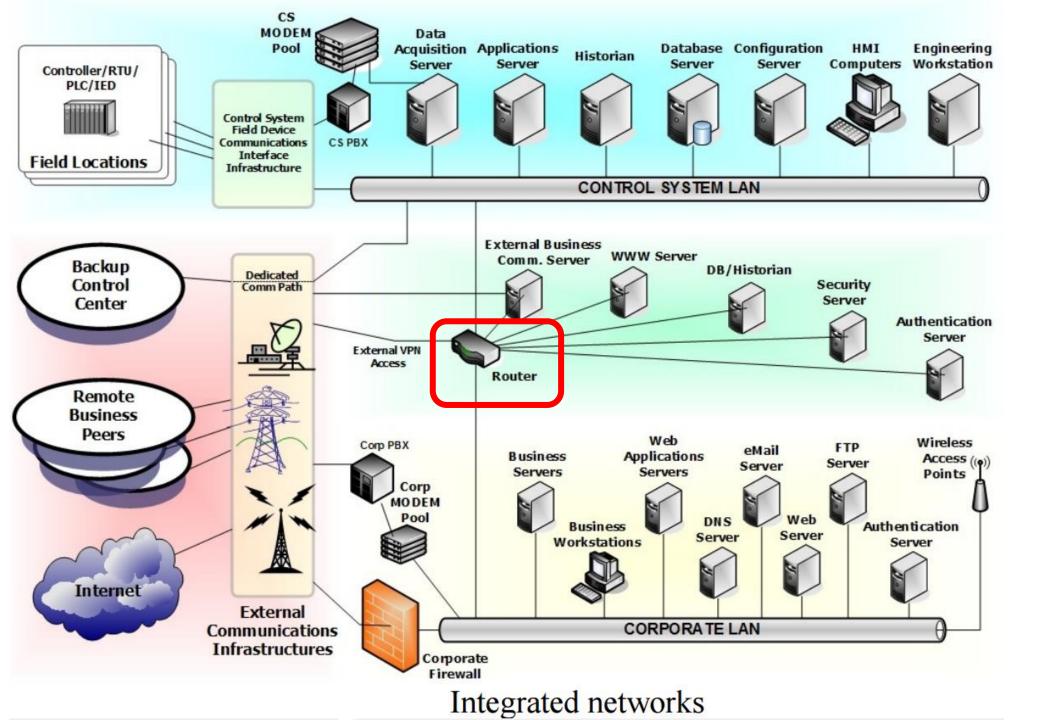


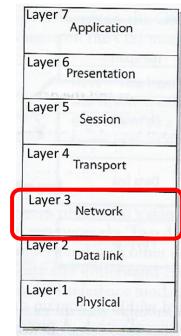
Layer 3: Tiered Networks



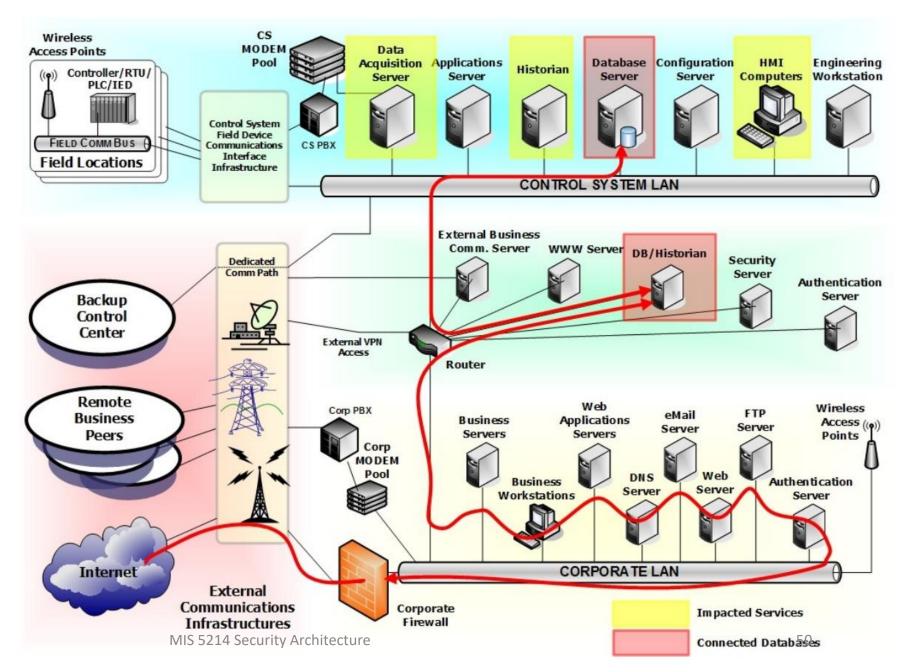


- HMI = Human Machine Interface
- **CS** = Control System
- **PBX** = Private Branch Exchange telephone system switches between users on local lines while allowing users to use a fixed # of external phone lines
- **RTU** = Remote Terminal Unit is a computer controlled device that connects physical machines to distributed control systems
- **PLC** = Programmable Logic Controller
- IED = Intelligent End device





Attack begins at some point outside the control zone, after initial intrusion attacker pries deeper and deeper into the network architecture

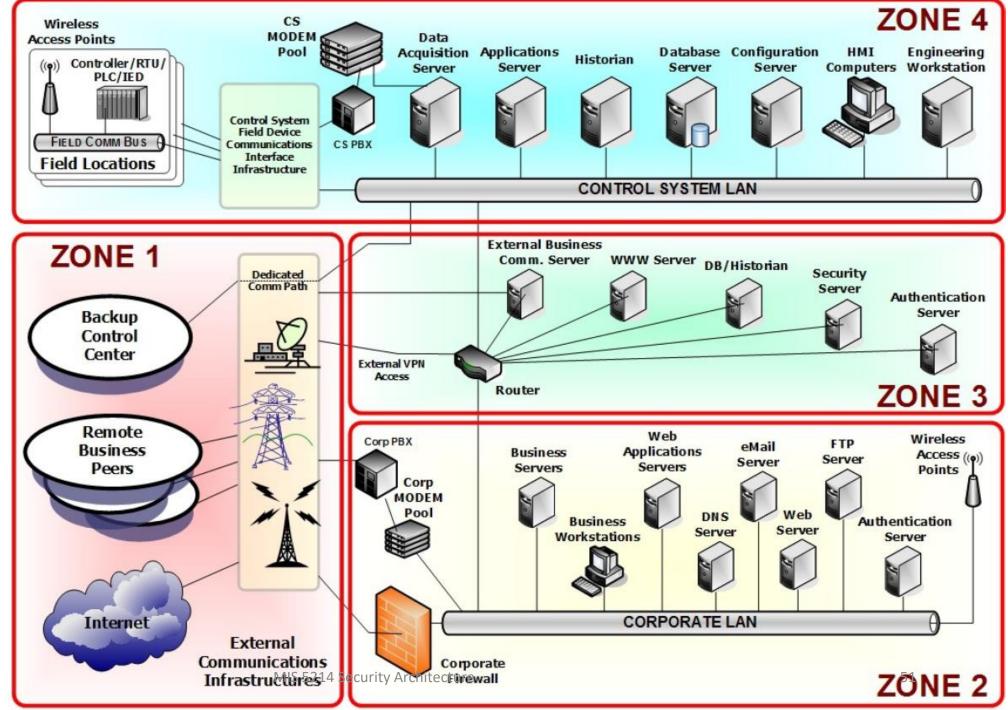


Zone 1: External connectivity to the Internet, peer locations, and back- up facilities

Zone 2: External connectivity for corporate communications

Zone 3: Control systems communications from external services

Zone 4: Control systems operations

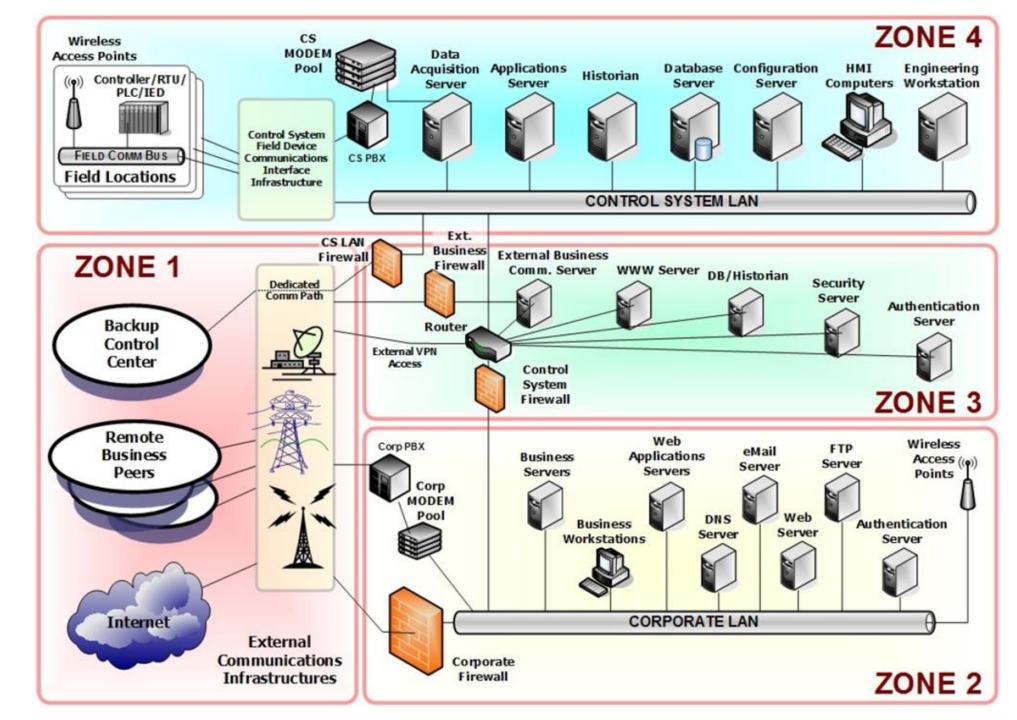


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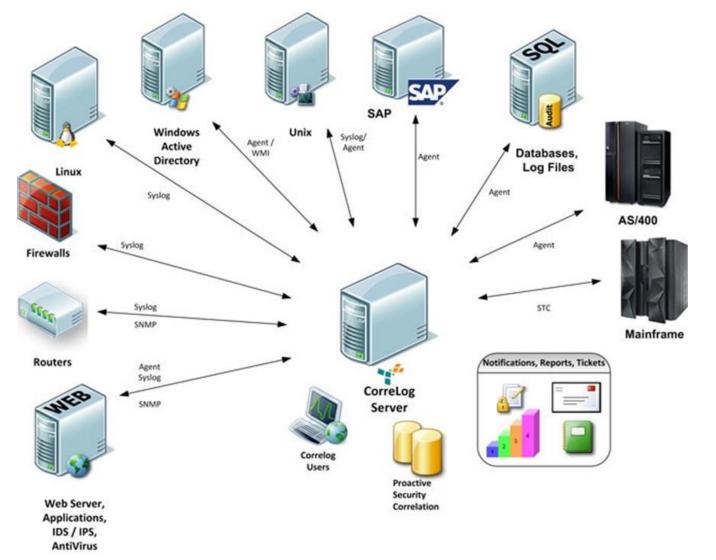
Zone 4: Control systems operations



Agenda

- ✓Open Systems Interconnection Model: Foundation for understanding networks
- ✓ Concept of <u>Perimeter</u> (Boundary Protection)
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- Quiz

Security Information and Event Management (SIEM)



For continuous monitoring

Data Analysis and Correlation

- Bring raw data events into one database via
 - System logging protocol
 - Monitoring agents
 - Application Programming Interfaces (APIs)
- Program the database software to look for "Notable events" or Correlations
- Correlations will take seemingly isolated events and bring them forward for review/action:
 - <u>Windows Log:</u> Employee denied windows login (unknown user account)
 - <u>Identity Management System</u>: notes the user account was deleted because employee was terminated last month.
- Security Domains: Endpoints, Networks, Identity, Access

Firewall Log Switch Log	IDS Event Firewall Cfg.	Server Log AV Alert
Switch Cfg.	NAT Cfg.	App Log
Router Cfg.	Netflow	VA Scanner
	-	
F	SOLATED EVENT	
s	SOLATED EVENT	

SIEM

- <u>Security Information and Event</u>
 <u>Management (SIEM)</u> market is defined by the customer's need to analyze event data in real time
- Allows for the early detection of targeted attacks and data breaches
- Collect, store, investigate and report on log data for incident response, forensics and regulatory compliance.
- Aggregates event data (logs) produced by security devices, network infrastructure, systems and applications

2024 Magic Quadrant =



2024 Magic Quadrant \Xi



Gartner

Huawei

Huawei is a Niche Player in this Magic Quadrant. Its SIEM solution is called HiSec Insight and includes Huawei Cloud Security Brain, with numerous additional modules and companion technologies for feature- or architecture-specific requirements. Deployment options include Huawei public cloud for SaaS, customer private clouds and on-premises. Pricing for on-premises deployments is based on data velocity (EPS) and volume (GB per day), with additional charges for log retention and add-on modules. SaaS deployments are based on a GB-per-day ingest rate. Its SIEM customers are largely concentrated in China, although a smaller number of clients are based in the Middle East, Africa and Latin America. Huawei SecMaster has been created to provide a service that uses the Huawei Security toolset to provide managed detection and response (MDR).

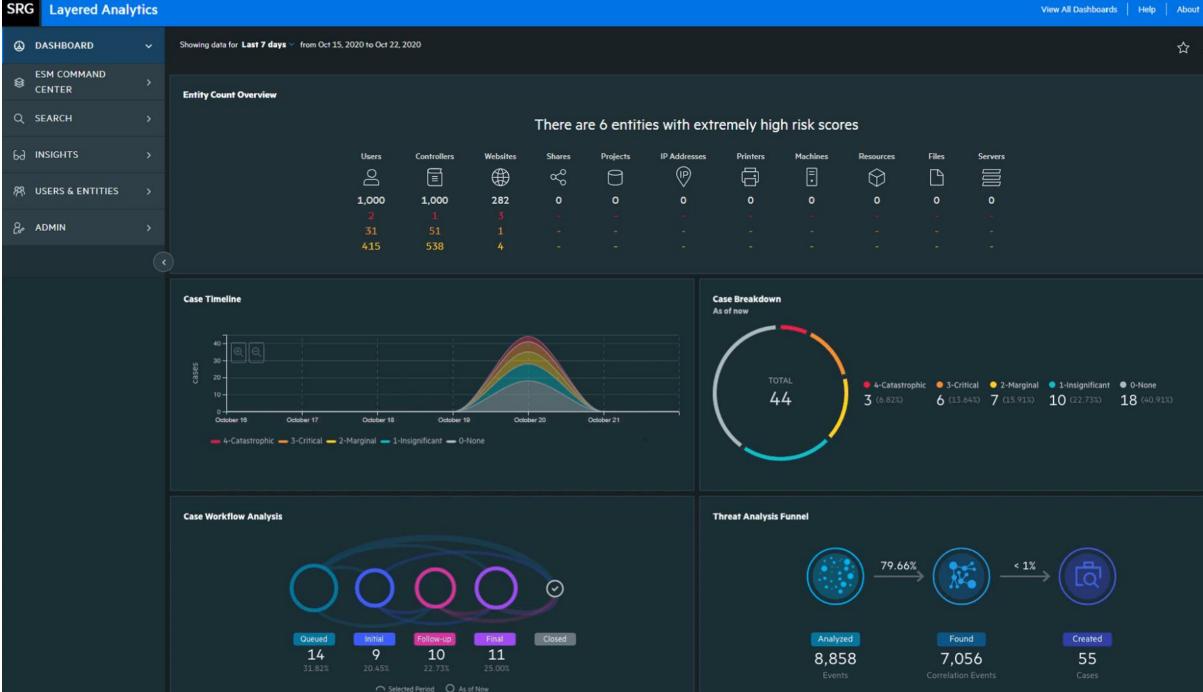
Strengths

- Expanded threat detection: HiSec Insight has a threat detection engine based on deep neural network algorithms and ML technology. Predefined playbooks and integrations are offered for automated threat handling.
- Multisource data collection: Huawei has an extensive integrated product ecosystem to enable threat handling, as well as a number of APAC-region-specific integrations.
- Advanced visualization capabilities: Huawei's threat knowledge graph-based inference analysis and visualized policy orchestration enable easy operation and management. Its Attack Path Visualization displays the entire attack transmission chain.

Cautions

- Common SaaS monitoring: Huawei does not offer integrations with Microsoft 365, Google Workspace, or applications from Workday, Salesforce or Box. Cloud infrastructure monitoring is not available outside of Huawei's own cloud.
- Geographical presence: Huawei's customer base exists largely in China and the APAC region. Its presence is limited in EMEA and Latin America, and there is no customer presence or deployment infrastructure in North America.
- Data lake integrations: Huawei supports only its own data lake technology, limiting clients' ability to expand and enrich detections and coverage.





☆ …

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- 1. Which of the following best reduces the ability of one device to capture the packets that are meant for another device
 - A. Hubs
 - B. Switches
 - C. Routers
 - D. Firewalls
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- 2. When reviewing the configuration of network devices, an IS auditor should first identify:
 - A. the good practices for the types of network devices deployed.
 - B. whether components of the network are missing.
 - C. the importance of the network devices in the topology.
 - D. whether subcomponents of the network are being used appropriately.

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- 3. Which of the following network components is primarily set up to serve as a security measure by preventing unauthorized traffic between different segments of the network?
 - A. Firewalls
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 - C. Layer 2 switches
 - D. Virtual local area networks (VLANS)
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- 4. During a review of intrusion detection logs, an IS auditor notices traffic coming from the Internet, which appears to originate from the internal IP address of the company payroll server. Which of the following malicious activities would most likely cause this type of result?
 - A. A denial-of-service (DoS) attack
 - B. Spoofing
 - C. Port scanning
 - D. A man-in-the middle attack
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- 5. Which of the following shows the layer sequence as layers 2, 5, 7, 4, and 3
 - A. Data link, session, application, transport, and network
 - B. Data link, transport, application, session, and network
 - C. Network, session, application, network, and transport
 - D. Network, transport, application, session, and presentation
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Layer 7 Application
Layer 6 Presentation
Layer 5 Session
Layer 4 Transport
Layer 3 Network
Layer 2 Data link
Layer 1 Physical

- 6. Systems that are built on the OSI framework are considered open systems. What does this mean?
 - A. They do not have authentication mechanisms configured by default.
 - B. They have interoperability issues.
 - C. They are built with internationally accepted protocols and standards so they can easily communicate with other systems.
 - D. They are built with international protocols and standards so they can choose what types of systems they will communicate with.
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- 7. What takes place at the session layer?
 - A. Dialog control
 - B. Routing
 - C. Packet sequencing
 - D. Addressing
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Protecting Information Assets - Unit# 6a -

Network Security