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Introduction, Topic 2.1, Reference Models		OSI
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Iop	■ TCP/IP:	
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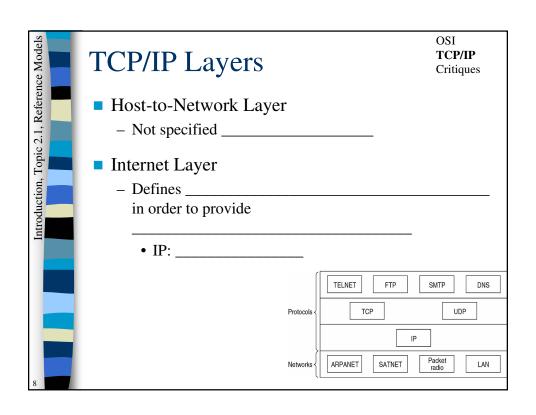
Introduction, Topic 2.1, Reference Models		OSI Reference Model	OSI TCP/IP Critiques
eferer	П	■ ISO:	
2.1, R		Standard Model to which	
opic		■ The OSI model distinguishes	
on, T		- Services	Name of un exchanged
ducti		- Interfaces Interface	Application APDU
Intro		- Protocols	Presentation PPDU
		Has 7	Session SPDU
Н		Lowest 3 are	Transport TPDU
н		Network Network	Network Packet
		2 Data link - Data link - Data link	Data link Frame
Н		1 Physical Physical	Physical Bit
3		Host A Router Router Network layer host-router protocol Data link layer host-router protocol Physical layer host-router protocol	Host B

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odelk	OCI I (1)	OSI TCP/IP
Me Me	OSI Layers (1)	Critiques
Introduction, Topic 2.1, Reference Models	 Physical Layer Concerned with	

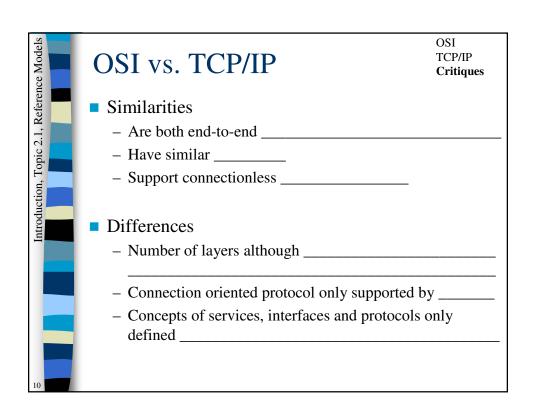
ce Models	OSI Layers (2)	OSI TCP/IP Critiques
Introduction, Topic 2.1, Reference Models	 Transport Layers Independence Provides segmentation and Also provides and Provides a network independent 	
	Session Layers	
	 Allows users on different machines to 	
5	- Includes	

ce Models	OSI Layers (3)	OSI TCP/IP Critiques
Introduction, Topic 2.1, Reference Models	 Presentation Layer Provides functions to do with representation of the services Application FunctionalityUses the services 	of

Introduction, Topic 2.1, Reference Models	TCP/IP Re	eference	M	Iodel	OSI TCP/IP Critiques
eferer	One of the mo	st common _			
2.1, R	■ In is used for t	he			
Copic	Designed to de	eal with poss	sible	e	
tion, 1	Designed with	a very flexi	ble		
roduct		OSI		TCP/IP	
In	7	Application		Application	
	6	Presentation		,	Not present
	5	Session		A-	in the model
	4	Transport		Transport	
	3	Network		Internet	
	2	Data link		Host-to-network	
7	1	Physical			



ce Models	TCP/IP Layers OSI TCP/IP Critiques
Introduction, Topic 2.1, Reference Models	 Transport Layer Allows peers to using either Transport Control Protocol (TCP):
Introduction, 7	- User Datagram Protocol (UDP):
	Application Layer
	- Telnet:
	- FTP: TELNET FTP SMTP DNS
	- SMTP:Protocols { TCP UDP
	– DNS:
9	Networks ARPANET SATNET Packet radio LAN



2.1, Reference Models	Critique of OSI Model	OSI TCP/IP Critiques
Introduction, Topic 2.1, Refer	 Bad timing No organization willing to TCP/IP already there. Bad technology Uneven layers: Hard to implement: Inefficient: Bad implementations: Bad politics: 5 layers of the model are popular for However it's 	

Introduction, Topic 2.1, Reference Models	Critique of TCP/IP Model OSI TCP/IP Critiques
2.1, Refere	Concepts () not distinguishedNot a general model:
Topic	Host-to-network "layer" not
uction,	■ Some of the protocols very although
Introdu	TCP & IP are well thought out.
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