













Agenda	
 Classful Routing <u>Classless Routing</u> VLSM Address Design A CIDR NAT 	spects
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Address Design Issues 3		
• route summa	arization	
 – classful routi 	ng (RIP, IGRP)	
 on class bo 	undary	
 – classless rou 	iting (OSPF)	
 on any add 	ess boundary	
 possible on 	y at Area Border Router or ASBR	
 classless routing (eIGRP with auto-summary) 		
 on class bo 	undary	
 backward c 	ompatibility to IGRP	
 classless rou 	iting (elGRP no auto-summary)	
 on any add 	ess boundary	
 on any rout 	er	
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CIDR		
 CIDR addressing addressing 192.0.00 194.0.00 198.0.00 200.0.00 provider ad Internet S 	ess allocation g plan for class C addresses by continents - 193.255.255.255 Multiregional - 195.255.255.255 Europe - 199.255.255.255 North America - 201.255.255.255 Central/South America ddressing strategy Service Providers (ISP) are given contiguous blocks of	
class C a • conseque – class C ne that route s aggregatio	addresses which in turn are granted to their customers ence: change of provider means renumbering twork numbers are allocated in such a way summarization (or sometimes called route on) into supernets is possible	
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Agenda	
Classful Routin	g
Classless Rout	ing
• VLSM	
Address Design	n Aspects
• CIDR	
• <u>NAT</u>	
- NAT Basics	
– <u>PAT</u>	
 – DNS Aspects 	
- Load Balancing	







Agenda		
 Classful Rout Classless Rout VLSM Address Desit CIDR 	ing uting gn Aspects	
 NAT – NAT Basics PAT DNS Aspects Load Balancing 	ıg	
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