SRST (Survivable Remote Site Telephony)

What topology can use SRST	Centralized Remote Branch Call Flow—signalling always goes from remote branch(es) to a central CUCM server, while the audio only hits the WAN if needed
What triggers SRST	WAN (and contact to the centalized CUCM server) is lost.
How does SRST handle calls from the remote site	Router takes over, sending the calls over PSTN, modifying phone numbers to work
What does CUCM do with the branch office phones	Deregisters them because they're unreachable
What is CFUR	Call Forward UnRegistered. An option in CUCM for each remote branch phone, giving a full PSTN number to be used to reach it if the phone ever becomes deregistered

Centralized CUCM Deployment

Maximum locations per cluster	2000
Maximum H.323 or MGCP devices per cluster	2100
Protocol where CUCM Limits simultaneous calls across WAN to QoS-allocated bandwidth	CAC (Call Admission Control)
Protocol triggered only by above to redial excess calls to send them across PSTN	AAR (Automated Alternate Routing)
Recap—WAN failure call handling	Hierarchical dial plan and CFUR send call to PSTN
Recap—WAN full call handling	CAC triggers AAR, which redials the call with a full PSTN number

Distributed Deployment

Given site A with phone 1 and CUCMA and site B with phone 2 and CUCMB, what's the call audio flow for a connected call phone 1 to phone 2	• Phone 1 • (skip) • (skip) • Phone 2
Given the same topology, what's the call signaling flow to establish a call between phones 1 and 2	• Phone 1 • CUCMA • CUCMB • Phone 2
A router IOS feature that provides a *centralized* service to track available bandwidth between clusters and kill or redial calls accordingly	Gatekeeper CAC

Call Routing

Possible Call Routing Destinations	• DN • Translation Patterns • Route Patterns • Hunt Pilot • Call Park Number • Meet-Me Number
Possible Sources of Dialed Digits for Call Routing	• IP Phone • Trunk • Gateway • Translation Pattern • Voicemail Port (app calls to notify msg recipient)
Signaling protocol(s) between phones and CUCM	• SCCP • SIP
Two peer to peer gateway protocols	• H.323 • SIP
Two gaveway control protocols	• MGCP • SCCP
Construct that groups similar devices like WAN or ISDN links	Route Groups
A preference (cost?) -ordered list of above; can be used as a call destination	Route List
Construct that matches dialed digits & gives it a destination	Route Pattern

Call-Routing Behavior

Are calls routed digit-by-digit or all-at-once	All-at-once
How choose between matching rules	Most specific (fewest wildcard possibilities)

Hunt Group (set of extensions reached by dialing a common number, e.g. helpdesk)

List of participating extensions with ringing instructions (top-down, circular, or broadcast) and when or if to give up on this list	Hunt Group
List of the above lists, always top-down	Hunt List
Call routing entry invoked by one extension number that targets the above list of lists	Hunt Pilot

Calling Restrictions

A group of dialable things to be similarly restricted	Partitions
List of the above groups, assigned to phones as allowed	Calling Search Space

Note : Understand the two interactions under "Notes" on page 5 of the Chapter 10 reading notes.