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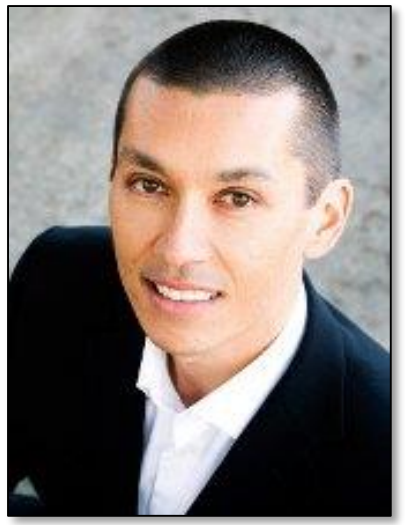
Enterprise Voice and Online Services with Microsoft® Lync® Server 2013

MVA Jump Start

Meet Rui Maximo | @rui_maximo



- Principal Writer & Software Engineer, Microsoft
  - Unified Communications Focus
  - Microsoft Office Lync Server 2010 Resource Kit (online)
  - Microsoft Office Communications Server 2007 R2 Resource Kit
  - Programming for Unified Communications
  - Pro LCS-Live Communications Server Administration
  - Primary contributor to DrRez & NextHop
- More than 20 years experience in software
  - Microsoft (Windows, Windows Mobile, Office); IBM, RSA
  - Has contributed to the launch of over 20 software products

Meet Brian Ricks | @bricomp

- Lead Architect, BriComp Computers
  - Unified Communications Architect
  - Microsoft MVP since 2006
  - Enterprise Microsoft collaboration solution design, development, configuration, administration & maintenance
- More than 20 years experience in IT industry
  - Network Infrastructure Corp., Resolute, Phelps Dodge

Course Topics

Enterprise Voice and Online Services with Microsoft® Lync® Server 2013	
01 | Voice Architecture	08 | Phones and Devices
02 | Configuring Basic Enterprise Voice Functionality	09 | Online Configuration and Migration
03 | Designing Exchange Server 2013 Unified Messaging Integration	10 | Monitoring
04 | Voice Applications	11 | Voice Resiliency
05 | Configuring and Deploying Emergency Calling	
06 | PSTN Integration	
07 | Networking	

Setting Expectations

- Target Audience
  - IT and telecommunications professionals who design, plan, deploy, and maintain solutions for unified communications (UC)
  - Experienced and looking for accelerated certification prep for Exam 70-337: Enterprise Voice and Online Services with Microsoft® Lync® Server 2013
- Suggested Supporting Material
  - Exam 70-337: Enterprise Voice and Online Services with Microsoft® Lync® Server 2013
  - Visit http://aka.ms/MCSE-Lync

Join the MVA Community!

- Microsoft Virtual Academy
  - Free online learning tailored for IT Pros and Developers
  - Over 1M registered users
  - Up-to-date, relevant training on variety of Microsoft products
- "Earn while you learn!"
  - Get 50 MVA Points for this event!
  - Visit http://aka.ms/MVA-Voucher
  - Enter this code: **Lync337** (expires 7/15/2013)

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Module1

Voice Architecture

MVA Jump Start

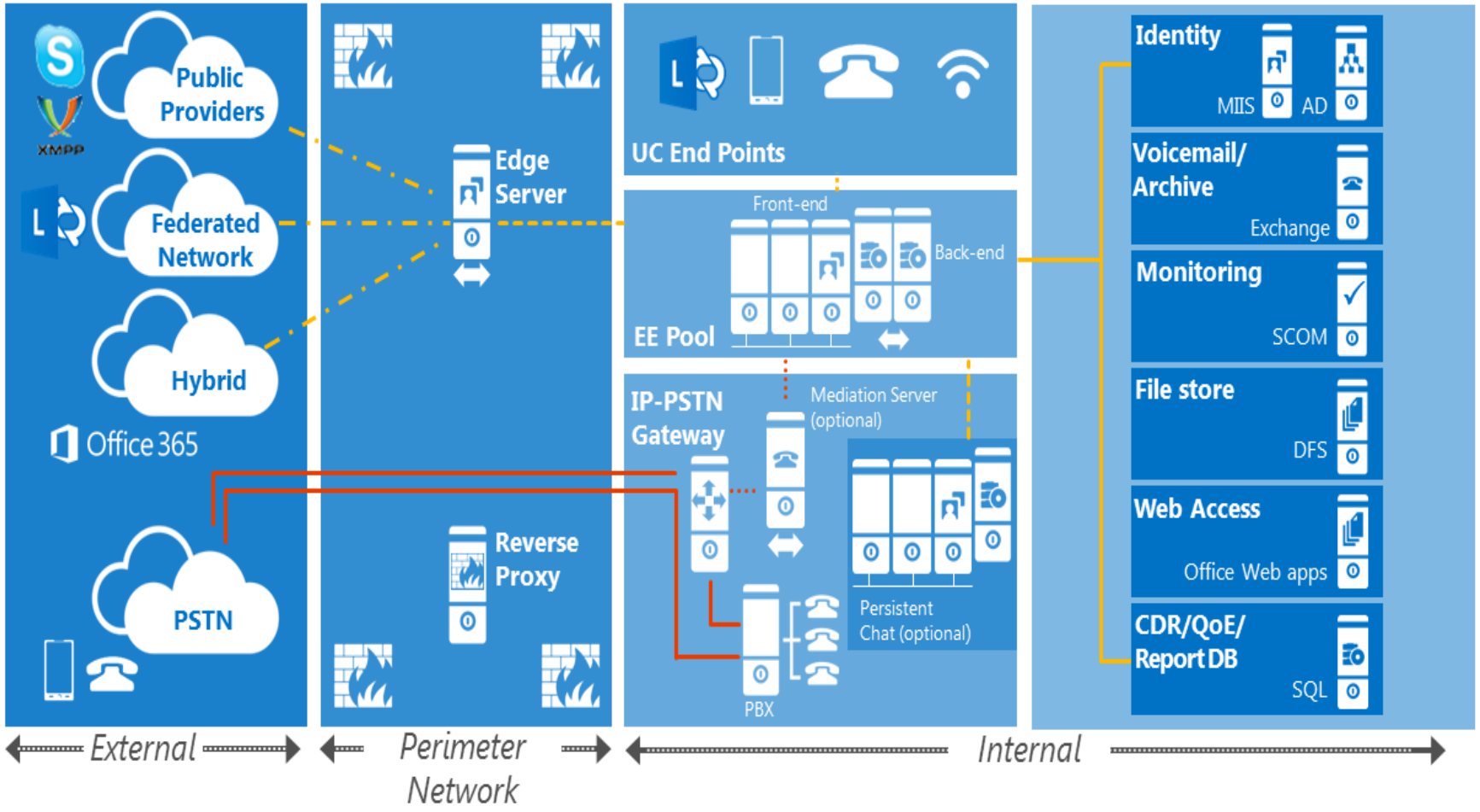
Module Overview

- Architecture and Server Roles
- Voice Features of Lync Server 2013
- Site Topologies

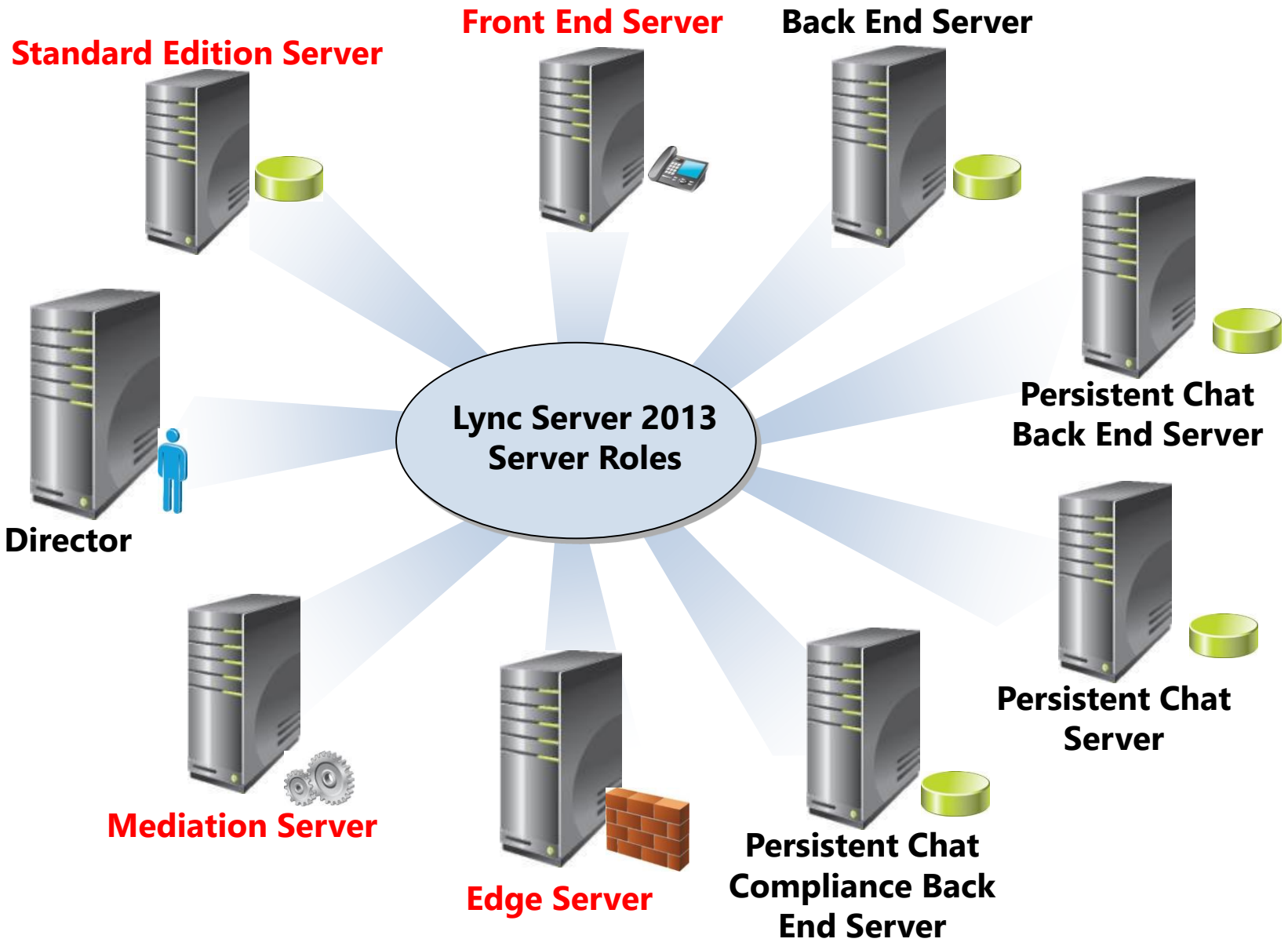
Lesson 1: Architecture and Server Roles

- Lync 2013 Enterprise Edition Topology
- Lync Server 2013 Server Roles

Lync 2013 Enterprise Edition Topology



Lync Server 2013 Server Roles



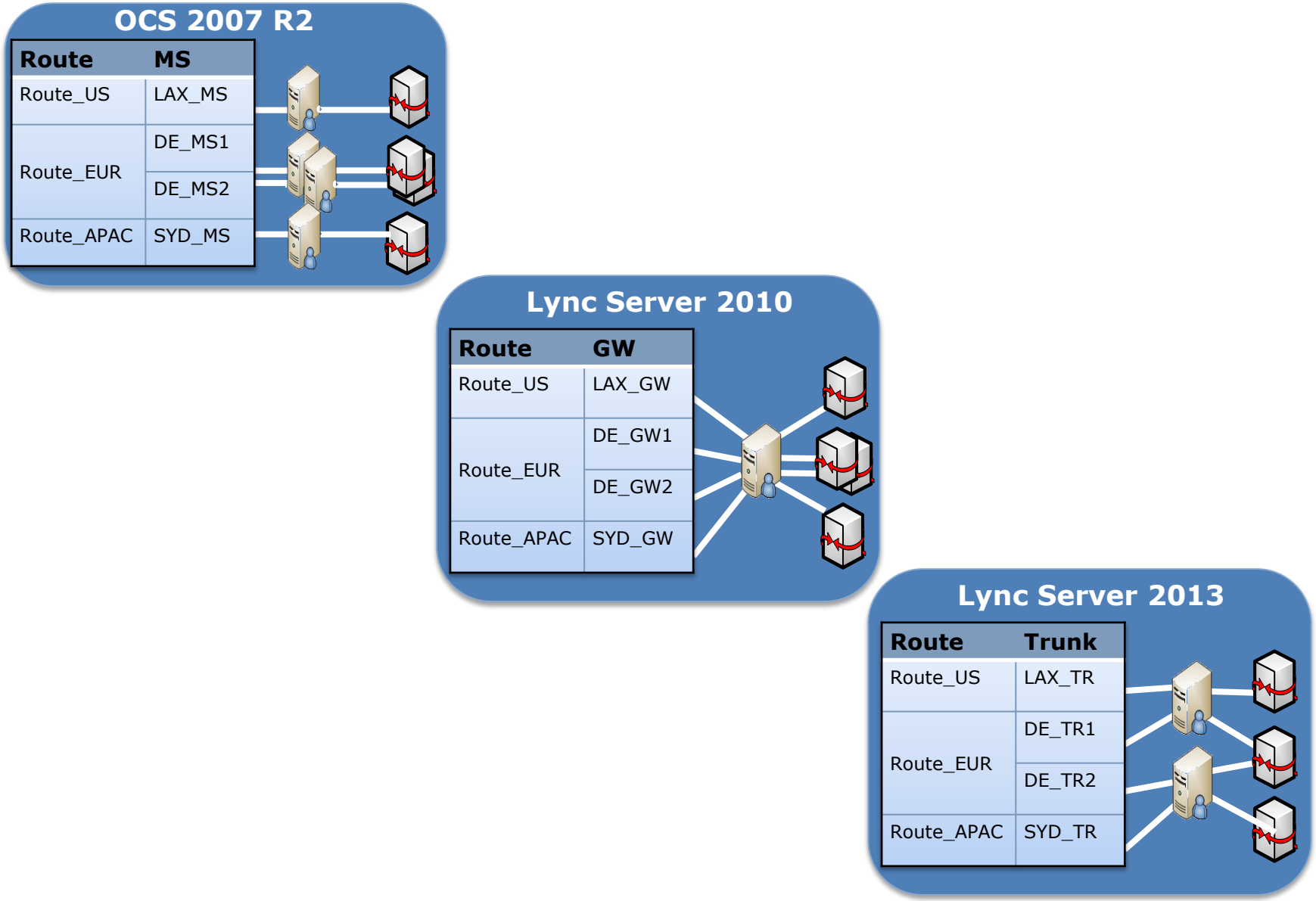
Lesson 2: Voice Features of Lync Server 2013

- Enterprise Voice Changes
- M:N Interworking Routing
- Mediation Server
- Inter-Trunk Routing - Overview
- Survivable Branch Sites

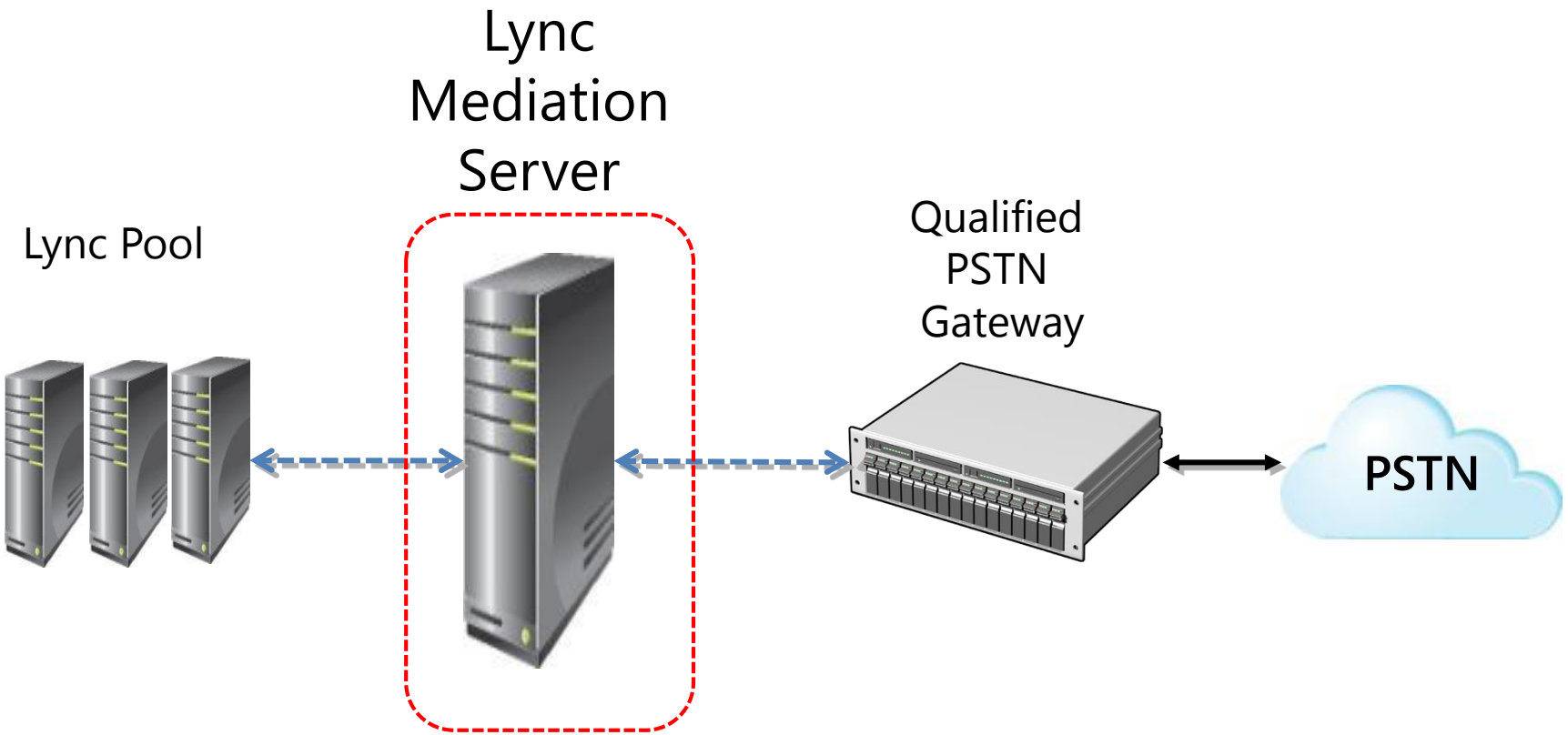
Enterprise Voice Same/Changes/New

- Disaster Recovery
- E911
- Routing
- Response Group
- Call Management
- Voice in the Cloud
- Virtual Desktop Infrastructure
- IPv6

M:N Interworking Routing



Mediation Server



Inter-Trunk Routing - Overview

- Lync Server 2013: Supports call routing from an incoming trunk to an outgoing trunk to provide routing functionalities to other systems
  - A possible alternative for PBX integration scenarios
  - Better integration with systems certified to connect with Lync
- Reduces complexity of routing rules on IP-PBX for incoming calls

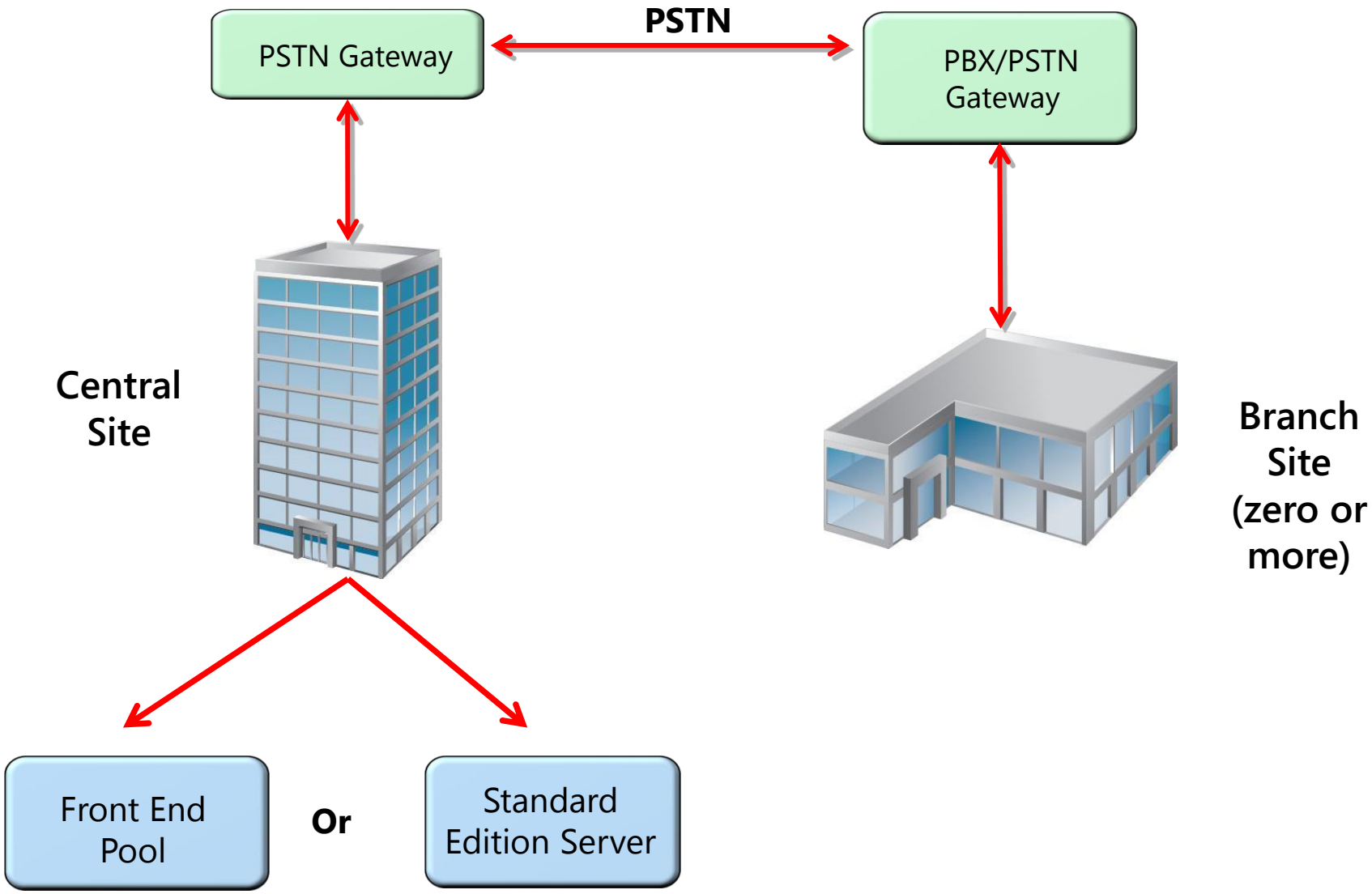
Survivable Branch Sites

- Survivable Branch Appliance
  - Hardware device that includes a subset of Lync capabilities, including a set of services which run the SBA applications and a Gateway.
  - Built by partners
- Survivable Branch Server
  - Windows Server-based computer that has Registrar and Mediation Server
- Full Lync Server (SE or EE)

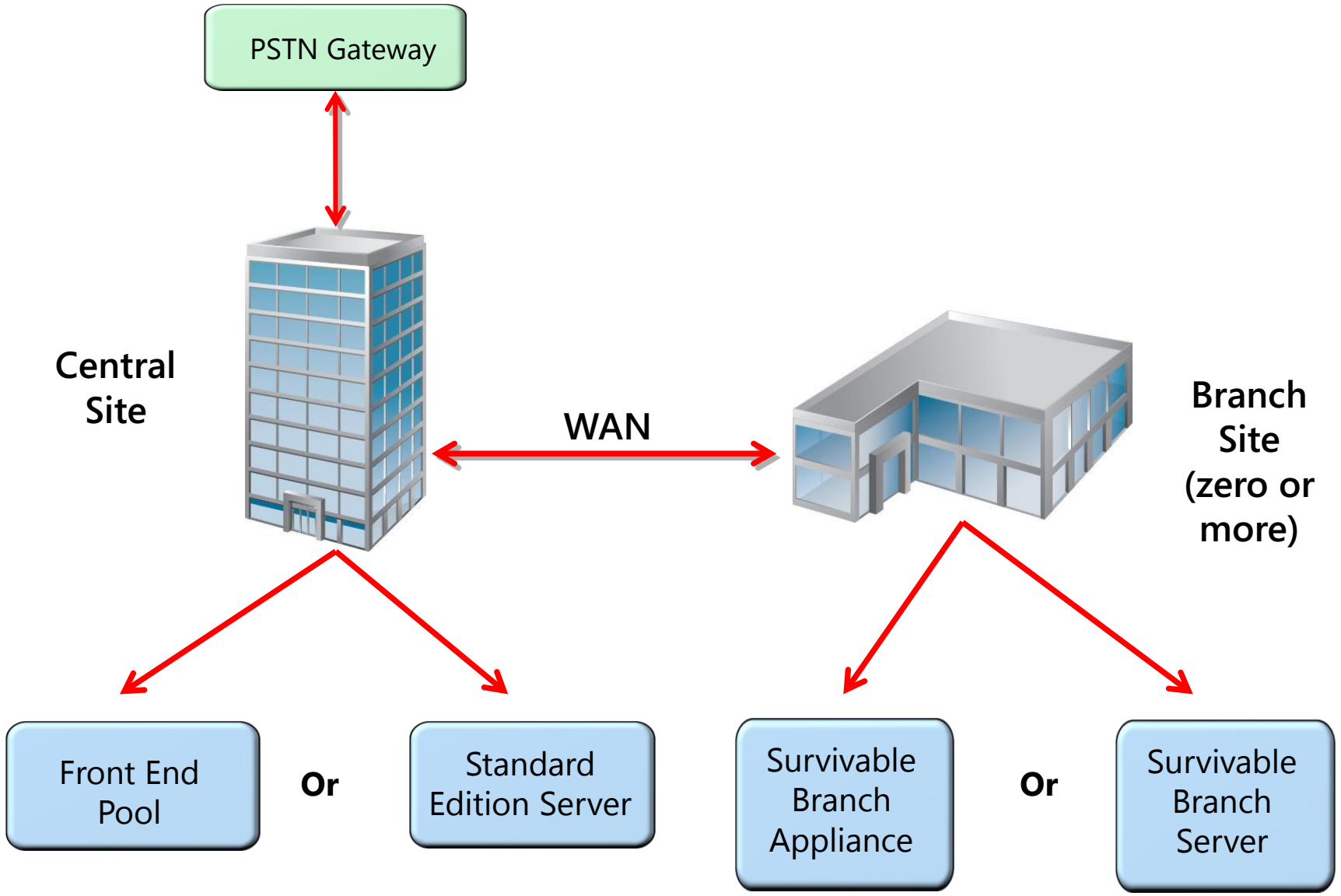
Lesson 3: Site Topologies

- No Branch Office Integration
- Small Organization Voice Topology
- Medium Organization Voice Topology
- Large Organization Voice Topology

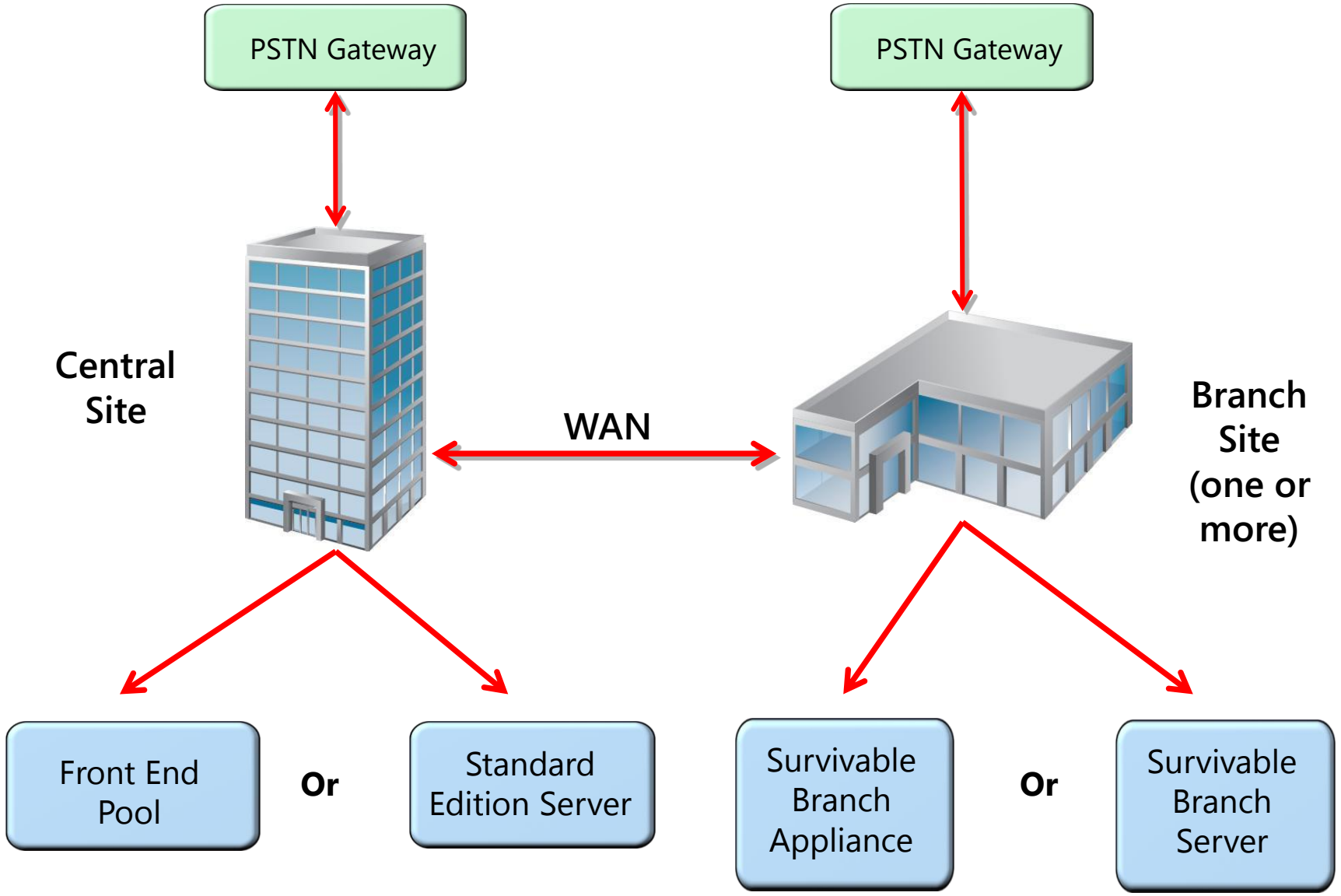
No Branch Office Integration (reference only)



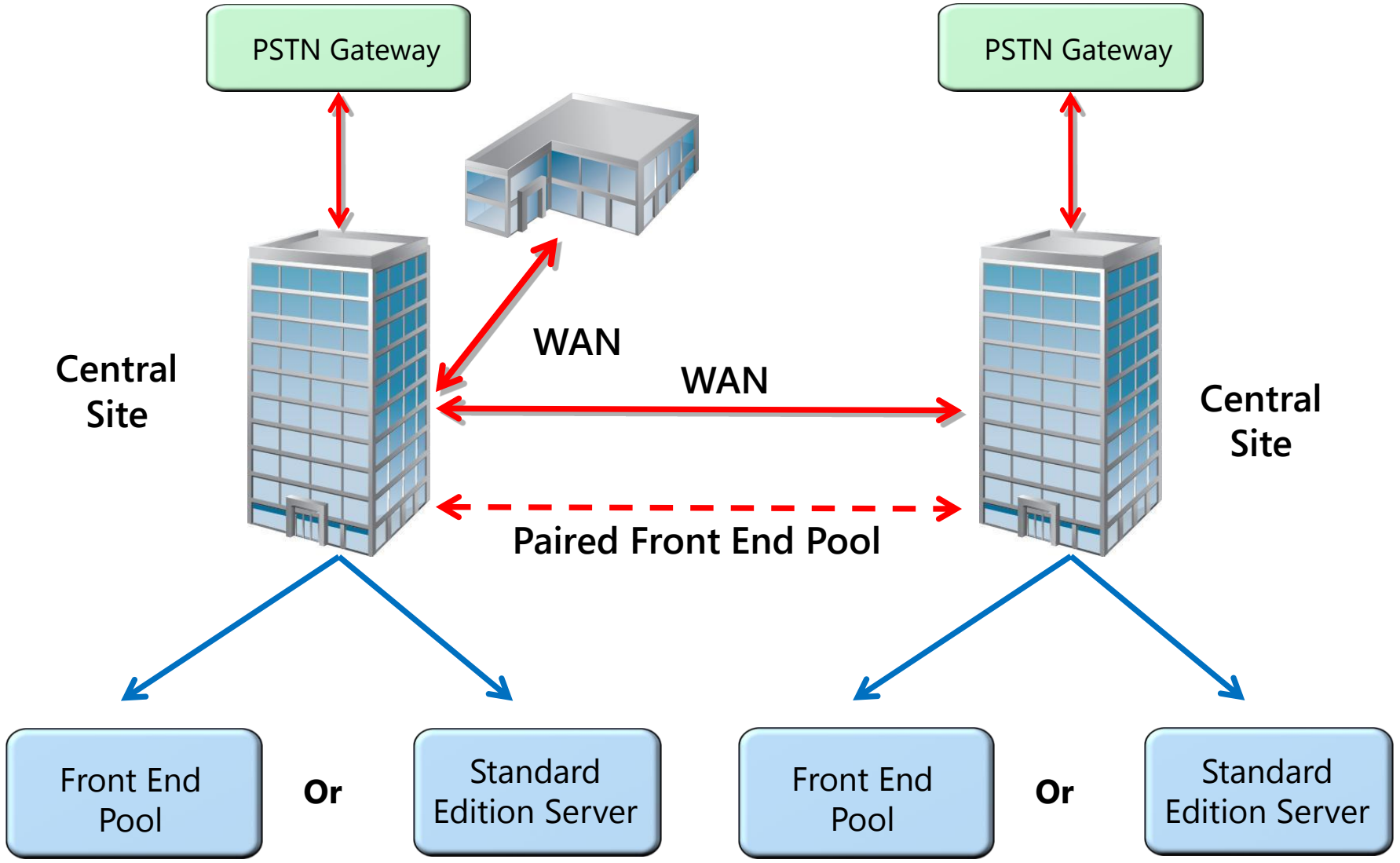
Small Organization Voice Topology



Medium Organization Voice Topology



Large Organization Voice Topology



Module Review and Takeaways

- Review Question(s)
- Real-world Issues and Scenarios
- Tools

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