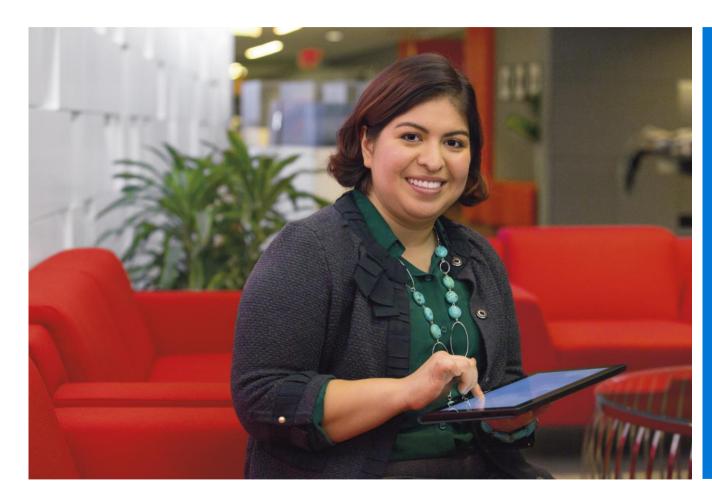


Agenda



Deployment overview
Enterprise Voice deployment
Best practices

Deployment overview



Microsoft Skype for Business (SfB)/Lync environment

Deployment overview

MSIT production topology Lync 2013

Microsoft SfB/Lync environment

200,000+ active SfB/Lync users



9 million+ audio sessions per month 4
data centers
with
SfB/Lync
infrastructure

980,000 monthly SfB/Lync meetings



107 countries

568 buildings

8 data centers

131,400 Enterprise Voice users 16,000+ federated companies



120 Million monthly instant messages



89% meetings using app sharing





44,000 monthly peer-to-peer video calls 50% remote SfB/Lync usage



90,000 unique active SfB/Lync mobile users

10,000 + conference rooms

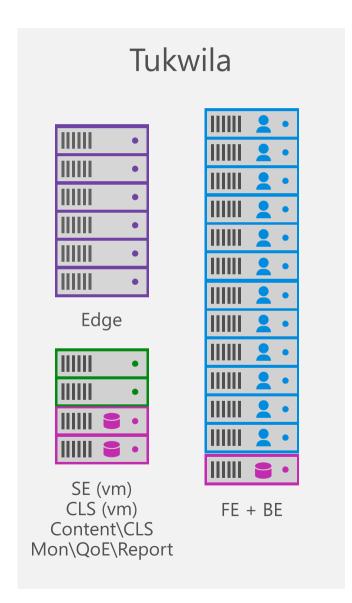
SfB/Lync deployment overview

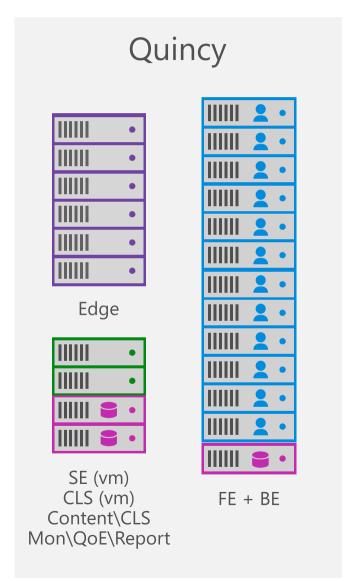


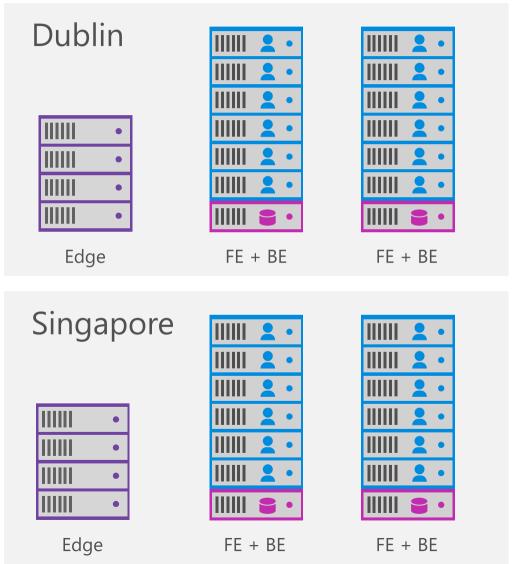
131,000+ users on Enterprise Voice across 191 sites (95 percent of Microsoft Employees)

200,000 users enabled for SfB/Lync 2013; 165,000 unique users monthly; 650,000 daily login events

MSIT production topology 2013







Summary

Deploying Enterprise Voice relies on multiple factors: infrastructure, demand, and network.

Enterprise Voice deployment



Deployment stage overview
Standard site design
SIP trunk site design

Overview of the deployment stages

Site qualification

 Does the site meet the requirements for EV.

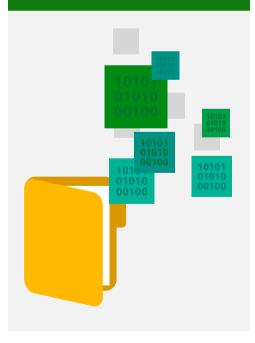
10%



Pre-work

Gather and document information about the site.

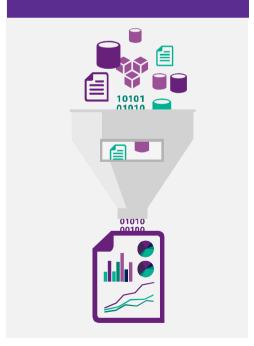
20%



Implementation

 Deploy and configure Gateways and Lync for the new site.

60%



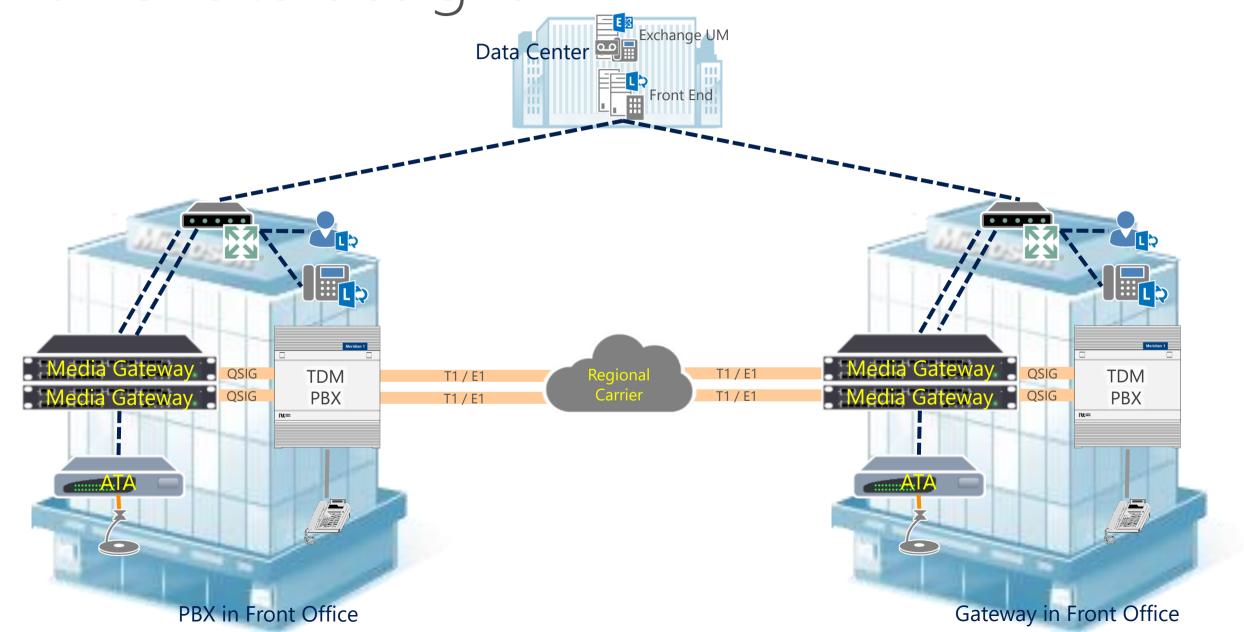
Go Live

 Initiate and validate pilot and then bring the whole site online.

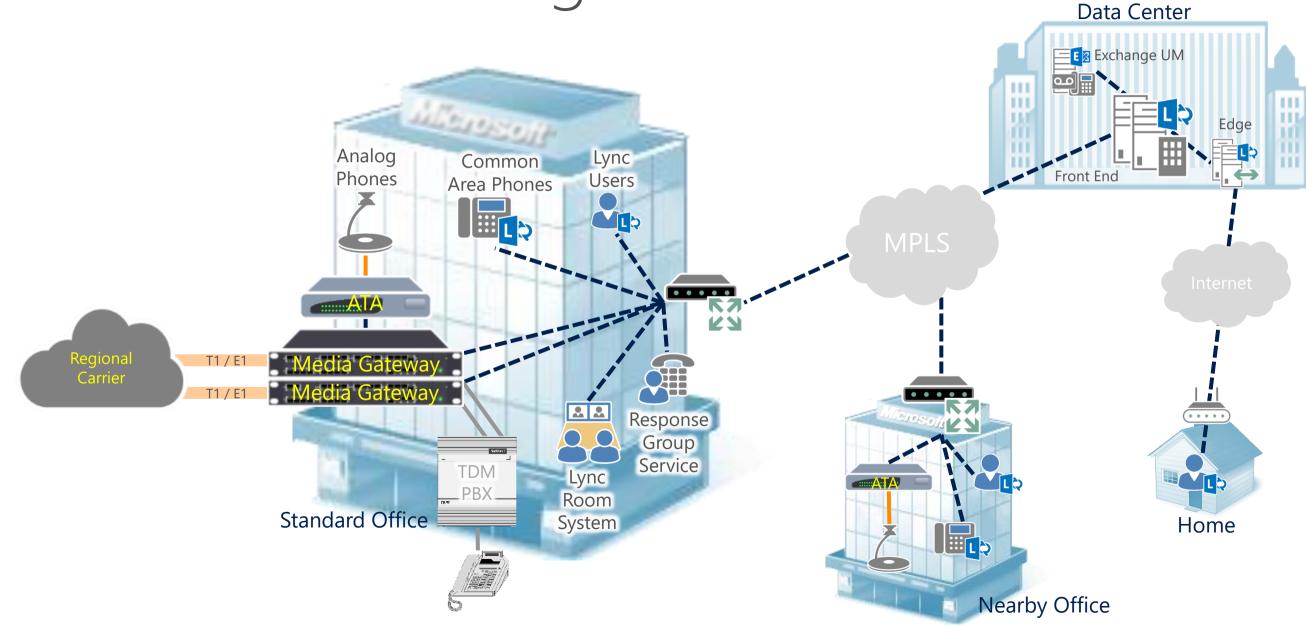
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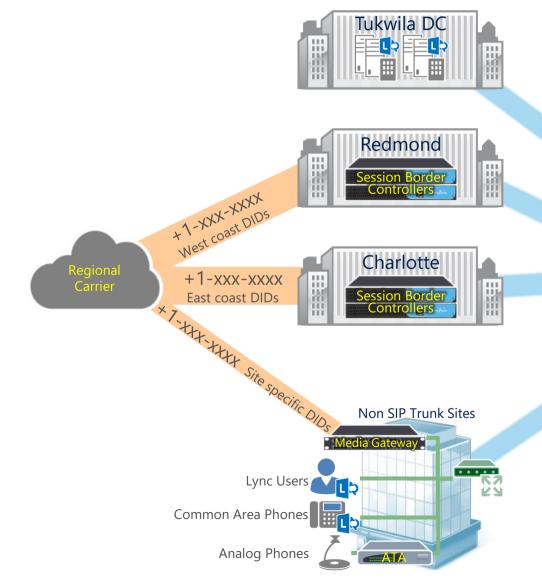
Earlier site designs



Standard site design



US SIP trunk site design









Corpnet







Summary

In deploying Enterprise Voice, carefully design based on your goals, environment and regional regulatory conditions.

Enterprise Voice best practices



Microsoft IT best practices

Microsoft IT best practices

Install gateway in front for easy PBX decommission

Fax, modems → migrate to POTs line if possible

Network Considerations

- Greater than 30% spare capacity in WAN
- WAN/LAN must support and be configured for QoS
- Voice queue is set at 24% on all WAN links

	Green	Yellow	Red
AVG Packet Loss Rate	4%	> 4 to 5%	>5%
AVG Round Trip (ms) (Between end point to Datacenter)	<200	201 to 250	>251
AVG Jitter Inter Arrival (ms)	<4	> 4 to 5	>5



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