

Lync Server 2010

Sjednocená komunikace na maximum

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- | Lync Server – What's new?

- | Lync 2010 Server – What's new?

- | New Devices for UC

- | External Access & Interconnectivity

Content

NEW CLIENT FEATURES



Find and communicate with the right people

- Locate someone on Lync 2010 using incomplete information

Connect with your social network

- People are easy to get in touch with. Share where you are and what you are doing

Manage your communications

- Easily manage your day-to-day communication using Lync 2010

Communicate within context

- Communicate and collaborate from within office applications

Find and communicate with the right people

- Live Contact Card
Bringing real time up to date information about People
- Contact Photos
Know who you are trying to find
- Contact Spoken Name
Know how to properly pronounce other persons name
- Fast Search Experience
Server based Search (ABS-WQ), alternate to local GAL download
- Skill Search
Better Together with SharePoint

Instant Messaging and Presence



Connect with your Social Network

- Unified Contact Store
Contact sync using Exchange
- Search Social Network
Using Outlook Social Connector – Outlook 2010
- Frequent Contacts
- Activity Feed
Share where you are and what are you doing

Instant Messaging and Presence



Manage your Communications

- Exchange Integration
Connecting using EWS and MAPI
- Authentication in Lync 2010
New ways to Authenticate in Lync 2010
- IM and Presence Enhancements
Reliable and Improved experience

Instant Messaging and Presence

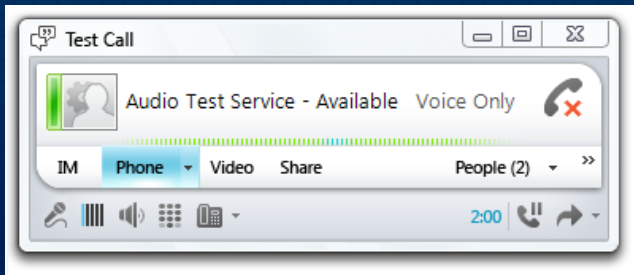


Experience

- | User hears intro recording, prompted to speak
- | Audio Test Service (ATS) records for 10 seconds
- | “Here is what I heard” + play recording

Service details

- | Unified Communications Application Server (UCAS) application is automatically installed when the UCAS role is installed



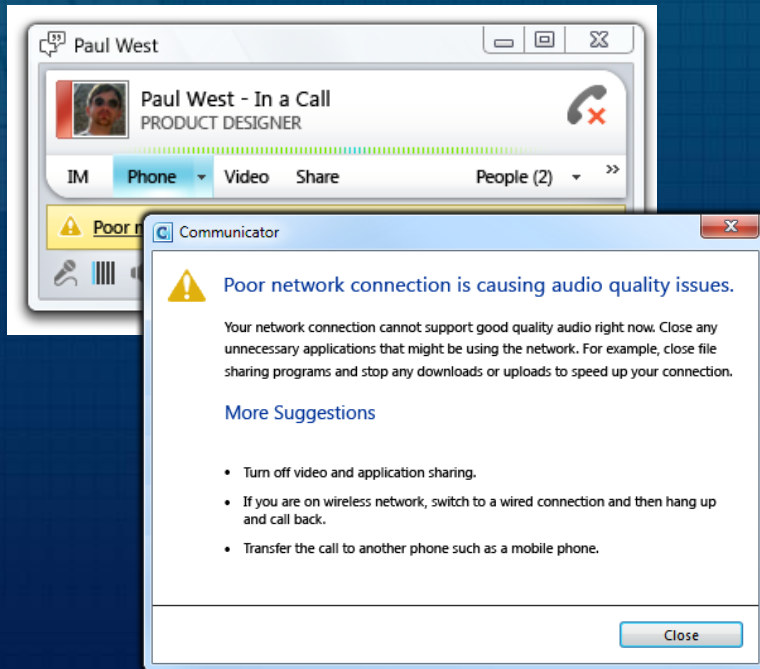
Audio Test Service

Overview of alert types

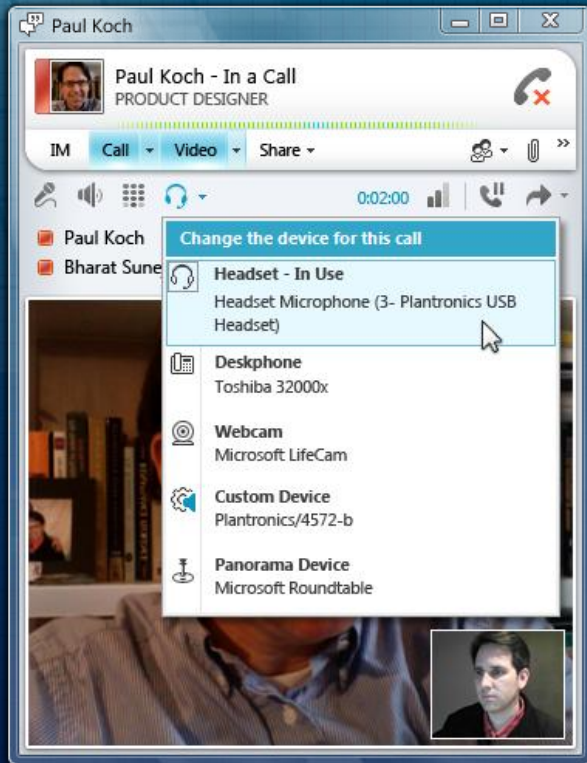
Network – packet loss, jitter, bandwidth, latency

Device – malfunctioning microphone or speaker, echo, low signal-to-noise ratio (SNR)

CPU – low CPU cycles for audio encoding and decoding



Call Quality



Automatic device selection

- By default, Lync 2010 automatically selects the “most capable” device
- Multiple criteria are used to determine which device is most capable
- User can override by selecting preferred device

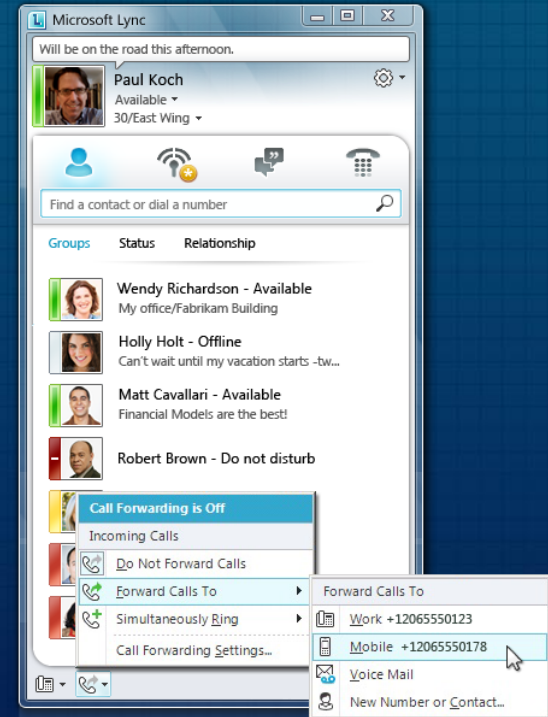
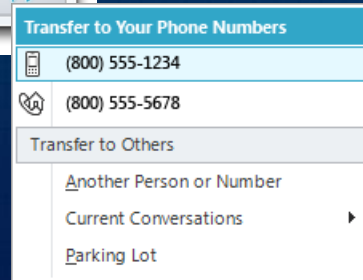
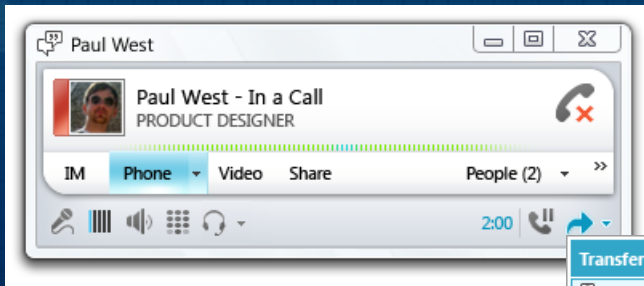
Preferred device

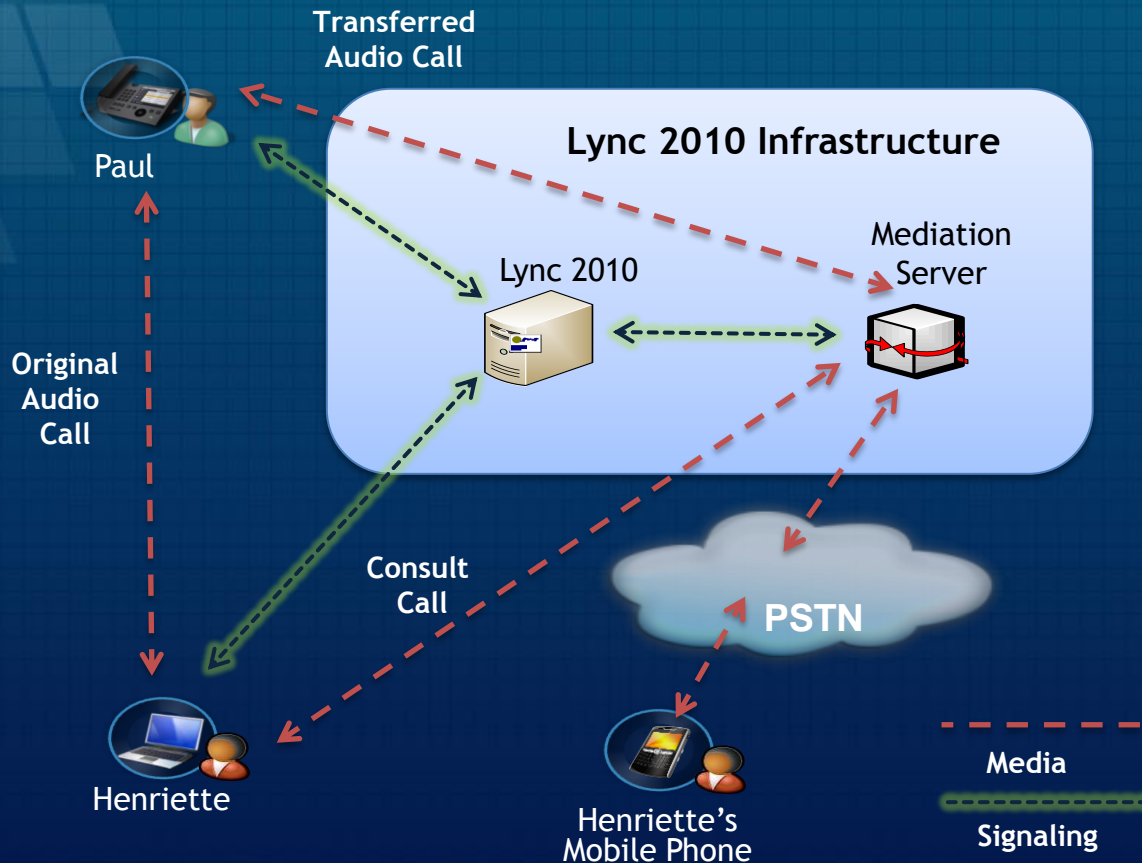
- Preferred device is used for both outgoing and incoming calls
- “Click to Call” results in the preferred device being used
- If preferred device is present, Lync will use it as the default
- Lync 2010 falls back to automatic device selection if preferred device is unplugged
- Lync 2010 remembers and returns to preferred device when it is plugged back in

Device Selection

Call forwarding

Call transferring

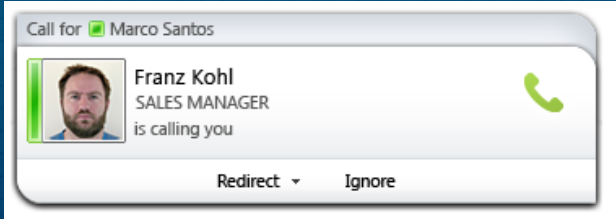




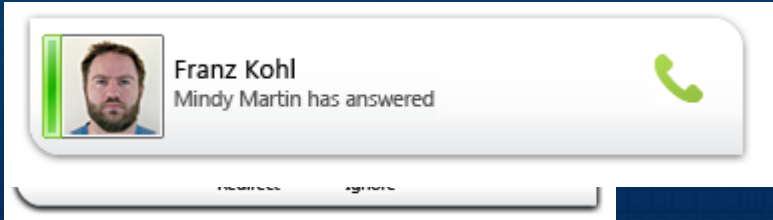
- Henriette and Paul are in a call
 Henriette uses Lync 2010 to transfer the call to her mobile phone
1. Lync 2010 sends an audio invite to Mediation server
 2. Mediation server calls through PSTN to Henriette's mobile phone
 3. Henriette answers; she now has two calls
 4. Lync 2010 asks Mediation server to connect Paul to the mobile call
 5. Mediation server sends a SIP INVITE with REPLACE to Paul
 6. Paul is connected to Henriette's mobile without Paul noticing; Henriette's call between Lync 2010 and her mobile phone ends automatically

EndPoint Transfer

Delegate view:



Boss view:



Manage Communication for Others



| Inherit Microsoft Exchange delegates

- | Exchange Calendar delegates are automatically enabled to schedule Online Meetings on the boss' behalf

| Do it yourself UI

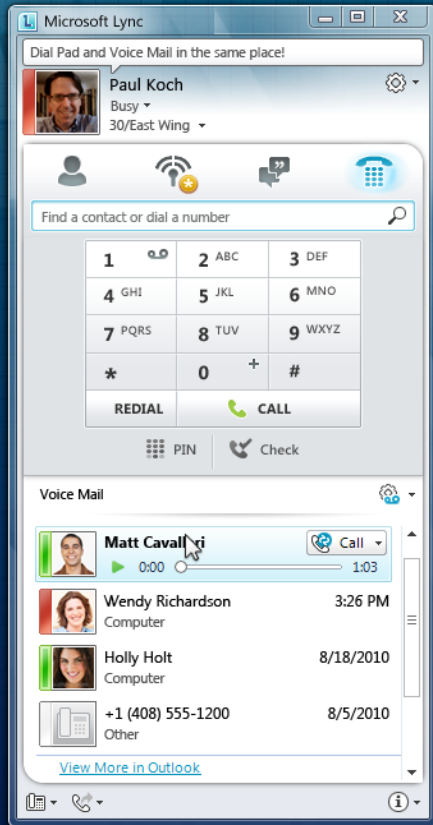
- | Use Call Forwarding settings to specify delegates

- | Boss can set "simultaneously ring" to delegates

| Have IT Administrator do it for you

- | Using Microsoft Lync Server 2010 Resource Kit

Delegate Configuration



- Lync 2010 downloads directly from EWS; Outlook is not required

- Voice mail is queried every 15 minutes

 - Logic to re-update after delete/read/unread/calls

- Users can listen to voice mail when EWS is down

- Microsoft Exchange Server 2007 SP1 or later is required

Voice Mail

Base requirement – provide location with emergency calls

The dispatchers must know the civic/street address of the caller

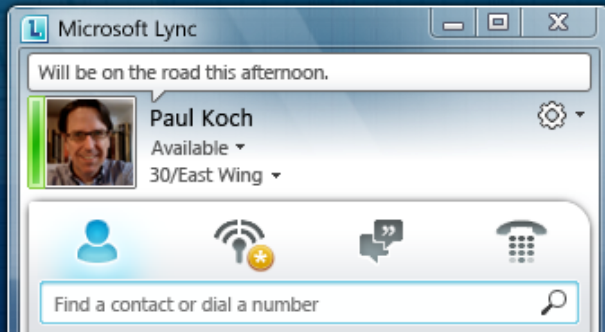
Locations may need to be to specific building, floor, wing, office, etc.

Base goal – support the roaming nature of Lync 2010 users

Inside the network (automatic or manual)

Outside the network (manual, then automatic for frequent/recent locations)

Connecting to the appropriate authorities without having a PSTN gateway to each emergency network



NEW SERVER FEATURES



- | Server/Topology Changes

- | Management and Administrative Changes

- | Enterprise Voice Features

- | Conferencing Features

- | Archiving and Monitoring Features

- | UCMA

What's New in Lync Server 2010



- | Standard Edition Topology

- | Enterprise Consolidated Topology

- | Server Roles

- | Front end

- | Back end

- | Director

- | Edge (consolidated)

- | Archiving server

- | Monitoring server

- | Survivable Branch Appliance (SBA)

- | A/V MCU stand-alone or collocated (optional, stand-alone recommended for large deployments)

- | Mediation server stand-alone (optional)

- | Group Chat roles (optional)

- | Reach Server

Topologies simplified



| What's supported?

- | Virtualization of specific Lync Server 2010 roles
- | Hyper-V R2 (2008 not supported), VMWare (per Server Virtualization Validation Program)
- | Client virtualization (except Audio/video - use IP phone)

| Not Supported

- | Branch office/Gateway only/Mediation server + gateway
- | Standard Edition (single server deployed as "Datacenter" site)
- | Live migration of VMs via SCVMM

- | Schematized definition of deployment topology
- | Configuration of Lync Server 2010 services and Policies managed by central store
- | Replication of policies/configuration to all topology nodes (including Edge)
- | Validation tools help prevent misconfiguration

Central Management Store

Lync Server Control Panel

- Silverlight™ based administration console

- Task oriented

- Handles the 80% cases

- Built on PowerShell

- Replaces MMC

PowerShell

- Complete access to all administrative tasks

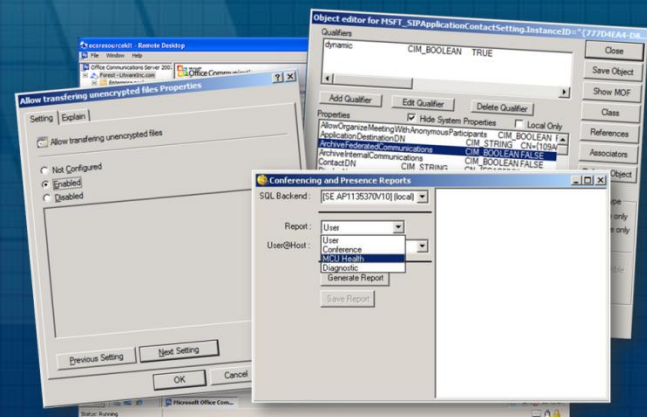
- Automation interface

- Replaces Windows Management Instrumentation (WMI)

RBAC

- Access controlled by security group membership

- New delegation model: site aware



Administration Changes

- | Used to prevent new connections while maintaining existing connections
- | Used primarily for Server Maintenance
- | Once a server is rebooted it will start accepting new connections

Server Draining Feature

“OCS 2007”

- “Anywhere Access”
- IM and Rich Presence
- Common voice features
- Unified messaging
- Audio and video conferencing
- Desktop integration

“OCS 2007 R2”

- Single Number reach
- Attendant Console
- Delegation/TeamCall
- Response Groups
- Session Initiation Protocol (SIP) Trunking
- Dial-in audio conferencing
- Higher definition video
- UC Workflow activities

Lync Server

- Branch Resiliency (SBA)
- Datacenter Resiliency
- Call Admission Control
- Call park, Unassigned #
- Topology changes
- Media bypass
- Routing changes
- Common area phones
- Private line
- Malicious Call Trace (MCT)
- Larger device portfolio

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| Single Client

| Join Reliability

| Dial-in Conferencing enhancements

| Rich in-conference experience

| Rich and Reach

| Consolidation of Infrastructure

What is new in Conferencing

SETUP AND DEPLOYMENT



Lync Server 2010 roles

- Windows Server® 2008 SP2 x64
- Windows Server 2008 R2 x64
- PowerShell V2

Admin Tools, and Core Component

- Windows 7 (x64 only)
- Windows Vista® SP2 (x64 only)
- PowerShell V2

SQL Server® Backend

- SQL 2005 (SP3) x64
- SQL 2008 (SP1) x64

Active Directory Forest/Domain level

- Windows Server 2003
- Windows Server 2008
- Windows Server 2008 R2

Software requirements

“Frontend” (FE)

- | CPU 8 cores (Dual Quad-Core) 2.00 GHz+

- | 16 GB RAM

- | Storage (10K rpm+, 72GB+)

- | Same for other roles (Edge, Monitoring/Archiving)

- | 2 NICs 1 Gbps+

“Backend” (BE)

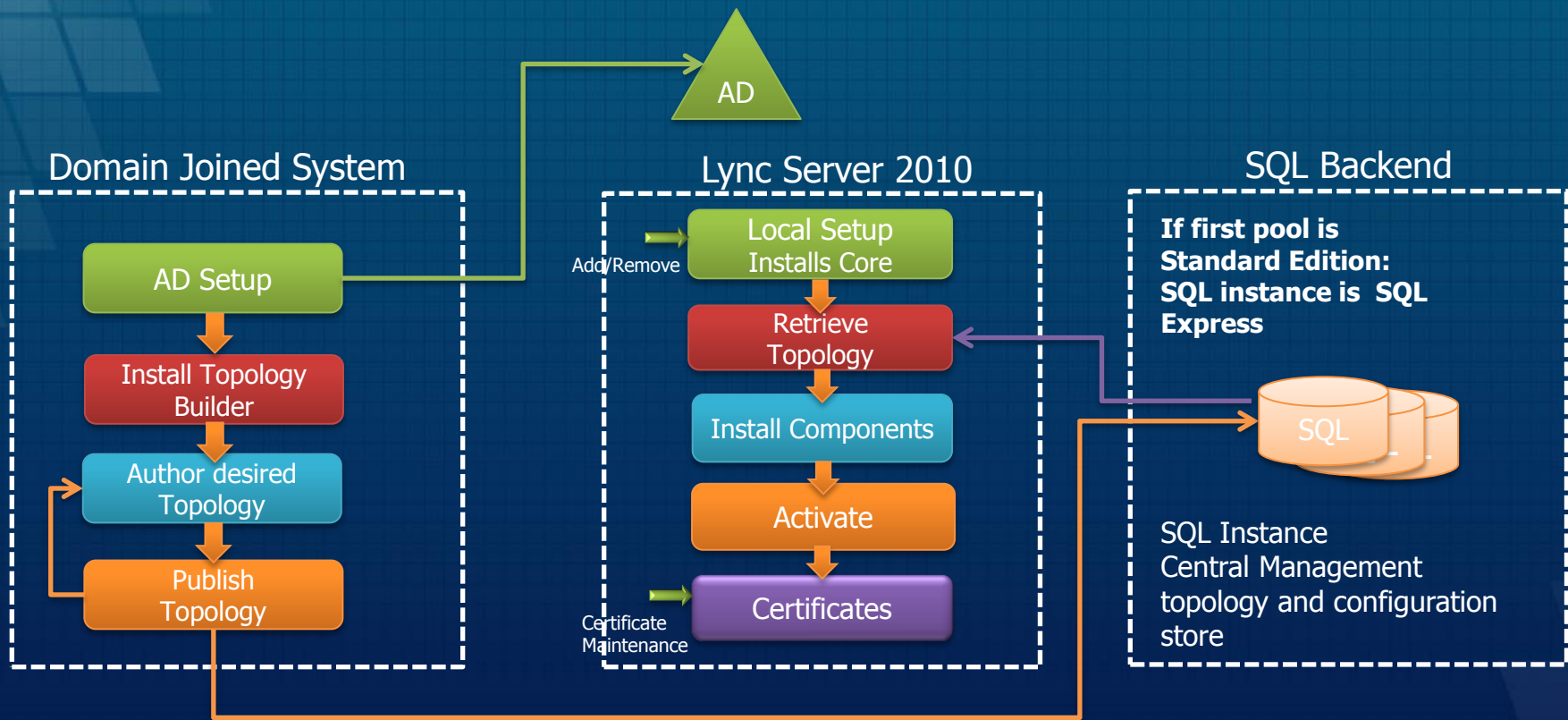
- | CPU 8 cores (Dual Quad-Core) 2.00 GHz+

- | 32 GB RAM*

- | Storage (10K rpm+, 72GB+), multiple spindles

- | 2 NICs 1 Gbps+

HW Requirements



\$850+

MSRP

\$200-300

\$100-200



Polycom CX3000



Polycom CX700¹



Polycom CX600



Aastra 6725 iP



Polycom CX500



Aastra 6721 iP

Other Clients



Možnost komunikovat bez nutnosti tlustého klienta Lync

- Připojení do konference (online schůzky)

- Uživatelé Mac a Linux mohou organizovat a vést konference

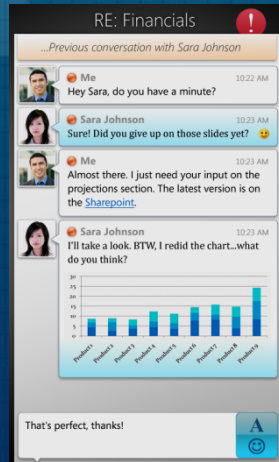
- Jednoduchý přechod z telefonního hovoru do webové konference (online schůzky)

- Založeno na technologii Silverlight

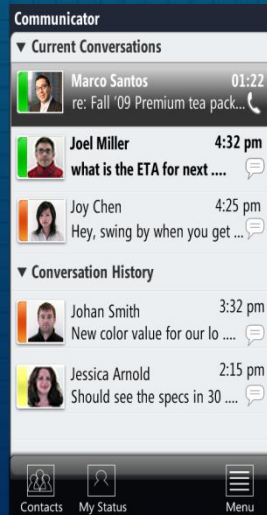


Lync WepApp

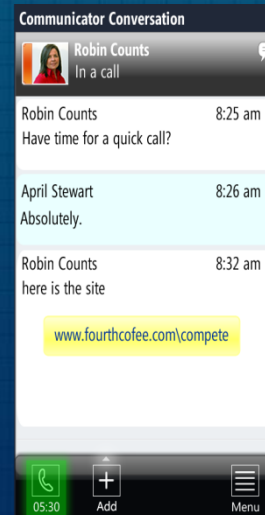




Instant messaging with full graphics



Conversation history is saved into Outlook, like with Lync 2010 Client



From instant messaging directly to Lync Call



Lync Mobile



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