Microsoft Teams for Service Providers

Everything you need to know for a successful deployment



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Microsoft Teams

The hub for teamwork in Microsoft 365

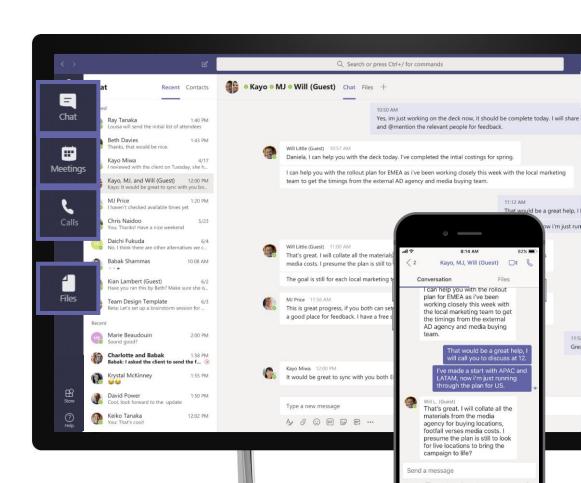








Built with the enterprise-grade security and compliance our customers rely on



Teams is the fastest growing business app in Microsoft history

500,000 + organizations use Teams

91Fortune 100
companies use Teams

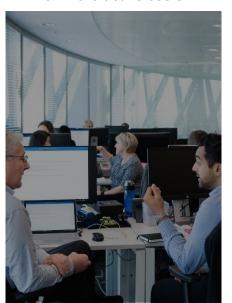
languages are supported in Teams

customers have 10,000 or more active users









Cloud Voice Services

Reach worldwide, for business of all sizes



Audio Conferencing

Available in 73 countries
Dial-in for 90 countries
Dial-out to 190+countries



Phone Systems

Modern collaborative calling Enterprise-grade quality IVR support 44 languages



Microsoft Calling Plan

Available in 11 geographies Complete carrier service Intelligent delivery of PSTN



Direct Routing

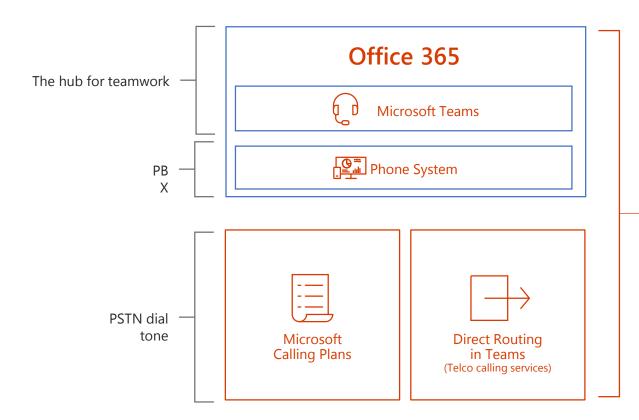
Bring your own SIP trunk Available worldwide Deployed in 64 countries

Voice Service Management and Extensibility

M365 IT Portal, call quality and diagnostics dashboard and reporting, programmable voice and bots framework

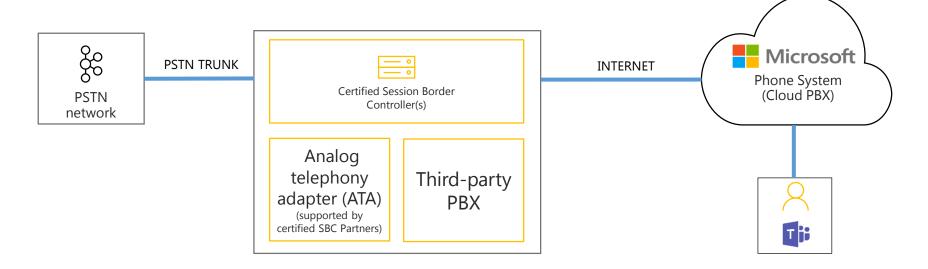


Enterprise Voice for the cloud



Phone System, when paired with Microsoft Calling Plans and/or Direct Routing, provides a full enterprise calling experience for Office 365 users in Teams on a global scale

Direct Routing for Teams



Connect own PSTN trunk

For countries where Microsoft Calling plans are not available Customers that want to keep existing telco contract

Interoperability with third-party systems

Mix two systems (for example, provide the option to connect analog devices)

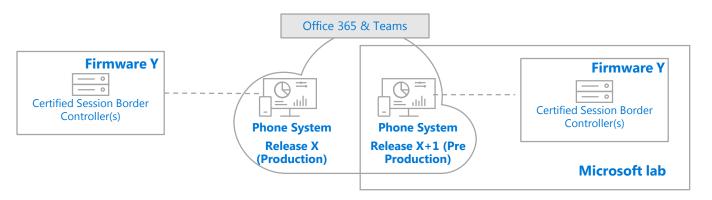
What does it mean "certified SBC"

Delivery of service from the cloud bring new challenges

Challenge: "Continuous Delivery" approach

- Direct routing cloud service constantly updates (every 1 to 2 weeks). Reason we react on customer feedback and bugs.
- While this approach significantly increase speed of delivery (no need to release a patch or service pack, distribute it to customers and wait for deployment) the challenge is how to make sure that new code on Microsoft side does not break interoperability with SBCs

Answer: Microsoft validates every certified SBC in preproduction environment before new release of our code goes to production



- Series of tests before pre reduction release (x+1) becomes production
- Microsoft guarantees that changes in Microsoft code will not break the certified SBC interoperability

Challenge: The complete solution consists from two components: SBC and Microsoft Phones system

- Customers can end up in a "finger pointing" activity where to vendors can point to each other
- Transferring accurate description of the issue between vendors is not an easy task

Answer: Microsoft and certified SBC vendors have joint support process. Customers can open a bug with Microsoft or SBC vendors and escalation, of needed, will be handled internally between the SBC vendor and Microsoft

Build Direct Routing with ...





Fully validated
Pre-production testing
Joint support process

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Jurgen Van Maele Solution Director EMEA, AudioCodes







AudioCodes - The One Voice Company



One vendor for connectivity, phones, and value-added applications

One suite of management tools for voice network lifecycle management

One vendor for logistics, support and professional services



SBC

Fully certified by Microsoft for Direct routing



C4xxHD

Native Phones for Teams and 3PIP family



UMP 365

User Management Pack for lifecycle management



Centralized network & device management with quality monitoring



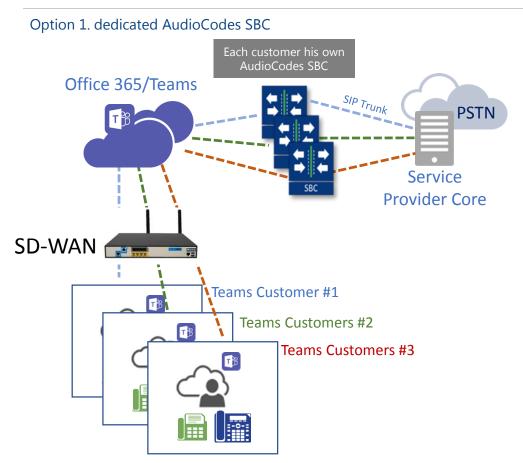


Teams Direct Routing

With AudioCodes Session Border Controllers

Deployment Options for SBC-as-a-service



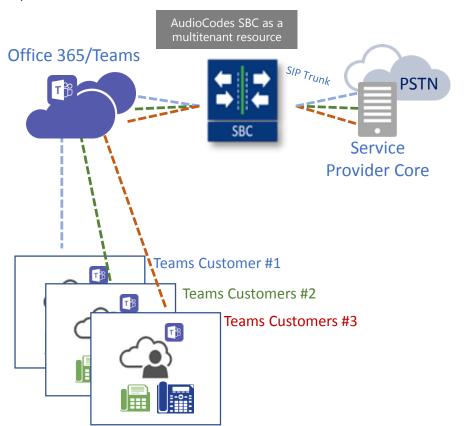


- Host a dedicated SBC per customer
 - Use the customer provided TLS certificate
 - Route between Teams and the customer SIP trunk
 - Size the AudioCodes SBC according to the customer
 - Hardware appliance or Virtual or Cloud based
 - available in cost effective sizes from 10 to 50.000 concurrent calls
- Use the AudioCodes SD-WAN solution for secure, cost effective and resilient connection of customers or their branches to the O365 cloud

Deployment Options for SBC-as-a-service



Option 2. Multitenant AudioCodes SBC



- Host a single SBC for any customer
 - Use your own wildcard TLS certificate
 - Still possible to use a customer provided TLS certificate
 - Route between Teams and the PSTN
 - Using a customer SIP trunk
 - Using a shared SIP trunk
 - Size the AudioCodes SBC according to the sum of all customers
 - Hardware appliance or Virtual or Cloud based
 - available in cost effective sizes from 10 to 50.000 concurrent calls

One Product Family | Same feature-set | Same release

Why AudioCodes for Teams Direct Routing?



- Don't touch your core SBC!
 - eliminate risk by deploying dedicated Teams SBCs at customer premises or hosted
 - don't interfere with mainstream usage profiles for your existing access SBC
- Benefit from AudioCodes One Voice for Teams
 - fully certified by Microsoft
 - AudioCodes One Voice for Microsoft UC exists for over a decade
 - rapid adaptation of new direct routing features
 - media optimization
 - · emergency call detection
 - scalable without risk
 - from single session to 50k Concurrent calls
 - from 1 customer to 5000 per SBC instance



Deployment choices for AudioCodes Direct routing SBC



- Deploy it in the most suitable way for you
 - your size and platform preference
 - OPEX or Capex
 - on customer premise
 - in your datacenter
 - in your cloud
 - in someone else's cloud
 - managed by AudioCodes
 - a fully managed AudioCodes SBC for your direct routing customers
 - running in the AudioCodes Azure tenant or in your cloud!
- No need to integrate it into the customers network





User Devices

AudioCodes phones for Teams

AudioCodes 400HD Device Portfolio



Outstanding User Experience through voice quality, intuitive design, and powerful features



Advanced mid-range model Improved Graphic LCD 256x128 Dedicated LCD displaying

12 contacts + presence

1GB Ethernet USB Port

440HD IP Phone



Advanced mid-range color 4.3" color display (480x272) 6 softkeys + integrated sidecar (12 contacts) 1GB Ethernet WiFi / BT support

445HD IP Phone



High end, executive model 5" color touch screen Wifi / BT Support 1GB Ethernet **Optional Expansion unit**

> C450/450HD IP Phone



Conference Solution

Scalable: 6 ppl | 12 ppl |15 ppl Full Meeting Management Integrated Bluetooth USB Port 1GB Ethernet

45x Huddle Room



Low-cost, entry level model

Basic I CD with 4 programmable soft keys 1GB Ethernet

405HD IP Phone



Cost-effective, basic model Basic LCD with 4 programmable soft keys 1GB Ethernet

420HD IP Phone

AudioCodes C450HD: Native Teams Phone





C450HD native Teams phone highlights

- color 5" capacitive touch screen
- 1280x720 resolution
- High End native Teams client experience
- contact pictures
- integrated Bluetooth / Wi-Fi (optional)
- Microsoft provided / managed Teams app

YouTube Demo



Phones, value proposition for Service Providers



- Bundle it with your Direct Routing proposal for Teams
 - drive your license sales as Microsoft Cloud Solution Provider (CSP)
 - propose the AudioCodes Device manager for management of the 3PIP phones
- Maximize voice quality
 - AudioCodes phones have AudioCodes DSP technology for best possible audio
- Win all users within your Teams end customers
 - offer "a real Phone" for those who prefer, without isolating them from the adopters of UC





UC Lifecycle

User Management Pack 365

Lifecycle management for Microsoft Teams



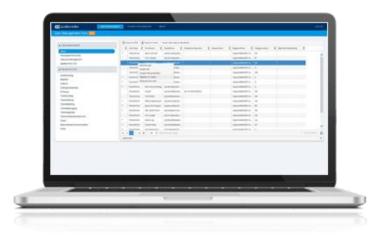
- PBX replacement with Office 365 Phone System (aka Teams) leaves a gap
 - large PBX had service contracts with the vendor
 - All moves adds and changes of phones and users is done by the PBX expert
 - SMB PBX have a simple tool or GUI for daily changes
 - Teams is part of the O365 ecosystem scalable up to large enterprise
 - deep integration with other O365 applications and services
 - largely PowerShell (CLI) based
 - daily user management activities require robust PowerShell skills.



Introducing AudioCodes User Management Pack 365



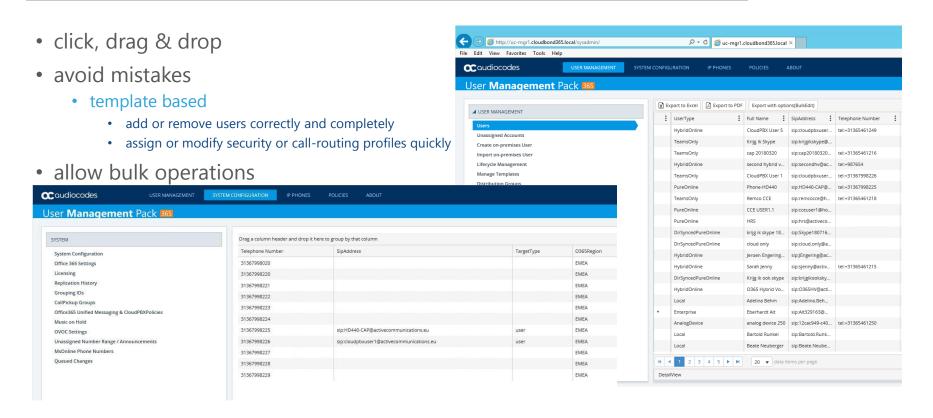
- A web-portal user interface
- Simplifies user life cycle management
- Hides the PowerShell complexity
 - AudioCodes experts guarantee compatibility with O365
 - close follow up of Microsoft product evolution and guidelines
 - · we are the experts
- Useable for any deployment model
 - Teams, SfB-Online, SfB 2015/2019, hybrid
- Role Based Access Control



User Management Pack 365 is a powerful software application that simplifies user management & life cycle management across Microsoft Teams and Skype for Business deployments

Manage users and numbers

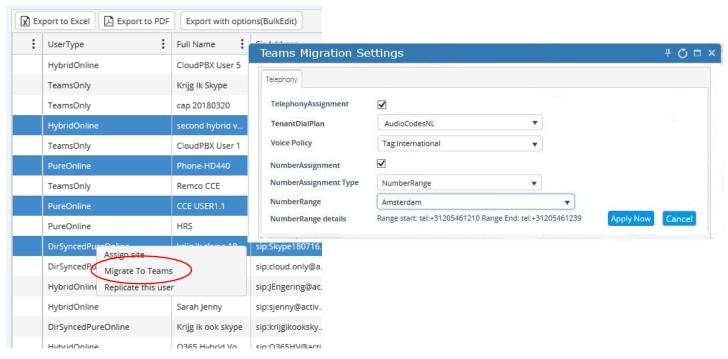




A quick glimpse in the features



- Manage co-existence between SfB on-prem and Teams
- Migrate users from SfB with a single click



UMP, value proposition for Service Providers



- Bundle it with your Direct Routing proposal for Teams
 - as a hosted service in your DC or on Azure
- Take the complexity out of Office 365 Telephony System user management
 - your customers PBX guy will be able to do it
 - free up your customers PowerShell-Ninjas from these repetitive tasks in good faith
 - AudioCodes will maintain the PowerShell "under the hood"



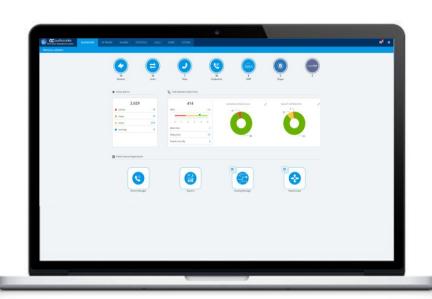
Operations and Monitoring

One Voice Operations Center

One Voice Operations Center



- A consolidated platform for
 - CPE and SBC monitoring and Configuration
 - Any AudioCodes Mediant or MediaPack
 - end user device management
 - Any AudioCodes Phone, Jabra headset and selected 3rd parties
 - Quality-of-Experience analytics
 - User experience of VoIP calls for SLA reporting
 - northbound reporting
 - Forward selected info to Generic Network Management Systems
- Deployed as virtual machine
 - in public or private networks
 - NAT aware



Focused on usability



- Point and click for drill down
- Aggregation of relevant data into color coded Graphs and views
- Configurable automation & reporting & journaling
- Multitenant





OVOC, value proposition for service Providers



- Monitor, configure and backup your SBCs
 - Filter and forward relevant data to your overlay NOC tools
- Automate deployment of new customers
 - Full deployment of a new dedicated Teams Direct Routing SBC
 - Incremental deployment to an existing multitenant SBC
- Generate end-customer SLA reports
- Provide end customer access for self-management
 - Device manager of AudioCodes IP phones and Jabra headsets
 - management and QoE of their AudioCodes CPE

LON Customer / OFFICE1 CDG OFFICE3 Customer B AMS

Up to 30,000 end-user devices
Up to 5,000 SBC and CPE
Up to 500,000 SNMP performance metrics
Up to 12 months of historical data



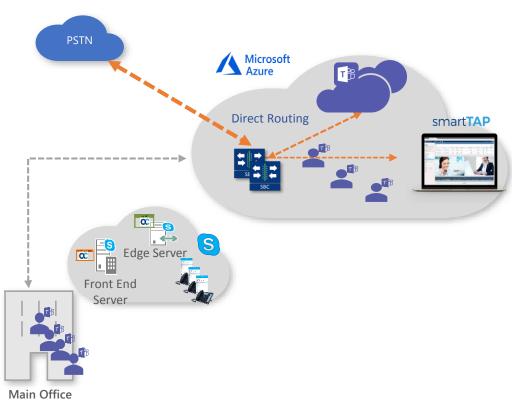
One last thing...

Call recording for Microsoft Teams

SmartTAP 360° for Microsoft Teams



- Recording for
 - voice, video and IM
- Use it for
 - compliance , quality management , malicious call reporting
- Supported today
 - Recording interface into the Direct Routing SBC (SIP-rec)
 - Ready for integration through Microsoft APIs
 - · Certification in progress
 - Also for hybrid scenarios with Skype for Business
- Available Deployment models :
 - End Customer premises , SP private DC or public cloud
 - CAPEX or OPEX
 - Call recording as a service





Thank You









Microsoft Teams for Service Providers

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Remco de Kramer
Product Manager,
VodafoneZiggo







About Vodafone NL Business

Largest SfB Server hosting provider leveraging shift to Microsoft Teams

Digital workplace services in B2B based on Microsoft Technology

Incumbent Dutch telco offering fixed, mobile and entertainment services

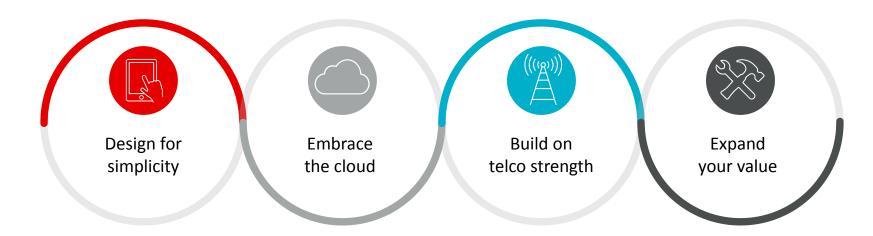
VodafoneZiggo: Joint Venture from Vodafone Group and Liberty Global







Communication is at the heart of collaboration; therefore we extend Microsoft Teams with Vodafone Business Fixed Voice

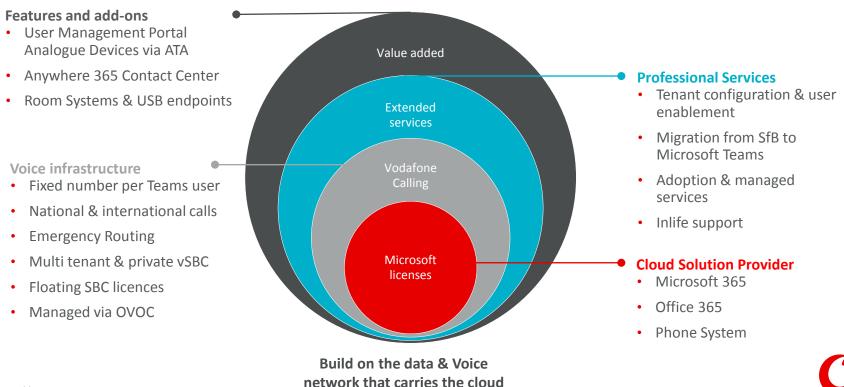


Bundle Calling infrastructure in one commercial package (SIP trunk and SBC) Attach Direct
Routing infra to
carrier network
(not requiring
onprem hard/software &
access)

Customers want all calling infrastructure to reside with their trusted telco Deliver a whole solution and differentiate offering



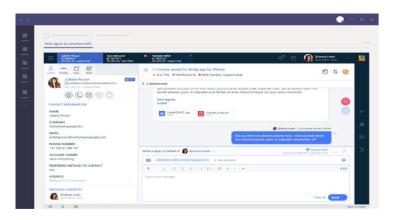
Fulfil customer needs by building a complete solution around Direct Routing for Microsoft Teams







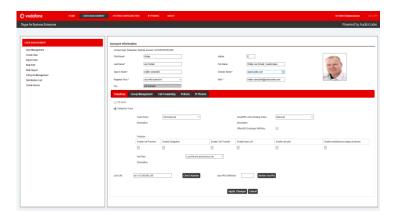
For organizations needing more then Office 365 Auto Attendant and Call Queues we offer Anywhere 365 by WorkStreamPeople







Facilitate migration from SfB to Teams via (white label) AudioCodes User Management Pack 365 Analogue devices must continue to work in Teams via Managed AudioCodes ATA's





AudioCodes ecosystem creates advantages you can leverage to create a differentiating proposition

O1 Management & E2E quality monitoring in OVOC (inc. headsets or phones)



02 User Management Pack & IP Phone manager



03

Professional services to compliment Vodafone's



Managed Analogue
Telephony Adapters



05

Extensive pre-sales / development support



Design consideration

Place Multi tenant and private SBC's "behind" SBC's in core voice network



Do not enforce updates on SBC's in core voice network.



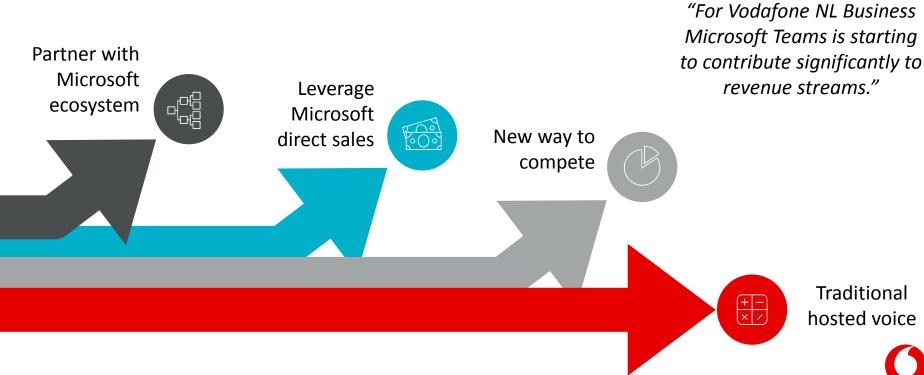
Independent on innovation cycle of core voice network. Updates are required to support all functionality.



Freedom to customize SBC configurations and offer features. E.g. number blocking or manipulation.



Grow and reach scale by onboarding new sales channels, address demand and bypass competition via Office 365









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Q&A





