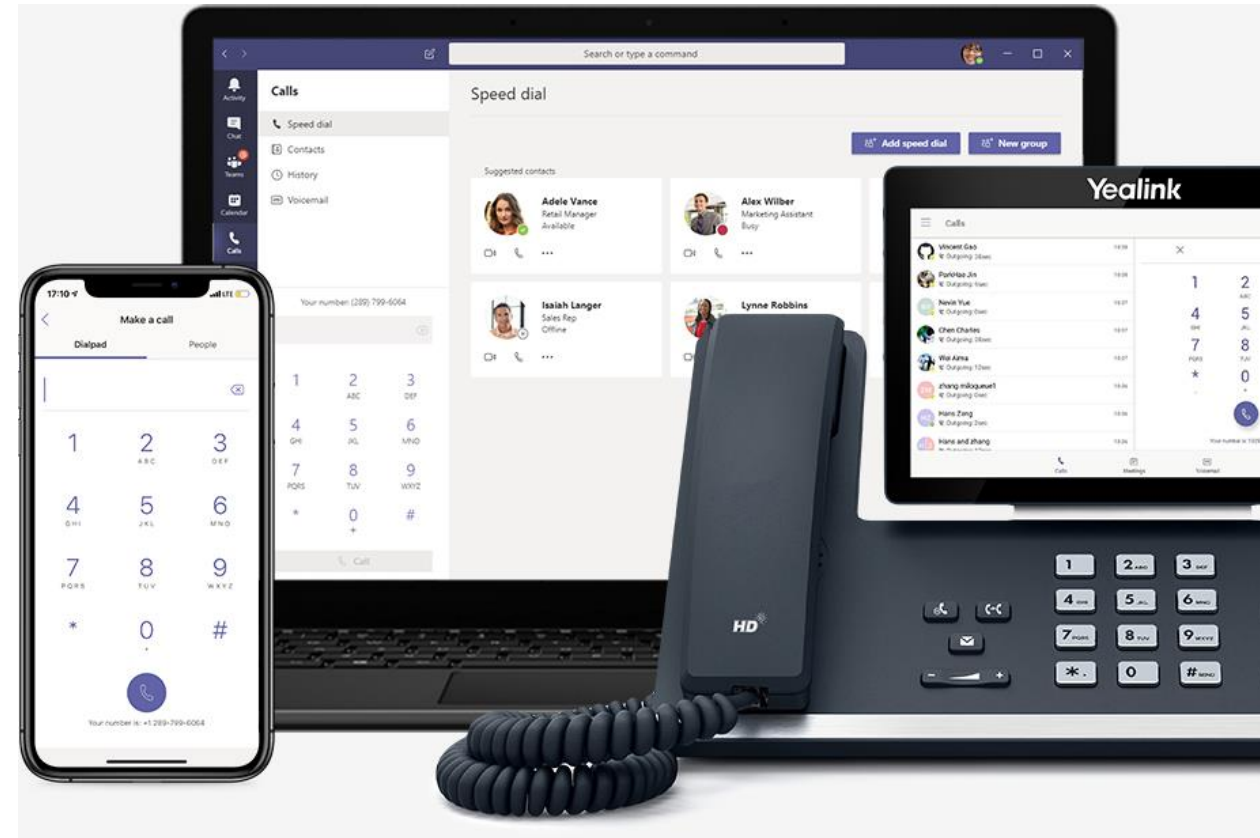# SIP Gateway – Your Gateway to Analog & SIP devices

Modernize Communications
Flexible, secure calling facilitates hybrid work

February 21st , 2023
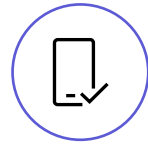
Microsoft Teams Phone

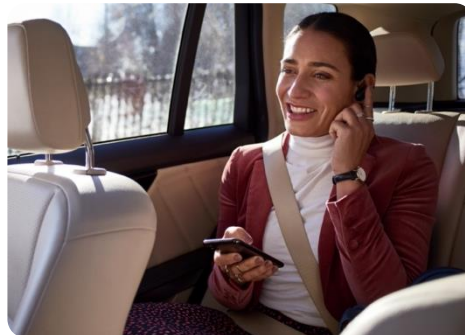An enterprise-grade cloud communication service built for all the ways you work.

Simplified communication and collaboration through a single app.

Enterprise-grade communication features.

Flexible, mobile-first experience and devices.

Teams Phone Overview

Core call control & infrastructure

Microsoft Teams Phone

Cloud-based enterprise-grade call control.

PSTN service & phone numbers

Microsoft Teams Calling Plans

Microsoft is your operator.

Operator calling plans

Operator Connect

Seamless integration of qualified operators.

Direct Routing

Bring your own operator & on-prem infrastructure.
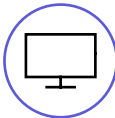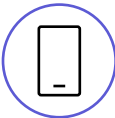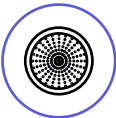
Operator Connect Mobile

Hardware/ softphone calling endpoints
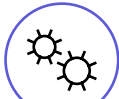
Devices and endpoints

Phones, peripherals, and softphone.

Partners & integrations

ISV integrations/APIs

System Integrators

Operators

OEMs

SIP Gateway

Teams supports compatible SIP devices via the SIP Gateway service.

SIP Gateway

- ❖ SIP Gateway provides core telephony experience to enable organizations to use compatible 3rd party SIP devices with Microsoft Teams

- ❖ Use any compatible SIP device with Microsoft Teams to preserve your investments in SIP devices.

- ❖ You can sign-in to Teams with your corporate credentials and make and receive calls with a compatible SIP device.

- ❖ **Compatible devices can be:**
  - IP phones from Poly, Yealink, AudioCodes with standard SIP firmware
  - Cisco IP phones with multiplatform SIP firmware
  - IP-DECT devices, Analog devices

- ❖ **Compatible ATA devices:**
  Analog will be supported by connecting a compatible analog telephone adaptor (ATA). There will be models from AudioCodes, Cisco, and Poly:
  - **AudioCodes** (MP-1288 , MP-124 , MP-118, MP-114, MP-112)
  - **Cisco** (ATA 191, ATA 192)
  - **Poly** (OBI 300, OBI 302)

Requirements:

- ✓ Is SIP gateway enabled for the tenant?

- ✓ Enable analog, DECT devices to make and receive calls.

- ✓ Plan to use phone system license for users and **Microsoft Teams Shared Devices** (**CAP licenses)** for common area devices.

- ✓ Analog devices are supported only for CAP (Common Area Phone) accounts

- ✓ Phones connected through SIP gateway can join conference only through dial-in **(meeting join on roadmap)**

- ✓ Firmware upgrades for analog, DECT are to be done manually or from provisioning servers provided by vendor.

Tip: SIP Gateway unblock customers' existing telephony hardware; SIP Gateway can reduce migration costs for customers as they move to Microsoft Teams

SIP Gateway

Leverage your existing SIP phones for Microsoft Teams Phone

SIP Gateway enables:

- User authentication
- Integration into Teams routing policies and regulations
- Device inventory management in Teams admin center
- Emergency calling and location support with security desk notifications

Supported calling features:

- Inbound and outbound calls
- Call transfer
- Call forwarding
- Dynamic Emergency Calling
- Audio conferencing
- Meeting dial-in
- Set Do Not Disturb
- Voicemail with message waiting indicators

Compatible SIP phones

Cisco IP Phones with MPP firmware (6821, 7800 series, 8800 series)

Polycom SIP phones (VVX series 100, 200, 300, 400, 500, 600 etc.)

Yealink (T20 series, T30 series, T40 series, T50 series)

AudioCodes 400 HD series

SIP Gateway Devices – Analog/Fax/Other

SIP Gateway - ATA

❖ An **analog telephone adapter** (**ATA**) is a device for connecting traditional analog devices to a digital telephone system. In context of SIP GW, it connects these analog devices via SIP GW to Teams.

❖ A single ATA can connect **N** devices via **N** ports (RJ11 interface).

❖ Each port represents a SIP device from TAC (Teams Admin Center) perspective and there is no notation for ATA.

❖ The **hardware ID** of each device is composed of the **MAC** address of the ATA and a **port number**.

❖ For example, "00-90-8F-49-28-79:001" which represents ATA MAC address 00-90-8f-49-28-79 and port number 001.

SIP Gateway requires the use of secured RTP (SRTP), thus resulting in some channels reduction.

Audiocodes, Cisco & Poly

SIP Based Paging Devices

DECT device integration with SIP Gateway

We are integrating digital enhanced cordless telecommunications (DECT) devices with SIP Gateway, allowing frontline workers to use Teams calling functionality on DECT devices to communicate with colleagues while on the go.
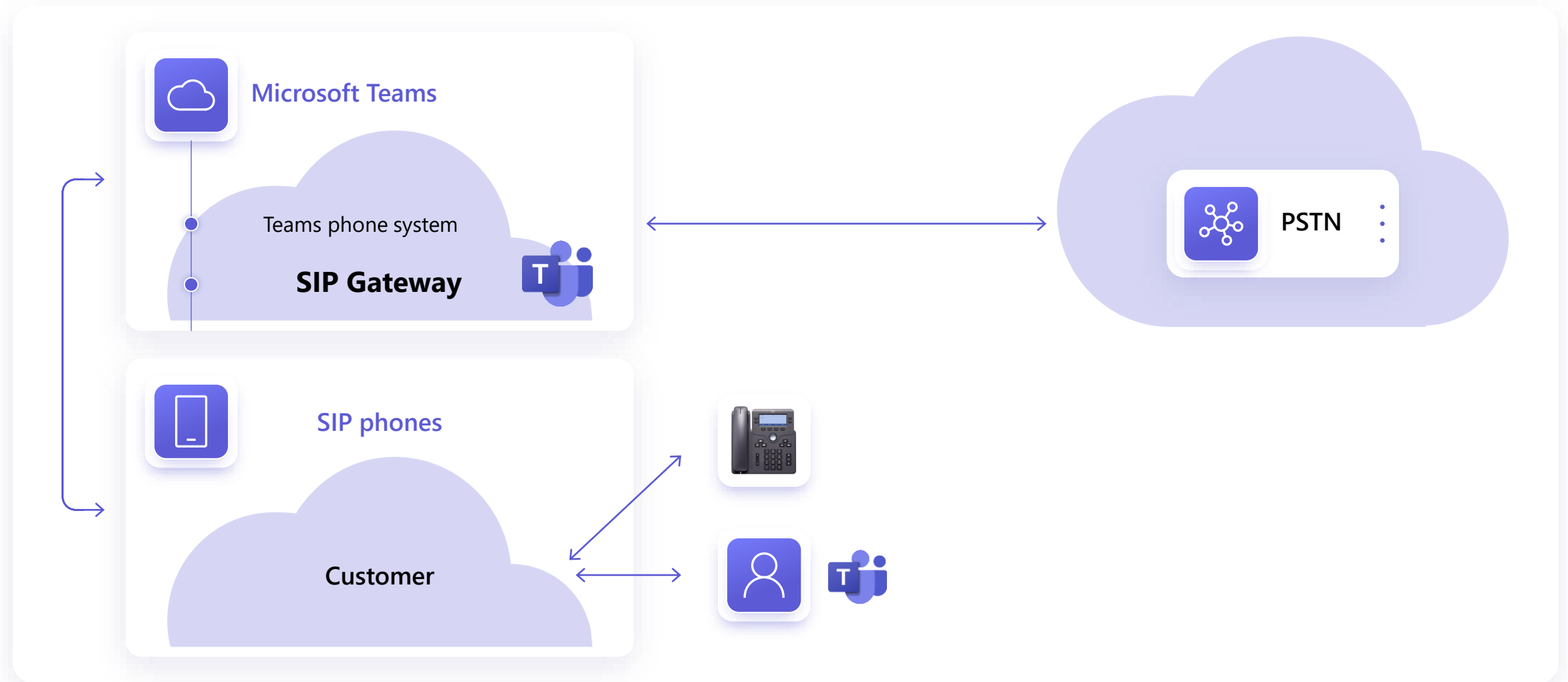
DECT Integrations from below partners are GA -
Compatible Handset models from Spectralink, Ascom and Poly
- Spectralink (IP-DECT 200/400/6500/Virtual IP-DECT, handsets 72xx/75xx/76xx/77xx)
- Ascom (IP-DECT Access Points IPBSx, Gateway IPBL, Virtual Appliance IPVM, handsets d43/d63/d81/d83/Myco3)
- Poly (base stations Rove B2/B4, handsets Rove 30/40, repeater Rove R8)
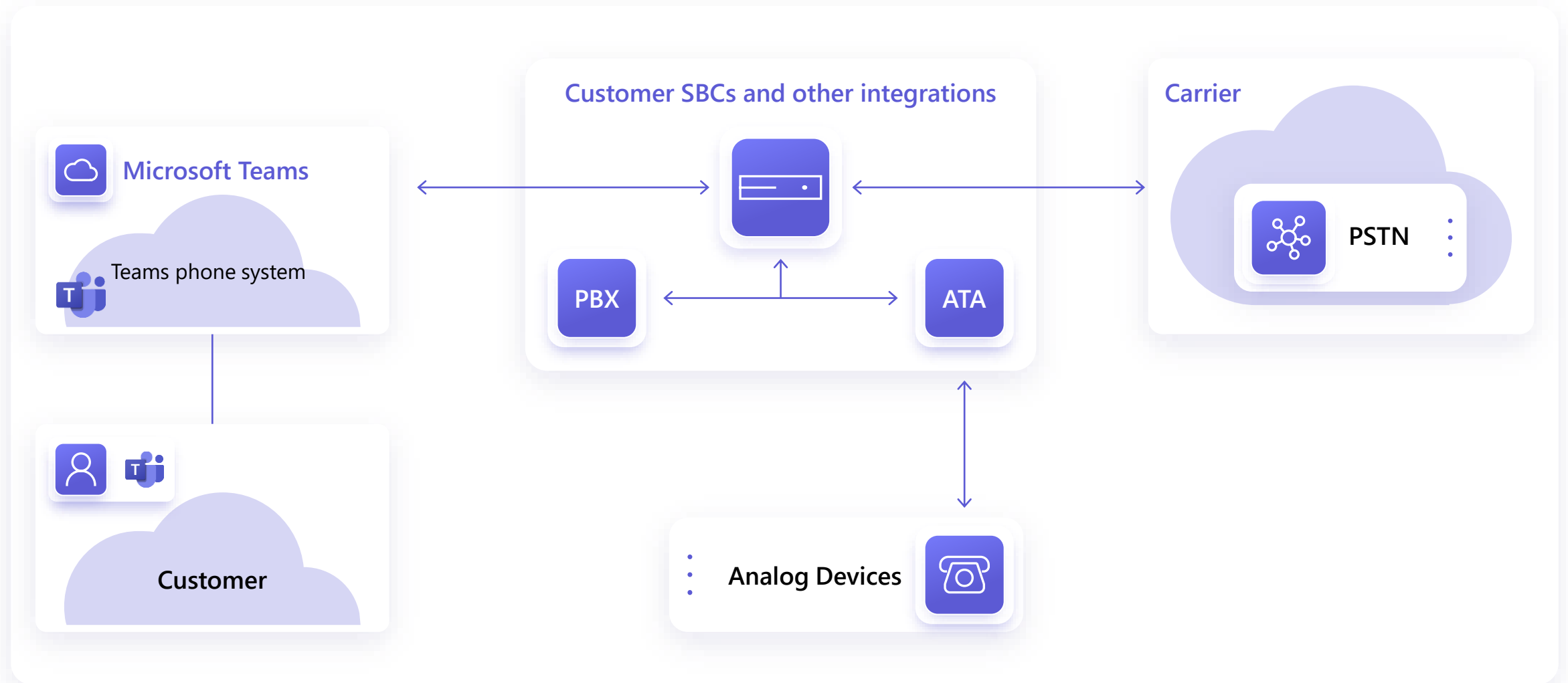- Yealink DECT

SIP Gateway Architecture
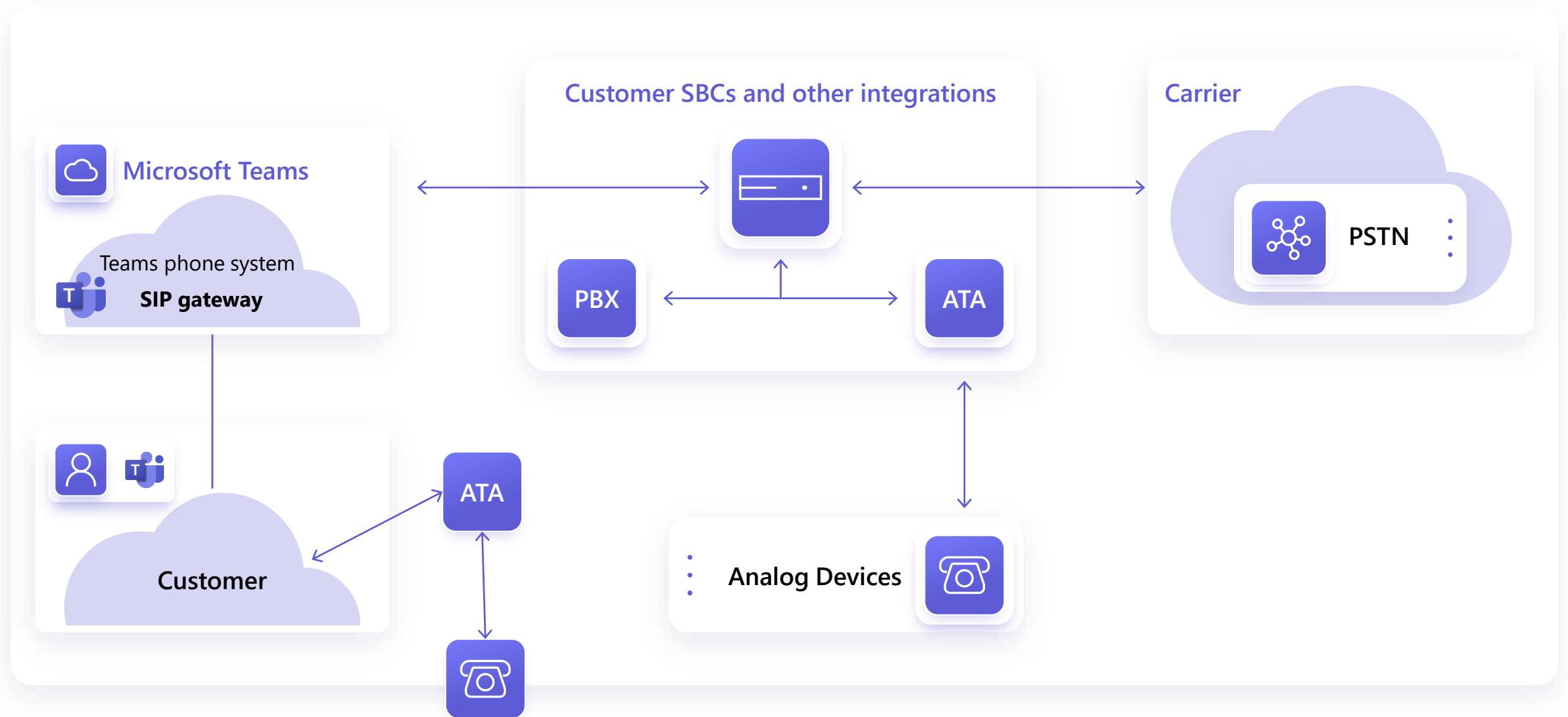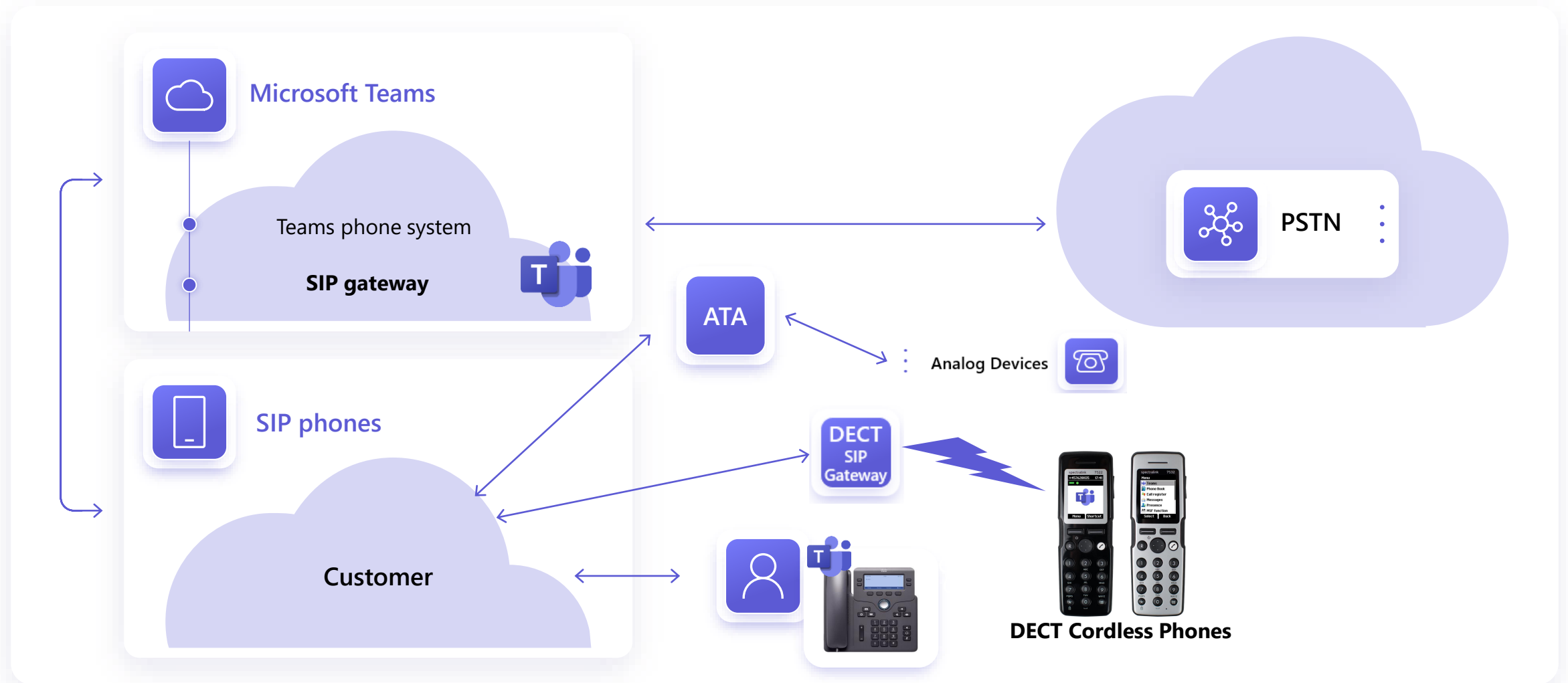
Connecting Analog devices to Teams phone system

Microsoft Teams

Teams phone system

Customer

Customer SBCs and other integrations

PBX

ATA

Carrier

PSTN

Analog Devices

Connecting Analog devices to Teams phone system

SIP Gateway Architecture - Devices – Analog/DECT/Other

Microsoft Teams

Teams phone system

SIP gateway

SIP phones

Customer

PSTN

ATA

Analog Devices

DECT SIP Gateway

DECT Cordless Phones

Common Area Phone Enhancements

More capabilities available

Security, endpoint management, cloud-based voicemail features

Service Plans added to the Common Area Phone license:

- Azure Active Directory Premium Plan 1
- Microsoft Endpoint Manager
- Exchange Online Plan 2

Expanded calling functionality

Calling features added to the Common Area Phone license:

- Call Park and retrieve
- Cloud-based voicemail through Exchange Online Plan 2
- Call Queues
- Auto Attendants
- Group call pick-up
- Forwarding rules
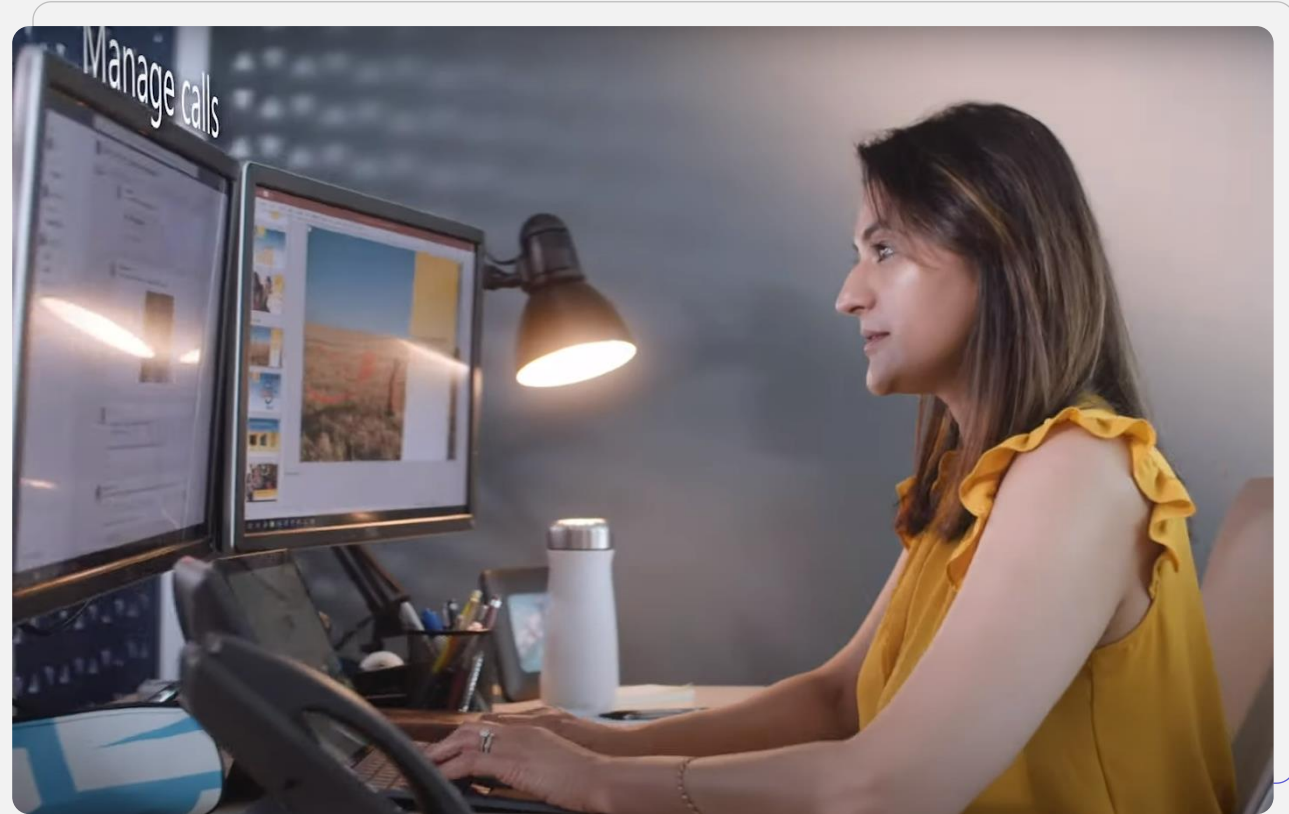
Thank You!

Microsoft Teams

Teams Phone Resource Links

- Teams Academy - IT Admin Training (Teams Voice, Live Events, Call Quality, MTR) - https://aka.ms/TeamsAcademy
- Teams Phone Deployment Playbook.pptx (live.com)
- Plan SIP Gateway - Microsoft Teams | Microsoft Learn
- Microsoft Teams Phone | Microsoft Teams
- What is Phone System - Microsoft Teams | Microsoft Learn
- Plan SIP Gateway - Microsoft Teams | Microsoft Learn
- What are my Microsoft Teams DECT Options? - Microsoft Community Hub
- Learn how Microsoft enabled company-wide emergency calling in the U.S. with Microsoft Teams Phone - Microsoft Community Hub
- Plan and manage emergency calling - Microsoft Teams | Microsoft Learn
- Announcing Operator Connect Mobile, delivering mobile-first experiences for Microsoft Teams Phone - Microsoft Community Hub
- Competitive Voice Services Reliability Benchmark - Gigaom
- Answering 6 Common Microsoft Teams Phone Questions - Microsoft Community Hub
- Microsoft Teams Phone earns highest scores for UCaaS provider uptime and quality in third-party test - Microsoft Community Hub
- Extend the Value of Microsoft Teams Phone with Partner Integrations - Microsoft Community HubBoost productivity with Microsoft Teams chat in Dynamics 365 - Microsoft Community Hub
- Microsoft Customer Story-Goodbye desk phone, hello Unified Communications: SAP turns to Microsoft Teams for mobile working worldwide
- Microsoft Digital Contact Center Platform | Microsoft
- Ensuring reliable and trusted experiences for communication and collaboration in the hybrid work era - Microsoft Community Hub