



Verbinde neue Welten mit Microsoft Telefonie



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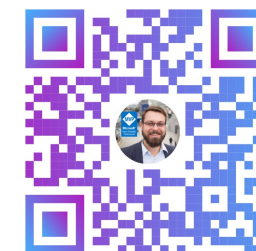
Microsoft®
Most Valuable
Professional



TALK
Microsoft 365

 Microsoft Teams

User Group Germany



<https://bio.link/plemich>



Microsoft Telefonie – was müssen wir berücksichtigen?



Anwender

Headsets
IP Phones
DECT (Juli 2022)



Konferenzräume

Teams Room License
Teams Room Device
Collab Bar



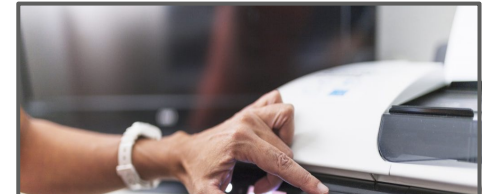
Öffentlicher Bereich

~~Common Area Phone~~
Shared Device
License
IP Phones
DECT (Juli 2022)



Rezeption / Hotline

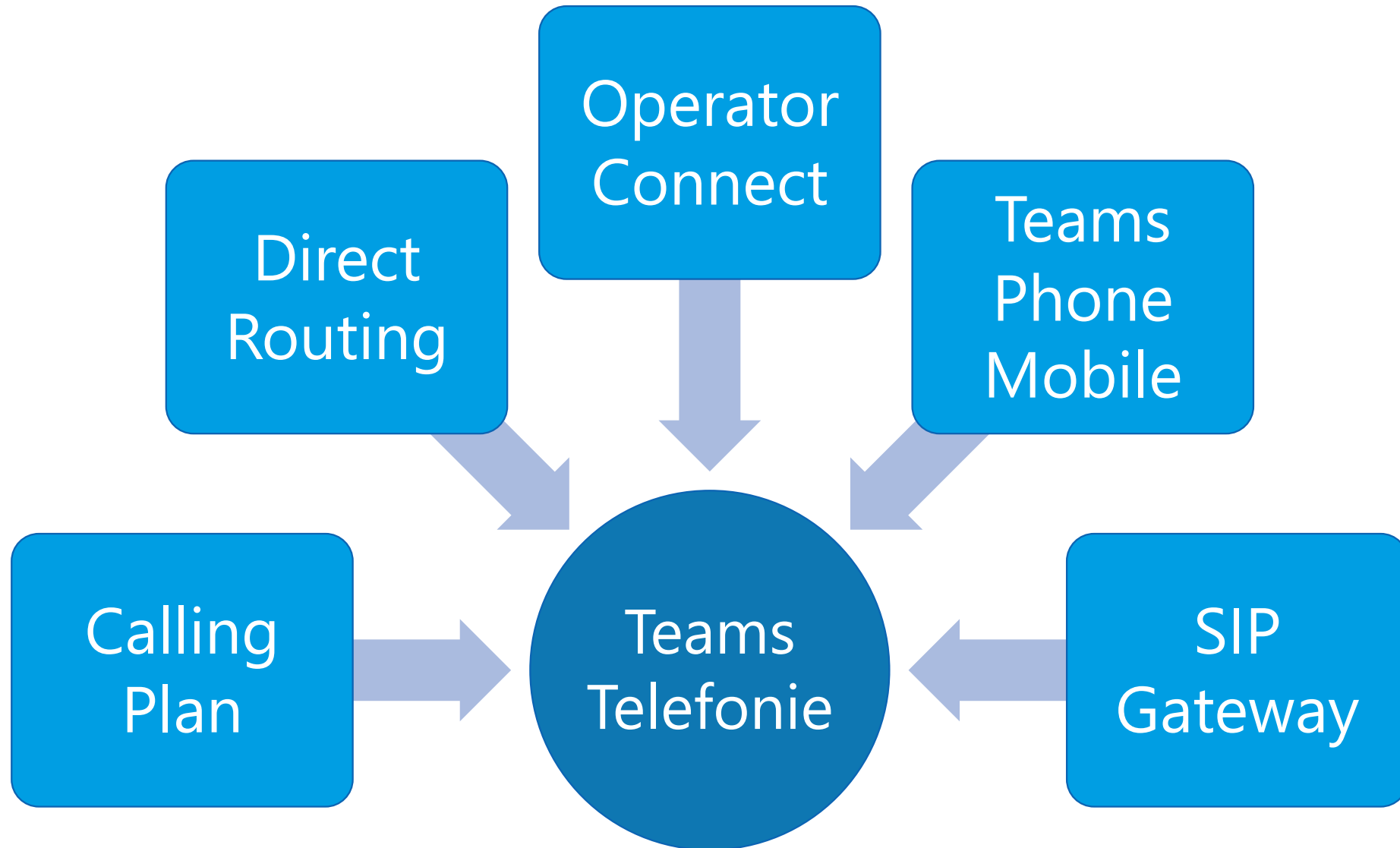
Headsets
IP Phones
Auto Attendant
Call Queue
Switch Boards



Analoge Geräte

Fax
Modem
Intercom system
Türsprechstelle
Alarmanlage

Übersicht Microsoft Telefonie



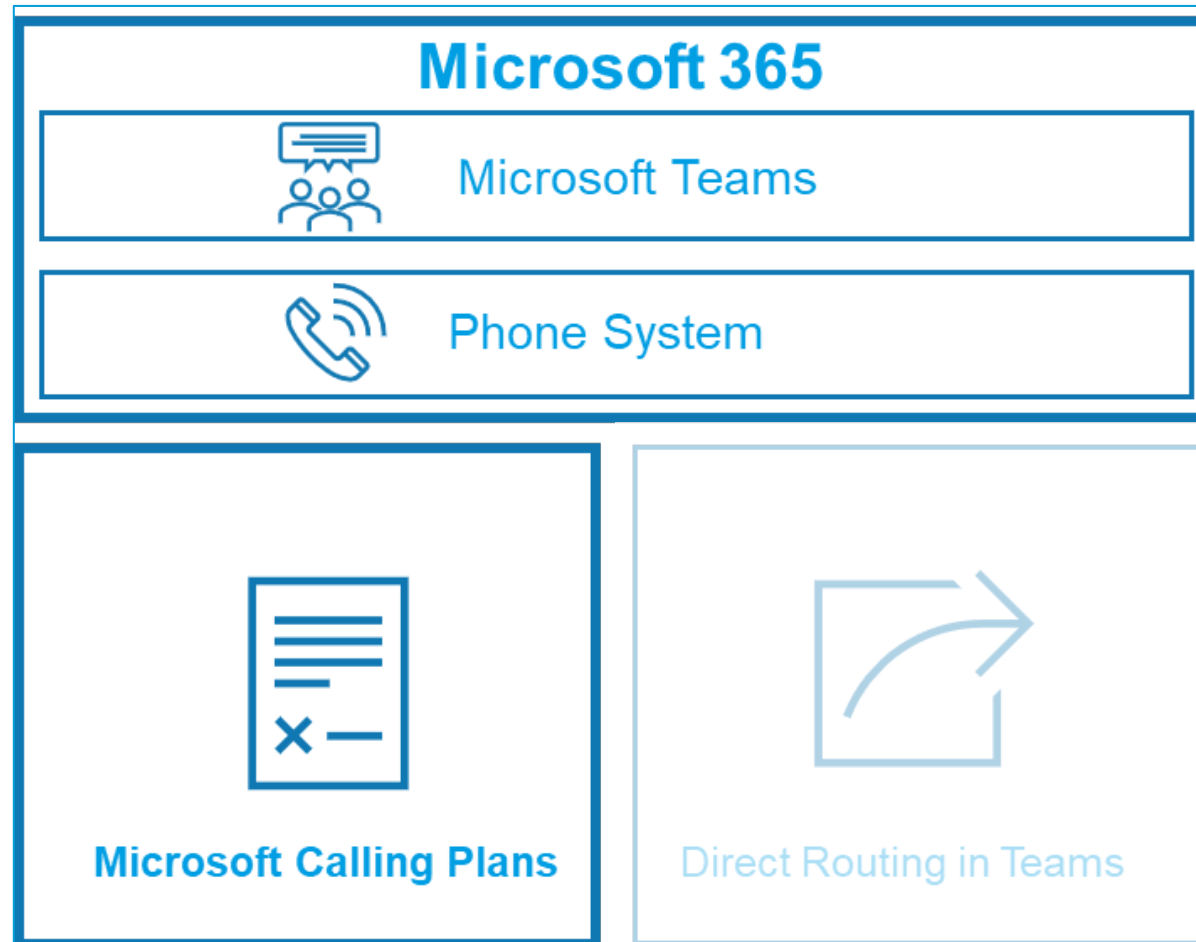
Microsoft Teams Phone System – Calling Plan



E1/E3 Lizenz
+ Phone System
+ Calling Plan

oder

E5 Lizenz
+ Calling Plan



Microsoft Calling Plan Verfügbarkeit



 Calling Plan Markets - Current



Calling Plan Markets

As of December 2022

Australia (via Telstra)	Luxembourg
Austria	Mexico
Belgium	Netherlands
Canada	New Zealand
Croatia	Norway
Czech Republic	Poland
Denmark	Portugal
Estonia	Puerto Rico
Finland	Romania
France	Singapore
Germany	Slovakia
Hungary	Slovenia
Ireland	South Africa
Italy	Spain
Japan (via Softbank)	Sweden
Latvia	Switzerland
Lithuania	United Kingdom
	United States

[Cloud voice availability spreadsheet](#)

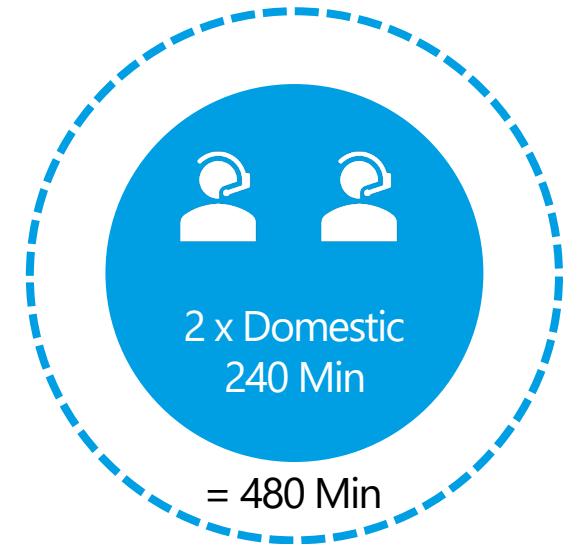
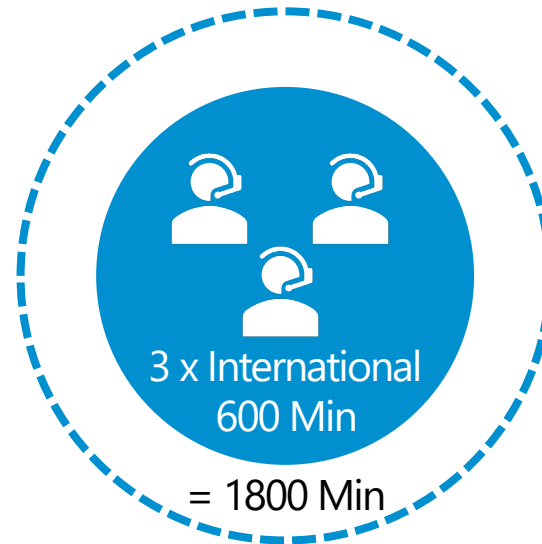
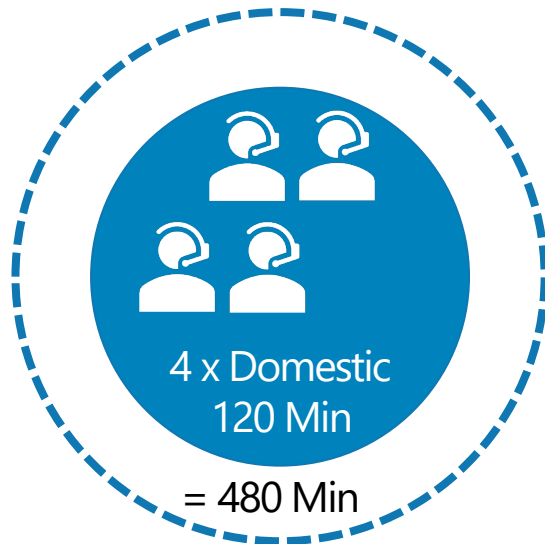
Pooled Calling Minutes – ein Beispiel



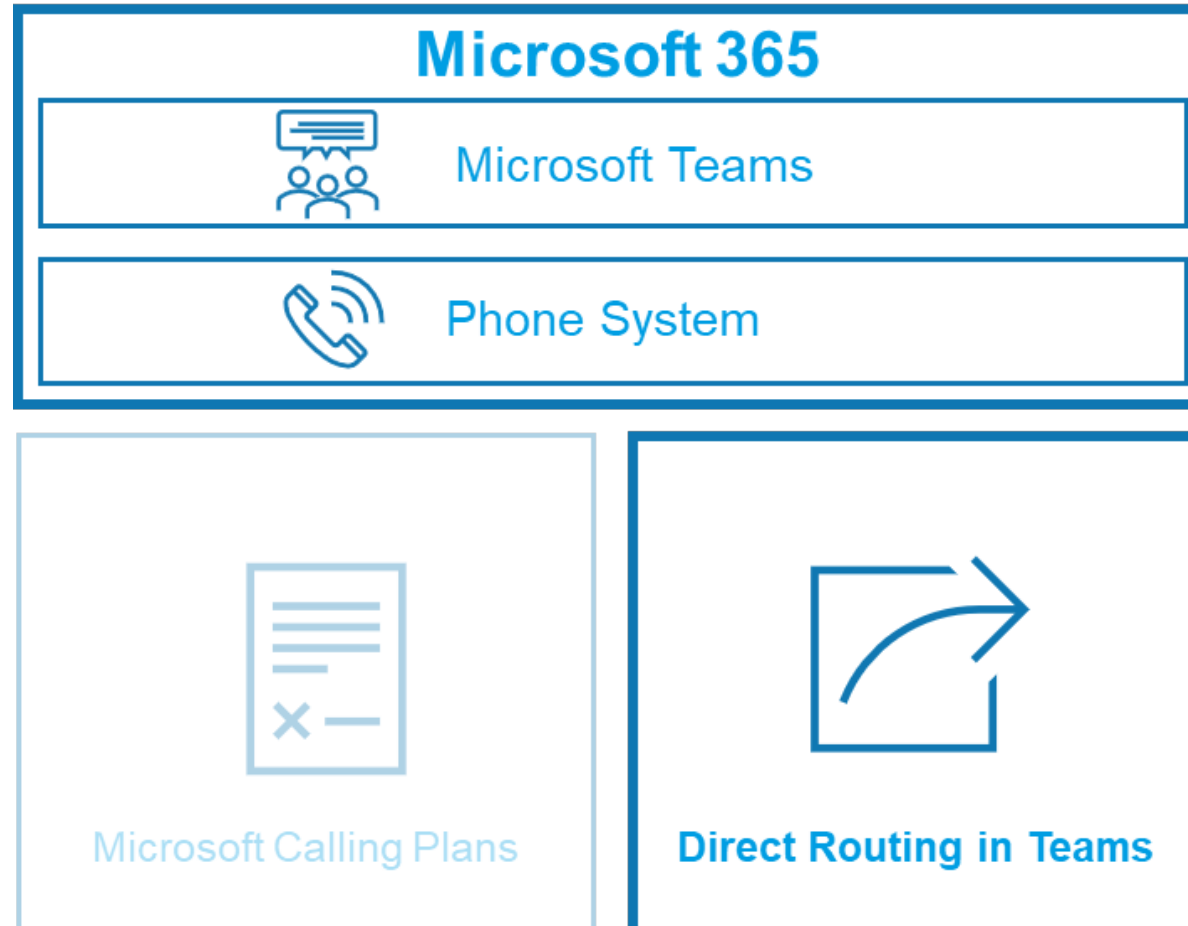
Benutzer mit dem gleichen Lizenzplan werden von Microsoft gepoolt

Benutzer mit niedrigem Anrufvolumen gleichen Benutzer mit hohem aus

Kein vermischen zwischen den Lizenzpools



Microsoft Teams Phone System – Direct Routing



**E1/E3 Lizenz
+ Phone System**

**+ Session Border
Controller**

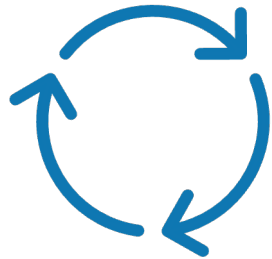
oder

**E5 Lizenz
+ Session Border
Controller**

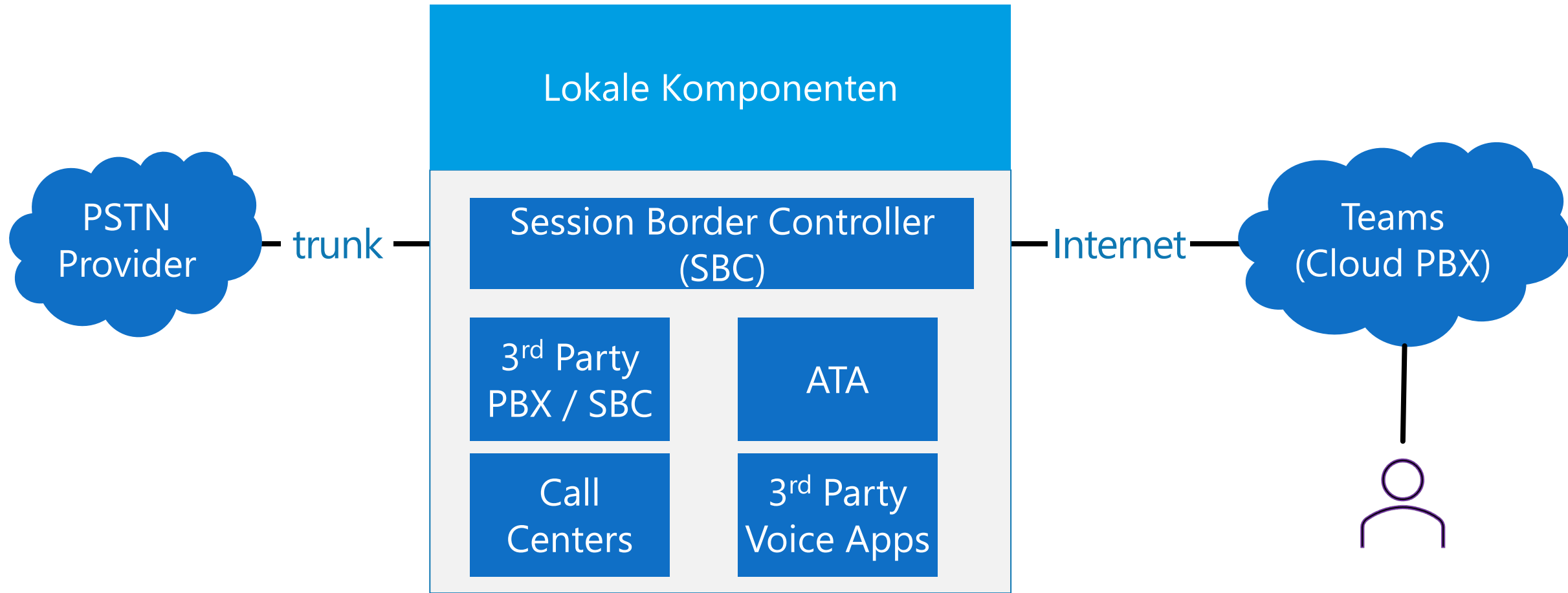
SBC - Anywhere



- SBC "übersetzt" Provider SIP zu Microsoft Teams SIP & vice versa
- "Firewall" für SIP Kommunikation
- Physikalisch oder virtuell
 - Public cloud provider wie Amazon AWS und Microsoft Azure sind supported



Microsoft Teams Telefonie – Direct Routing





Kann ein natives SIP Gerät sein oder ATA



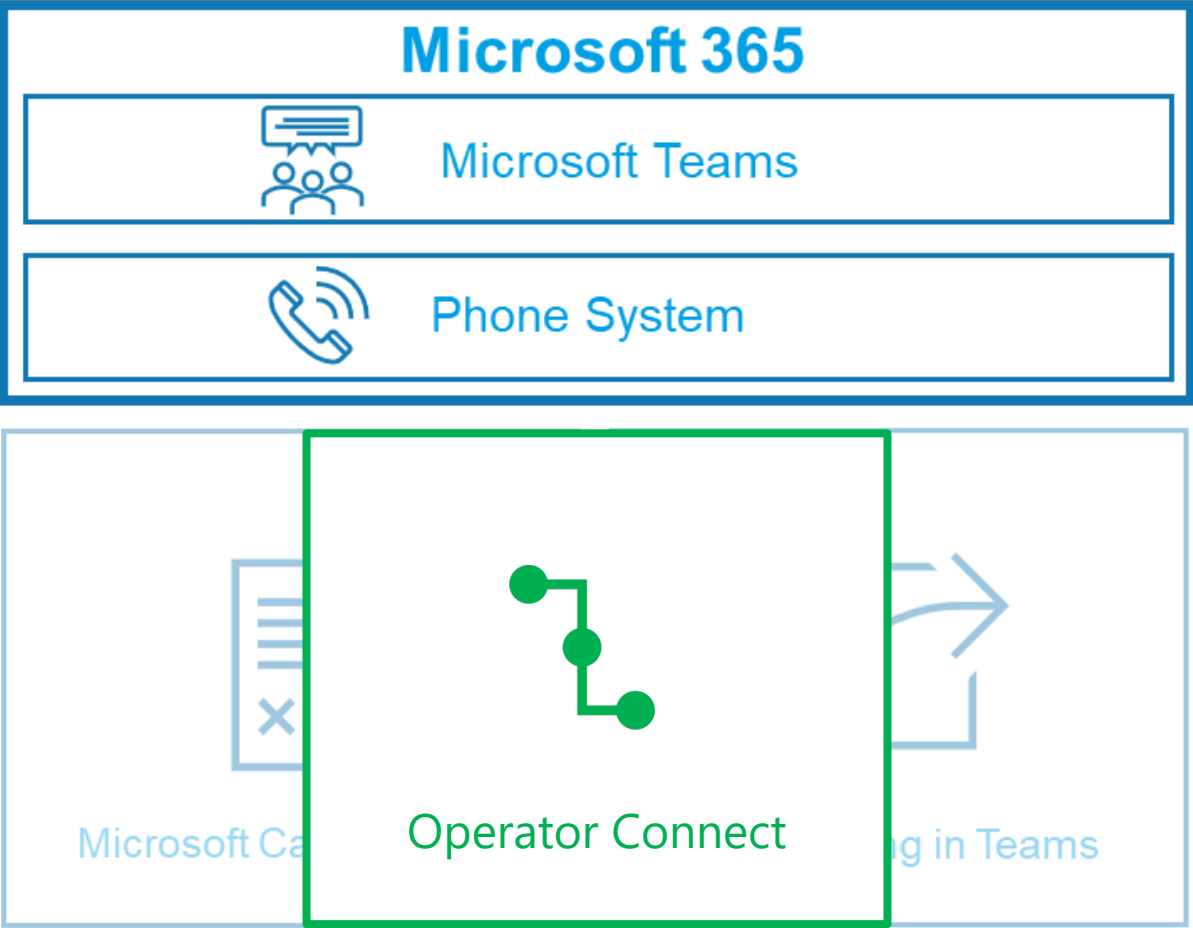
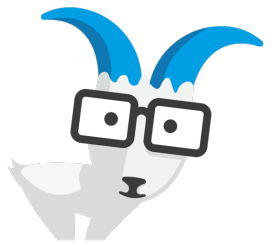
Anrufsteuerung erfolgt am SBC

- Wohin darf die DID telefonieren?



Konfiguration aufwendig

Microsoft Teams Phone System – Operator Connect



**E1/E3 Lizenz
+ Phone System
+ Zertifizierter PSTN
Provider**

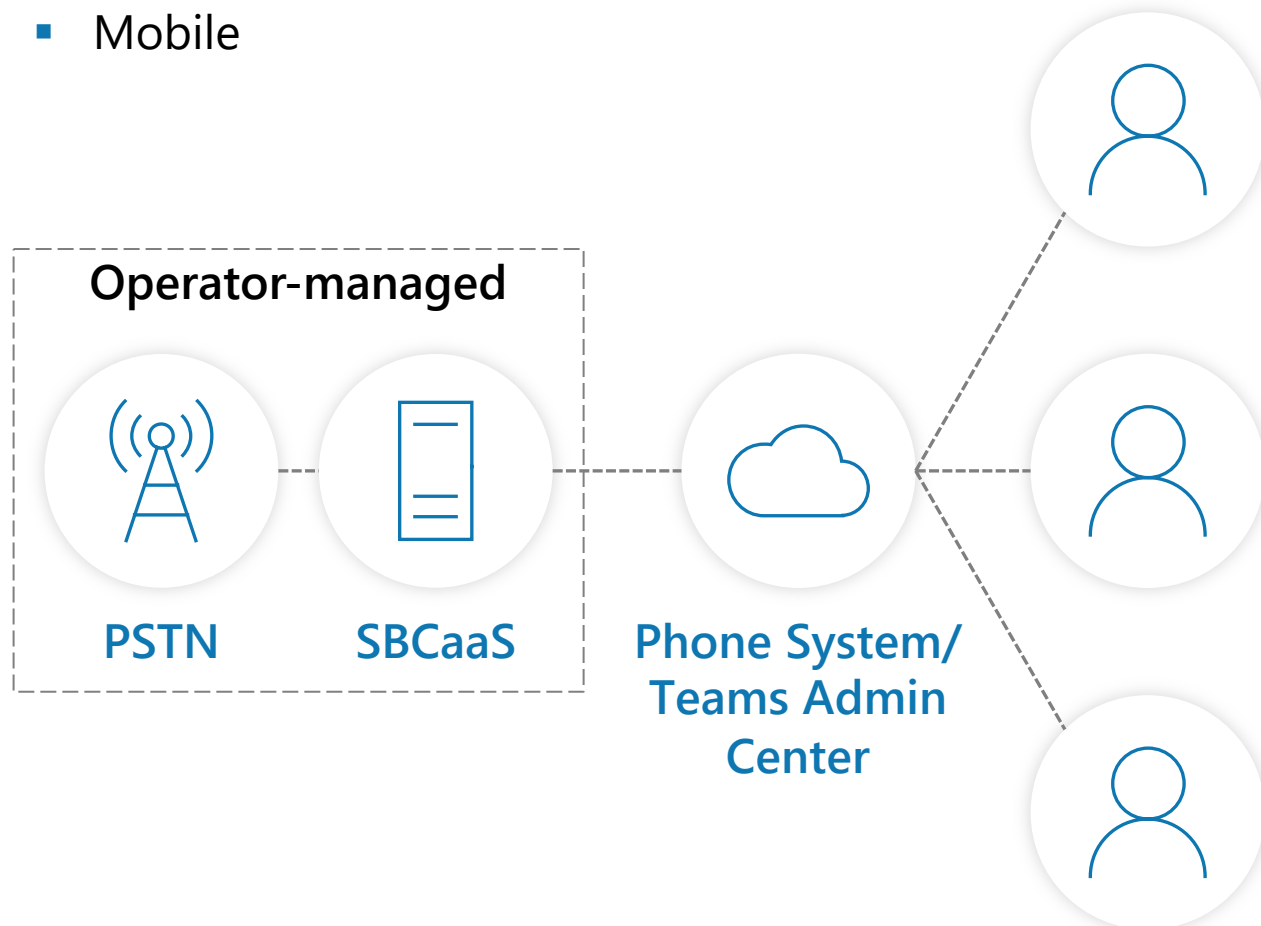
oder

**E5 Lizenz
+ Zertifizierter PSTN
Provider**

Microsoft Teams Phone Mobile

Operators Connect “brand”

- Dialing
- Conferencing
- Mobile



Microsoft Teams Phone Mobile



- 1 **Make and receive calls** from your smartphone's native dialer or Teams endpoints using your single business-provided mobile number.
- 2 **Move between devices and Teams endpoints during a call** without dropping the call.
- 3 **Transfer calls to** colleagues on Teams from the phone's native dialer
- 4 **Combined call history** across Teams and native mobile dialer.
- 5 **Presence integration** enabling status updates to "In a call" when on a call on the native dialer.
- 6 **Unified voicemail & business unanswered settings** on all Teams endpoints and email with business enforced archival periods.
- 7 **Enterprise grade calling policies and compliance** implemented on employee's mobile calls on Teams and native dialer.
- 8 **Show mobile number or company's main number** as outbound caller ID when making outbound calls from the native dialer or any Teams endpoint.
- 9 **Add mobile number** to company call queues and PBX.
- 10 **Reliable calling** via cellular voice network or internet connection.



Microsoft Teams Phone Mobile - Provider



Verizon Mobile for Microsoft Teams

Available products

- ✓ Teams Phone Mobile calling

Served regions
United States



Telekom Deutschland

Available products

- ✓ Teams Phone calling
- ✓ Teams Phone Mobile calling
- ✓ Audio Conferencing dial-in numbers

Served regions
Germany



Telia

Available products

- ✓ Teams Phone calling
- ✓ Teams Phone Mobile calling

Served regions
Sweden



Rogers for Business

Available products

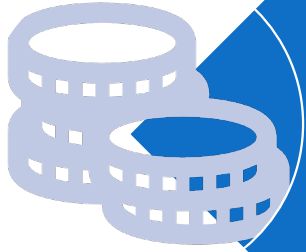
- ✓ Teams Phone calling
- ✓ Teams Phone Mobile calling

Served regions
Canada

SIP Gateway

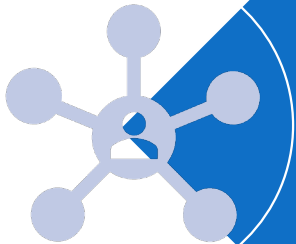


Herausforderungen mit Teams Phone System (bisher)

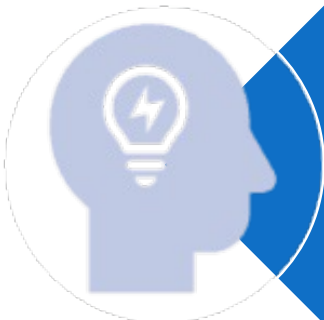


Investitionsschutz

- SIP basierte Tischtelefone bereits im Einsatz
- 3PIP Telefone seit Skype for Business im Einsatz



Nutzung von SIP/ATA Geräten nur über Direct Routing



3 PIP Telefone lassen sich mit Microsoft Teams nutzen

Funktionen des SIP Gateway



Anmeldung von nativen SIP Endgeräten an Microsoft Teams

Verwaltung und Monitoring des Endgerätes über TAC

Anmeldung erfolgt mit einem Benutzer

Zuweisung von Policies (Dial Plan, Call Restrictions, Voicemail)

Anwender können

- Anrufe tätigen
- Anrufe halten und fortsetzen
- Einfache Voicemail
- Anrufweiterleitungen einrichten

Funktionen des SIP Gateway



Lizensierung erfolgt über normale Teams Lizenzen
(Teams Phone System oder Common Area Phone)

- Direct Routing: keine weitere Lizenz
- Calling Pläne: Calling Minutes

Nur bestimmte Telefone unterstützt (3PIP und Cisco)

Telefone müssen native SIP Firmware installiert haben

Anmeldung am Telefon erfolgt mit der Office 365 Identität

Microsoft Teams Phone System – SIP Gateway



Quick Demo



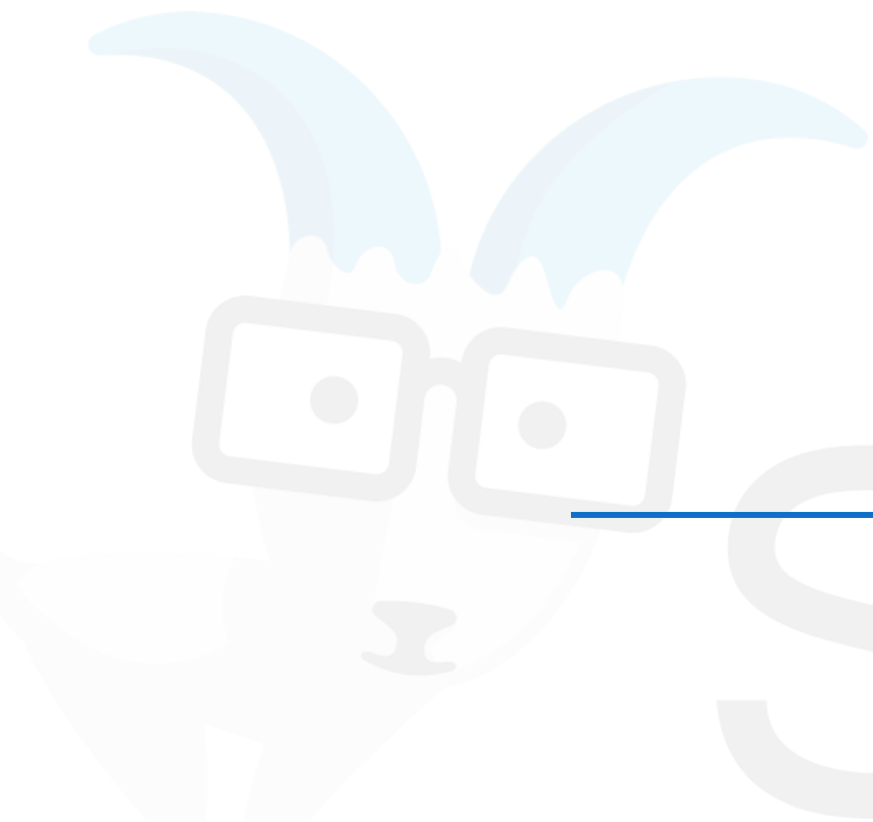
Referenz Links



- [Microsoft 365 & Security for Partners - Operator Directory](#)
- [Country/region availability - Audio Conferencing, Calling Plans - Microsoft Teams | Microsoft Learn](#)
- [Plan SIP Gateway - Microsoft Teams | Microsoft Learn](#)
- [Configure SIP Gateway - Microsoft Teams | Microsoft Learn](#)
- [How to Configure the Microsoft SIP Gateway with AudioCodes Analog Telephone Adapters](#)
- [How to connect Spectralink IP DECT system with Microsoft Teams | Office 365 Blog \(thorpick.de\)](#)
- [How to connect the Poly Rove IP DECT system to the Microsoft Teams SIP gateway | Office 365 Blog \(thorpick.de\)](#)



Q&A



M365
Summit