

CENTILE ISTRA MS TEAMS INTEGRATION

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MS Teams market numbers

MS Teams licensing overview

ISTRA MS Teams integration scenarios

MS Teams connectors overview & integration use cases

Integration architecture

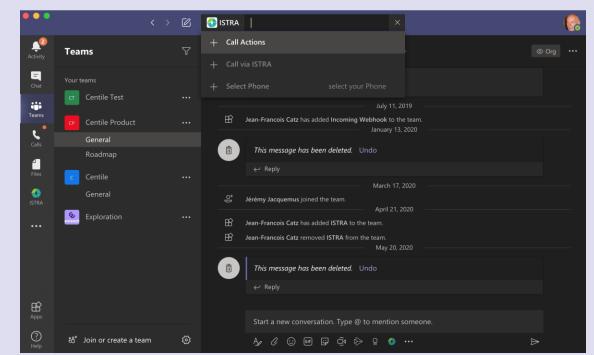
Live demo

Direct Routing deep dive

Q&A

Purpose

Allow Centile customers to make and receive calls using their Microsoft Teams client, where calls are handled by the ISTRA platform



Numbers

258M

Microsoft365 Users (including Teams)

200 +**App integrations** European Leading Collaboration Platform, fastest growth since 2017

40%

Organizations should use Teams by end of 2020, out of 30% today

> Celebrating 2 years of continued growth

Microsoft Teams Sees Jump in Usage as Remote Work Surges

Number of daily active users of Microsoft's workplace communication app Teams



150 organizations have 10,000 or

more active users



MS 365 | PRICING OVERVIEW

MS has 2 license structures for their Office suite: Business and Enterprise (E):



Office 365 E1

\$8.00 user/month

haring, Office Online, meetings and IM, an tore. Office applications not included.

Office applications include

Office 365 E3

\$20.00 user/mon

Try for free

Learn more

Office 365 E5

\$35.00 user/month (annual commitment)

Try for free

Contact sales

All the features of Office 365 F3 eb

ecurity, analytics, and voi

€4.20 user/month (annual commitment)	€10.50 user/month (annual commitment)	€16.90 user/month (annual commitment)
Price does not include VAT.	Price does not include VAT.	Price does not include VAT.
Microsoft 365 Business Basic (formerly Office 365 Business Essentials)	Microsoft 365 Business Standard (formerly Office 365 Business Premium)	Microsoft 365 Business Premium (formerly Microsoft 365 Business)
Office apps included	Office apps included	Office apps included
Cution Word Excel Powerfoint Cution Access (PC (PC Sub) Access (PC	Image: Cuttook Image: Word Excel PowerPoint Cuttook Word Excel PowerPoint Publisher (PC-ony) Access (PC- ony) Image: Comparison of the powerPoint	(Web and mobile versions only) *
Services included	Services included	Services included
OneDrive	Exchange OneDrive SharePoint Teams	Exchange OneDrive SharePoint Teams

MS 365 | ADDING BUSINESS TELEPHONY

MS offers multiple ways to add business telephony capabilities depending on license-model:

Microsoftlicenses Business - Business Voice: Enterprise Local office apps, email, PBX and unlimited minutes for: **Option 1:** Include MS Calling Plan Launched in NA & UK € 43,20 / month November 2019, other countries (undiscounted) without MS Calling plan... BUSINESS © 8,80 / user / month **E1** € 6,70 / user / month PHONESYSTEM **UNLINT VOICE UNL NAT VOICE** + 6.70€ / user / month 16.80€ / user / month 26.90€ / user / mont **BUSINESS VOICE BUSINES ESSENTIALS c 4.20 / user / month** E3 € 19.70 / user / month (1.200 min) C 14,00 / user / mont **UNL NAT VOICE UNLINT VOICE BUSINESS PREMIUM c 10.50 / user / month** E5 c 34,40 / user / month 10.10€ / user / month 20.20€ / user / month Local office apps, email, PBX with or without 1.200 minutes Local office apps, email, for: PBX without minutes: € 24,50 / month Multi-tenant SBC licenses **Option 2**: Bring your own carrier € 26,40 / month **Cloud PBX licenses** Minutes **E1** C 6.70 / user / month **PHONESYSTEM** -6.70€ / user / month **BRING YOUR OWN** E3 € 19.70 / user / month CARRIER **ISTRAPlatform** E5 C 34.40 / user / month

MS TEAMS 2 setup scenarios

COMPETITIVE CALLING Light integration

- Uses your existing Telecom infrastructure
- Click to call (prompt your ISTRA terminals) from MS Teams
- No specific routing configuration required
- No additional MS license costs (no need for Phone System license)
- No MS Tenant configuration required (no powershell)

TEAMS CALLING Native integration

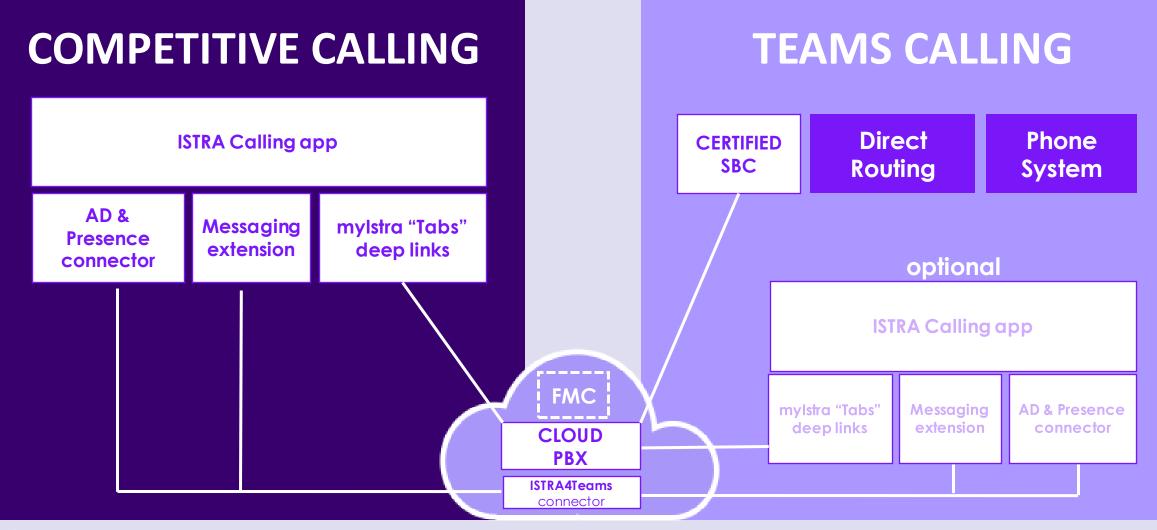
- Requires Phone System license
- Requires Direct Routing configuration via certified SBC
- MS Teams client is managed as an additional ISTRA Terminal
- Call short numbers or PSTN from Teams client
- Answer regular calls from your Teams client

MS TEAMS | 2 calling scenarios

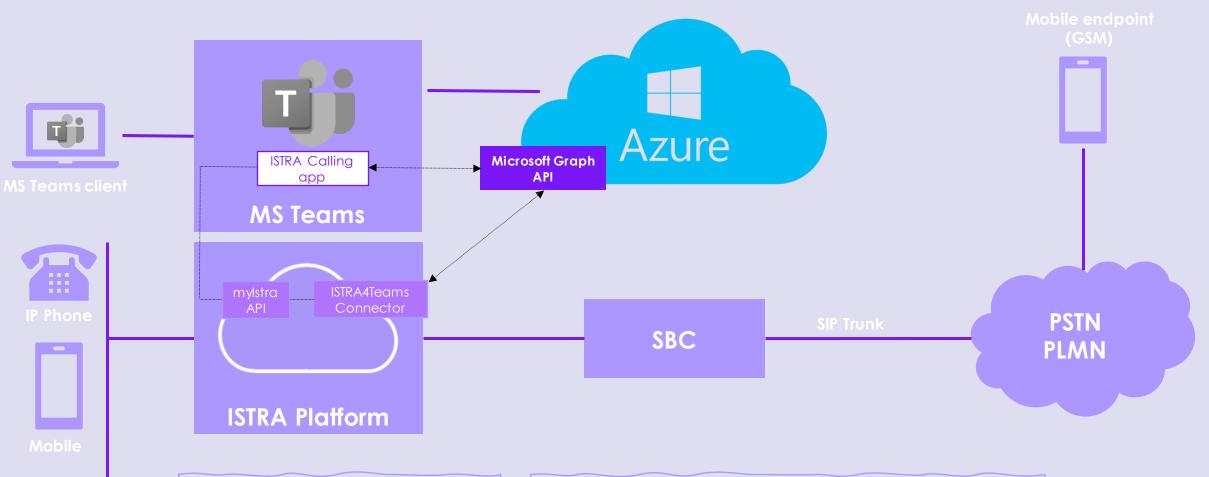




MS TEAMS | scenarios details



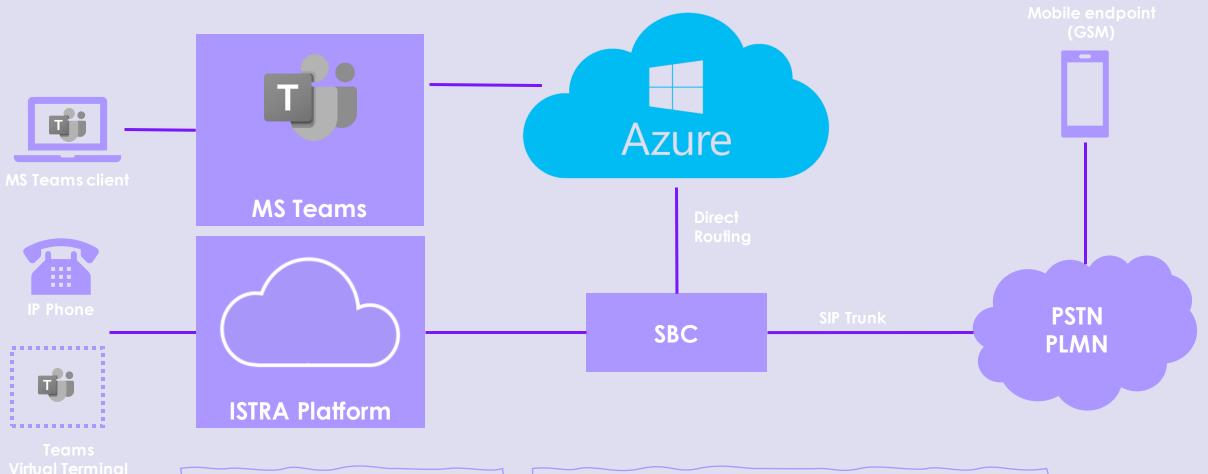
COMPETITIVE CALLING ARCHITECTURE



User can initiate a call from Teams client, but Teams client is not seen as an additional phone

Click2call from Teams client can prompt any IP Phone, softphone or mobile attached to user's extension

TEAMS CALLING ARCHITECTURE



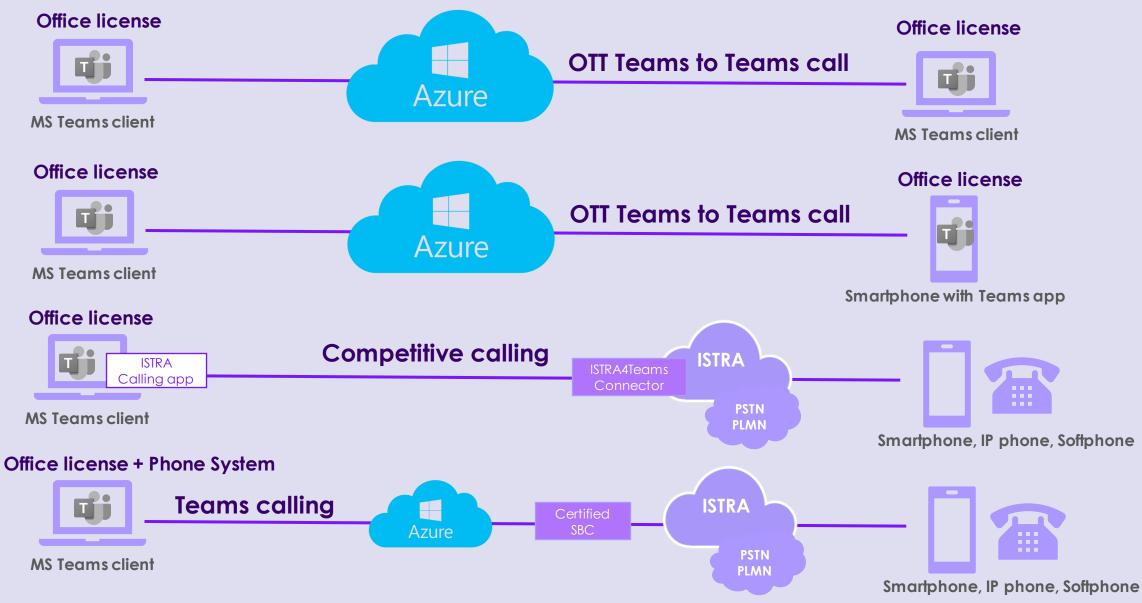
Teams client becomes an additional phone

Both Teams client, IP Phone and mobile will be reachable using the same DiD / extension

USE CASES

Number presentation	ISTRA determines what number will be presented on outgoing native mobile calls or calling from a Teams client (fixed number, mobile, no number,)
(Simultaneous)ringing	ISTRA determines what endpoints to ring when a user is being called on his fixed or mobile number (native mobile dialer, teams client, sip phone,)
FMC Short dialing	End user can dial Teams colleagues using short numbers on mobile phone native dialer
Hunt groups	Mobile phone and Teams clients can be part of hunt groups, call center, forward groups etc
Presence	When end user is in a mobile call, MS Teams is aware and can correctly display presence status to other colleagues in MS Teams client (once available from MS Presence Graph API)
Presence based routing	ISTRA is aware of Teams user presence and activity and can decide to route a call directly to VM if user is in a meeting or sharing his screen or in a Teams call
Recording	Calls made and received via the mobile phone or Teams client can be recorded by ISTRA
Voice Call Continuity	While in a call, user can send call to Teams or send call to GSM or any other phone

MS TEAMS | USE CASES



MS Teams Connectors

1. Tabs

- A place to show web content that we host and present to a channel
- Web content can be a landing page or a deep link

2. Conversational Bots

 Allow users to interact with web services using text or interactive cards (rich text formatted markdown or html) in a channel

3. Outgoing Webhooks

 Allow users to send a short command @myCommand directly from a channel to our web services and get a response

4. Incoming Webhooks

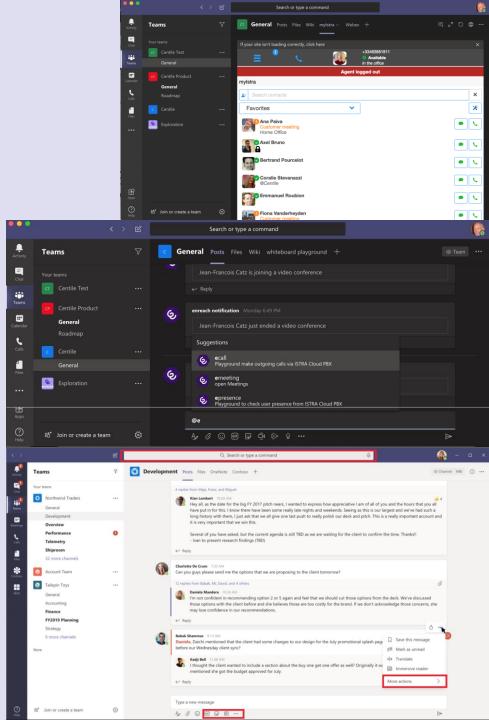
 Allow users to subscribe to receive notifications and messages from our web services

5. Messaging Extensions

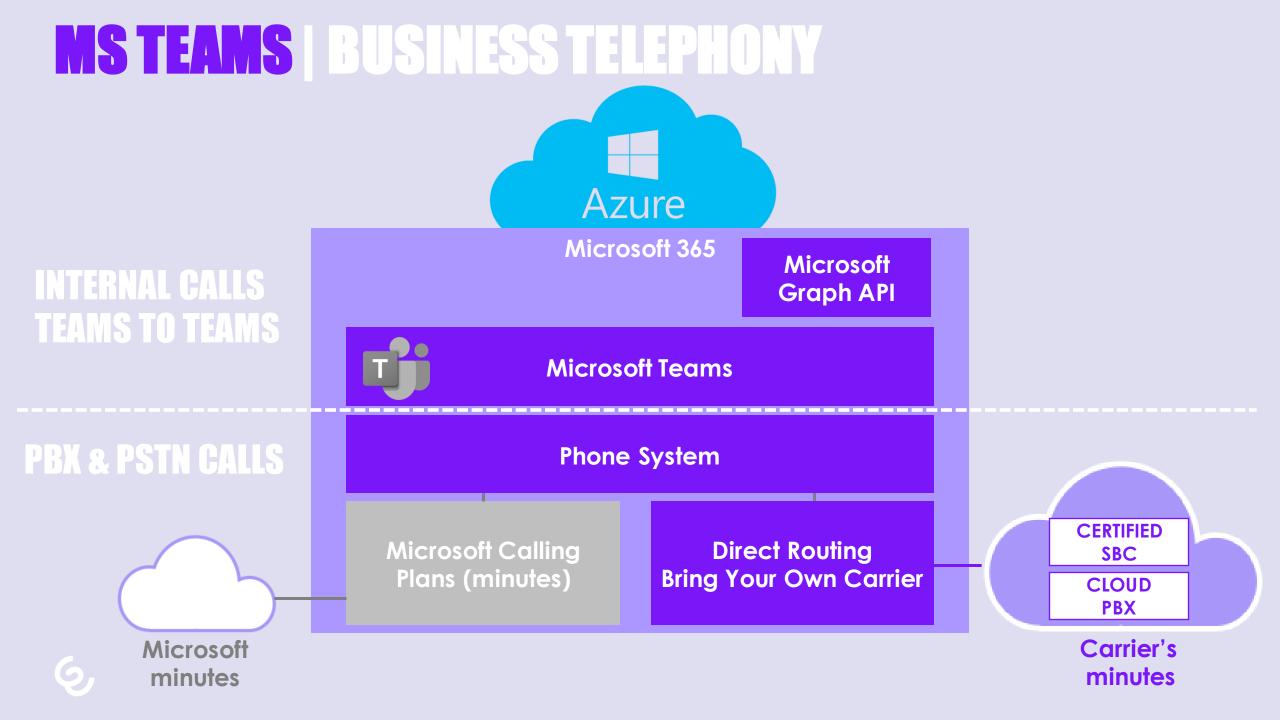
• Allow users to interact with our web services thru buttons and forms (e.g. initiate action, search, ...) directly from the message area

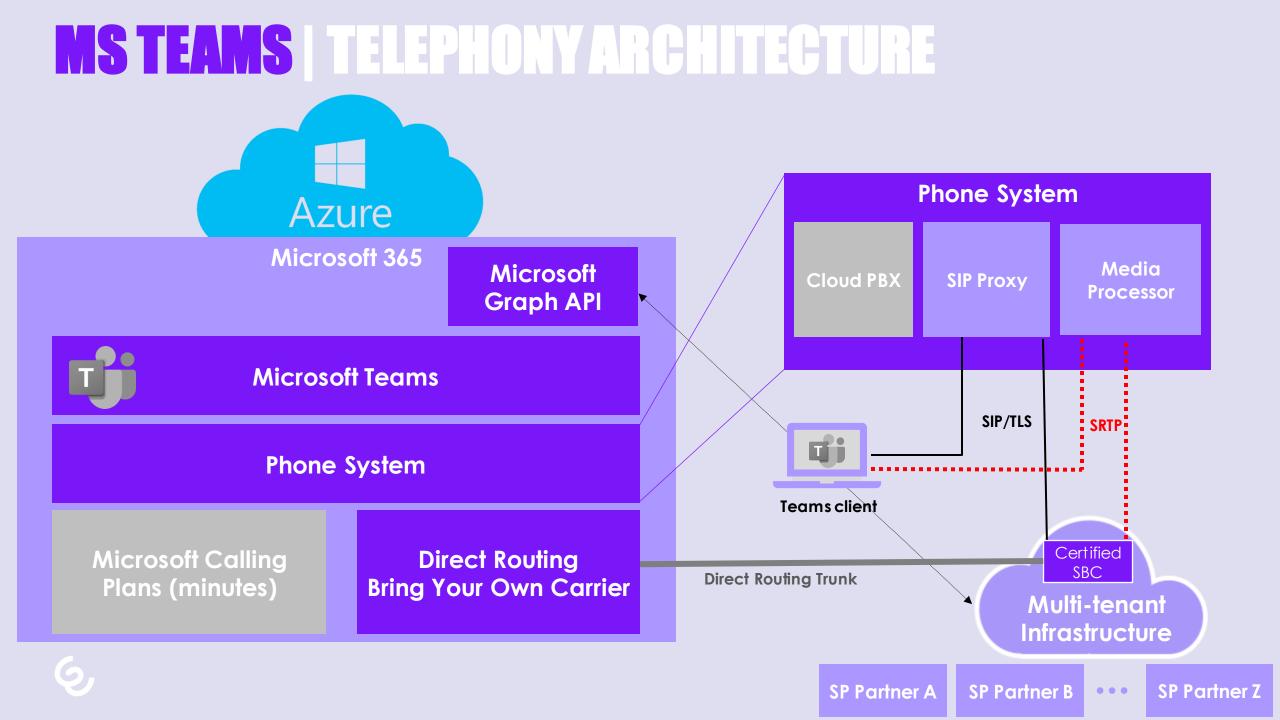
6. Microsoft Graph API

- 1. Access to AD
- 2. Access to Outlook Calendar
- 3. Manage Presence (get Teams presence and publish to our platform)
- 4. Call & Meeting Bots



LIVE DEMO

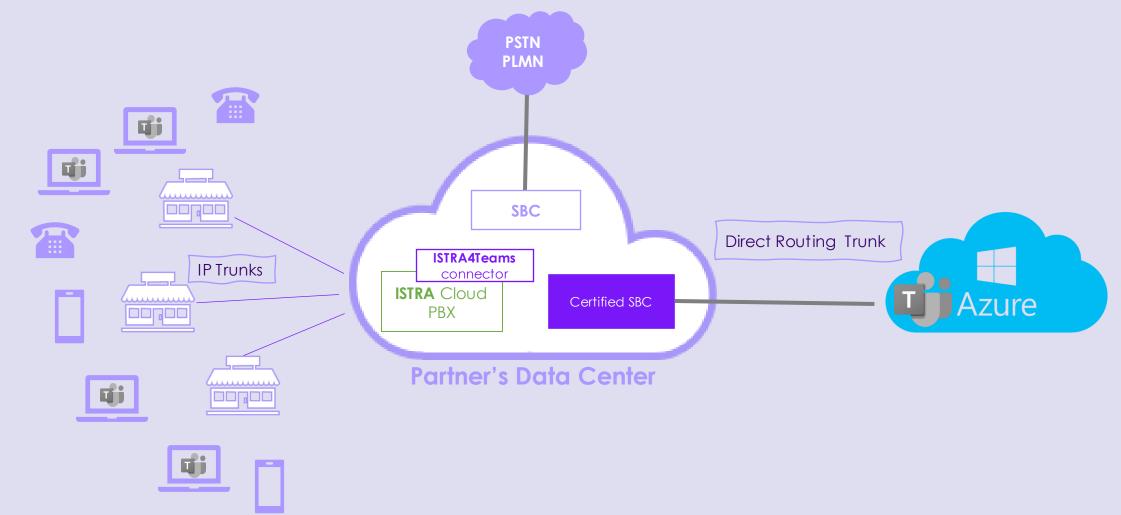




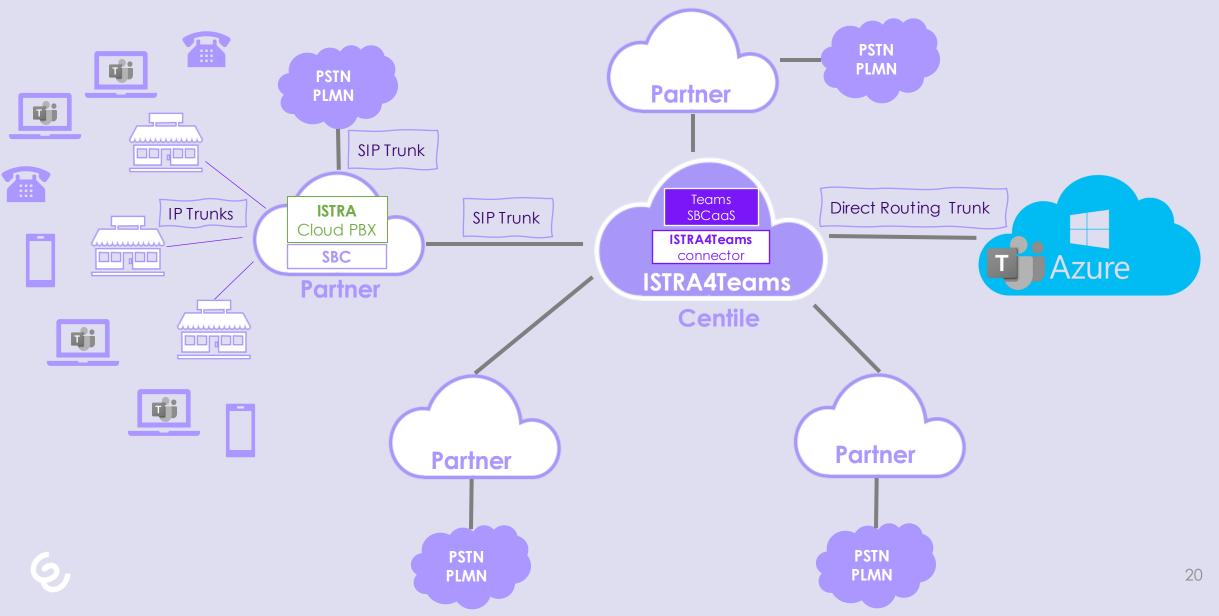
NEW TENANT **DIRECT ROUTING** CONFIGURATION



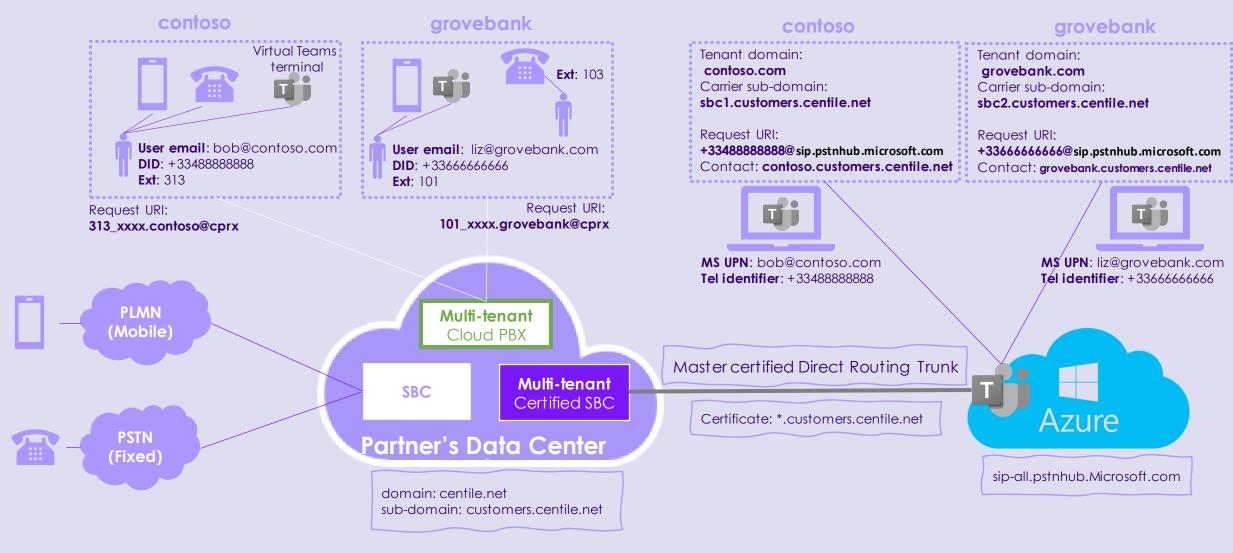
MULTI-TENANT DIRECT ROUTING



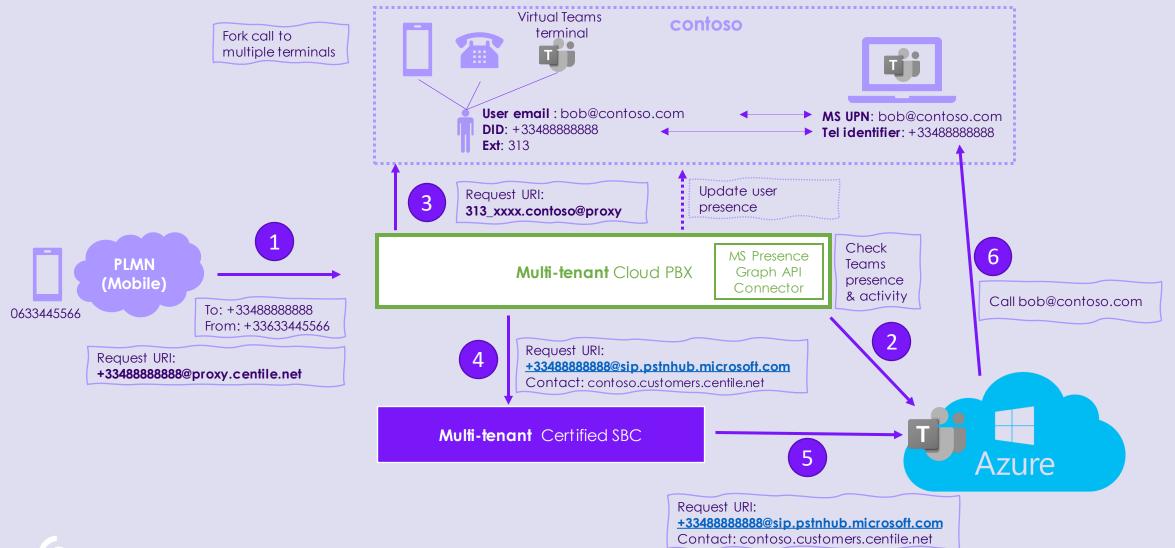
MULTI-TENANT DIRECT ROUTING AS A SERVICE



TEAMS CALLING HOW IT WORKS

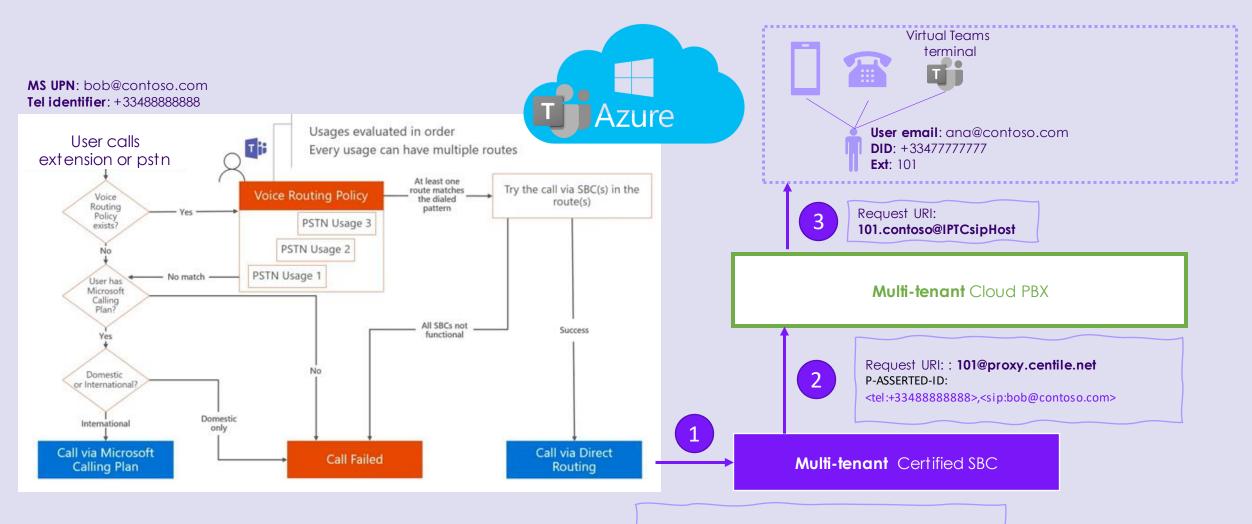


TEAMS CALLING FLOW – INCOMING CALL TO TEAMS



Jeff.Catz@enreach.com

TEAMS CALLING FLOW – OUTGOING CALL FROM TEAMS



Request URI: : <u>101@contoso.customers.centile.net</u> P-ASSERTED-ID: <tel:+33488888888>,<sip:bob@contoso.com>

