

#### 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

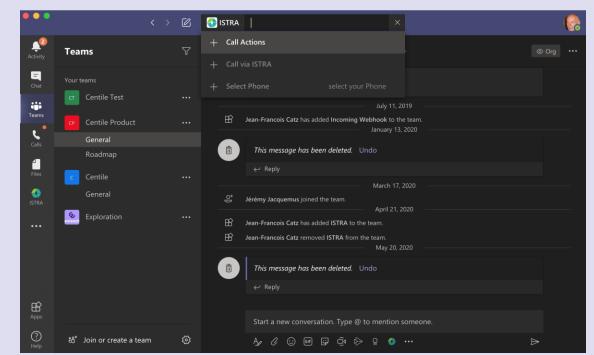
Live demo

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

| <b>€4.20</b><br>user/month<br>(annual commitment)                               | €10.50<br>user/month<br>(annual commitment)   | €16.90<br>user/month<br>(annual commitment)                                  |
|---|---|--|
| Price does not include VAT.   | Price does not include VAT.   | Price does not include VAT.  |
| Microsoft 365<br>Business Basic<br>(formerly Office 365 Business<br>Essentials) | Microsoft 365<br>Business<br>Standard<br>(formerly Office 365 Business<br>Premium)  | Microsoft 365<br>Business<br>Premium<br>(formerly Microsoft 365<br>Business) |
| Office apps included  | Office apps included  | Office apps included   |
| Cution Word Excel Powerfoint<br>Cution Access (PC<br>(PC Sub) Access (PC        | Image: Cuttook Image: Word Excel PowerPoint   Cuttook Word Excel PowerPoint   Publisher<br>(PC-ony) Access (PC-<br>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

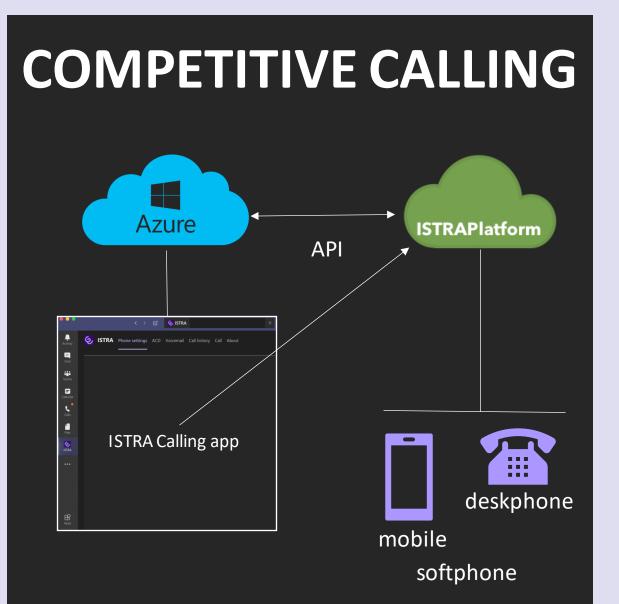
# COMPETITIVE CALLING Light integration

- 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

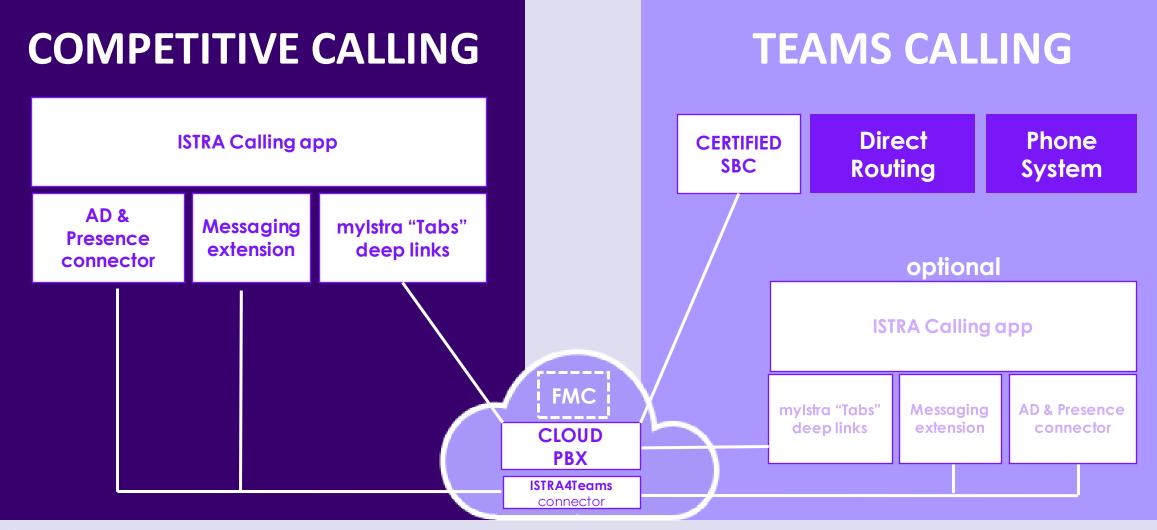
- Requires Phone System license
- Requires Direct Routing configuration via certified SBC
- MS Teams client is managed as an additional ISTRA Terminal
- Call short numbers or PSTN from Teams client
- Answer regular calls from your Teams client

# **MS TEAMS** | 2 calling scenarios

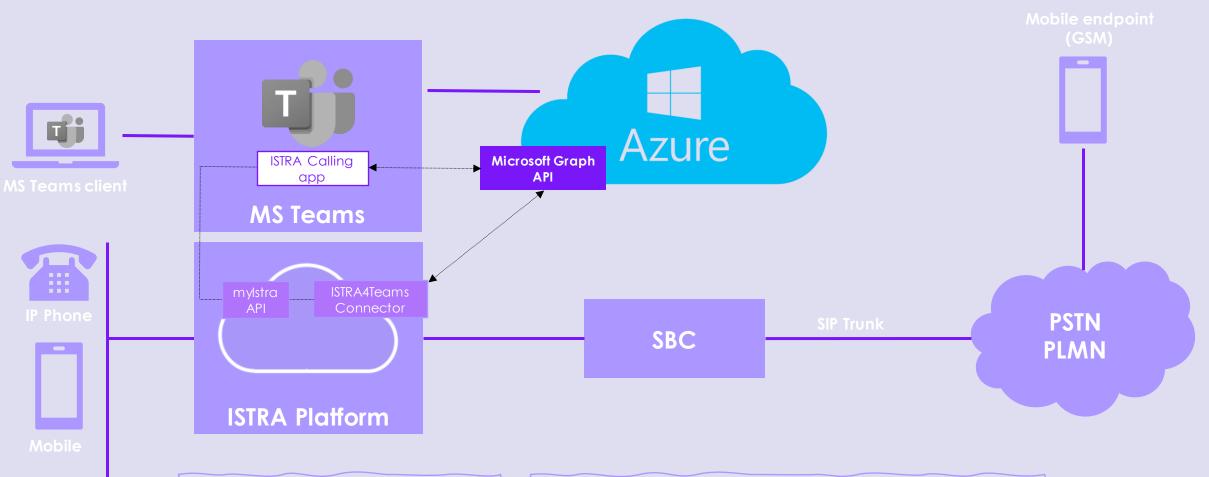




## **MS TEAMS** | scenarios details



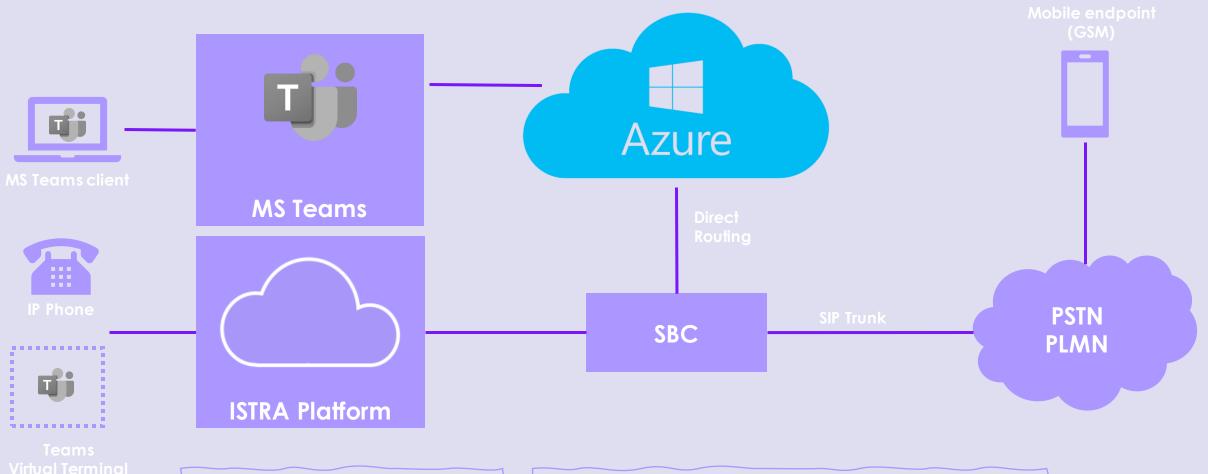
### **COMPETITIVE CALLING** ARCHITECTURE



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



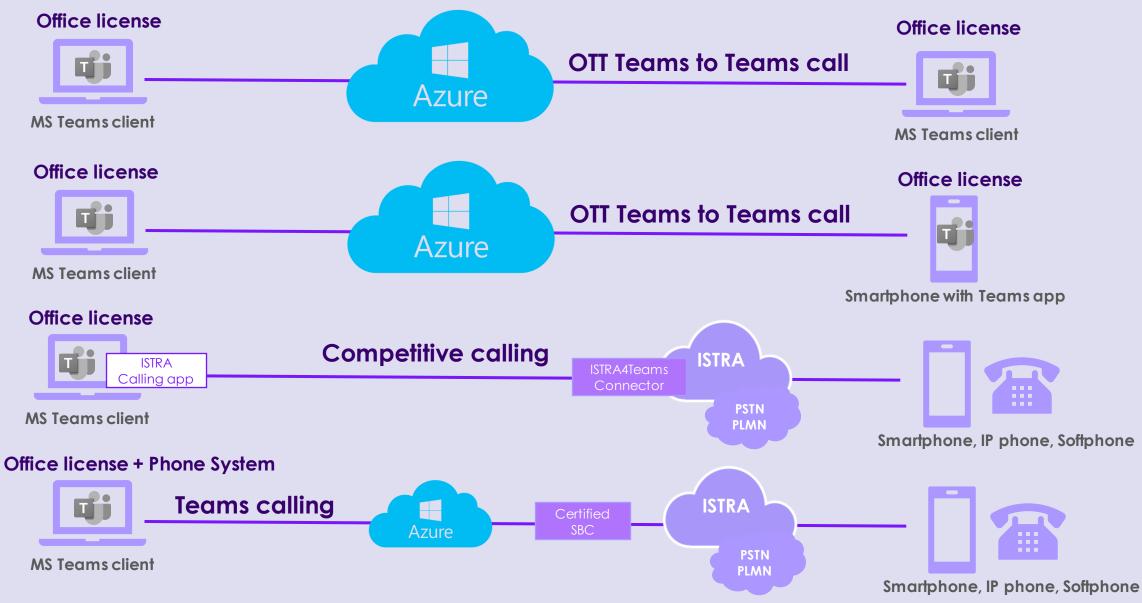
Teams client becomes an additional phone

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

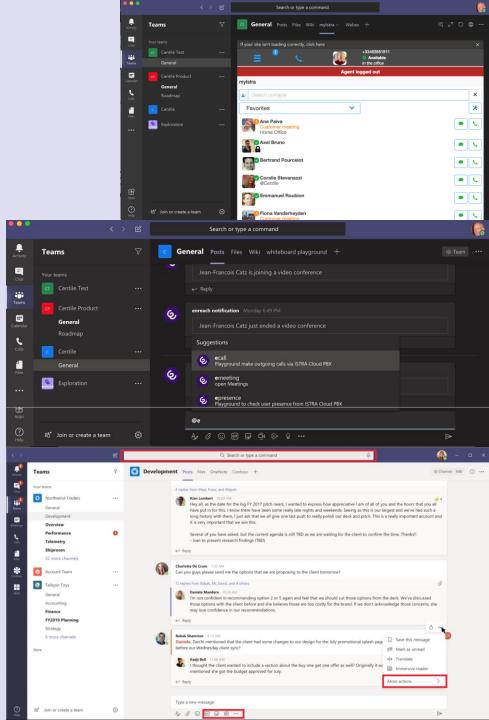
 Allow users to subscribe to receive notifications and messages from our web services

#### 5. Messaging Extensions

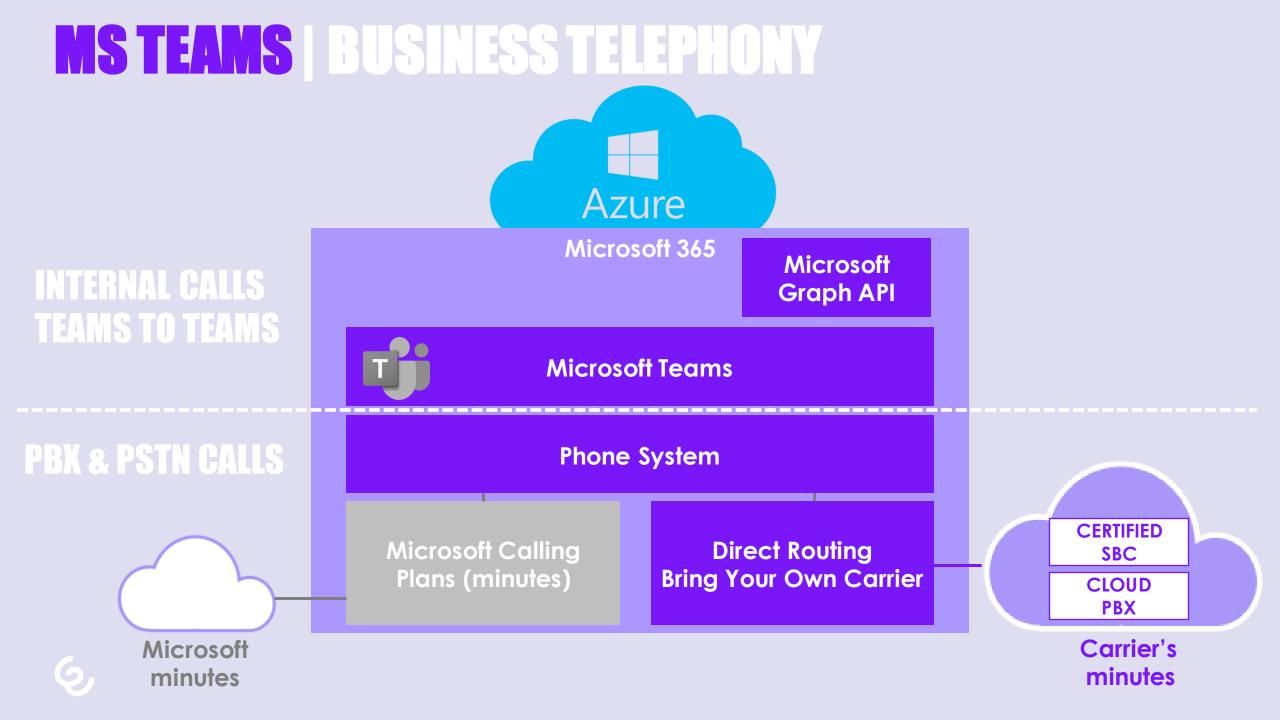
• Allow users to interact with our web services thru buttons and forms (e.g. initiate action, search, ...) directly from the message area

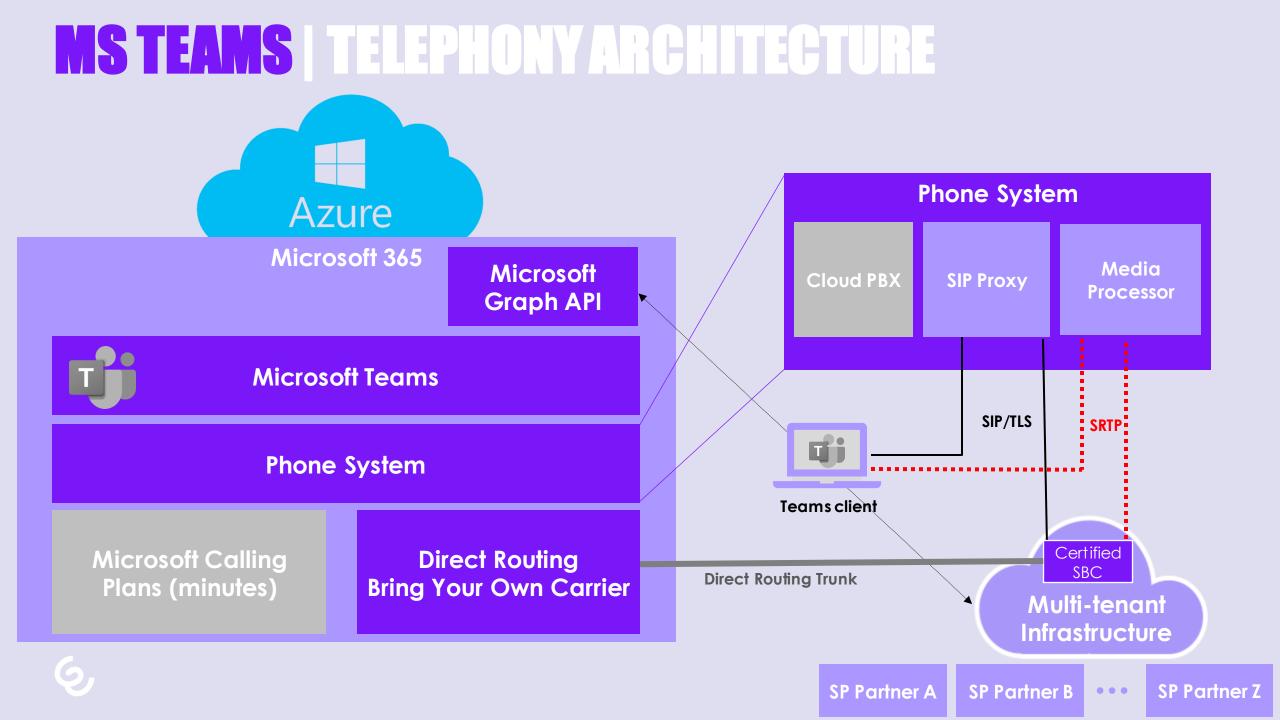
#### 6. Microsoft Graph API

- 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

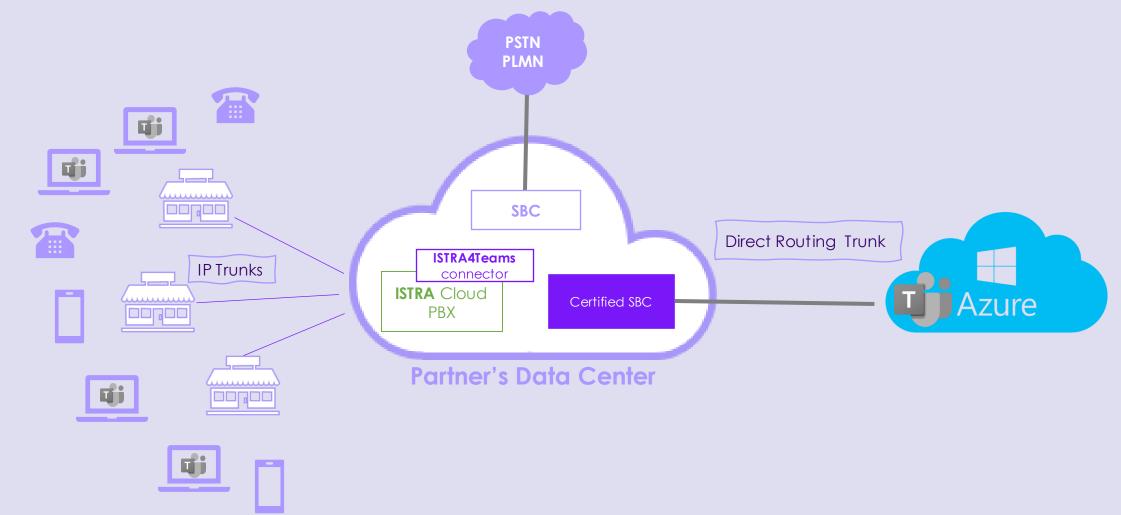




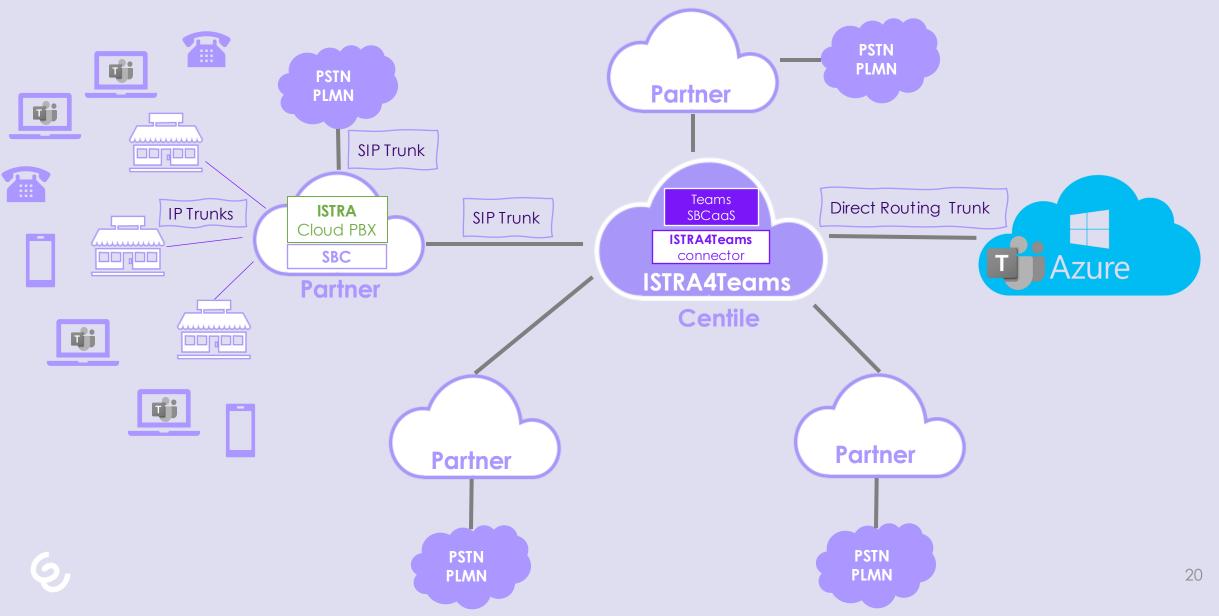
## NEW TENANT **DIRECT ROUTING** CONFIGURATION



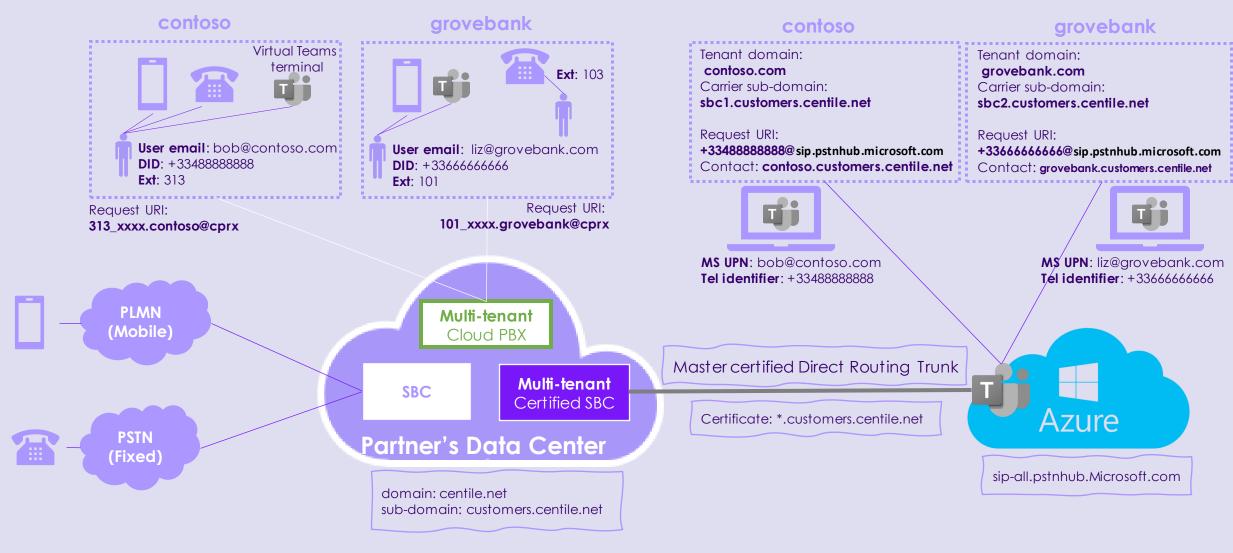
#### **MULTI-TENANT** DIRECT ROUTING



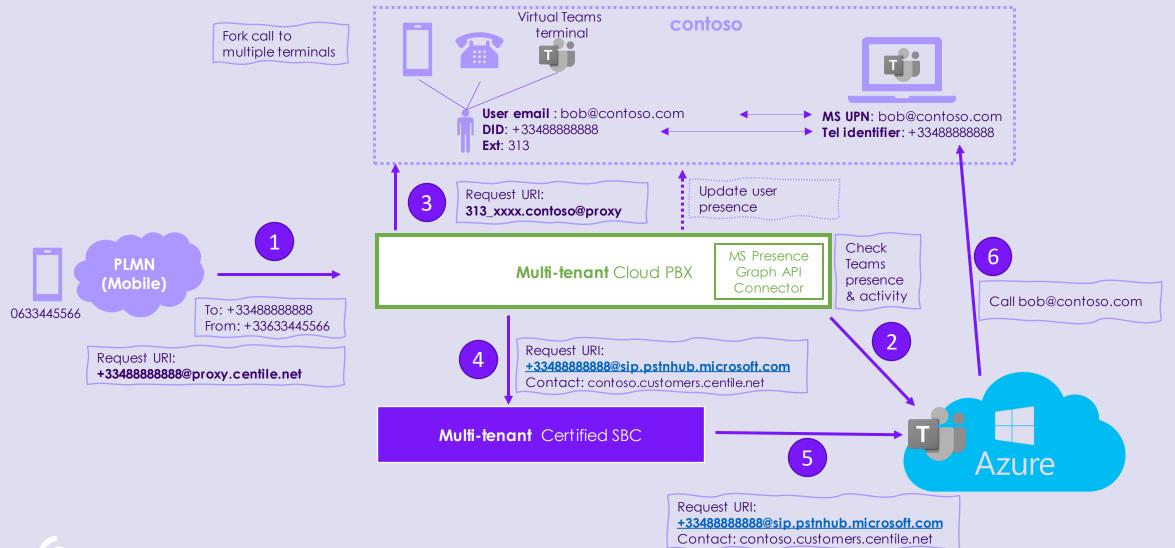
### **MULTI-TENANT** DIRECT ROUTING AS A SERVICE



### **TEAMS CALLING** HOW IT WORKS

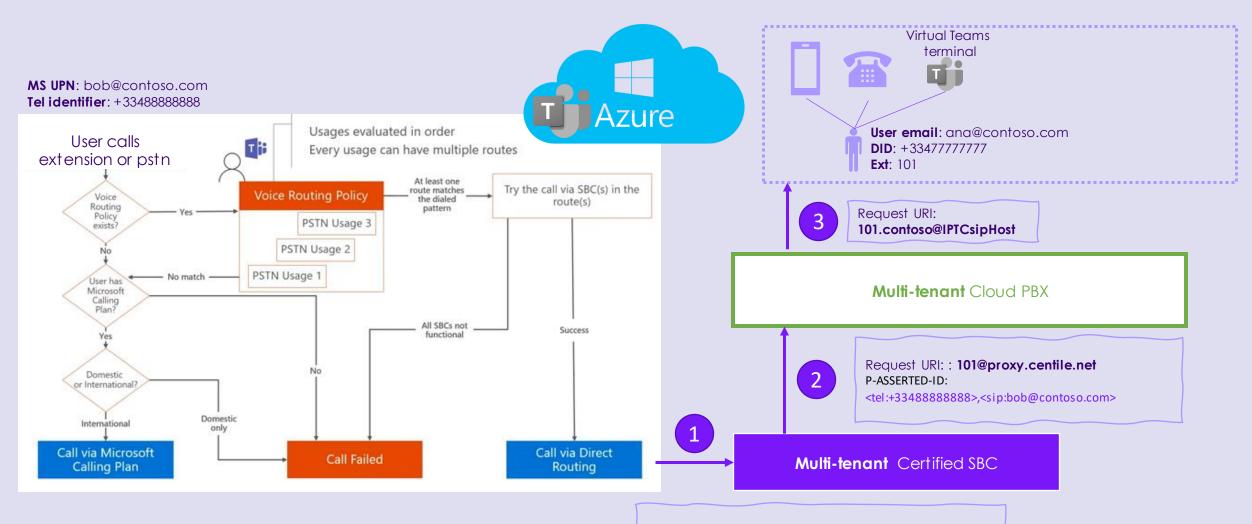


### **TEAMS CALLING FLOW** – INCOMING CALL TO TEAMS



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>

