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Introduction to Direct Routing

Santiago Garcia - 2025-02-13 - Microsoft Teams Direct Routing

Introduction to MS Teams Direct Routing

Setting up phone calling for Microsoft Teams using our Direct Routing configuration couldn't be easier. Our PowerShell wizard integrates directly into your Teams account to automate and simplify what is otherwise a complicated setup. Our only prerequisites are your Teams Domain and Teams Phone licensing and we handle the rest: DNS, users, phone numbers, PSTN and routing information.

Useful guides before you start

- Introduction to Microsoft Teams for admins
- <u>Microsoft Teams Help & Learning</u>
- <u>Manage Teams with Microsoft Teams PowerShell</u>

1. Set up licensing for users

Enabling phone services for Microsoft Teams requires <u>specific licensing</u> for each user:

- Enterprise licensing: add either an E1, E3, or E5 license for a user and this will give you the functionality you need to enable phone services for that user.
- **Teams Phone Standard:** this add-on is a requirement to enable a phone service. Any license that has Microsoft Teams included can purchase a Teams Phone Standard license to enable phone services.

Here's where to set this up:

- 1. Sign into Microsoft 365 admin center (as an admin).
- 2. Select **Billing > Licenses**.

Home > Licenses

Licenses

Subscriptions Requests Auto-claim policy

Select a product to view and assign licenses. Each product below may contain licenses fr multiple subscriptions. Learn more about assigning licenses

Go to Your products to manage billing or buy more licenses.

🛓 Export 💍 Refresh	
Name 1	Available licenses
S Microsoft 365 Business Basic	0
S Microsoft Teams Phone Standard	0

2. Adding Teams-enabled numbers

Back on 2talk's portal, if you're adding new numbers to your account, go to **Switchboard**, select **Add Number** and follow the instructions. Check out the <u>Adding Numbers</u> article for more information. Otherwise, or once the new numbers have been added, you can follow the next steps.

- 1. Log into your <u>account</u>.
- 2. Go to Switchboard and select the number you want to use MS Teams with.
- 3. Under the Number Details tab, select Teams in the Type dropdown.
- 4. Click on **Save** to apply the changes to the number.

Number	12012775090	
Туре	Teams	~
Plan	Fax	
Cost	Voice	
Caller Name	Teams	~
Caller Email		
Comments		

3. Connect your 2talk & Microsoft accounts

Use our PowerShell wizard to generate the necessary pwsh scripts to complete your Direct Routing setup.

- 1. Go to **Tools** > **Teams**.
- Select **PowerShell** to open the step-by-step instructions. The first page will get you started on how to use PowerShell with Microsoft Windows and macOS operating systems.

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Install PowerSł	nell on Microso	oft Windows				

3.1 Connect to MS Graph

Open a PowerShell window and connect to your Microsoft 365 tenant using the Microsoft Graph API.

Install-Module Microsoft.Graph #: Connect-MgGraph -Scopes
"User.ReadWrite.All","Domain.ReadWrite.All"

3.2 Create Domain

Use the New-MgDomain cmdlet to add a domain.

```
New-MgDomain -BodyParameter
@{Id="msAccountNumber).teams.2talk.com";IsDefault="False"}
```

NB replace "ms1xxxx" with your account number, eg **ID=ms59620224**).teams.2talk.com per example below.

Profile	Plan	Billing	Switchboard	e911	Tools	Users	59620224 Henrique Smith
)	2					
Account Ove	rview	Contact information	History and Note	es			eg: ms59620224.teams.2talk.com

3.3 Get TXT Record

\$MgVerificationCode = (Get-MgDomainVerificationDnsRecord DomainId "mslxxxx.teams.2talk.com" | Where-Object {\$_.RecordType
-eq "Txt"}).AdditionalProperties.text
echo \$MgVerificationCode

Domain validation TXT record: this record is generated by Microsoft to validate your unique address against our DNS. Copy and paste the record into **Add TXT** dialog to insert the record.

Paste the TXT record here:

MS=ms1234567

ADD TXT RECORD

3.4 Confirm the domain

You need to confirm the domain with Microsoft. Run this command:

Confirm-MgDomain -DomainId "mslxxxx.teams.2talk.com"

Following confirmation, we will remove the TXT record from our Cloudflare DNS.

Important: we have provided a 5-minute window to complete this step. If you're unable to confirm the domain in the allocated time, you can repeat this confirmation step at a later date.

4. Create Users

NB: Microsoft require a "temporary user" to associate with the trunk domain. This temporary user requires a Office 365 Business license.

- Go to the Microsoft Admin Center, then Users and Add a user.
- Temp User: Microsoft requires a "temporary user" to associate with the trunk domain. This temporary user requires a Office 365 Business license.
- Trunk domain: Select from the dropdown menu (e.g. sbc@msexample.teams.2talk.com).
- Click Next.

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5. Create PSTN

- Go to **Tools > Teams**.
- Select PowerShell.

5.1 Connect to MS Admin

Open a PowerShell window and connect to your Microsoft 365 tenant using the Microsoft Graph API.

Install-Module Microsoft.Graph
Connect-MgGraph -Scopes
"User.ReadWrite.All","Domain.ReadWrite.All"

5.2 Create PSTN Gateway

Use the New-CsOnlinePSTNGateway cmdlet to create a PSTN gateway. You'll need to specify the parameters required for the gateway, including the FQDN (Fully Qualified Domain Name) and other configuration details.

New-CsOnlinePSTNGateway -FQDN ms1xxxx.teams.2talk.com -SIPSignalingPort 5061 -MaxConcurrentSessions 100 -Enabled \$true

5.3 Verify the PSTN Gateway

Use New-CsOnlinePSTNGateway to verify that the PSTN gateway has been created.

Get-CsOnlinePSTNGateway

```
6. Associate Users
```

6.1 Connect to MS Admin

Open a PowerShell window and connect to your Microsoft 365 tenant using the Microsoft Graph API.

Install-Module Microsoft.Graph
Connect-MgGraph -Scopes
"User.ReadWrite.All","Domain.ReadWrite.All"

6.2 Routing configuration

Paste the commands to set up the PSTN identity and Voice route details.

```
Set-CsOnlinePstnUsage -Identity Global -Usage @{Add="VOIP"}
New-CsOnlineVoiceRoute -Identity "VOIP" -NumberPattern ".*" -
OnlinePstnGatewayList "mslxxxx.teams.2talk.com" -Priority 1 -
OnlinePstnUsages "VOIP"
New-CsOnlineVoiceRoutingPolicy -Identity "VOIP" -
OnlinePstnUsages "VOIP"
```

6.3 Associate users

If you have more than a single user, you will need to map a phone number to each of your Teams users using the following commands. The example below assumes that our example user, joe@2talk.com, is going to be assigned the phone number +1 (310) 635-1799, using the Identity of "VOIP".

Replace the following commands as required for your own circumstances.

```
Set-CsPhoneNumberAssignment -Identity joe@customer.com -
PhoneNumber +13106351799 -PhoneNumberType DirectRouting
Grant-CsTeamsCallingPolicy -PolicyName AllowCalling -Identity
joe@customer.com
Grant-CsOnlineVoiceRoutingPolicy -Identity joe@customer.com -
PolicyName "VOIP"
Set-CsOnlineVoicemailUserSettings -Identity joe@customer.com -
VoicemailEnabled $false
```

(NB - phone numbers from your account - eg 13106351799)

6.4 Disconnect from MS Teams (optional)

Optionally, run the following command to disconnect your PowerShell instance.

Disconnect-MicrosoftTeams

All good! Your 2talk account should be all set and connected back to your Microsoft 365 account.

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