

Teams User Group

23. May 2018



Munich



Cologne



Hamburg



Agenda:

18:00 Uhr - Welcome

18:10 Uhr - 1st session: (BOC) - BOTS Session 1 (Marc Bertram Netgo)

5 minuten Break

18:40 Uhr - 2nd session: (DRS) BOTS Session 2 (Rober Otto Trans4mation)

19:15 Uhr - Pause

19:30 Uhr - 3rd session: (MUC) Direct Routing (Teams) – (Thomas Pött Trans4mation)

19:50 Uhr - Open Mic



TEAMS Direct Routing

Bring your own SIP Trunk

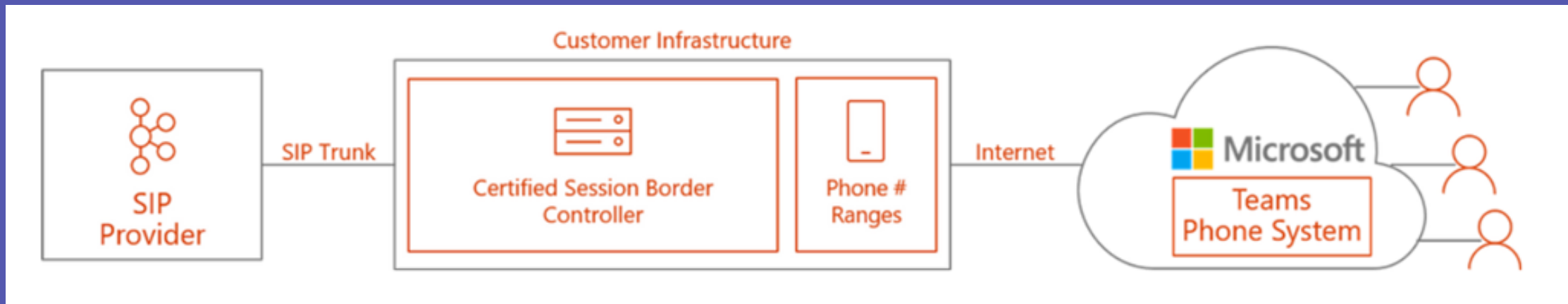
Thomas Poett

Office Server and Services MVP



What is Teams Direct Routing

 We are in Teams Direct Routing Preview since 1. Week



Microsoft call out the following scenarios

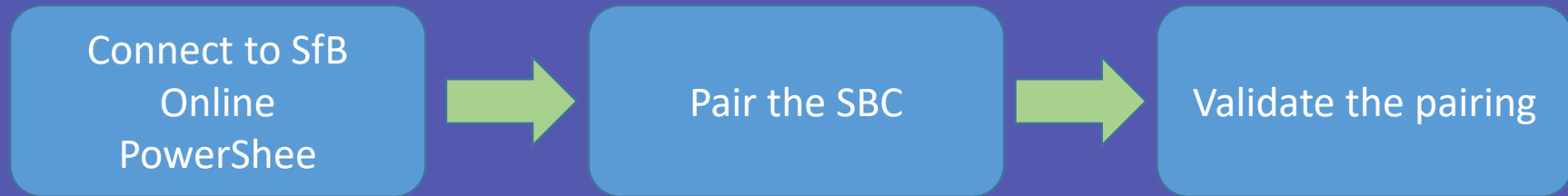


- **Easy Transition to Calling in Teams.** By integrating with an existing PBX, pilot users can be moved to Calling in Teams while users remain on their legacy PBX. Eventually all users can be easily transitioned to Calling in Teams. The call traffic between these users during the transition stay within the organization.
- **Telephony System Inter/Op.** While users are being transitioned to Calling in Teams, Call Center agents can continue to use their application. Direct Routing enables both use cases to coexist. The call traffic between call center agents and Teams users stay within the organization.
- **Support for Analog Devices.** If an organization decides to move to Calling in Teams but has analog devices such as elevator phones or overhead pagers, these devices can be connected to Teams and Phone System via Direct Routing. Call traffic between analog devices and Teams users stay within the organization.

How it works



- Pairing the SBC to Direct Routing Service of Phone System



```
gcm *onlinePSTNGateway*
```

```
PS C:\windows\System32\WindowsPowerShell\v1.0> gcm *onlinePSTNGateway*

CommandType      Name                                     Version      Source
-----
Function         Get-CsOnlinePSTNGateway                1.0         tmp_v5fiu1no.wxt
Function         New-CsOnlinePSTNGateway                1.0         tmp_v5fiu1no.wxt
Function         Remove-CsOnlinePSTNGateway             1.0         tmp_v5fiu1no.wxt
Function         Set-CsOnlinePSTNGateway                1.0         tmp_v5fiu1no.wxt

PS C:\windows\System32\WindowsPowerShell\v1.0>
```



New-CsOnlinePSTNGateway -Fqdn <SBC FQDN> -SipSignallingPort <SBC SIP Port> -MaxConcurrentSessions <Max Concurrent Session which SBC capable handling> -Enabled \$true

```
PS C:\> New-CsOnlinePSTNGateway -Identity sbc.contoso.dk -Enabled $true -SipSignallingPort 5067 -MaxConcurrentSessions 100

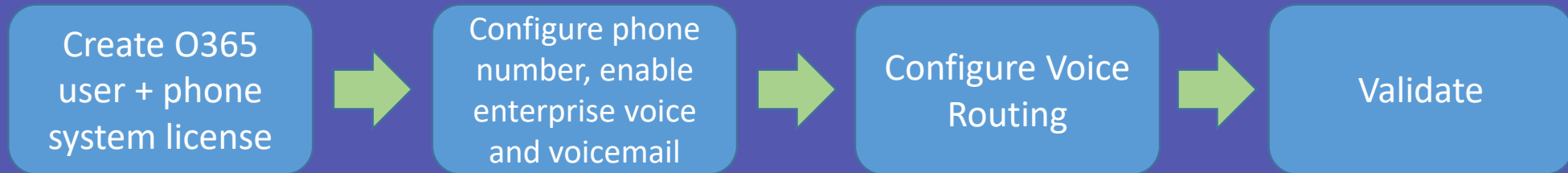
Identity           : sbc.contoso.dk
Fqdn                : sbc.contoso.dk
SipSignallingPort  : 5067
CodecPriority       : SILKWB, SILKNB, PCMU, PCMA
ExcludedCodecs     :
FailoverTimeSeconds : 10
ForwardCallHistory : False
ForwardPai         : False
SendSipOptions     : True
MaxConcurrentSessions : 100
Enabled            : True
```

Get-CsOnlinePSTNGateway

```
PS C:\> Get-CsOnlinePSTNGateway -Identity sbc.contoso.dk

Identity           : sbc.contoso.dk
Fqdn                : sbc.contoso.dk
SipSignallingPort  : 5067
CodecPriority       : SILKWB, SILKNB, PCMU, PCMA
ExcludedCodecs     :
FailoverTimeSeconds : 10
ForwardCallHistory : False
ForwardPai         : False
SendSipOptions     : True
MaxConcurrentSessions : 100
Enabled            : True
```

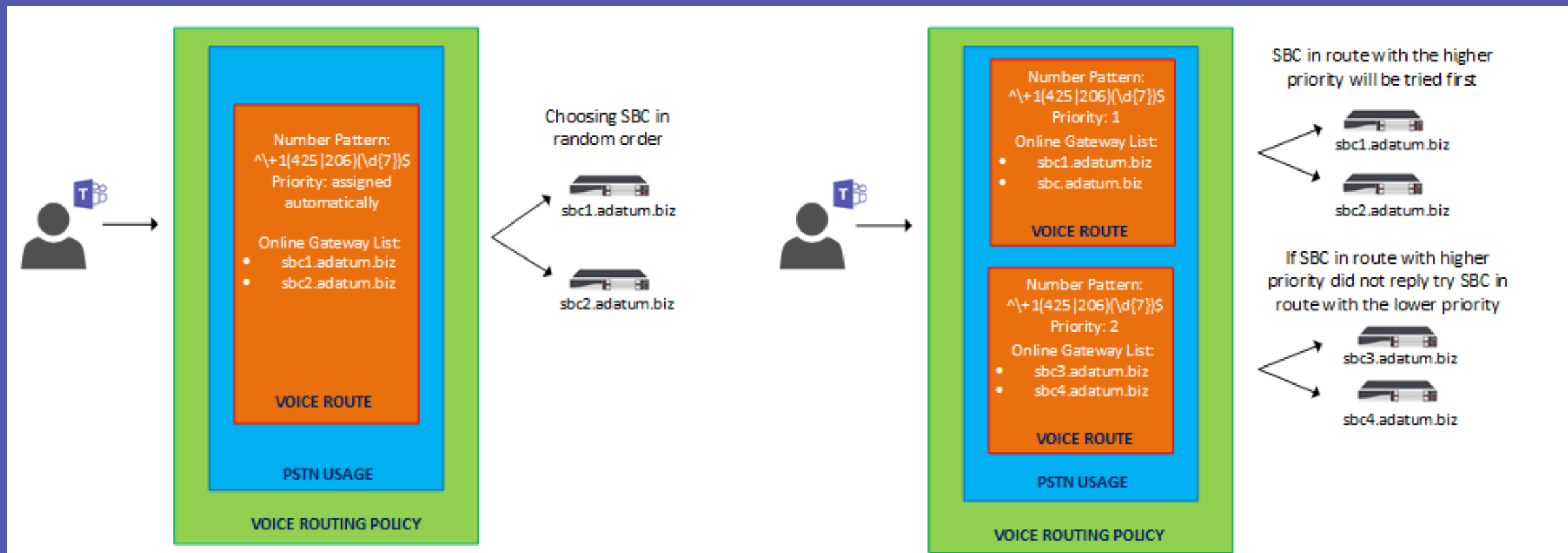
Validate User for Direct Routing Service



```
Set-CsUser -Identity "<User name>" -  
EnterpriseVoiceEnabled $true -HostedVoiceMail $true -  
OnPremLineURI <E1.164 phone number with tel: prefixed>
```

```
PS C:\windows\System32\WindowsPowerShell\v1.0> Set-CsUser "Spencer Low" -OnPremLineURI tel:+14255388797 -EnterpriseVoice  
Enabled $true -HostedVoiceMail $true
```

Voice Routing Policy





```
Set-CsOnlinePstnUsage -Identity Global -Usage @{Add="US and Canada"}  
Get-CSOnlinePSTNUsage
```

```
(Get-CSOnlinePSTNUsage).Usage
```

```
New-CsOnlineVoiceRoute -Identity "Redmond 1" -NumberPattern  
"^\\+1(425|206)(\\d{7})$" -OnlinePstnGatewayList sbc1.adatum.biz,  
sbc2.adatum.biz -Priority 1 -OnlinePstnUsages "US and Canada"
```

```
New-CsOnlineVoiceRoutingPolicy "US Only" -OnlinePstnUsages "US and  
Canada"
```

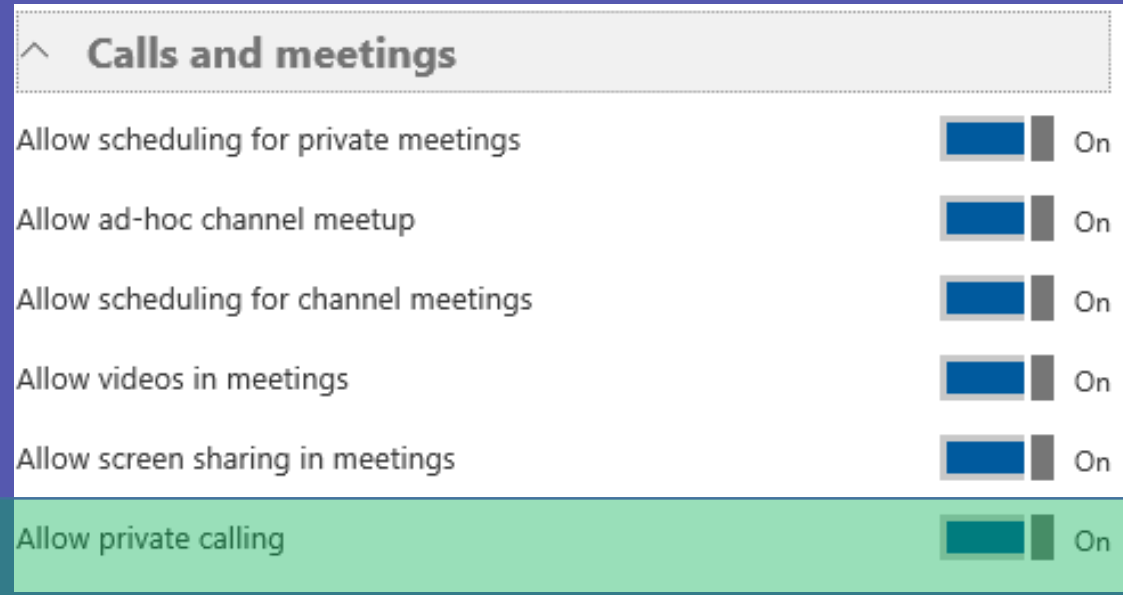
```
Grant-CsOnlineVoiceRoutingPolicy -Identity "Spencer Low" -PolicyName "US  
Only"
```

```
Get-CsOnlineUser "Spencer Low" | select OnlineVoiceRoutingPolicy
```

Other Teams requirements



- Ensure calling is enabled in Microsoft Teams



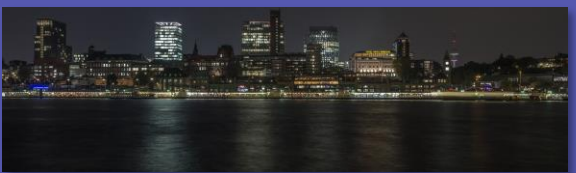
- Ensure Microsoft Teams is the preferred calling client for the users

```
Get-CsTeamsCallingPolicy
```

```
Get-CsTeamsInteropPolicy
```



NRW




Hamburg



Thank you for your participation

Thomas Poett &
Christian Waha

Blog: <http://www.uclabs.blog>

 Meetups
www.meetup.com/Trust-in-Tech-Meetup-Munich/
www.meetup.com/Microsoft-Teams-Meetup-Munich/

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