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Viewing Lync User Telephony Modes in PowerShell

May 22, 2012 by Jeff Schertz · 2 Comments

A <u>question</u> was recently asked in the TechNet Lync Server forums which seemed unique enough to warrant a quick blog article based on the fact that it did take a few minutes to explain the response.

When using the basic **Get-CsUser** cmdlet in Lync Server, as with many other "Get" cmdlets, not all of the applicable parameters for the object are listed by default. As some configuration objects may include tens or even hundreds of parameters then listing all by default would be quick way to make these commands useless for day-to-day administrative tasks.

This article shows how to identify exactly which additional parameters are available for a specific cmdlet and then by querying only a few specific parameters how to verify an individual Lync user's *Telephony* mode configuration based on the results.

Viewing Additional Parameters

There are two ways that this can be accomplished, either by listing all parameter values for the Lync user account (which can return a lot of unwanted information), or by identifying the specific parameters and then querying for only those.

• Using the Lync Server Management Shell enter the following emdlet to list all of the possible parameters for the Get-CsUser emdlet.

```
PS C:\> Get-CsUser Jeff | fl *

SamAccountName : jeff
UserPrincipalName : jeff@schertz.local
FirstName : Jeff
LastName : Schertz
WindowsEmailAddress : jeff@mslync.net
<snipped>
```

PS C:\> Get-CsUser | Get-Member -MemberType Properties

The <u>Get-CsUser</u> documentation only lists the common parameters but in the detailed description there is a note which explains that the general <u>Get-Member</u> PowerShell cmdlet can be used to list all of the possible parameters for a given cmdlet.

• Using the Lync Server Management Shell enter the following cmdlet to list all of the possible parameters for the Get-CsUser cmdlet.

ArchivingPolicy	Property	Microsoft.Rtc.Management.ADConn
AudioVideoDisabled	Property	System.Boolean AudioVideoDisabl
ClientPolicy	Property	Microsoft.Rtc.Management.ADConn
ClientVersionPolicy	Property	Microsoft.Rtc.Management.ADConn
ConferencingPolicy	Property	Microsoft.Rtc.Management.ADConn
DialPlan	Property	Microsoft.Rtc.Management.ADConn
DisplayName	Property	System.String DisplayName {get;
DistinguishedName	Property	System.String DistinguishedName

24, 12:40 PM	viewing Lync User	relephony Modes in PowerShell: Jeff Schertz's Blog
Enabled	Property	<pre>System.Boolean Enabled {get;set;}</pre>
EnabledForFederation	Property	System.Boolean EnabledForFedera
EnabledForInternetAccess	Property	System.Boolean EnabledForIntern
EnabledForRichPresence	Property	System.Boolean EnabledForRichPr
EnterpriseVoiceEnabled	Property	System.Boolean EnterpriseVoiceE
ExternalAccessPolicy	Property	Microsoft.Rtc.Management.ADConn
FirstName	Property	<pre>System.String FirstName {get;set;}</pre>
Guid	Property	System.Guid Guid {get;}
HomeServer	Property	Microsoft.Rtc.Management.ADConn
HostedVoiceMail	Property	System.Nullable`1[[System.Boole
HostedVoicemailPolicy	Property	Microsoft.Rtc.Management.ADConn
HostingProvider	Property	System.String HostingProvider {
Identity	Property	Microsoft.Rtc.Management.ADConn
IPPBXSoftPhoneRoutingEnabled	Property	System.Boolean IPPBXSoftPhoneRo
IsValid	Property	System.Boolean IsValid {get;}
LastName	Property	<pre>System.String LastName {get;set;}</pre>
LineServerURI	Property	System.String LineServerURI {ge
LineURI	Property	System.String LineURI {get;set;}
LocationPolicy	Property	Microsoft.Rtc.Management.ADConn
MobilityPolicy	Property	Microsoft.Rtc.Management.ADConn
Name	Property	<pre>System.String Name {get;set;}</pre>
ObjectCategory	Property	Microsoft.Rtc.Management.ADConn
ObjectClass	Property	Microsoft.Rtc.Management.ADConn
ObjectState	Property	Microsoft.Rtc.Management.ADConn
OriginatingServer	Property	System.String OriginatingServer
OriginatorSid	Property	System.Security.Principal.Secur
PinPolicy	Property	Microsoft.Rtc.Management.ADConn
PresencePolicy	Property	Microsoft.Rtc.Management.ADConn
PrivateLine	Property	System.String PrivateLine {get;
ProxyAddresses	Property	Microsoft.Rtc.Management.ADConn
PublicNetworkEnabled	Property	System.Boolean PublicNetworkEna
RegistrarPool	Property	Microsoft.Rtc.Management.ADConn
RemoteCallControlTelephonyEnable	ed Property	System.Boolean RemoteCallContro
SamAccountName	Property	System.String SamAccountName {g
Sid	Property	System.Security.Principal.Secur
SipAddress	Property	System.String SipAddress {get;s
TargetRegistrarPool	Property	Microsoft.Rtc.Management.ADConn
TargetServerIfMoving	Property	Microsoft.Rtc.Management.ADConn
TenantId	Property	<pre>System.Guid TenantId {get;set;}</pre>
UserPrincipalName	Property	System.String UserPrincipalName
VoicePolicy	Property	Microsoft.Rtc.Management.ADConn
WhenChanged	Property	System.Nullable`1[[System.DateT
WhenCreated	Property	System.Nullable`1[[System.DateT
WindowsEmailAddress	Property	System.String WindowsEmailAddre

Notice that this list is much longer than the \sim 20 parameters that the cmdlet returns by default.

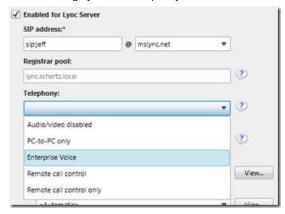
• To query for one of the additional parameters above a Lync user issue the following example cmdlet to return the *ProxyAddresses* value for the Lync user 'Jeff'. The optional *ExpandProperty* switch can be used in front of the desired parameter if the results are longer than what can fit on a single line in the command window.

```
PS C:\> Get-CsUser Jeff | Select-Object -ExpandProperty ProxyAddresses
eum:7501;phone-context=ExchangeUM.schertz.local
EUM:jeff@mslync.net;phone-context=ExchangeUM.schertz.local
sip:jeff@mslync.net
SMTP:jeff@mslync.net
```

Verifying Telephony Settings

The Lync user's *Telephony* configuration is actually not a single parameter which would be stamped with a specific value as it appears in the Lync Server Control Panel.

The following screenshot depicts who the *Telephony* setting seems to look like a single setting.



But the actual configuration is stored on the user account by either enabling or disabling a number of different parameters. For the five different telephony settings there are actually up to three different user parameters which may be modified when this setting is changed in the control panel.

These parameters are highlighted in yellow in the Get-Member output shown a few steps previous

Name	${\tt MemberType}$	Definition	
_ -			
AudioVideoDisabled	Property	System.Boolean	AudioVideoDisabl
EnterpriseVoiceEnabled	Property	System.Boolean	EnterpriseVoiceE
RemoteCallControlTelephonyEnabled	Property	System.Boolean	RemoteCallContro

Thus, to identify the configuration of a Lync user simple query all three of these values to identify their values which can be used to deduce the actual Telephony mode setting.

• Use the following cmdlet to return only the three desired parameters, using the Format-List ('fl') switch to provide for easier reading of the results.

```
PS C:\> Get-CsUser Jeff | Select-Object EnterpriseVoiceEnabled, RemoteCallControl
TelephonyEnabled, AudioVideoDisabled | fl
```

```
EnterpriseVoiceEnabled
RemoteCallControlTelephonyEnabled : False
AudioVideoDisabled
```

The results clearly show that his account is enabled for Enterprise Voice as only one of the parameters is set to true. But other settings are not quite as easily to clarify, so the following table can be referenced to identity which Telephony mode the user is configured for based on which parameters are enabled or disabled.

Telephony Mode	EnterpriseVoiceEnabled	RemoteCallControlTelephonyEnabled	AudioVideoDisabled	
Audio Video Disabled	False	False	True	
PC-to-PC Only (Default)	False	False	False	
Enterprise Voice	True	False	False	
Remote Call Control	False	True	False	
Remote Call Control Only	False	True	True	

Note: Enterprise Voice and Remote Call Control modes are mutually exclusive and cannot both be enabled on the same account at the same time.

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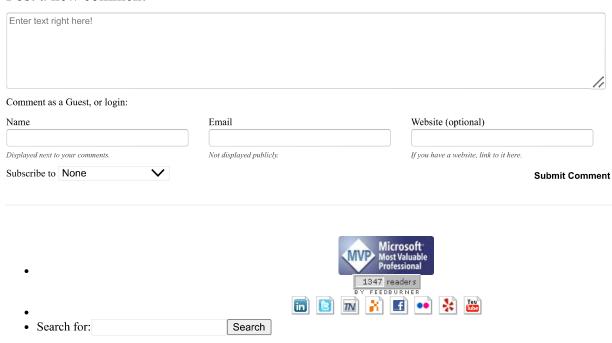
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