

**Lync Freak***Just another Lync Blog***Updating AD Telephone Numbers based on LineURI**Posted on [July 31, 2012](#)

I had a situation come up the other day during a Lync Voice installation. The users LineURI in Lync was correct, but the Telephone number field in AD had been poorly maintained in both inconsistent formats and incorrect numbers. I ended up writing a couple lines of PowerShell that they could use to update the Telephone field based on the LineURI, that they could then either run at intervals or put into a scheduled task.

First we need to import both the Active Directory Module and the Lync PowerShell Module. This way we can pull the LineURI from Lync and pass it to the AD PowerShell command.

```
Import-Module ActiveDirectory
```

```
Import-Module Lync
```

Then we want to build the base command. A Get-CsUser command with the appropriate filter will ensure that only Enterprise Voice users are returned. The list of users is piped into a foreach loop to perform actions on each one individually.

```
Get-CsUser -filter {EnterpriseVoiceEnabled -eq $true} | foreach {
```

Now inside of the loop we will pull out the information we need into variables. This is mainly to avoid confusion of using the pipe input variable \$\_ later in the loop. We also place a semicolon ; at the end of each line for clarity since it is inside the foreach loop.

```
$id = $_.DistinguishedName ;
```

```
$LineURI = $_.LineURI;
```

Then comes the heart of what we are trying to do. This next command takes the LineURI property from Lync, and using the regex command -replace, reformats it into the standard North America number format of 1 (234) 567-8901. It is important to note here that single quotes ' must be used, otherwise PowerShell will see the \$1 and so on as global variables instead of regex replace variables.

```
$tel = $LineURI -replace 'tel:(\+1)([2-9]\d{2})([2-9]\d{2})(\d{4});ext=\d{4}','$1 ($2) $3-$4';
```

Finally the Set-ADUser Active Directory Module command is used to place the newly formatted telephone number into AD for that user. The end of the loop is then reached.

```
Set-ADUser $id -OfficePhone $tel;
```

```
}
```

This can be used as a one time clean up, or with a little more error checking and testing it can be run as part of a daily scheduled task.

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About Shawn Kirkpatrick

I am currently the lead Lync consultant for an IT Services company in the Midwest region of the United States. My primary role is to design and consult on full Lync Enterprise Voice implementations, Lync/CUCM integrations, as well as Lync and legacy PBX integrations via voice gateways. I also provide training for other Lync consultants, designers and implementation engineers on my team; as well as backup consulting on AD, Exchange and System Center products. I currently hold a number of Microsoft Certifications, including MCM:Lync Server 2010.

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