

**Network Simplification AT&T Mexico**

Migration MOP Netsimp

Error! MergeField was not found in header record of data source. Error! MergeField was not found in header record of data source. Error! MergeField was not found in header record of data source.

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Version 1.0

**Cisco Systems, Inc.  
Corporate Headquarters  
170 West Tasman Drive  
San Jose, CA 95134-1706 USA**[**http://www.cisco.com**](http://www.cisco.com) **Tel: 408 526-4000 Toll Free: 800 553-NETS (6387)  
Fax: 408 526-4100**

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About This Migration MOP Netsimp

|  |  |
| --- | --- |
| Author | Day1 IPBH/Netsimp team |
| Change Authority | Cisco Day1 Netsimp team |
| Project ID | **Error! MergeField was not found in header record of data source.** |

History

|  |  |  |  |
| --- | --- | --- | --- |
| Version No. | Issue Date | Status | Reason for Change |
| 1.0 | **Error! MergeField was not found in header record of data source.** | Released | First draft |
|  |  |  |  |

Review

|  |  |  |
| --- | --- | --- |
| Reviewer’s Details | Version No. | Date |
|  |  |  |
|  |  |  |

Document Conventions

|  |  |
| --- | --- |
| D:\Pad and pen.jpg | Alerts readers to take note. Notes contain helpful suggestions or references to material not covered in the document. |
| D:\Caution.jpg | Alerts readers to be careful. In this situation, you might do something that could result in equipment damage or loss of data. |
| D:\Warning.JPG | Alerts readers of a situation that could cause bodily injury. They need to be aware of the hazards involved with electrical circuitry and familiarize themselves with standard practices for preventing accidents. |
| D:\clock.jpg | Alerts the reader that they can save time by performing the action described in the paragraph affixed to this icon. |
| D:\Tip icon.jpg | Alerts the reader that the information affixed to this icon will help them solve a problem. The information might not be troubleshooting or even an action, but it could be useful information similar to a Timesaver. |

# Introduction

## Preface

This document is created for the Network simplification project. Its main audience is AT&T Mexico Engineering, Deployment, Change Control, NOC and Operations teams which oversee execution of the Maintenance Windows to migrate services to a **Error! MergeField was not found in header record of data source.** . The Goal of the MOP is to configure the interfaces for **Error! MergeField was not found in header record of data source.** of an installed **Error! MergeField was not found in header record of data source.** device to receive the end host connections according with Golden Configuration. Once the interface is configured, the connection from current router is migrated to the **Error! MergeField was not found in header record of data source.** device and verifications take place.

The MOP is structured to be generic and the Scripts to be executed are specific to the device involved during the Maintenance Window.

## Related Documents

|  |  |
| --- | --- |
| Document | Version |
| ATTMx Netsimp Phase 2 - Customer Requirements Document Presentation - 2020Jun22 | 1.0 |
| ATTMx Netsimp Phase 2 - Customer Requirements Document - 2020Jun22 | 1.0 |
| 914781\_AT&T\_NETSIM\_LLD\_V1.2\_2021\_April\_12 | 1.2 |
| 914781\_Netsimp phase 2\_NCS560\_Access\_Golden\_Config\_2021Feb19 v1.0 | 1.0 |

## Devices involved

Table 1 –Cisco Site-names and Hostnames

|  |  |  |
| --- | --- | --- |
| Location | Hostname | IP address |
| Error! MergeField was not found in header record of data source. | Error! MergeField was not found in header record of data source. | Error! MergeField was not found in header record of data source. |

Non-Cisco devices that are involved and require configuration are:

Table 2 – Non-Cisco Site-names and Hostnames

|  |  |  |
| --- | --- | --- |
| Sitename | Hostname | IP Address |
| **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** |

* AT&T team is responsible to configure non-Cisco devices

## Escalation matrix

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Responsible | Role | Telephone number | Email | Triggers when |
| Alfonso Eduardo Espinoza | Cisco project lead | 5569669920 | alfesping@cisco.com | There is an issue when integrating the router and can lead to a failed MW  After 15 minutes TS an issue and there is no resolution  Immediately after services are impacted because of the execution of this MOP |
| Victor Suarez | Cisco project lead | 5535154023 | visuarez@cisco.com | There is an issue when integrating the router and can lead to a failed MW  After 20 minutes TS an issue and there is no resolution  Immediately after services are impacted because of the execution of this MOP  When a decision out of the scope of the MOP is needed and immediate action is required |
| Hiram Cortes | Cisco project manager | 5576911247 | hcortesp@cisco.com | Immediately after services are impacted because of the execution of this MOP  When an administrative decision out of the scope of the MOP is needed and immediate action is required |
| Viridiana Lugo | Cisco in site personnel remote-supervision | 5541874127 | viridiana.lugo@axity.com | Personnel in site can’t access the site  There is material missing or pending needed for the completion of the MW  There are activities considered out of the scope for the personnel in site |
| Francisco Garcia | Cisco in site personnel remote-manager | 5541874101 | jfrancisco.garciaz@axity.com | Immediately after services are impacted because of physical reasons  Electrical issues that can impact the services or the installation of the router  There is an incident with the personnel in site and immediate action is required |
| Alberto Rodriguez | Cisco delivery manager | 5569174742 | alberod2@cisco.com | After major services are impacted because of the execution of this MOP  Highest escalation contact in Cisco during this project |
| Jose Guido Trujano | AT&T datacom engineer | 5573075182 | jt632e@att.com | When connections planned to be migrated in this MOP are not allowed to be moved during the MW  When a service not listed/reported to be migrated is left in the migration router  When a service is affected, or a non-cisco device is not working properly, or a port is not working properly  If there is need to talk with deployment department for a troubleshooting action |
| Anaid Tejada | AT&T datacom lead | 5570488199 | at330m@att.com | After 20 minutes and there is no resolution: After services are impacted because of the execution of this MOP  Immediately after services not listed in the MW are impacted for the execution of the MOP  Immediately after a rollback action is performed and services are still impacted |
| Jorge Martinez | AT&T datacom manager | 5549812635 | jm646s@att.com | After 40 minutes and there is no resolution: After major services are impacted because of the execution of this MOP  When a decision out of the scope of the MOP is needed and immediate action is required |
| Edwin Cervantes | Deployment | 5572388326 | ec766c@att.com | When passwords for the MW are not issued  When CRQ is not approved |
| Efrain Reyes | AT&T project manager | 5519630900 | er462w@att.com | When an administrative decision out of the scope of the MOP is needed and immediate action is required |

# Ask yourself

* Lead engineer to execute this activity must read this section and be sure the Maintenance window is well prepared before starting the activity.

|  |  |
| --- | --- |
| Task description | Answer |
| Have I read the entire MOP before the start of the maintenance window? | Yes  No |
| Do I have all required migration scripts as well as rollback scripts for the execution of the activity? | Yes  No |
| Do I understand the activity and I am sure of the procedure? | Yes  No |
| Is the activity is scheduled and approved? | Yes  No |
| Do I know the Change Request number (CRQ #)? | Yes  No |
| Can open a TAC case in Cisco if something in the maintenance window occurs? | Yes  No |
| In case this is a sensitive maintenance window: have I opened a TAC case and shared the MOP with them before the start of the activity? | Yes  No |
| Can I reach **Error! MergeField was not found in header record of data source.** through IP address **Error! MergeField was not found in header record of data source.**? | Yes  No |
| Can I connect to the device **Error! MergeField was not found in header record of data source.** through SSH protocol? have I tested the connection prior to the maintenance window? | Yes  No |
| Can I verify the status of **Error! MergeField was not found in header record of data source.** and no major alarm that could impact the activity is showing? | Yes  No |
| Have the personnel in the field inform they have gained access to the site?  OR  Have I reached personnel in the field to make sure they can access the site? | Yes  No |
| Have I sent an email to gain privilege access to the **Error! MergeField was not found in header record of data source.** device? | Yes  No |
| Have I sent a mail notifying customer and Cisco about the start of the activity? | Yes  No |
| Have I received a mail from customer indicating the start of the activity is allowed? | Yes  No |
| Does the activity have a Webex link where all parties involved in the activity will join? If not, can I generate the Webex link? | Yes  No |
| Have I shared the Webex link with parties involved in the migration activity OR someone involved in the activity have shared it? | Yes  No |
| CX-600 devices migration scripts created by AT&T Engineers are included in the MW documents. Am I sure they have it for the execution of the maintenance window? | Yes  No |
| Have I joined the Webex conference and started recording it? | Yes  No |
| Am I sharing my SSH terminal to be recorded during the maintenance window? | Yes  No |
| After the maintenance window: Did I reach AT&T engineers to verify services are not impacted? | Yes  No |
| Did I send a closure email sending the pre maintenance window and post maintenance window health checks? | Yes  No |
|  |  |

# Pre-Maintenance window activities

This section and its sub-sections are all mandatory and are meant to be executed at least 30 minutes before the start of the maintenance window.

## Request for read/write permissions with the AT&T’s Network Security team

Send an email to the Network Security (NS) Team Mailer to request for Read/Write permissions and wait for approval.

* **TO:** Log Net Access Managment <LogNetAccessManagment@mx.att.com>
* **CC:** Hiram Cortes Perez (hcortesp) <hcortesp@cisco.com>
* **Subject:** Solicitud de privilegios **CRQ YYYYY**

Buena noche Team Network Security

Solicitando de su valioso apoyo para la actividad **CRQ YYYYY**, nos pueden ayudar a otorgar los privilegios al equipoError! MergeField was not found in header record of data source.para realizar la Migración de servicios en el proyecto NETSIMPL.

|  |  |
| --- | --- |
| **Usuario:** | XXXXXX**(ISE)** |
| **Actividad CRQ:** | **CRQ YYYYY** |
| **OT de privilegios:** | **WO0000000xxxxxx** |
| **OT de creación/renovación proveedores:** | **WO0000000xxxxxx** |
| **Elementos solicitados: (IP y Hostname)** | **Error! MergeField was not found in header record of data source.*-*Error! MergeField was not found in header record of data source.** |
| **Comentarios:** | Ventana de Migración de Servicios |

* Replace the X values with the user assigned to XXXXXX (ISE) or XXXXXX (TACACs)
* Replace the **Y** values with the correct number of **CRQ** that we have related to the activity in CRQ
* Change the value of **x** to our current WO number in **WO0000000xxxxxx**
* Once approved, test permissions, proceed with the next step.
* In case they do not pass, it is scaled with the support of the AT&T engineering team to get support from Network Security with its approval.

## Confirm with the AT&T’s NOC team that Network Changes will be done before starting

Send an email to the Network Operations Center (NOC) Team Mailer to request Start of the Activity and wait for approval.

* **TO:** 'ALMAGUER FERNANDEZ, EDUARDO' <ea321v@att.com>; 'Mexico NOC IP Backhaul' <mx.noc.ipbh@mx.att.com>; 'Mexico NOC BO Transporte' <mx.noc.tx@mx.att.com>; 'Mexico NOC FO ATT' <mx.noc.att@mx.att.com>; 'Mexico Noc Bo Core Ip' <mx.noc.ipcore@mx.att.com>; 'Mexico Noc Bo Ran' <mx.noc.ran@mx.att.com>; 'Mexico Soporte Telecom CS' <mx.stcoreipsupport@mx.att.com>
* **CC:**'MX FO Deployment tx' <fo.deployment.tx@att.com.mx>; 'REYES MARTINEZ, EFRAIN' <er462w@att.com>; Emmanuel Perez Guillen (eperezgu) <eperezgu@cisco.com>; day1-attmex-netsimp(mailer list) <day1-attmex-netsimp@cisco.com>; Alberto Rodriguez Sanchez (alberod2) <alberod2@cisco.com>; 'am169m@att.com'; 'francisco.arriaga@verveba.com'; 'netsimp.ext@external.cisco.com'
* **Subject:** Solicitud de inicio de actividad con **CRQ YYYYY** **Error! MergeField was not found in header record of data source.**

Buenas Noches Team NOC,

Su apoyo con el vo.bo. para el inicio del **CRQ YYYYY** el cual consta de: Ventana de **Migración.**

Anexo el formato de cisco para el inicio de la ventana y al final se anexarán los pre-checks y post-check.

Sin más por el momento y en espera del apoyo quedo, saludos.

|  |  |
| --- | --- |
| **CISCO** | **AT&T Mexico** |
| [paste here the link of the scheduled webex session] |
| **Notificación de Inicio de Ventana** |
| **V Formato 0.83 AT&T** |  |
|  | |
| **CRQ #** | **CRQ YYYYY** |
| **Caso Proactivo** | ***[paste #]*** |
| **Link Webex** | [paste here the link of the scheduled webex session] |
| **Proyecto** | **Error! MergeField was not found in header record of data source.–**Error! MergeField was not found in header record of data source. ***NETSIMPL*** |
| **Sitios a Intervenir** | **Error! MergeField was not found in header record of data source.*-*Error! MergeField was not found in header record of data source.** |
| **Objectivo De la Actividad  :** | ***Migración de Servicios C2C*** |
|  |
| **Riesgos de la Actividad:** | **0** |  |
| **OBSERVACIONES** |  |  |

* Replace the **Y** values with the correct number of **CRQ** that we have related to the activity in CRQ
* Once approved, proceed with the next step.
* In case they do not pass, it is scaled with the support of the AT&T engineering team to get support from NOC with its approval or checks.

## Remote Access Verification on Error! MergeField was not found in header record of data source.

* Perform an SSH connection to the NCS560 Error! MergeField was not found in header record of data source. Management IP Address Error! MergeField was not found in header record of data source..

## Verifying Error! MergeField was not found in header record of data source. device state

Connect to **Error! MergeField was not found in header record of data source.** and execute following commands, record the output and save the output in a file. This file will be shared after the maintenance window activity with team members and customer.

Error! MergeField was not found in header record of data source.#

!

Error! MergeField was not found in header record of data source.

* If a minor alarm shows up in the verification and you are sure it doesn’t impact the activity, inform about it during the start of the activity email.
* If device shows a major alarm that could impact the activity or a verification fails, the MW should be rescheduled to a later date. Executing this may impact services or high availability.

# Maintenance window activities

## Migration port mapping

The following port mapping and scripts names are listed in the following table.

Table 4 – Port mapping and scripts

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface CX** | **Service Description** | **Interface** Error! MergeField was not found in header record of data source. **Cisco** | **Script name** |
| **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** |
|  |  |  |  |

## Migration procedure

* Log all terminal inputs and outputs using terminal emulator log feature. This can help in case an unexpected event occurs during the execution.

Execute the following steps for each port listed in the Table 4 – Port mapping and scripts

* Verify VLANs hosts in the CX device, use ping commands and/or ARP table.
* Execute script on **Error! MergeField was not found in header record of data source.** named in the Script name field of the table.
* Disconnect CX port state in the Interface CX field.
* Unconfigure CX device VLAN interfaces and Static routes.
* Connect **Error! MergeField was not found in header record of data source.** port listed in the Interface Error! MergeField was not found in header record of data source.field of Table 4 – Port mapping and scripts to the end device described in the Service Description field of the table.
* Verify hosts in each VLAN migrated using ping commands and/or ARP table.
* In case verification failed or service is negatively impacted execute rollback script stated in the rollback section below.

## Verifying Error! MergeField was not found in header record of data source. Error! MergeField was not found in header record of data source. device state after migration

Apply the following commands to verify the state of the device after all ports have been migrated.

Error! MergeField was not found in header record of data source.#

!

**Error! MergeField was not found in header record of data source.**

# Rollback

Execute script name listed in Script name filed of the table below to execute a rollback.

Table 5 – Port mapping and Rollback scripts

|  |  |  |  |
| --- | --- | --- | --- |
| **Interfaces CX** | **Service** | **Interfaces** Error! MergeField was not found in header record of data source. **Cisco** | **Script name** |
| **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** | **Error! MergeField was not found in header record of data source.** |
|  |  |  |  |

* Reconfigure CX device VLAN interfaces and Static routes.
* Validate Error! MergeField was not found in header record of data source.configuration is the same as the one previous to the Maintenance Window.

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Document Acceptance

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