Incorporación y eliminación de nodos en anillos conmutados de trayecto unidireccional

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Introducción

Este documento describe cómo agregar y quitar un nodo 15454 en un anillo conmutado de ruta unidireccional (UPSR). Con el uso de una configuración de laboratorio completamente documentada con explicaciones detalladas, el documento guía al lector por los pasos necesarios para agregar y después eliminar un nodo en un UPSR

Prerequisites

Requirements

No hay requisitos previos específicos para este documento.

Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de hardware.

Antecedentes

Este documento utiliza una configuración de laboratorio de ejemplo con tres nodos (Node1, Node2 y Node3) para demostrar cómo agregar y luego quitar un cuarto nodo (Node4) entre Node1 y Node3. Este diagrama de red muestra la configuración utilizada aquí:



En este documento, se asume que el nuevo nodo está en rack y encendido con todas sus tarjetas instaladas y su aprovisionamiento completado. El aprovisionamiento incluye:

- General
- Red
- Sincronización
- Canales de comunicación de datos SONET (SDCC)
- Poner los puertos ópticos en servicio

Las referencias de las tareas anteriores se pueden encontrar en la sección Configuración de un UPSR de la <u>Guía de Procedimiento de Cisco ONS 15454, Versión 3.4</u>. Asegúrese de ejecutar el tráfico de prueba a través del nuevo nodo para verificar que todo el hardware esté operativo. Realice esto antes del inicio del procedimiento. También debe identificar y etiquetar todas las fibras involucradas antes de comenzar.

Nota: Solo puede agregar un nodo a un UPSR cada vez.

Precaución: Los procedimientos para <u>agregar un nodo</u> y <u>quitar un nodo</u> afectan al servicio y deben realizarse durante una ventana de mantenimiento debido a la conmutación de protección involucrada. Las interrupciones del tráfico de hasta tres minutos son posibles para cualquier tráfico Ethernet debido a la reconvergencia **del árbol de expansión**. El resto del tráfico soporta un impacto de hasta 50 ms. Además, el procedimiento para <u>quitar un nodo</u> provoca cada circuito que cambió la Señal de transporte síncrona (STS) o el atributo tributario virtual (VT) mientras pasa a través del nodo eliminado para producir una interrupción durante el tiempo que se tarda en eliminar y reconstruir. Esto depende de la competencia del operador con Cisco Transport Controller (CTC).

Convenciones

Consulte <u>Convenciones de Consejos TécnicosCisco para obtener más información sobre las</u> <u>convenciones del documento.</u>

Cómo agregar un nodo al UPSR

Este procedimiento implica:

- Compruebe la integridad del circuito.
- Inicie un switch de protección forzada.
- Conecte las fibras al nuevo nodo.
- Vuelva a iniciar CTC.
- Actualizar circuitos.
- Libere el switch de protección forzada.

Esta es la topología de anillo UPSR en la configuración del laboratorio, como se ve en la vista de red de CTC:



Compruebe la integridad del circuito

Complete los pasos en las instrucciones proporcionadas para verificar la integridad del circuito:

 Desde la vista de red de CTC, confirme que todos los circuitos están en un estado Activo.Si algún circuito se encuentra en un estado Incompleto, no continúe. Refiérase a <u>Prácticas</u> <u>Recomendadas al Configurar Circuitos en el</u> documento <u>ONS 15454</u> para resolver problemas con circuitos en un estado Incompleto.

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| Circuit Name | Type | Size | Dir | State | Source | Destination | VLANs | Spans |
| Test0004 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/V4-1 | Node3/#16/81/¥5-1 | | 3 |
| Test0003 | VT | 1.5 | 2-way | ACTIVE | Wodel/s16/51/V3-1 | Node3/s16/S1/¥4-1 | | 3 |
| Test0006 | VT | 1.5 | 2-way | ACTIVE | Wode1/s16/S1/V6-1 | Node3/s16/S1/W7-1 | | 3 |
| Test0002 | VT | 1.5 | 2-way | ACTIVE | Model/s16/S1/V2-1 | Node3/s16/S1/V3-1 | | 3 |
| Test0005 | VT | 1.5 | 2-way | ACTIVE | Wodel/s16/S1/V5-1 | Node3/s16/31/¥6-1 | | 3 |
| Test0001 | VT | 1.5 | 2-way | ACTIVE | Model/s16/31/V1-1 | Node3/s16/31/V1-1 | | 3 |

2. Confirme que todos los circuitos se encuentran en un estado Activo antes de continuar.

Iniciar un switch de protección forzada

Complete estas instrucciones para iniciar un switch de protección forzada:

- 1. Forzar manualmente el tráfico desde el tramo donde se inserta el nuevo nodo (Node4).
- 2. Un switch de protección forzada puede causar una interrupción del servicio si el anillo UPSR no está libre de errores. Verifique las estadísticas de PM para todas las tarjetas ópticas en el UPSR:Inicie sesión en cada estante del anillo.Haga clic en cada tarjeta óptica UPSR.Elija Performance.Haga clic en Actualizar.Verifique que todos los campos contengan valores cero.Si ve valores cero en todos los campos, el tramo se ejecuta sin errores.Precaución: El tráfico no está protegido durante un switch de protección forzada.
- 3. En la vista Red, localice el tramo donde se va a insertar el nuevo nodo, Nodo1 al Nodo3 en la configuración del laboratorio.Haga clic con el botón derecho del ratón en el tramo y elija **Circuits** en el menú. Esto muestra una ventana que muestra los circuitos en el

| STS | VT | UPSR | Circuit | Switch Stat |
|------|------------|------|-----------|-------------|
| 1 | 1-1 | | Test:0001 | CLEAR |
| 1 | 2-1 | | Test:0005 | CLEAR |
| 1 | 3-1 to 7-1 | | unused | |
| 1 | 1-2 | 7 | Test:0002 | CLEAR |
| 1 | 2-2 | | Test:0006 | CLEAR |
| 1 | 3-2 to 7-2 | | unused | |
| 1 | 1-3 | | Test:0003 | CLEAR |
| 1 | 2-3 to 7-3 | | unused | |
| 1 | 1-4 | | Test:0004 | CLEAR |
| 1 | 2-4 to 7-4 | | unused | |
| 2-48 | | | unused | |
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- 4. Elija Force en el menú desplegable UPSR Switch Selector.
- 5. Haga clic en Apply (Aplicar).
- 6. Haga clic en **Sí** en el mensaje del cuadro de diálogo de confirmación para que el cambio surta efecto.**Nota:** Ahora todo el tráfico se fuerza desde este tramo. El tráfico ahora toma una ruta alternativa alrededor del otro lado del anillo.
- 7. Haga clic en **Aceptar** en el cuadro de diálogo informativo.

Conectar fibras al nuevo nodo

Complete estas instrucciones para conectar las fibras al nuevo nodo:

 Desconecte manualmente las fibras entre el Nodo1 y el Nodo3 y, a continuación, conecte las fibras del Nodo1 y del Nodo3 al nuevo Nodo4.



2. Asegúrese de tener una configuración de este a oeste alrededor del anillo.Nota: Se recomienda considerar la tarjeta troncal óptica más a la derecha en el estante como la de fibra oriental y la tarjeta troncal óptica más a la izquierda en el estante como la de fibra occidental.En la configuración de laboratorio anterior, nos conectamos:Ranura 13 Nodo3 a Ranura 5 Nodo4Ranura 13 Nodo4 a Ranura 5 Nodo1En cada caso, es una práctica recomendada conectar sólo las fibras Tx y verificar los niveles de luz antes de conectar las fibras Rx. Los niveles de Rx se pueden encontrar en la sección Referencia de Tarjetas de la <u>Guía de Referencia de Cisco ONS 15454, Versión 3.4</u>.

Reiniciar CTC

Cierre y vuelva a iniciar la aplicación CTC.

Nota: En este momento es normal ver alarmas de ruta no utilizada (UNEQ-P) en las tarjetas ópticas en el nodo 1 y el nodo 3 adyacentes al nuevo nodo 4.

En la vista Red, el nuevo nodo está visible:



Circuitos de actualización

Complete estos pasos para actualizar los circuitos:

1. Haga clic en la pestaña **Circuits** y espere unos minutos a que los circuitos terminen de cargar, que incluye spans.Una vez que los circuitos terminan de cargar, observe que algunos están en un estado **Incompleto**. Anote el número de circuitos **incompletos**.

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| Alarms History Circuits | Provisio | ning I | Maintenance | | | | | |
| Create Defetr | Ed | | Search | | | | Scope: No | twork 💌 |
| Circuit Name | Type | Size | Dir | State | Source | Destination | VLANS | Spans |
| Test0006 | VT | 1.5 | 2-way | INCOMPLETE | Wodel/s16/51/W6-1 | Bode3/s16/51/V7-1 | - | 2 |
| Test0005 | VT | 1.5 | 2-way | INCOMPLETE | Wodel/s16/S1/V5-1 | Bode3/s16/51/V6-1 | | 2 |
| Test0004 | VT | 1.5 | 2-way | INCOMPLETE | Bode1/s16/S1/94-1 | Node3/s16/S1/V5-1 | | 2 |
| Test0001 | VT | 1.5 | 2-way | INCOMPLETE | Wode1/s16/S1/W1-1 | Node3/s16/S1/V1-1 | | 2 |
| Test0003 | VT. | 1.5 | 2-way | INCOMPLETE | Wodel/s16/31/W3-1 | Bode3/s16/S1/74-1 | | 2 |
| Test0002 | VT | 1.5 | 2-way | INCOMPLETE | Wode1/s16/51/W2-1 | Node3/#16/51/V3-1 | | 2 |

 Todos los circuitos incompletos deben actualizarse para tener en cuenta el nuevo nodo4 agregado.Haga clic con el botón derecho en Node4 y elija Update Circuits With New Node en el monú

menú.



3. Aparece un cuadro de diálogo que indica que se actualizan los circuitos.Los circuitos se vuelven **activos** uno a



4. Cuando se actualizan todos los circuitos, aparece un cuadro de diálogo de confirmación, que indica el número de circuitos actualizados.Este número debe coincidir con el número de circuitos incompletos indicados en el paso 1. En este punto todos los circuitos deben estar activos.

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| Test0006 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/V6-1 | Node3/s16/29/V7-1 | 4 |
| Test0005 | VI | 1.5 | 2-way | ACTIVE | Nodel/s16/s1/V5-1 | Node3/s16/SI/V6-1 | |
| Test0004 | VI | 1.5 | 2-way | ACTIVE | Node1/316/31/94-1 | Node3/316/31/75-1 | * |
| Test0003 | VI | 1.0 | 2-way Juway | ACTIVE | Node1/810/01/V1-1 Wode1/815/51/V1-1 | Node3/816/01/91-1 | * |
| Test0002 | VT | 15 | 2-way 2-way | ACTIVE | Node1/s16/51/V2-1 | Node3/s16/51/73-1 | 4 |
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5. Haga clic en **Aceptar** en el cuadro de diálogo.**Nota:** Si el número de circuitos actualizados no coincide con el número indicado en el paso 1, o si todavía hay **circuitos incompletos**, repita los pasos 2 a 5.

Liberación del switch de protección

Complete estos pasos para liberar el switch de protección:

1. Haga clic con el botón derecho en cualquiera de los spans adyacentes al nuevo Node4 y elija

Circuits.

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| Circuit Name | Type | Size | Dir | State | 6 | aurce | | Destination | VLANS | Spans |
| Test0006 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/51 | V6-1 | Node3/s16 | /51/97-1 | | 4 |
| Test0005 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1 | 7S-1 | Node3/s16 | /\$1/96-1 | | 4 |
| Test0004 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/ | 74-1 | Node3/s16. | /\$1/¥5-1 | | 4 |
| Test0001 | VT | 1.5 | 2-way | ACTIVE | Nodel/s16/S1/ | V1-1 | Node3/s16. | /\$1/¥1-1 | | 4 |
| Test0003 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/ | 73-1 | Node3/s16. | /\$1/94-1 | | 4 |
| Test0002 | VT | 1.5 | 2-way | ACTIVE | Nodel/s16/S1/ | 72-1 | Node3/s16 | /\$1/73-1 | | 4 |
| | | | | | | | | | | |

2. En el menú desplegable **Switch UPSR**, elija **Clear** y luego **Apply**.Haga clic en **Sí** cuando aparezca el cuadro de diálogo de confirmación.



3. Haga clic en **Aceptar** en el cuadro de diálogo de información.



Cómo eliminar un nodo del UPSR

Ahora que el Nodo4 se ha agregado correctamente al anillo UPSR, siga los procedimientos para quitarlo. Agregue algunos circuitos para fines de demostración que se descartan en el Nodo4 para comenzar con algunos cambios menores en la configuración de laboratorio actual:

Este procedimiento implica:

- Eliminar circuitos caídos en el nodo que se va a eliminar.
- Inicie los switches de protección.
- Quite el nodo.
- Vuelva a fibra de los nodos adyacentes.
- Elimine y vuelva a generar los circuitos que cambian STS o VT mientras pasan a través del nodo eliminado.

Eliminación de circuitos descartados en el nodo que se va a eliminar

Complete estos pasos para eliminar los circuitos caídos en el nodo que se está eliminando:

 Identifique y elimine los circuitos descartados en el Nodo4. Precaución: Este paso afecta al servicio. Asegúrese de que todo el tráfico descartado en este nodo se haya movido antes de eliminar los circuitos. En la vista Red o Circuitos, identifique cualquier circuito que contenga el nodo que se va a quitar (Node4) en la columna Origen o Destino. Haga clic en el encabezado de la columna Origen o Destino para ordenar las

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| Test0003 VT 1.5 2-way ACTIVE Node1/s16/S1/V3-1 Node3/s16/S1/V4-1 Test0004 VT 1.5 2-way ACTIVE Node1/s16/S1/V4-1 Node3/s16/S1/V4-1 Test0005 VT 1.5 2-way ACTIVE Node1/s16/S1/V4-1 Node3/s16/S1/V4-1 Test0005 VT 1.5 2-way ACTIVE Node1/s16/S1/V5-1 Node3/s16/S1/V6-1 Test0005 VT 1.5 2-way ACTIVE Node1/s16/S1/V6-1 Node3/s16/S1/V7-1 Test0006 VT 1.5 2-way ACTIVE Node2/s16/S1/V1-1 Node3/s16/S1/V7-1 Test0001 VT 1.5 2-way ACTIVE Node2/s16/S1/V1-1 Node4/s16/S1/V1-1 Test0003 VT 1.5 2-way ACTIVE Node2/s16/S1/V1-2 Node4/s16/S1/V1-2 Test0002 VT 1.5 2-way ACTIVE Node2/s16/S1/V7-1 Node4/s16/S1/V7-1 | Test0002 | VT | 1.5 | 2-way | ACTIVE | Node1/#16/81/V2-1 | Node3/#16/81/V3-1 | | 4 |
| Test0004 VT 1.5 2-way ACTIVE Hode1/s16/31/V4-1 Node3/s16/31/V5-1 Test0005 VT 1.5 2-way ACTIVE Hode1/s16/31/V5-1 Node3/s16/31/V6-1 Test0006 VT 1.5 2-way ACTIVE Node1/s16/31/V6-1 Node3/s16/31/V7-1 Test0006 VT 1.5 2-way ACTIVE Node1/s16/31/V1-1 Node3/s16/31/V7-1 Test0001 VT 1.5 2-way ACTIVE Node2/s16/31/V1-1 Node4/s16/31/V1-1 Test0003 VT 1.5 2-way ACTIVE Node2/s16/31/V1-2 Node4/s16/31/V1-1 Test0003 VT 1.5 2-way ACTIVE Node2/s16/31/V1-2 Node4/s16/31/V1-2 Test0002 VT 1.5 2-way ACTIVE Node2/s16/31/V7-1 Node4/s16/31/V7-1 | Test0003 | VT | 1.5 | 2-way | ACTIVE | Hode1/#16/81/V3-1 | Node3/#16/81/V4-1 | | 4 |
| Test0005 VT 1.5 2-way ACTIVE Hode1/s16/31/V5-1 Node3/s16/31/V5-1 Test0006 VT 1.5 2-way ACTIVE Node1/s16/31/V5-1 Node3/s16/31/V5-1 Test0006 VT 1.5 2-way ACTIVE Node2/s16/31/V1-1 Node4/s16/31/V1-1 Test0003 VT 1.5 2-way ACTIVE Node2/s16/31/V1-2 Node4/s16/31/V1-2 Test0003 VT 1.5 2-way ACTIVE Node2/s16/31/V1-2 Node4/s16/31/V1-2 Test0002 VT 1.5 2-way ACTIVE Node2/s16/31/V7-1 Node4/s16/31/V1-2 | Test 0004 | VT | 1.5 | 2-way | ACTIVE | Hode1/s16/81/V4-1 | Wode3/s16/31/V5-1 | | 4 |
| Test0006 VT 1.5 2-way ACTIVE Hode1/s16/31/V0-1 Node3/s16/31/V7-1 Test0001 VT 1.5 2-way ACTIVE Node2/s16/31/V1-1 Node4/s16/31/V1-1 Test0003 VT 1.5 2-way ACTIVE Node2/s16/31/V1-3 Node4/s16/31/V1-3 Test0003 VT 1.5 2-way ACTIVE Node2/s16/31/V1-3 Node4/s16/31/V1-3 Test0002 VT 1.5 2-way ACTIVE Node2/s16/31/V7-1 Node4/s16/31/V1-3 | Test0005 | VT | 1.5 | 2-w/8V | ACTIVE | Hode1/s16/31/VS-1 | Node3/s16/31/V6-1 | | 4 |
| Test0001 VT 1.5 2-way ACTIVE Wode2/s16/31/V1-1 Wode4/s16/31/V1-1 Test0003 VT 1.5 2-way ACTIVE Wode2/s16/31/V1-2 Wode4/s16/31/V1-2 Test0002 VT 1.5 2-way ACTIVE Wode2/s16/31/V7-1 Wode4/s16/31/V7-1 | Test0005 | VT | 1.5 | 2-way | ACTIVE | Bode1/816/31/96-1 | Node3/s16/31/V7-1 | | 4 |
| Test0003 VT 1.5 2-way ACTIVE Wode2/s16/31/V1-2 Wode4/s16/31/V1-2 Test0002 VT 1.5 2-way ACTIVE Wode2/s16/31/V7-1 Wode4/s16/31/V7-1 | Test 0001 | VT | 1.5 | 2-waiv | ACTIVE | Hode 2/s16/21/91-1 | Node4/s16/41/V1-1 | | 4 |
| Test 0002 VT 1.5 2-way ACTIVE Wode 2/s16/91/V7-1 Bode 4/s16/91/V7-1 | Test 0003 | VT | 1.5 | 2-9/10/ | ACTIVE | Rode2/s16/31/V1-2 | Node4/s16/51/V1-2 | | 1 |
| ÷s. | Test 0002 | VT | 1.5 | 2.4429 | ACTIVE | Rode2/a16/31/07-1 | Node4/a16/51/07-1 | | - |
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2. Haga clic en el circuito para resaltarlo para eliminar estos circuitos y luego haga clic en **Eliminar**.Haga clic en **Sí** cuando aparezca el cuadro de diálogo de confirmación.

| Elle Edit View Tools H Elle Si too S | to ala | | | | | | | _ 🗆 🗙 |
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| Network View | 61.6 | | | | | | | |
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| Circuit Name | Туре | Size | Dir | State | Source | Destination T | Scope: Net | Spans |
| Circuit Name Test 0001 | Type VT | Size 1.5 | Dir 2-way | State ACTIVE | Squrce Nodel/s16/51/V1-1 | Destination T Node3/#16/51/V1-1 | Scope: Net | Spans 4 |
| Circuit Name Test0001 Test0002 | Type VT VT | Size 1.5 1.5 | Dir 2-way 2-way | State ACTIVE ACTIVE | Source Nodel/s16/51/V1-1 Nodel/s16/51/V2-1 | Destination T Node3/s16/51/V1-1 Node3/s16/51/V3-1 | Scope: Net | Spans 4 4 |
| Circuit Name Test9001 Test9002 Test9003 | Type VT VT VT | Size 1.5 1.5 1.5 | Dir 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE | Source Nodel/s16/51/V1-1 Nodel/s16/51/V2-1 Nodel/s16/51/V2-1 | Destination = Node3/s16/51/V1-1 Node3/s16/51/V3-1 Node3/s16/51/V4-1 | Scope: [Net | Spans 4 4 4 |
| Circuit Name Test0001 Test0002 Test0003 Test0004 | Type VT VT VT VT | Size 1.5 1.5 1.5 1.5 | Dir 2-way 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE ACTIVE Belete Einsat | Source Nodel/s16/31/VI-1 Nodel/s16/31/VZ-1 Nodel/s16/31/VZ-1 | Destination T Node3/s16/51/V1-1 Node3/s16/51/V3-1 Node3/s16/51/V4-1 Node3/s16/51/V4-1 | Scope: [ive | Spans 4 4 4 4 |
| Circuit Name Test0002 Test0003 Test0004 Test0005 | Type VT VT VT VT VT VT VT VT | Size 1.5 1.5 1.5 1.5 1.5 | Dir 2-way 2-way 2-way 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE ACTIVE Beliete Circuit | Source Nodel/s16/S1/VI-1 Nodel/s16/S1/V2-1 Nodel/s16/S1/V2-1 | Destination T Node3/s16/51/V1-1 Node3/s16/51/V3-1 Node3/s16/51/V4-1 3/s16/51/V5-1 s3/s16/51/V6-1 | Scope: Net | Spans 4 4 4 4 4 4 |
| Circuit Name Test0001 Test0002 Test0003 Test0004 Test0005 Test0006 | Type VT | Size 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | Dir 2-way 2-way 2-way 2-way 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE ACTIVE BOTTANE Delete Circuit Deleting: Deleting: | Source Nodel/s16/51/V1-1 Nodel/s16/51/V2-1 Nodel/s16/51/V2-1 | Destination T Rode3/s16/51/V1-1 Rode3/s16/51/V3-1 W-sp1/s16/51/V3-1 Rode3/s16/51/V5-1 s3/s16/51/V5-1 s3/s16/51/V7-1 | Scope: [ive | Spans 4 4 4 4 4 4 4 4 4 |
| Circuit Name Test0001 Test0002 Test0004 Test0005 Test0006 Test0006 Test0001 | Type VT | Sze 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | Dir 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE ACTIVE CONTINUE CONTINUE Really de Really de | Source Nodel/s16/51/V1-1 Nodel/s16/51/V2-1 Nodel/s16/51/V2-1 Nodel/s16/51/V2-1 Circuits with ports enabled will affect traffiliets 3 selected circuits? | Destination T Bode3/s16/51/V1-1 Bode3/s16/51/V3-1 Weg3/s16/51/V4-1 S/s16/51/V5-1 s3/s16/51/V5-1 -3/s16/51/V7-1 -3/s16/51/V1-1 | Scope: [ve | Spans Spans A A A A A A A A A A A A A |
| Circuit Name Test0001 Test0002 Test0003 Test0004 Test0005 Test0006 Test0006 Test0001 Test0003 | Type VT | Sze 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | Dir 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE CONSTRUCT CONSTRUCTION Really de | Source Node1/s16/31/V1-1 Node1/s16/31/V2-1 Node1/s16/31/V2-1 Node1/s16/31/V2-1 Source Source Node1/s16/31/V2-1 Node1/s1 | Destination ** Node3/s16/51/71-1 Node3/s16/51/71-1 Node3/s16/51/74-1 Node3/s16/51/75-1 S/s16/51/75-1 S/s16/51/75-1 S/s16/51/77-1 S/s16/51/77-1 S/s16/51/77-1 S/s16/51/71-2 | Scope: [ver | Spans 4 4 4 4 4 4 4 4 4 4 4 |
| Circuit Name Test0001 Test0002 Test0003 Test0004 Test0005 Test0005 Test0006 Test0001 Test0003 Test0003 Test0003 Test0002 | Type VT VT | Size 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | Dir 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way 2-way | State ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE CONSTRUCT CONSTRUCTION Really de | Source Node1/s16/31/V1-1 Node1/s16/31/V2-1 Node1/s16/31/V2-1 Node1/s16/31/V2-1 Source Node1/s16/31/V2-1 Node1/s16/31/V2-1 No | Destination ** Node3/s16/51/71-1 Node3/s16/51/71-1 Node3/s16/51/74-1 Node3/s16/51/75-1 S3/s16/51/75-1 S3/s16/51/77-1 S4/s15/51/77-1 S4/s15/51/77-1 S4/s16/51/77-1 S4/s16/51/770-1 S4/s16/51/770-1 S4/s16/51/770-1 S4/s16/51/770-1 S4/s16/51/770-1 S4/s | Scope: [ver | Spans 4 4 4 4 4 4 4 4 4 4 4 |

- 3. Haga clic en **Aceptar** cuando aparezca el cuadro de diálogo informativo.Presione la tecla **Ctrl** o **Shift** para que se resalten varios circuitos para su eliminación.
- 4. Identifique y documente los parámetros de cualquier circuito que cambie STS o VT mientras pasan a través del nodo (Nodo4) que se va a quitar. Estos circuitos se eliminan y se vuelven a crear en el último paso de este procedimiento. Esta tarea se realiza mejor desde la vista de estantería del nodo (Nodo4) que se va a eliminar.

| Else Est Yew Jools Help Nodel Nodel OKA OMA OKA OMA OKA OMA ORA OMA ORA OMA ORA OMA ORA OMA ORA OMA OPE OPE OPE OUT ITT ALLA (4 sto FR OWER CISCOLS OPE Auchorative OPE OPE OPE Interview OPE OPE OPE OPE Interview OPE OPE OPE OPE Interview OPE OPE OPE OPE OPE Interview OPE OPE OPE OPE OPE OPE OPE Interview OPE | Elle Est yow Taols Help Nodel OCA DAMN TP Addr : 172.20.177.145 /B Dotted : 127.20.177.145 /B Unst : CTSC015 Auchority: Ruperuse: Name CandBons History Crccuts Previsionag Inventory Maintenance Create. Dectr: Est Scope: Node Create. Dectr: Est Scope: Node Create. Create. Dectr: Est Scope: Node Create. Scope: No | 😵 Node4 - Cisco Transport (| Controlle | r | - SI 1 | | | State State State | | _ 🗆 X |
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| Nodel Other Nodel 901 DMJ DMJ DMJ DMJ 128 c 1272.00.177.147 Borted: 1272.10.014:56 78 DMJ DMJ DMJ 128 c 1 CTSC015 Auchority: Supersaet DMJ DMJ DMJ DMJ DMJ Name CondBors History Difference D | Nodel Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide Vide <th< th=""><th>Elle Edit View Taols H</th><th>jelp</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<> | Elle Edit View Taols H | jelp | | | | | | | |
| Nodel Differ Differ Differ Eff Scope: Node Scope: Node | Nodel Nodel Nodel 0 CR 0 MJ 0 MN 0 MN TP Addr : 127,20,177,147 Booted : 12/11/01.4:16 PE 0 | 831 8 4 | - | 4 | 0 11 2 | 2, 9, 9 | | | | |
| OCR OBM OBM IP Adds: 12/11/01.4t:56 PB Use: : CISCO15 Auchority: Buperuse: | OCK OMA OMN IP Adds: 1.12/11/01.41:56 PB User: I IZ/11/01.41:56 PB User: I IZ/11/01.41:58 User: I IZ/11/01.41:58 User: I IZ/11/01.41:58 User: I IZ/11/01.51:58 User: I IZ/11/01.51:58 | Notet | | | | | | | | |
| TP Addr. : 172.20.177.147 Booted : 12/1/01 4:56 /B User. : CISCO15 Auchor:ty: Supersaer See 99 0 00000000000000000000000000000000 | PF Addr. : 172, 20, 177, 147 Booted : 12/11/01 4:36 PE User. : CTSC015 Auchor:try: Bugeruser Warms Conditions History Circuits Provisioning Inventory Maintenance Create Difference Create Difference Circuit Name Type Size Difference State Scope: Scope: VLANs State Scope: Node3/s16/51/Y2-1 Test0005 VT VT 1.5 2-way ACTIVE Kode1/s16/51/Y2-1 Rode3/s16/51/Y2-1 4 Test0005 VT 1.5 2-way ACTIVE Kode1/s16/51/Y2-1 Rode3/s16/51/Y2-1 4 Test0006 VT 1.5 2-way ACTIVE Kode1/s16/51/Y2-1 Rode3/s16/51/Y2-1 4 Test0005 VT 1.5 2-way ACTIVE Kode1/s16/51/Y2-1 Rode3/s16/51/Y2-1 Test0006 VT 1.5 2-way ACTIVE Kode1/s16/51/Y2-1 Rode3/s16/51/Y2-1 4 Test0006 VT 1.5 2-way <td< th=""><th>OCR ONJ</th><th>0 MN</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<> | OCR ONJ | 0 MN | | | | | | | |
| IP Addx : 172.20.177.147 Booted : 12711/01 4:36 PB User : CISC015 Auchocity: Tugeruser Name: CandBons History Circuits Provisioning Inventory Maintenance Circuit Name Type Size VT 1.5 2-way ACTIVE Node1/s16/31/Y2-1 Med3/s16/31/Y2-1 4 Test10005 VT 1.5 2-way ACTIVE Node1/s16/31/Y2-1 Med3/s16/31/Y2-1 4 Test10005 VT 1.5 VT 1.5 2-way ACTIVE Node1/s16/31/Y2-1 Node3/s16/31/Y2-1 4 Test10005 VT 1.5 VT 1.5 2-way ACTIVE Node1/s16/31/Y2-1 4 Test10004 VT 1.5 2-way ACTIVE Node1/s16/31/Y2-1 Node3/s16/31/Y2-1 4 4 <tr< th=""><th>IP Aids: 172.30.177.147 Bonted: 121/1/04.156 PB User: : CISCO15 Auchority: Supersuser: Name: Conditions History: Circuit/Name: Previsioning: Inventory Marmis: Canditions History: Circuit/Name: Circuit/Name: Test1000 V1 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 4 Test1000 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 4 Test10003 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 4 Test10004 VI 1.5 Z-way: ACTIVE:</th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th></tr<> | IP Aids: 172.30.177.147 Bonted: 121/1/04.156 PB User: : CISCO15 Auchority: Supersuser: Name: Conditions History: Circuit/Name: Previsioning: Inventory Marmis: Canditions History: Circuit/Name: Circuit/Name: Test1000 V1 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 4 Test1000 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 4 Test10003 VI 1.5 Z-way: ACTIVE: Node1/a16/31/Y2-1 Node3/a16/31/Y2-1 4 Test10004 VI 1.5 Z-way: ACTIVE: | | | 1 | | | | | | |
| Dorest 1 x2/x104 vt 30 YB User 1 CISCOLS Authority: Dupezuzer Create: Dupezuzer Create: Dupezuzer Create: Dupezuzer Create: Dupezuzer | Dorder 1 22/21/03 visio PB Differ | IP Addr : 172.20.177 | 147 | | | 192 | 081 0040045700 001740 | XXVITTCC CC4810C48 DB1 | 1 | |
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| Test0001 VT 1.5 2-way ACTIVE Node1/s16/S1/V1-1 Node3/s16/S1/V1-1 4 Test0004 VT 1.5 2-way ACTIVE Node1/s16/S1/V4-1 Node3/s16/S1/V5-1 4 | Test0001 VT 1.5 2-way ACTIVE Node1/s16/S1/V1-1 Node3/s16/S1/V1-1 4 Test0004 VT 1.5 2-way ACTIVE Node1/s16/S1/V4-1 Node3/s16/S1/V5-1 4 | Test0002 | VT | 1.5 | 2-way | ACTIVE | Wodel/s16/31/V2-1 | Mode3/s16/S1/V3-1 | | 4 |
| Test0004 VT 1.5 2-way ACTIVE Node1/s16/51/V4-1 Node3/s16/51/V5-1 4 | Test0004 VT 1.5 2-way ACTIVE Node1/s16/51/V4-1 Node3/s16/51/V5-1 4 | Test0001 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/V1-1 | Node3/s16/51/V1-1 | | 4 |
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- 5. En la vista Shelf, haga clic en **Circuits** y asegúrese de que **Scope** esté configurado en **Node** en el menú desplegable.Esto le permite ver sólo los circuitos que pasan o se descartan en este nodo.
- 6. Resalte individualmente cada circuito y haga clic en Editar. Desde la ventana Editar, asegúrese de que la casilla Mostrar mapa detallado esté marcada. Ahora debería ver en qué STS y VT el circuito entra y sale del nodo. Si no coinciden, documente el circuito para la eliminación y recreación en el último paso 15 de este procedimiento.



En la captura de pantalla anterior de la configuración del laboratorio, puede ver que el circuito cambia realmente STS y VT a través del Nodo4. Ingresa a través de **STS2**, **VT1-1**, y sale a través de **STS3**, **VT2-1**. Este circuito debe eliminarse y recrearse en el último paso de este procedimiento.

- 7. Repita el paso 6 para todos los circuitos que aparecen en la vista de nodo.
- 8. Forzar manualmente el tráfico fuera de todos los spans conectados al Nodo4.
- 9. Un switch de protección forzada puede causar una interrupción del servicio si el anillo UPSR no está libre de errores. Verifique las estadísticas de PM para todas las tarjetas ópticas en el UPSR: Inicie sesión en cada estante del anillo. Haga clic en cada tarjeta óptica UPSR. Elija Performance. Haga clic en Actualizar. Verifique que todos los campos contengan valores cero. Precaución: El tráfico no está protegido durante un switch de protección forzada.
- En la vista Red, haga clic con el botón derecho del ratón en un tramo que se conecte al Nodo4 y elija Circuitos en el menú.

| Eist Mew Toels Help Metwork View Metwork View OCR 184. OMP Node1/a5/p1 = Node4/a13/p1 Node/a10/p1 Node/a10/p1 Node1/a5/p1 = Node4/a13/p1 Node1/a5/p1 - Node4/a13/p1 (Unprotected OC48) Node1/a5/p1 - Node4/g13/p1 (Unprotected OC48) Name History Circuit Node1/a5/p1 Reserve Secent Name Type Bitz Dir Bitzle Bode1/a16/53/V1-1 Mode3/a16/53/V2-1 Name Type Bitz Dir Bitzle Bode1/a16/53/V1-1 Mode3/a16/53/V2-1 Circuit Name Type Bitzle Dir Bitzle Bode1/a16/53/V1-1 Mode3/a16/53/V2-1 V 15 2-way ACTIVE Node1/a16/53/V1-1 Mode3/a16/53/V2-1 Mode3/a16/53/V2-1 Add3/a16/53/V2-1 Add3/a16/53/V2- | | r - 3 | | | a second a second | | | | _ 🗆 🗙 |
|--|--|--|--|---|---|--|--|--------------------|--------------------------------------|
| Network View Network View OCR 1MJ 0 MN Rode1/a5/p1 = Node4/a13/p1 Image: Control of the state Span Node1/a5/p1 - Node4/a13/p1 (Unprotected OC48) Node1/a5/p1 = Node4/a13/p1 Image: Control of the state Span Node1/a5/p1 - Node4/a13/p1 (Unprotected OC48) Namma History Circuits Span Node1/a5/p1 - Node4/a13/p1 (Unprotected OC48) Create Ordex Efficience Create Ordex Efficience Circuit Name Type Rize Div Estate Sode1/a5/51/P1-1 Node3/a16/31/P1-1 Circuit Name Type Rize Div Estate Sode1/a16/51/P1-1 Node3/a16/31/P1-1 Fest0001 VT 1.5 2-way ACTIVE Node1/a16/51/P2-1 Node3/a16/51/P2-1 4 Test0003 VT 1.5 2-way ACTIVE Node1/a16/51/P2-1 Node3/a16/51/P2-1 4 Test0004 VT 1.5 2-way ACTIVE Node1/a16/51/P2-1 Node3/a16/51/P2-1 4 Test0004 VT 1.5 2-way< | Eile Edit View Tools H | jelp | | | | | | | |
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| Image: Second | Network View OCR 1MJ 0M Nodel/s5/pl - Wode4/sl | 01 3/p1 | | | ACGET C | Span.Node1is5 | p1 - Node4/s13jp1 (Unprotected OC48) | | |
| Image: Second | | | | | | Go To Node4(s1 | 361 | | |
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| Circuit Name Type Size Dir State Source Destination VLANs Spat Test0001 VT 1.5 2-way ACTIVE Node1/s16/S1/V1-1 Node3/s16/S1/V1-1 4 Test0002 VT 1.5 2-way ACTIVE Node1/s16/S1/V2-1 Node3/s16/S1/V3-1 4 Test0003 VT 1.5 2-way ACTIVE Node1/s16/S1/V3-1 Node3/s16/S1/V4-1 4 Test0004 VT 1.5 2-way ACTIVE Node1/s16/S1/V4-1 Node3/s16/S1/V5-1 4 Test0005 VT 1.5 2-way ACTIVE Node1/s16/S1/V4-1 Node3/s16/S1/V5-1 4 | | | | | | | | | |
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11. En el **selector de switches UPSR**, elija **Force** en el menú desplegable y luego haga clic en **Apply**.

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| Nodel/s5/pl - Node4/s | 12/01 | | 6 | Circuits or | Span Node1/ | s5/p1 - | Node4/s13/p1 (Unprot | ected (0048) | | | - |
| and a second sec | | | ٤. | 070 | 1 107 | Lunen | Circuit | Duttek Citate | | | |
| | - 1 | | 10 | 818 | VI | UPart | Circue | SWILLI STATE | | the last | |
| | - 1 | | • | | 2.4 | E C | Test000 | CLEAR | h h K | 7-23 | |
| | - 8 | | • | | 3-1 to 7-1 | 100 | -unused- | CLEMI | 12 de la | 1 | |
| | - 1 | | 1 | 1 | 1.7 | R | Tect 0107 | CLEAR | | | |
| | - 1 | | | 1 | 2.2 | P | Test 0006 | CLEAR | | 2 | |
| | - 8 | | | 1 | 3-2 to 7-2 | 1 | unused | | Node 3 | | |
| | | | | 1 | 1.3 | P | Test 0000 | CLEAR | | | _ |
| | | | | 1 | 2-3 to 7-3 | | -unused- | | | 1 | |
| | - 1 | | | 1 | 1-4 | R | Test 0304 | CLEAR | | | |
| | - 1 | | | 1 | 2-4 to 7-4 | 1 | -unused- | | | | |
| | | | | 2-48 | | 1 | unused | | | | |
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| Create Defete | FA | ње — | Sec | | | | | | | Scope: No | beark 💌 |
| Circuit Name | Type | Size | Di | | | | | | estination | VLANs | Spans |
| Test:0001 | VT | 1.5 | 2-w | | | | | | 1/V1-1 | | 4 |
| Test:0002 | VT | 1.5 | 2-W | | | | | | 1/93-1 | | 4 |
| Test:0003 | VT | 1.5 | 2-w | | | | | | 1/94-1 | | 4 |
| Test0004 | VT | 1.5 | 2-w | | | | | | 1/95-1 | | 4 |
| Test0005 | VT | 1.5 | 2-w | | | | | | 1/96-1 | | 4 |
| Test0006 | VT | 1.5 | 2-w | J | | | | | 1/97-1 | | 4 |
| | | | | Switch all UP | SR circuits av | w. FOR | CE | * Apply | | | |
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Haga clic en **Sí** en el cuadro de diálogo de confirmación. Esto fuerza todo el tráfico desde el tramo, lo que hace que tome una trayectoria alternativa alrededor del otro lado del anillo.

- 12. Repita el paso 11 para todos los spans que se conectan al nodo 4.Una vez completado, el Node4 se aísla completamente.
- 13. Vuelva a conectar las fibras entre el Nodo1 adyacente y el Nodo3.En este ejemplo, se conecta la ranura 5 Node1 a la ranura 13 Node3.



Cuando se reconectan las fibras a nodos adyacentes, se recomienda conectar primero sólo las fibras Tx y verificar los niveles de luz antes de conectar las fibras Rx. Los niveles de Rx se pueden encontrar en la sección Referencia de Tarjetas de la <u>Guía de Referencia de</u> Cisco ONS 15454, Versión 3.4.

- 14. Una vez que todas las fibras se vuelvan a conectar, abra la pestaña **Alarmas** del Nodo3 y Nodo4 recién conectado y verifique que las tarjetas SPAN estén libres de alarmas.Resuelva cualquier alarma antes de continuar.
- 15. Ahora elimine y vuelva a generar los circuitos identificados en el paso 4. En la vista Red, busque cada circuito.De una en una, resalte el circuito y haga clic en el botón Eliminar. Una vez finalizada la eliminación del circuito, haga clic en Aceptar en el cuadro de diálogo. Haga clic en el botón Create y reconstruya el circuito con los mismos parámetros documentados en el paso 4 de este procedimiento.

| 😭 Cisco Transport Controller | • - 63 | 1991 - I | 10e- | | | | | _ 🗆 X |
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| Circuit Name 🗸 | Type | Size | Dir | State | Source | Destination | VLANs | Spans |
| Test0001 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/V1-1 | Node3/s16/81/V1-1 | | 1 |
| Test:0002 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/V2-1 | Node3/s16/S1/V3-1 | | 3 |
| Test0003 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/31/V3-1 | Node3/s16/S1/94-1 | | 3 |
| Test0004 | VT | 1.5 | 2-way | ACTIVE | Nodel/s16/S1/V4-1 | Node3/#16/S1/W5-1 | | 3 |
| Test0005 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/VS-1 | Node3/s16/S1/V6-1 | | 3 |
| Test0006 | VT | 1.5 | 2-way | ACTIVE | Node1/s16/S1/V6-1 | Node3/s16/S1/97-1 | | 3 |
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Información Relacionada

- Las mejores prácticas para la configuración de circuitos en el ONS 15454
- <u>Soporte Técnico y Documentación Cisco Systems</u>