

# 在帧中继上配置带有本地确认的 BSTUN 点对点连接

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## 简介

Bisync Serial Tunnel (BSTUN)功能使得支持使用双同步数据链路协议的设备。此协议使得企业在支持他们的系统网络体系结构(SNA)和多协议数据流的同一个网络上传输Bisync数据流，减少对独立的双同步设备的需求。使用帧中继，您可以使用本地确认功能提供会话在BSTUN对等体的本地终结。

在本例中，BSTUN点对点配置了帧中继上的本地确认。在`show bstun`命令输出中的相关状态在本文中被标记。

**注意：**虽然`debug bstun packet/event`和`debug bsc packet/event`命令不应导致CPU使用率过高，但`logging buffered`命令用于将输出复制到日志文件。

## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

本文档中的信息基于Cisco IOS®软件版本12.1(5)。

### 规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

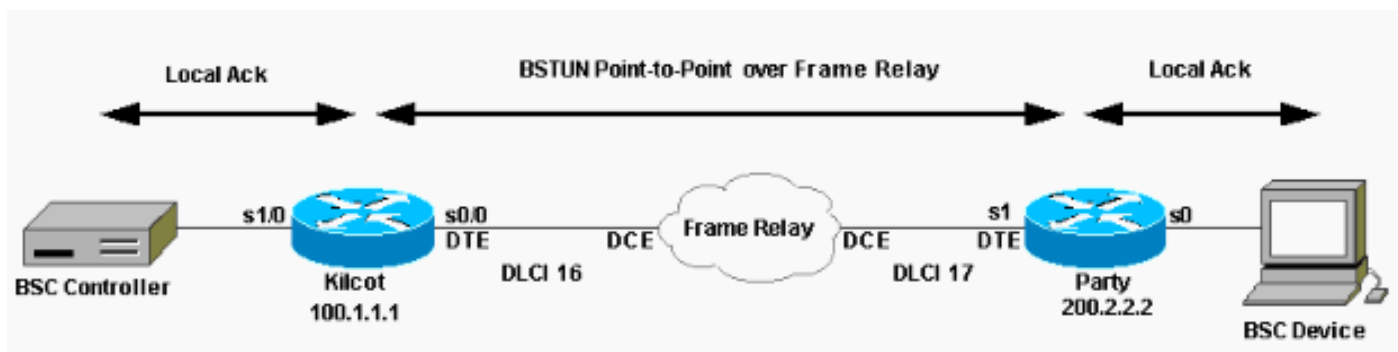
## 配置

本部分提供有关如何配置本文档所述功能的信息。

注：要查找有关本文档中使用的命令的其他信息，请使用 [命令查找工具](#) (仅注册客户)。

## 网络图

本文档使用以下网络设置：



## 配置

本文档使用以下配置：

### 基尔科

```
Building configuration
!
version 12.1
service timestamps debug datetime msec
!
hostname kilcot
!
!
bstun peer-name 100.1.1.1
bstun protocol-group 72 bsc-local-ack
!
!
interface Loopback0
ip address 100.1.1.1 255.0.0.0
!
interface Serial0/0
ip address 10.1.1.1 255.0.0.0
encapsulation frame-relay
no ip mroute-cache
frame-relay interface-dlci 16
frame-relay lmi-type ansi
!
interface Serial1/0
no ip address
ip directed-broadcast
encapsulation bstun
no ip mroute-cache
```

```
no keepalive
full-duplex
clockrate 9600
bstun group 72
bsc secondary
bstun route all tcp 200.2.2.2
!
!
router rip
network 10.0.0.0
network 100.0.0.0
!
end
```

## 政党

```
Building configuration...

version 12.1
!
service timestamps debug datetime msec
!
hostname party
!
bstun peer-name 200.2.2.2
bstun protocol-group 72 bsc-local-ack
!
!
interface Loopback0
ip address 200.2.2.2 255.255.255.0
!
interface Serial0
no ip address
encapsulation bstun
load-interval 30
no keepalive
full-duplex
clockrate 9600
bstun group 72
bsc primary
bstun route all tcp 100.1.1.1
!
interface Serial1
ip address 10.1.1.2 255.0.0.0
encapsulation frame-relay IETF
no ip mroute-cache
frame-relay interface-dlci 17
frame-relay lmi-type ansi
!
!
router rip
network 10.0.0.0
network 200.2.2.0
!
end
```

## 验证

本部分提供的信息可帮助您确认您的配置是否可正常运行。

[命令输出解释程序工具（仅限注册用户）支持某些 show 命令](#)，使用此工具可以查看对 show 命令

## 输出的分析。

- **show bstun**
- **show bsc**

```
kilcot#show bsc
BSC local-ack on Serial1/0:
secondary state is CU_Idle.
Control units on this interface:

    Poll address: 40. Select address: 60 *CURRENT-CU*
    State is Initializing.
    Tx Counts: 0 frames(total). 0 frames(data). 0 bytes.
    Rx Counts: 3 frames(total). 0 frames(data). 15 bytes.

Total Tx Counts: 0 frames(total). 0 frames(data). 0 bytes.
Total Rx Counts: 19 frames(total). 0 frames(data). 59 bytes.
```

```
kilcot#show bstun
This peer: 100.1.1.1

*Serial1/0 (group 72 [bsc-local-ack])
route transport address          dlci lsap state          rx_pkts tx_pkts  drops
all   TCP          200.2.2.2                open           1         3         0
```

```
party#show bsc
BSC local-ack on Serial0:
primary state is TCU_Polled.
Control units on this interface:

    Poll address: 40. Select address: 60 *CURRENT-CU*
    State is Inactive.
    Tx Counts: 126 frames(total). 0 frames(data). 378 bytes.
    Rx Counts: 0 frames(total). 0 frames(data). 0 bytes.

Total Tx Counts: 126 frames(total). 0 frames(data). 378 bytes.
Total Rx Counts: 0 frames(total). 0 frames(data). 0 bytes.
```

```
party#show bstun
This peer: 200.2.2.2

*Serial0 (group 72 [bsc-local-ack])
route transport address          dlci lsap state          rx_pkts tx_pkts  drops
all   TCP          100.1.1.1                open           3         2         0
```

## 故障排除

本部分提供的信息可用于对配置进行故障排除。

### 故障排除命令

**debug bstun packet/event**和**debug bsc packet/event** 输出已被复制到日志文件。当您解释此 debug 输出时：

- Serial Data Incoming (SDI) - 从同步数据链路控制(SDLC)接口接收的数据包。
- Network Data Incoming (NDI) - 从广域网解封装的数据包。

**注意：**在发出 debug 命令之前，请参阅[有关 debug 命令的重要信息](#)。

kilcot#show log

```
Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)
  Console logging: disabled
  Monitor logging: level debugging, 0 messages logged
  Buffer logging: level debugging, 5088 messages logged
  Trap logging: level informational, 70 message lines logged
```

Log Buffer (100000 bytes):

```
Dec 28 09:43:21.748: BSC: Serial1/0: POLLEE-FSM event: E_LineUp old_state: CU_Down. new_state:
CU_Idle.
Dec 28 09:43:21.756: BSC: Serial1/0: SDI-rx: Data (5 bytes): 40407F7F2D
Dec 28 09:43:36.756: BSTUN bsc-local-ack: Serial1/0 SDI: Data: 401100
Dec 28 09:43:36.756: BSTUN: Change state for peer (all[72])200.2.2.2/1976 (closed->opening)
Dec 28 09:43:36.756: BSC: Serial1/0: POLLEE-FSM event: E_RxEnq
Dec 28 09:43:36.760: BSTUN: Change state for peer (all[72])200.2.2.2/1976 (opening->open wait)
Dec 28 09:43:36.764: %BSTUN-6-OPENING: CONN: opening peer (all[72])200.2.2.2/1976, 3
Dec 28 09:43:36.792: bsttcpd_connect: Refreshing tcp_encaps for group 72
Dec 28 09:43:36.792: %BSTUN-6-OPENED: CONN: peer (all[72])200.2.2.2/1976 opened, [previous
state open wait]
Dec 28 09:43:36.792: BSTUN: Change state for peer (all[72])200.2.2.2/1976 (open wait->open)
Dec 28 09:43:36.844: BSTUN bsc-local-ack: Serial1/0 NDI: Data: 401400
Dec 28 09:43:36.848: BSC: Serial1/0: NDI-rx: Data (3 bytes): 401400
Dec 28 09:43:37.640: %SYS-5-CONFIG_I: Configured from console by vty0
```

party#show log

```
Syslog logging: enabled (0 messages
dropped, 0 flushes, 0 overruns)
  Console logging: disabled
  Monitor logging: level debugging, 114 messages logged
  Logging to: vty2(114)
  Buffer logging: level debugging, 5199 messages logged
  Trap logging: level informational, 79 message lines logged
```

Log Buffer (100000 bytes):

```
ec 28 09:48:09.816: %BSTUN-6-PASSIVEOPEN: passive open 100.1.1.1(11017) -> 1976
Dec 28 09:48:09.836: %BSTUN-6-OPENED: PHDR: peer (all[72])100.1.1.1/1976 opened, [previous
state closed]
Dec 28 09:48:09.836: BSTUN: Change state for peer (all[72])100.1.1.1/1976 (closed->open)
Dec 28 09:48:09.836: BSTUN bsc-local-ack: Serial0 NDI: Data: 401100
Dec 28 09:48:09.836: BSC: Serial0: NDI-rx: Data (3 bytes): 401100
Dec 28 09:48:09.836: BSTUN bsc-local-ack: Serial0 SDI: Data: 401400
Dec 28 09:48:09.836: BSC: Serial0: SDI-tx: Data (10 bytes): 37FF32323240407F7F2D
```

## [相关信息](#)

- [STUN 支持页面](#)
- [关于配置 STUN 和 BSTUN 的思科文档](#)
- [IBM SNA支持页](#)
- [技术支持 - Cisco Systems](#)