

# Bisync IP



Binary Synchronous Communications (Bisync) IP (BIP) is a cost-effective solution that addresses the requirements of customers who want to connect their existing Bisync automated teller machine (ATM) cash machines to their Tandem (Compaq Himalaya) mainframe host running BASE24 application software from ACI Worldwide.

BIP is a feature in the Cisco IOS® Software that enables customers to attach Bisync ATM cash machines to a serial interface on a Cisco router and then route the data over TCP/IP to the LAN-attached Tandem (Compaq Himalaya) mainframe host. BIP enables enterprises to transport Bisync traffic over the same network that supports their SNA and multiprotocol traffic, eliminating the need for separate Bisync WAN facilities. BIP is supported on Cisco 1600, 1700, 2500, 2600, 3600, and 7200 Series routers.

BIP uses the current block serial tunneling (BSTUN) implementation in the Cisco IOS Software IBM feature set and further enhances it to remove the serial connection restriction to the mainframe host. The Cisco BSTUN implementation assumes that all Bisync devices are serially attached directly to the mainframe. With BSTUN, the two routers, one at the tail end (access end to the ATM) and the other at the head end (usually in the data center), terminate the serial lines and then send the traffic encapsulated over a common WAN medium along with the SNA and multiprotocol traffic. Because BSTUN requires serial connection to the host, it is an expensive solution for the customer that requires an investment either in expensive serial connections on the host or in an expensive front-end external serial processor. The BIP enhancement eliminates the need for serial connections by supporting connection to the LAN-attached Tandem (Compaq Himalaya) host and at the same time eliminating the need for the head-end router by terminating the connection directly at the mainframe host in TCP/IP.

BIP transports the Bisync ATM data stream by encapsulating it into TCP/IP at the tail-end access router. This encapsulated ATM data stream is then transported over TCP/IP from the tail-end access router and terminated into the LAN-attached host running the BASE24 software application from ACI Worldwide.

## Features and Benefits

Feature	Benefit
BIP terminates TCP/IP from the access router all the way into the LAN-attached Tandem (Compaq Himalaya) mainframe host.	Customers can reduce cost by getting rid of their ATM serial connections on the mainframe host or eliminating their expensive serial front-end processor to the host.
BIP does not require a data center head router because data is terminated directly into the Tandem (Compaq Himalaya) mainframe host.	Customers can reduce data center costs by eliminating the data center router or using for other multiservice applications.

Feature	Benefit
BIP delivers ATM Bisync data encapsulated in TCP/IP.	Customers get the benefit of the dynamic aspects of TCP/IP transport, resulting in improved system performance because of multiple paths for data delivery and removal of potential points of failure.
	Customers can consolidate their network to a single TCP/IP-based network and can eliminate the Bisync network they had to maintain in parallel before.
BIP takes the input from existing Bisync ATMs without any changes to the end points (ATMs).	Customers do not have to replace their existing Bisync ATMs with more expensive TCP/IP ATMs.

## Specifications

### Connectivity

The Bisync ATM is connected to a serial interface on a Cisco router that is running the BIP feature in the Cisco IOS Software. BIP encapsulates the Bisync data into TCP/IP. This data is then routed over a TCP/IP network directly to an IP-based Tandem host that implements ACI BASE24 software.

The Bisync ATM connecting to the Cisco router can either be point-to-point or a single device on a 3270 control unit in a multipoint configuration.

### Options

BIP runs in Cisco IOS Release 12.2(4)T and is supported on the Cisco 1600, 1700, 2500, 2600, 3600, and 7200 Series routers.

### MIBS

BIP requires BSTUN, which supports the Cisco BSTUN MIB.

### Network Management

Network management is supported through Simple Network Management Protocol (SNMP) and show commands.

An SNMP trap is issued when the Bisync ATM stops responding to polls and is placed in the slow poll list.



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