

Software Product Description

PRODUCT NAME: StrataCom IPX 16/32 Priority Bumping Software,
Releases 5.3 and 6.0

SPD 43.52.00

DESCRIPTION

StrataCom® IPX® 16/32 Priority Bumping Software is produced by StrataCom, Inc. and distributed, warranted, and serviced by Digital Equipment Corporation. The StrataCom IPX 16/32 System Software provides operating system support for the StrataCom IPX 16 and IPX 32 System Units. The IPX 16/32 Priority Bumping Software provides an additional software application layer. Together, the IPX 16/32 Priority Bumping Software, the IPX 16/32 System Software, and the IPX 16 or IPX 32 hardware, provide the functionality described below.

The StrataCom IPX 16 and IPX 32 are digital network processing systems that are used to interconnect computers, PBXs, and other communications equipment in a private corporate network environment. The IPX 16 and IPX 32 are used to build digital networks, integrating data, voice, video, and FAX over high-speed digital transmission services.

The IPX 16 and IPX 32 are large systems capable of backbone network applications, such as interconnecting corporate offices and manufacturing sites. The IPX 16 and IPX 32 are both floor-standing units. The IPX 16 is a single-shelf system with 16 card slots. The IPX 32 is a double-shelf system with 32 card slots. Each system has one or two Processor Control Cards (PCCs) and up to four AC or DC power supplies.

The IPX 16 and IPX 32 provide a Muxbus bandwidth of 32 Mbits available without limitations for ports or trunk traffics. For example, the IPX could handle seven E1 trunk lines and up to eight E1 circuit lines occupying the whole slot capacity. The IPX 32 does not have more Muxbus bandwidth but offers twice as many slots for interfacing more applications.

Priority Bumping

Priority Bumping application software provides two capabilities:

- Priority Bumping

If enabled, the network will automatically bump connections with lower classes of service (COS) in order to route higher priority connections. There are 16 COS defined network-wide. Before the 5.3 software release, 64 COS were available for the connections. COS range from 0 to 15.

Note: At connection configuration the default value of a connection class of service is 0.

- Bandwidth Reservation

If enabled, the StrataCom IPX can reserve bandwidth for a special application (e.g., video) by collecting bandwidth from existing connections ahead of time. The courtesy down feature will bring down voice connections that have gone on-hook. The operator may also choose to abruptly force down data or off-hook voice connections to make up the balance of the reserved bandwidth. The bandwidth can be later returned to their normal applications by the operator or by predefined jobs.

Network Configuration Guidelines

A Priority Bumping software license must be purchased for every StrataCom IPX node in the network if the Priority Bumping functionality is desired.

IPX 16 and IPX 32 System Units may coexist in the same IPX network, but all must be operating with at least Release 5.3 System Software.

Two IPX System Units must be connected via two T1/E1 trunk lines to form a minimum IPX network and exercise rerouting.

INSTALLATION

The StrataCom IPX 16/32 Priority Bumping Software is factory loaded in Flash EPROM, which resides on the Processor Control Card within the StrataCom IPX 16/32 System Hardware Unit. However, the Priority Bumping functionality must be keyed on via a software switch.

The purchase of a Priority Bumping software license includes remote turn-on of Priority Bumping functionality.

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Digital recommends that installation services be purchased with this product. These services provide for installation and parameter setting of the hardware and software by an experienced Digital specialist.

Customer Responsibilities

Before Priority Bumping installation can be done by Digital, the customer must:

- Ensure all prerequisite Priority Bumping hardware and software requirements are met.
- Make available for a reasonable period of time, as mutually agreed to by Digital and the customer, all hardware, communication facilities, and terminals that are to be used during installation.
- Make available a modem and telephone line for remote installation.

HARDWARE REQUIREMENTS

One of the following system hardware units is required to run the StrataCom IPX 16/32 Priority Bumping Software Product.

StrataCom IPX 16 CEPT/CISPR System Unit, Processor Control Card Model H, Flash EPROM, 48VDC, 600W power supply, StrataCom IPX 6.0 System Software License	DIXSA-BJ
StrataCom IPX 16 CISPR System Unit, Processor Control Card Model H, Flash EPROM, 48VDC, 600W power supply, StrataCom IPX 6.0 System Software License	DIXSA-BK
StrataCom IPX 16 CEPT/CISPR System Unit, Processor Control Card Model H, Flash EPROM, 240VAC, 600W power supply, StrataCom IPX 6.0 System Software License	DIXSA-BL
StrataCom IPX 16 CISPR System Unit, Processor Control Card Model H, Flash EPROM, 208VAC, 600W power supply, StrataCom IPX 6.0 System Software License	DIXSA-BM
StrataCom IPX 32 CEPT/CISPR System Unit, Processor Control Card Model H, Flash EPROM, two 48VDC, 600W power supplies, StrataCom IPX 6.0 System Software License	DIXSA-CJ
StrataCom IPX 32 CISPR System Unit, Processor Control Card Model H, Flash EPROM, two 48VDC, 600W power supplies, StrataCom IPX 6.0 System Software License	DIXSA-CK
StrataCom IPX 32 CEPT/CISPR System Unit, Processor Control Card Model H, Flash EPROM, two 240VAC, 600W power supplies, StrataCom IPX 6.0 System Software License	DIXSA-CL

StrataCom IPX 32 CISPR System Unit, Processor Control Card Model H, Flash EPROM, two 208VAC, 600W power supplies, StrataCom IPX 6.0 System Software License

DIXSA-CM

Hardware Requirements for Optional Services

Remote Diagnostic Service: As part of Digital's set of integrated product services, remote diagnostic support of the StrataCom IPX 16 and IPX 32 may be available from a Digital Support Center. To receive this remote diagnostic service, a CCITT V.32 compliant, 9600bps, full duplex, asynchronous modem is required to be connected to the CONTROL TERMINAL PORT (RS232) on the Processor Control Card located in the StrataCom IPX System Hardware Unit. The customer must maintain a dial-in communications line to the modem.

Remote Alarm Monitoring: Remote alarm monitoring is another available service feature and requires that an additional dial-out modem be connected to the AUX PORT (RS232) on the Processor Control Card.

OPTIONAL HARDWARE

No optional hardware related to Priority Bumping is available. The IPX 16 and IPX 32 can be uniquely configured to fit the requirements of the customer's network. A number of other hardware options are available. Refer to the StrataCom IPX 16/32 System Software Product Description (SPD 45.43.xx).

SOFTWARE REQUIREMENTS

None

SOFTWARE LICENSING

A separate Priority Bumping software license is required for each StrataCom IPX 16 or IPX 32 System Hardware Unit that will run the Priority Bumping feature within the customer's IPX network. The software may be copied in its entirety solely for back-up or archival purposes, or for downline loading to all properly licensed StrataCom IPX System Hardware Units within a network.

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

ORDERING INFORMATION

Software License: QB-MTVAA-WA

SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, contact your local Digital office.

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product. The software product is warranted to conform to the Software Product Description (SPD). Digital will remedy any non-conformance when it is reported to Digital by the customer during the warranty period.

The warranty period is one year. The warranty period begins when the software is installed or thirty days after delivery to the end user, whichever occurs first, and expires 360 days later. All warranty related support for this software will end 180 days after release of a subsequent version.

Warranty is provided in the country of purchase in accordance with the provisions of Digital Equipment Corporation's Standard Terms and Conditions of Sale. Digital will provide the following services if the customer encounters a problem when using licensed software under normal conditions as defined by the SPD:

- If Digital also determines the problem to be a defect in the Software Product, Digital will provide remedial service on site if necessary to apply a temporary correction or make a reasonable attempt to develop an emergency bypass if the software is inoperable.
- Assist the customer in preparing a Software Performance Report (SPR). If a customer diagnosis indicates the problem is caused by a defect in the Software Product, the customer may submit an SPR to Digital.

Digital will respond to a problem reported in an SPR that is caused by a defect in the current, unaltered release of the Software Product. The response will provide temporary corrections, useful emergency by-passes and/or notice of the availability of the corrected software code.

Telephone support may be available from the Digital Telephone Support Center. Please contact your local Digital office for information on the provision of telephone support as part of the warranty.

DIGITAL DOES NOT WARRANT THAT THE SOFTWARE LICENSED TO THE CUSTOMER SHALL BE ERROR FREE, THAT THE SOFTWARE SHALL OPERATE WITH ANY HARDWARE AND SOFTWARE OTHER THAN SPECIFIED IN THIS SPD, THAT THE SOFTWARE SHALL SATISFY THE CUSTOMER'S OWN SPECIFIC REQUIREMENTS, OR THAT COPIES

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