COMMUNICATION

ComC IBM SNA

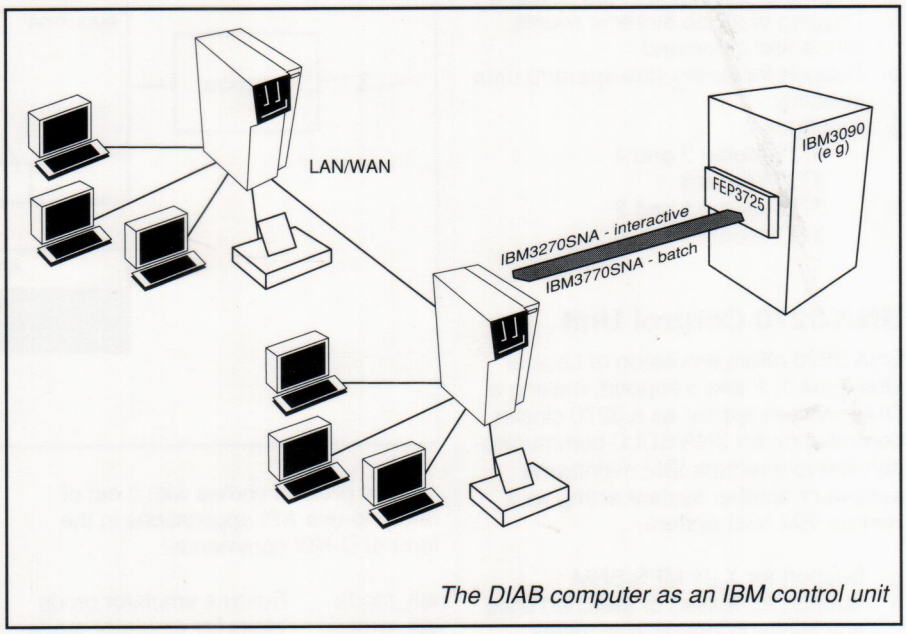
■ SNA 3270 ■ SNA 3770 ■ 3270 API ■ QLLC

The Diab Data SNA 3270 cluster emulator and SNA 3770 RJE station enables connection between an IBM or compatible mainframe computer system supporting the System Network Architecture.

- **Emulates SNA control units**
- **Emulates 3270 terminals and 3280 printers**
- **Emulates 3770 RJE stations**

These building block can be combined in a computer system or a network. In a network, the DIAB computer may serve as a gateway to the mainframe. Other DIAB computers in the network may provide 3270/3770 emulators operating against the control unit, or the control units, in the gateway computer.

- **Simultaneous multiple communication lines against more than one host**
- **up to nine simultaneous terminal sessions per work station**
- **ASCII/EBDIC conversion and vice versa**
- **Sharing of each multi-dropped communication line with other SNA devices**
- **Up to 255 Logical Units per Physical Unit**
- **Static or dynamic LU allocation**
- **Several PU's per computer system**
- **Operation at 64 kbit/s**
- **Supports the SDLC and QLLC protocols**
- **Supports SHM (Short Hold Mode) and MPS (Multi Port Sharing)**
- **Also offers support for:**
  - leased or switched lines
  -X.21 and X.21 bis
  -X.25
- **Support for 3270API applications**



The DIAB computer as an IBM control unit

SNA 3270

The SNA 3270 emulator includes functions that give software emulation of 3270 display and 3280 printers. In this case, a standard asynchronous terminal is used for the 3270 display emulation. Up to nine sessions may be active from each terminal. Standard printers, connected either directly or via the DIAB spooler, are used for the 3280 printer emulation.

Up to 255 3270 devices (terminals or printers) can be supported by the Physical Unit. Terminal LU allocation may be performed statically or dynamically.

The emulator supports an 3270 SNA display including screen attributes, etc.

SNA 3270 Features

- 3270 displays are LU Type 2
- 3280 printers are either LU Type 1 or LU Type 3
- Flexible keyboard configuration
- Audible alarm
- Emulates
  - 3274CU+DS Model 1C
  - 3276CU+DS Model 2
  - 3276CU+DS Model 12
  - 3278DS Model 2 (for operation with 3276 or 3274)
  - 3287P Model 1 and 2
  - 3289P

SNA 3770 emulator

The SNA/RJE emulator for the DIAB computer emulates the operation of an IBM 3770 Single Logical Unit Remote Job Entry station. All SNA compatible 3770 RJE stations operate as LU Type 1.

SNA/RJE supports the operational feature of the standard IBM 3770 RJE station. The hardware emulation facility allows a user of the DIAB computer to interactively become the SNA/RJE station operator and route jobs to the remote IBM host for execution.

SNA/RJE accepts standard on-line modes for both send and receive data stream types. Support is provided for normal and spooling modes of transmission. Batch transfer can easily be performed in background, for instance via D-NIX Shell scripts.

SNA 3770 Emulator Feature

- SNA/RJE emulates the operation of 3770 Single Logical Unit RJE station
- The 3770 RJE station supports the following devices:
  - Card-reader
  - Card-punch
  - Printer
  - Console

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- o Spooling and Normal modes for send and receive
- o Use of DS90 spooler function
- o Data decompression in receive mode
- o Display of the status of job streams
- o Logging of all job streams events, errors and command
- o Support for Binary (transparent) data streams
- o Emulates
  - 3776 Model 3 and 4
  - 3777 Model 3
  - 3776 Model 1 and 2
  - 3777 Model 1

SNA 3270 Control Unit

SNA 3270 offers emulation of Logical Unit Type 1, 2 and 3 support, making a DIAB system appear as a 3270 cluster controller on an SNA/SDLC communication line to a remote IBM mainframe system or another system acting as a remote IBM host system.

- o Support for X.21 MPS/SHM
- o Support for leased or switched lines and Hayes compatible modems
- o Data may be NRZ or NRZI encoded
- o Offers support for automatic shut-down of inactive lines
- o Support SDLC when communicating via leased or switched lines as well as X.21
- o Supports QLLC when communicating via X.25.

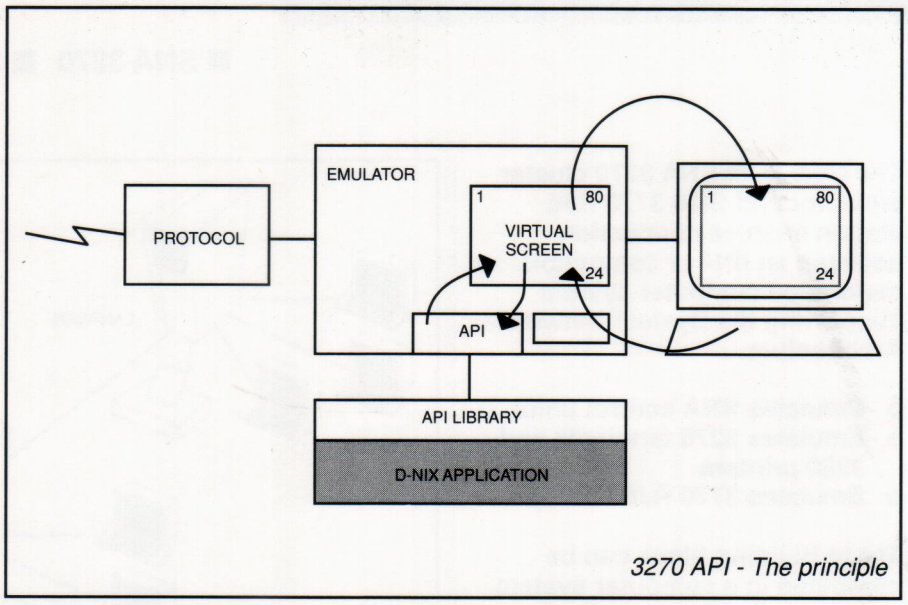
API - Application Program Interface

The application program interface is an extension of the SNA 3270 product and is fully compatible with IBM'S 3270 Application Program interface. The API permits access to the presentation memory of the terminal emulator from user defined processes. The API program can be used in conjunction with the capabilities of D-NIX to improve the ability of the D-NIX developer to conduct interactive sessions with an IBM host application.

The API allows a user to generate a host transaction from a D-NIX application program, enables the user to read data from a host session into a D-NIX process, simplifies operator interaction with D-NIX process control functions and it simplifies host interaction and set up.

The API product comprises a C function library that is linked into the user's applications.

API also has support for muli-session-API programs.



3270 API - The principle

The product comes with a set of ready-to-use API applications in the form of D-NIX commands:

api_mode	Returns emulator mode
api_wmode	Waits for emulator mode
api_getp	Returns prompt position
api_wgetp	Waits for prompt to reach position
api_finds	Looks for and returns position of text string
api_wfinds	Returns position of text string
api_gets	Returns text string at position
api_waits	Waits for text string in position
api_puts	Write text string at position

QLLC

The QLLC option enables X.25 communication between a DIAB computer and mainframes supporting IBM SNA 3270/3770. QLLC is the linking protocol used in this kind och connections.

System requirements

Any DIAB system (model 20 or larger). ComC Main Software 072-8385-XX is also required

Ordering information

072-8413-XX SNA 3270 for ComC
072-8414-XX SNA 3770 for ComC
072-8421-XX QLLC for ComC
072-8420-XX 3270 API for ComC

XX is computer related, see price list for further information.

Diab Data /038 /113 /1500 /Promotive