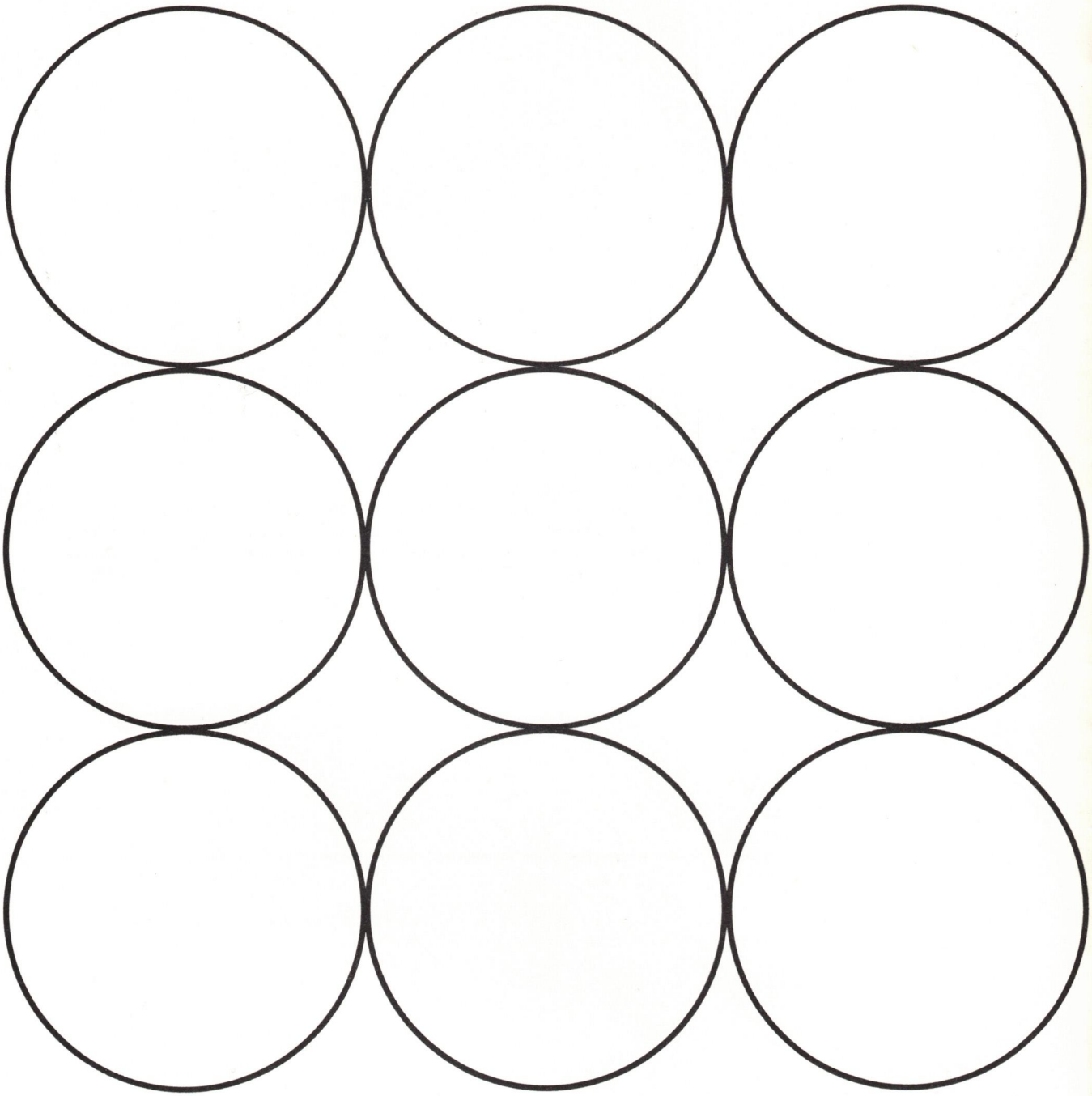
ROCS

RCNET



RCNET STANDARD SOFTWARE PACKAGES

ROCS Interactive On-Line System.
Network package offering transaction handling and network control facilities enabling different 3270 terminals to connect to several Host computers through a leased line network or through an X.25 network service.

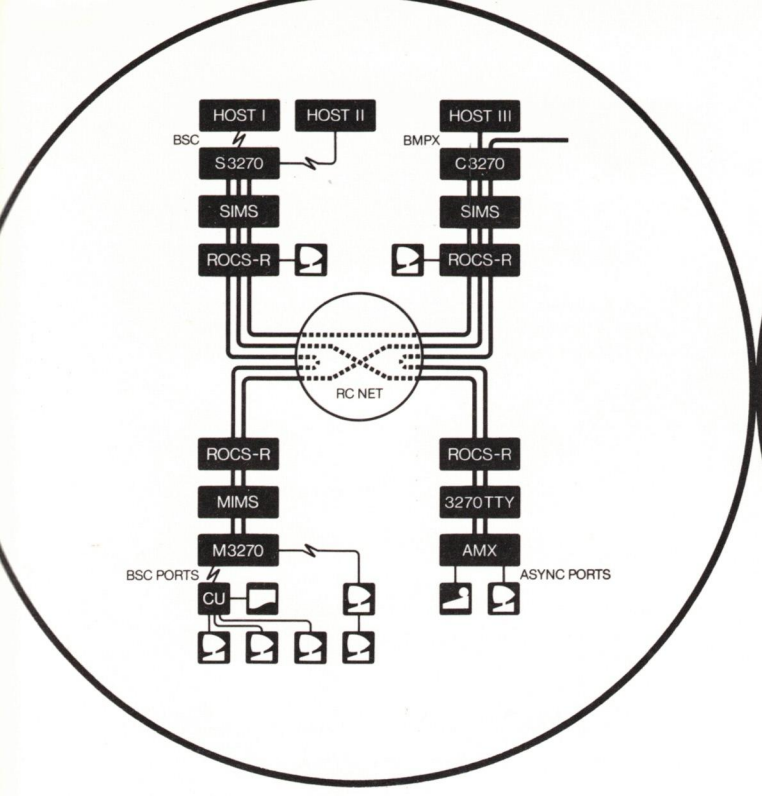
RCTS Bulk- and File Transfer System.
Frame system specially designed for bulk- and filetransfers in network and front-end environments. Supplies the user with a safe liaison service appropriate for tasks like: remote printing, data collection/data distribution and RJE. Operates on leased lines as well as on X.25 services.

X.25 Services.
Network package which enables the establishment of as well multinode X.25 networks as single X.25 communication switches. Links can be established between a RCNET/X.25 network and a public X.25 service. The X.25 DTE module is a service module, which enables user programs to utilize X.25.

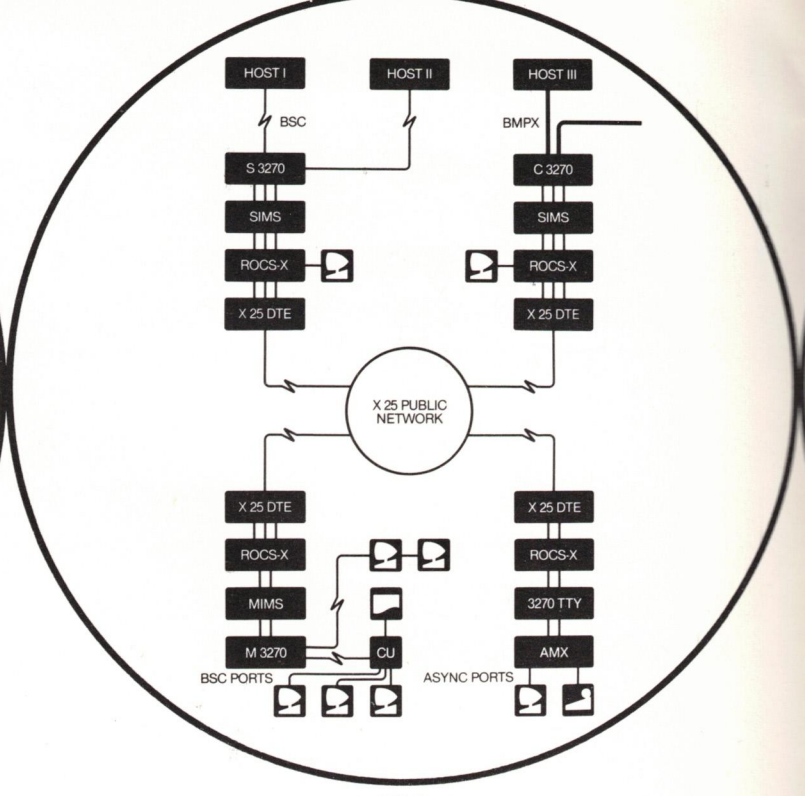
NOC Network Operational Center.
Software system which enables complete monitoring and control of all RCNET nodes within a network. Includes statistics retrieval, remote control, test- and trace facilities and remote down-line loading of all nodes.

RCNET Service Modules.
Protocol modules for synchronous communication and channel connections to IBM-mainframes:

- 2780/3780/360-25 BSC
- 3271 Master/Slave
- Univac 9000 NTR
- 200 UT/DCT 1000
- SDLC Primary/Secondary.
- 3272 channel access
- Unit/Record channel access (supports 1403, 3504/5, 3525 and 3215).



ROCS-R



ROCS-X

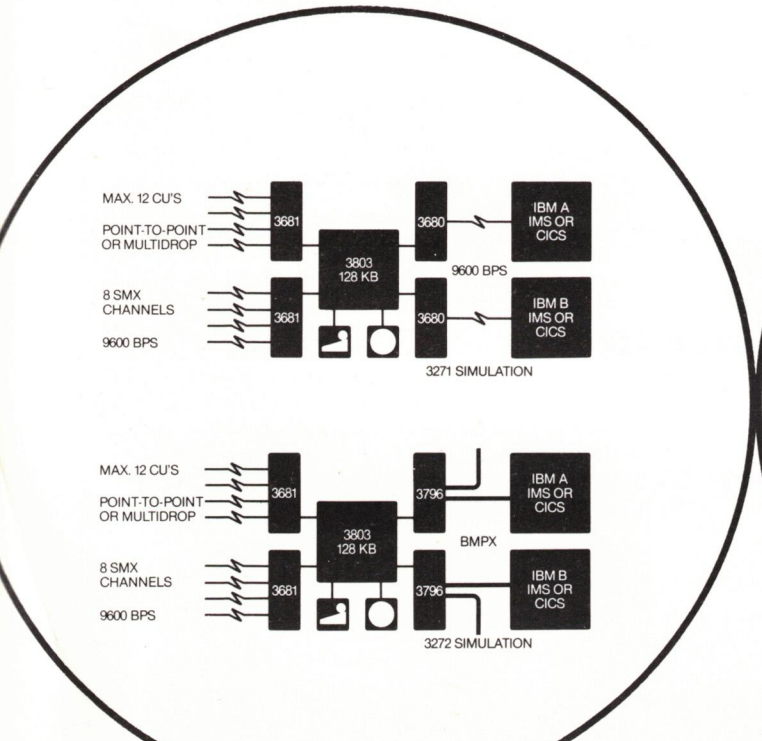
LOGICAL STRUCTURE

The software modules shown are all MUS/DOMUS processes which perform well defined functions. RCNET or X.25 DTE realizes the lower 3 levels of the ISO model (Open Systems Interconnection). ROCS contains transport control as well as session control primitives (level 4-5) and offers operator control and supervision. MIMS and SIMS maps the internal ROCS dataformats into the physical formats required by M3270 and S3270 or C3270 respectively. FMAP interfaces to the RC8000 transaction system F8000 via NCP and a high speed channel.

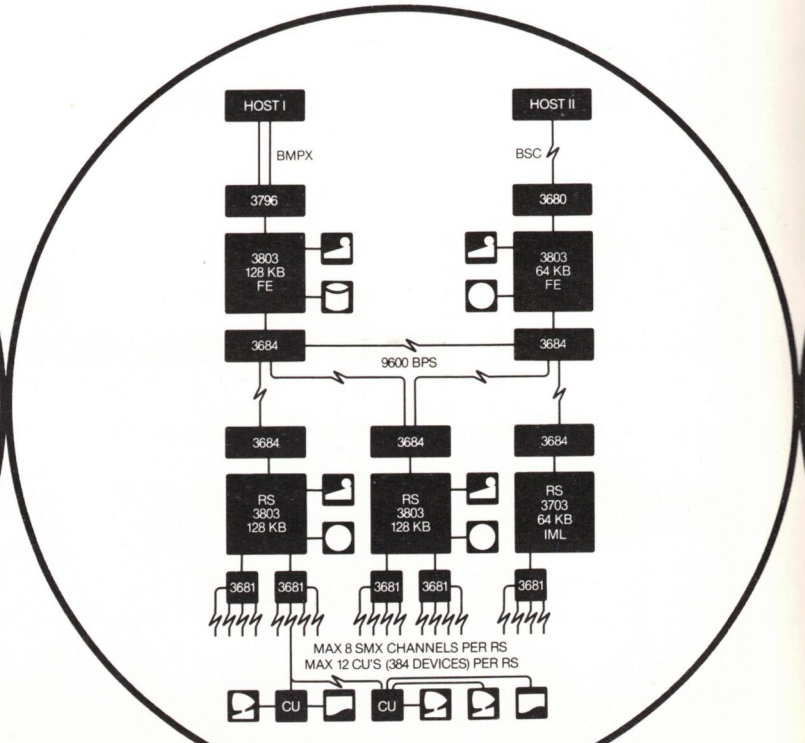
CONFIGURATION EXAMPLES

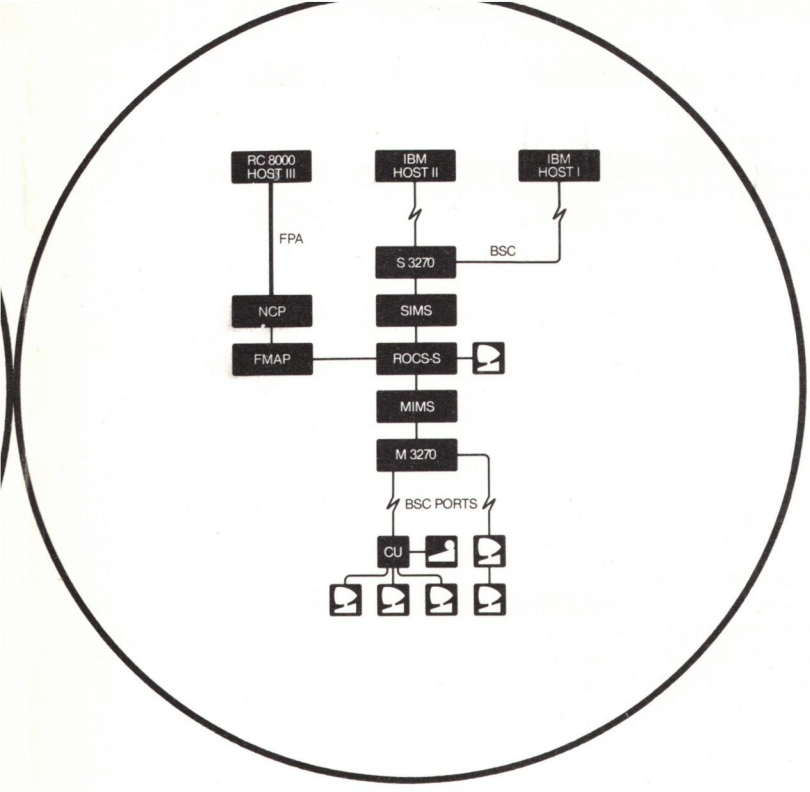
- One FE processor accommodates up to 8 RS systems and 3 3271 links to host computers or 2 channel connections to IBM mainframes.
- One RS processor contains up to 8 BSC ports with a total of 12 CU's connected (point-to-point and/or multidrop). One RS is thus able to connect up to 384 devices.
- The RS and FE processor accommodates up to 8 HDLC links.
- Speed of BSC links: max. 9600 bps
- Speed of HDLC li
- Total effective thro 100 kbps.
- The X.25 DTE ope ously (transaction plexed on one VC

ROCS - IBM FRONT ENDS



ROCS-R NETWORK





ROCS-S

ROCS - General Description

ROCS is a communication system which offers transaction handling and network control facilities enabling different 3270 dialog terminals to access several host computers.

The system allows that each individual terminal may select any of the host computers and the host computers may also exchange transactions.

ROCS performs the session and transport control and supports the following subnetworks:

- RCNET packet switching nodes based on leased lines (ROCS-R).
- X.25 packet switching services, public or private (ROCS-X).

Furthermore the ROCS system is available as a single communication switch with no multiple node support (ROCS-S).

The system operates on the RC3803 processor (128 KB memory) with the MUS/DOMUS operating system.

The basic items in a ROCS network are:

- Front-end processors (FE) which connect to the host computers via 3270 BSC communication links (simulating 3271 CU's) or front-end systems which connect to IBM host computers on the block multiplexor channel (BMPX) simulating 3272 local control units (thus letting remote 3270 VDU's connect as local VDU's). Front-end processors may also connect to RC8000 Host computers via a high-speed channel (FPA).
- Remote systems (RS) which connect a number of 3271 cluster systems to ROCS. Point-to-point BSC links as well as multipoint links are supported. Customer specified conversions to other terminal types, e.g. asynchronous terminals are easily incorporated.

ROCS encounters a dynamic address allocation scheme which offers the following types of session administration.

- A terminal address is permanently allocated to one host computer and the allocation can only be changed via the console on the front-end system.

- Through Log-on/Log-off sequences the user at each terminal may specify the host address. Symbolic names refer either to a single address or to a group of addresses, e.g. a host computer.

- Function keys on the 3270 VDU system may be allocated to allow a more simple and dynamic selection scheme.

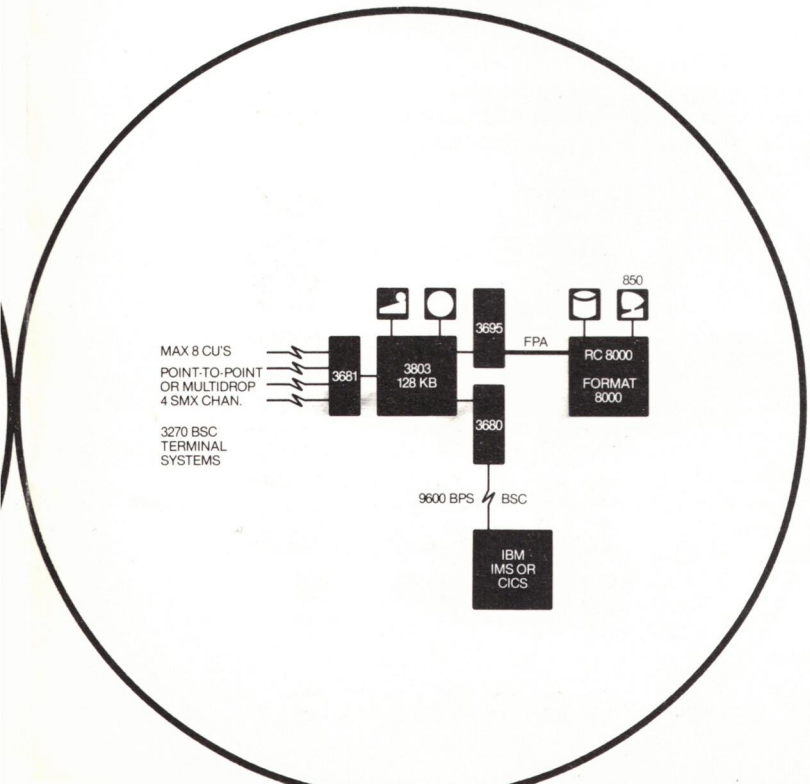
The ROCS system may coexist with other RCNET facilities (e.g. RCTS) or user defined functions. The RC3803 processor system can be expanded to a multiprocessor system with a number of RC3803 CPU's interlinked via a common bus. Multiprocessor systems are supported by all RCNET software.

.C link: max. 48 kbps

throughput of a single processor:

operates with up to 32 VC's simultane-
tions from several devices are multi-
e VC).

RC8000/IBM FRONT END



JERSILD/BBDO

RC COMPUTER
AS REGNECENTRALEN af 1979

HEAD OFFICE:
LAUTRUPBJERG 1 - DK 2750 BALLERUP - DENMARK
Phone: + 45 2 65 80 00 - Cables: rcbalrc - Telex: 35 214 rcbaldk

FINLAND
RC SCANIPS OY
Espoo, 0 51 35 22

FRANCE
RC COMPUTER S.A.R.L.
Paris, 12 33 53 63

HOLLAND
REGNECENTRALEN (NEDERLAND) B.V.
Gouda 1820-29455

KUWAIT
KUWAITI DANISH COMPUTER CO. S.A.K.
Safat, 83 01 60

NORWAY
A/S RC DATA
Jessheim 29 70 220

PHILIPPINES
CARDINAL ELECTRONICS CORPORATION
Metro Manila, 88 24 78

SWEDEN
SCANIPS DATA AB
Stockholm, 8 34 91 55

SWITZERLAND
RC COMPUTER AG
Basel, 61 22 90 71

UNITED KINGDOM
REGNECENTRALEN (UK) LTD.
London, 1 606 3252

UNITED STATES
LOCKHEED ELECTRONICS COMPANY, Inc.
New Jersey, 201 757 1600

WEST GERMANY
RC COMPUTER G.m.b.H.
Frankfurt, 611 66 40 06