

Efficient Message Handling

- Online Switching and Authorisations

The BankWORKS CommServer has advanced the concepts of communications and the distribution of processes. Sharing of jobs, tasks and other processes necessitates the CommServer to have enhanced connectivity with other sections of the integrated system. The CommServer has been designed with a 'system building block' monitoring facility that addresses these required functions. Features include automatic logging, security, recovery, remote monitoring, and plug-in facilities.

Business Applications

The Business Applications used within the system deal with a wide range of communications systems. There are multiple building blocks that may be connected to the CommServer system, including card organisation networks, POS/ATM Networks, Domestic Networks, Payment Gateway etc.

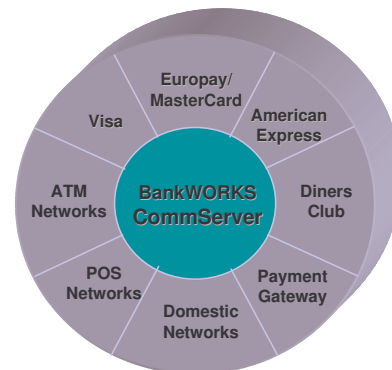
The CommServer is able to distinguish between local processing and foreign data threading. For example, although the starting point of a card transaction may be via an ATM, the CommServer identifies that this transaction must be routed through an international network. The CommServer will detect all the card information relevant to the transaction before passing the transaction to any external connection. The concept of linking a card product directly to a card organisation is an important feature of the CommServer, giving the RS2 Software Group the edge as a total, worldwide, communication and information service provider.

Product Strengths

- Efficient, high-volume message handling 24/7/365
- Scalable solution due to its distributed nature
- B2B platform solution based on XML and corresponding technologies
- Stand-alone solution or Integrated solution with BankWORKS' back-office
- Easy integration to Internet/Web environment and Java Enterprise applications
- Cost-efficient remote monitoring and remote updating
- Easy handling of various messaging protocols, such as voice messaging and video conferencing, to adapt to your business rules.
- Scalable to Business Growth

Distribution of Processes

The decentralised processing structure of the CommServer enables the sharing of processes. Each component of the system decomposes into various Business Processes (BPRs) connected to a node, and for each node, there may exist more than one BPR with the same function. The CommServer for NT BPRs is designed so that whenever a full processing load has been calculated, another BPR with the same processing features will automatically share the load. The LPA decides when and to which BPR to send processes from overloaded BPRs



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Remote Support

The CommServer remote monitoring support consists of a logging, security, and control procedure for both LAN and WAN networks. Remote Monitoring is commonly situated on the User site, where there may be multiple Remote Monitoring installed. However, Remote Monitoring may be installed at remote locations where the administrators of the CommServer would centrally monitor system activity and usage. In this scenario Gateways would be used to connect systems, allowing remote investigations of event logs, system debugging and general problem solving procedures.

Routing of Messages

The distributed components of the system interoperate through the passing of messages. Messages flowing through the system are the bloodstream that keep the body going. Communication messages in and out of the system are based on the ISO 8583 message standard. A number of other protocols are also supported

Network

Network on-line message procedures used with the CommServer follow X.25 and TCP/IP protocols. Other protocols that may be used are BSC3270 and AS 400. Network messages may be transmitted locally using a LAN, Ethernet or Ring network, or remotely using a WAN, point to point or Internet.

CommServer Evolution

– Communicating and Integrating New Technologies

The RS2 Software Group, strongly believes that it is important to provide clients with continuous upgrade solutions in line with market demands and opportunities. This has been an important driving force for extensive research and development, resulting in the development of the NT CommServer; a scalable solution using new technology to promote your business communication requirements in a secure environment.

The CommServer NT design philosophy was engineered to meet the following requirements:

- **'System building block' design** with an emphasis on distinct business process.
- Enables **distribution of business processes** and sharing of resources to process loads.
- Supports **Graphical User Interfaces Parameterisation**
- Engineered to be **easily maintainable** and **flexible** to support all levels of technical and business communication requirements
- Offers a **fault tolerance** solution to ensure **optimal system performance**
- Advanced **multi-tasking** and **memory management** capabilities
- **Message-based architecture** with **enhanced resource management**
- **Simple to use** and **learn**
- **Industry Standards**

Key Features

- Full network connection capability supported for VISA and MasterCard
- Utilises security modules for PIN Verification, messaging authentication, cryptographic data verification and generation
- Secure on-line connection and Message routing based on ISO 8583
- Multi-protocol capability
- Authorisation system for "OWN" cards
- Supports authorisation and management of POS and ATM networks through Network Controller modules
- Support for voice authorisation modules
- Multiple instances can be networked to provide fault tolerance and scalability
- On-line interfaces to external systems can be supported
- Distinguishes between local processing and foreign data threading
- Provides multi-bank support for service providers

RS2 Software Group, providing communication and information services worldwide. Instead of adapting to the outside world yourself the BankWORKS' CommServer will adapt to your host requirements.

Build your future business the profitable way with the RS2 solution

RS2 Software Group

RS2 Software Group is a global provider of Card Payment Solutions, IT Consultancy and related Services to the Financial Services Industry

www.rs2group.com

Germany

Martin-Behaim-Str. 12
D-63263 Neu-Isenburg
Germany
Tel: +49 6102 7300 30
Fax: +49 6102 7300 55
Email: info@rs2group.com

Malta

120/6 The Strand.
Gzira, Malta
Te: +356 21 34 5857
Fax: +356 21 34 3001

Hungary

Margit körút 43-45.
1024 Budapest
Hungary
Tel: +36 121 25 459
Fax: +36 120 14 684