IBM®

IBM ARTour Gateway Extends Corporate Data Network to Mobile Workforce

Overview

The ARTour™ Gateway and Mobile Clients provide cost-effective, secure access to corporate data networks that can greatly increase the productivity of your mobile workforce "Anytime, Anyplace." The ARTour Gateway and Mobile Clients extend your corporate data network to your mobile workforce by providing:

- A standard communications interface (TCP/IP) to a variety of wireless and dial protocols

- Highly optimized and secure access to existing applications

The ARTour Gateway and Mobile Clients are part of IBM's family of mobile communication products, which also includes the ARTour Emulator Express and the ARTour Web Express products.

Intended Customers

Customers whose mobile workforce needs optimized access to the corporate data network over one or more wireless or dial-up connections. Access to existing TCP/IP, 3270/5250, Internet, and intranet applications is provided by the ARTour family of products.

Key Prerequisites

- ARTour Gateway for AIX® requires either AIX V3R2.5 or AIX V4R1.4, or later, or AIX V4R2.

- ARTour Mobile Client for OS/2® requires OS/2 Warp, OS/2 Warp Connect, or OS/2 V4.

- ARTour Mobile Client for Windows® requires Microsoft® Windows V3R1 or V3R11 or Windows for Workgroups V3R11 or Windows 95.

In addition, the ARTour Mobile Client requires TCP/IP.

Planned Availability Date

February 21, 1997

At a Glance

The ARTour Gateway and Mobile Clients provide a mobile workforce with optimized access to their corporate data network. Key features include:

- Standard application interface through TCP/IP or UDP/IP

- Multiprotocol support for wireless and dial networks through a single ARTour Gateway

- Cost-effective data transfer derived from TCP/IP header reduction, data compression, and packet filtering

- Security via encryption and two-party authentication

- Standard SNMP Network Management interface

- Optimized 3270/5250 application support when used with the ARTour Emulator Express Server and Client

- Optimized Internet and intranet support when used with the ARTour Web Express Server and Client

Description

ARTour

IBM provides the ARTour family of software products to meet today's need to make information available to mobile workers over a wide variety of wireless and dial networks without rewriting existing applications. This family of modular servers and clients includes:

- ARTour Gateway and Mobile Clients
- ARTour Emulator Express Server and Client
- ARTour Web Express Server and Client

Together these products provide the widest range of optimized wireless and dial protocol support through standard programming interfaces to existing applications. For announcement materials related to the other ARTour products, refer to Software Announcement 297-027, dated February 18, 1997. Information is also available on the ARTour Web site at URL:

http://www.networking.ibm.com/artour

ARTour Gateway and Mobile Client

The ARTour Gateway and Mobile Clients were designed as an open system that enables Internet Protocol (IP) applications to be accessed over either a wireless or wired network. This access is integrated under a standard interface layer that shields all radio network-specific details from the user application, thus providing the communication link between the mobile client and the customer's existing wireline network. Consequently, the ARTour Gateway and Mobile Clients protect the customer's investment in existing applications while giving them the freedom to enhance the productivity of their mobile workforce by expanding the reach of their existing (LAN or WAN) TCP/IP network. One ARTour Gateway supports multiple packet radio, analog, and digital cellular network protocols, enabling the customer to choose the appropriate networks for geographical coverage and application characteristics. In addition, the ARTour Gateway and Mobile Clients provide various data optimization features to reduce the on-going usage costs of wireless networks. The customer's corporate resources are protected via user authentication and data encryption.

The ARTour Gateway and Mobile Clients are designed to work in a stand-alone environment or with the other ARTour products to add optimized access to 3270, 5250, and/or HTTP applications.

Product Characteristics

Multiprotocol Support: The ARTour Gateway, in conjunction with the ARTour Mobile Client, allows mobile workers to access their companies' computer and network resources over any of the following:

- DATATAC (4000, 5000, 6000) — The connection from the DataTAC network can be either X.25 or TCP/IP.

- Motorola Private Mobile Radio (RNC3000).

- Mobitex — The connection from the Mobitex network is X.25.

- Global System for Mobile Telecommunications (GSM) — The connection from the GSM network can be either PSTN or ISDN.

- Personal Communication System (PCS) 1900.

- Advanced Mobile Phone System (AMPS).

- Public Switch Telephone Network (PSTN).

One ARTour Gateway can support one or more of the above network types.

Standard IP Application Interface

- No proprietary application interface
- Run existing applications

Cost Effective Data Transfer

- TCP/IP Header Reduction
- Data Compression (user option)
- Packet Filtering (user option) to block specific packet types from being transmitted.

Security

- Two-party authentication to prevent unauthorized access (user option)

- Data Encryption to protect from eavesdropping (user option)

Network Management

- Network Configuration via AIX Systems Management Information Tool (SMIT)

- Network Management via SNMP interface to AIX NetView® /6000 or TME 10

Trademarks

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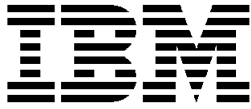
Publications

The following publications can be ordered for a fee after February 21, 1997.

Title	Order Number
ARTour™ Mobile Communications Technical Overview	GC31-8294
ARTour Mobile Communications System Guide	GC31-8297
ARTour Mobile Communications Installing the OS/2® Client	G325-6594
ARTour Mobile Communications Installing the Windows® 3.1 Client	G325-6595
ARTour Mobile Communications Installing the Windows 95 Client	G325-6596

Technical Information

Specified Operating Environment

Hardware Requirements

ARTour Gateway

ARTour Gateway for AIX®, V3R1 runs on all RS/6000™, Power PC, and SP2® systems that support AIX V3R2.5 or V4R1.4, or later, or V4R2, or later.

If you are connecting to any of the following networks, an IBM X.25 coprocessor card is required: DataTAC-SCR, Mobitex, Modacom-SCR. For MCA-bus RS/6000 machines, the IBM X.25 interface Co-processor/2 card is used. For ISA-bus RS/6000 machines, the IBM X.25 interface Co-processor/1 card is used.

If you are connecting to a circuit switched cellular network using RS232 communication (for example, PSTN, GSM, AMPS), an asynchronous adapter and modem are required.

If you are connecting to a GSM-ISDN network, a Diehl Basic Rate ISDN adapter and NetCS netISDN BP software package is required.

- For MCA-bus RS/6000 machines, the Diehl SCOM/2 adapter is used.

- For ISA-bus RS/6000 machines, the Diehl SCOM adapter is used.

If you intend to use both B-channels on the ISDN adapter for either HDLC or V.110 line encoding, specify "double DiTAC" modules for the adapter.

If you are connecting to a DataTAC-TCP or RNC3000 network, refer to your network provider for hardware requirements.

An adapter is required to connect the ARTour Gateway to the IP network (for example, Ethernet or Token Ring).

ARTour Mobile Clients

- A mobile computer with sufficient resources to run prerequisite software

- A modem to support the selected network

Software Requirements

ARTour Gateway for AIX requires one of the following AIX configurations:

- AIX V3R2.5

  - Base operating system
  - Base operating system Extensions 1
  - Base operating system Extensions 2
  - Base operating system Network Facilities
  - Base system Locales
  - Base system Messages
  - PTF U441327 (in order to use the install utility to install ARTour)

- AIX V4R1.4.0, or later

  - Base operating system
  - TCP/IP Server
  - TCP/IP Client
  - AIXLink V1R1.3.0 (if you are using an X.25 adapter)

- AIX V4R2, or later

  - Base operating system
  - TCP/IP Server
  - TCP/IP Client
  - AIXLink V1R1.3.0 (if you are using an X.25 adapter)

In addition, if you want to use ARTour network management, you must have NetView® for AIX V3R1.2, or later, and its prerequisites.

ARTour Mobile Client for OS/2 requires one of the following:

- OS/2 Warp
- OS/2 Warp Connect
- OS/2 V4

and one of the following:

- Internet Access Kit from the OS/2 Warp Bonus Pak
- IBM TCP/IP V2R1
- IBM TCP/IP V3R0 (included in OS/2 Warp Connect)
- IBM TCP/IP V5R0 (included in OS/2 V4)

ARTour Mobile Client for Windows requires one of the following:

- Microsoft® Windows V3R1 or V3R11
- Microsoft Windows for Workgroups V3R11
- Microsoft Windows 95

and a TCP/IP stack that supports an NDIS 2 driver interface.

This announcement is provided for your information only. For additional information, contact your IBM representative or call 800-IBM-4YOU.

Compatibility: ARTour Gateway and Mobile Clients are compatible with:

- ARTour Emulator Express Server for AIX (5799-QRF)
- ARTour Emulator Express Server for OS/2 (5799-QRG)
- ARTour Emulator Express Client for Windows (5799-QWQ)
- ARTour Emulator Express Client for OS/2 (5799-QTW)
- ARTour Web Express Server for AIX, V1R1 (5765-C18)
- ARTour Web Express Server for OS/2, V1R1 (5639-B84)
- ARTour Web Express Client for Windows, V1R1 (5639-B87)
- ARTour Web Express Client for Windows 95, V1R1 (5639-B86)
- ARTour Web Express Client for OS/2, V1R1 (5639-B85)

Performance Considerations: The performance of the ARTour Gateway for AIX, V3R1 can be affected by many different variables, some of which can be tuned with program parameters and some of which are external to the Gateway, for example:

- Wireless network characteristics
- Number of users and concurrent sessions
- Type of applications
- RAS and/or trace activity

For information on the parameters that affect performance, refer to *ARTour Mobile Communications System Guide* (GC31-8297).

Planning Information

Packaging: Entitled documentation is provided with the products.

The ARTour Gateway is available on either 4-mm or 8-mm tape. The program package includes a hardcopy of the *ARTour Mobile Communications Technical Overview* (CG31-8294) and the *ARTour Mobile Communications System Guide* (CG31-8297).

The ARTour Mobile Client is available on 3.5-inch diskette only. The program package for 5639-B82 includes a hardcopy of *ARTour Mobile Communications Installing the OS/2 Client* (G325-6594). The program package for 5639-B83 includes a hardcopy of *ARTour Mobile Communications Installing the Windows 3.1 Client* (G325-6595) and *ARTour Mobile Communications Installing the Windows 95 Client* (G325-6596).

Security, Auditability, and Control

ARTour Gateway for AIX uses the security and auditability features of the AIX operating system.

User management is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering Information

Some changes have been made to the terminology used for IBM software. These changes do not affect terms and conditions, charges, or ordering processes.

Key elements are:

- License: The license shows rights and obligations that complement copyright protection provided by law, and applies to all use of IBM software.

- Charging: IBM software is charged according to the number of Use Authorizations acquired. Definition of this use and its associated charges for a given product are stated in the product announcement. Use Authorizations come with the program package or are available separately, and may be for users or resources. They are reflected as Proofs of Entitlement (PoE), provided by IBM.

  Use Authorizations continue to be available for some products in use-packs of 1, 5, 10, and 50.

- Supply of Code: The software program itself will be available in various forms; for example, on magnetic media, CD-ROM, or electronically. This supply is accompanied by a Use Authorization.

The following highlights the key changes.

Previous Terminology	New Terminology
Program Package	Program Package
Additional License	Use Authorization for the right to copy and use the program (for example, a PoE for "One Server Install")
Use Based Feature	Use Authorization for users or resources (for example, PoE for "Five Concurrent Users" or "10 Connected Ports")
Distributed Feature	Use Authorization for optional or selectable portions of a program (for example, a PoE for "Five Client Installs")

Orders for new licenses will be accepted now.

Shipments will begin on February 21, 1997.

Program packages include a program supply (for example, diskettes, CDs, and electronic programs) with documentation and PoE. Use Authorizations apply when the customer has a program package and orders a Use Authorization to copy and use the program (or that portion of the program identified as the base or server component) and the printed documentation.

For each program package or Use Authorization ordered, enter program number with the appropriate feature numbers. Each feature number can only be ordered as a quantity of one per program number.

To order the programs described in this announcement for type model, specify the type model number, order type description, asset feature number 9001, media feature number, one-time charge (OTC) feature number, media, and quantity.

Program Name: ARTour Gateway for AIX, V3R1 (5765-C17)

To order a basic license for ARTour Gateway for AIX, V3R1, specify the program number, feature number 9001 for asset registration, the appropriate medium feature number, and feature number 4000 for OTC.

Description	Medium Feature Number	OTC Feature Number	Medium
Machine Type/Model 5765-C17			
Program Package	5500		4-mm tape
Program Package	5905		8-mm tape
Authorization to Use		4000	
User Authorization	NA	4001	

User Authorization: Charges for the ARTour Gateway V3R1 are based on the number of registered users. In addition to the authorization to use, order OTC feature number 4001 with quantity equal to the number of registered users. (Maximum feature quantity allowed per order is 250.)

For example, to order an ARTour Gateway for AIX, V3R1 on 4-mm tape with 125 registered users, specify 5765-C17 OTC feature 4000, medium feature 5500, and quantity 125 of feature 4001.

Adding Users: If, after initial order, a customer wants to add more users, order the appropriate quantity of feature 4001. (Maximum feature quantity allowed per order is 250.)

Program Name: ARTour Mobile Client for OS/2, V3R1 (5639-B82) or ARTour Mobile Client for Windows, V3R1 (5639-B83)

To order a basic license for 5639-B82 or 5639-B83, specify the program number, feature number 9001 for asset registration, feature number 5805, and the OTC feature number.

To order use authorizations for 5639-B82 or 5639-B83, specify the program number, feature number 9002 for additional asset registrations, the OTC feature number, and the appropriate quantity (maximum 250 per order).

Description	Medium Feature Number	OTC Feature Number	Medium
Machine Type/Model 5639-B82			
Program Package	5805	4002	3.5-inch diskette
Use Authorization for Right to Copy and Use the Program	NA	4003	
Machine Type/Model 5639-B83			
Program Package	5805	4004	3.5-inch diskette
Use Authorization for Right to Copy and Use the Program	NA	4005	

The total number of ARTour Mobile Clients should not exceed the number of registered users that have been ordered for the ARTour Gateway (feature number 4001 in US, EMEA, LA, CAN; feature number A8AE in AP). These clients can be any combination of 5639-B82 and 5639-B83.

Customization Options: Select the appropriate feature numbers to customize your order to specify the delivery options desired.

Description	Feature Number
Initial Shipments	
Serial Number Only (suppresses shipment of media and documentation)	3444
Ship Media Only (suppresses initial shipment of documentation)	3470
Ship Documentation Only (suppresses initial shipment of media)	3471
Expedite Shipments	
Local IBM Office Expedite (for IBM use only)	3445
Customer Expedite Process Charge ($30 charge for each program)	3446

Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Manufacturing Solutions (SMS) receives the order. SMS will then ship the order via overnight air transportation.

Program Package: Program supply (for example, diskettes, CDs, electronic programs), documentation, and PoE.

Use Authorization: Authorization to copy and use the program package supply and documentation.

For customers who order Use Authorizations and want extra copies of the documentation in the program package, separate copies can be ordered directly. Refer to the **Publications** section of this announcement for information.

Terms and Conditions

Licensing: IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

Limited Warranty: Yes

Program Services: Available until February 27, 1999

Guarantee: Two months, unconditional guarantee

Copy and Use on Home/Portable Computer: Yes

Program Transfer: Yes

Usage Restriction: Yes

ARTour Gateway for AIX, V3R1: The customer cannot exceed the number of registered users ordered without obtaining additional quantities of the feature that extends the permitted usage.

ARTour Mobile Client for OS/2, V3R1 and ARTour Mobile Client for Windows, V3R1: The customer cannot obtain use authorizations in excess of the number of registered users ordered for the ARTour Gateway.

Support Line: Personal Systems and AIX

Complimentary Introductory Support: Not available for the Personal Systems platform software

- Length of time: 60 days
- Must be part of solution with: RS/6000 brand system acquired from IBM
- Applies to: First installation in customer enterprise

Volume Orders: Not applicable

Software Advantage applies: No

Upgrade Protection applies: No

Entitled Upgrade for Current Upgrade Protection Licensees: No

Variable Charges Apply: No

Educational Allowance: No

Charges

Program Name/Number	Authorization to Use	User Authorization
ARTour Gateway for AIX, V3R1 (5765-C17)	$15,000	$159

Program Name/Number	Program Package	Use Authorization
ARTour Mobile Client for OS/2, V3R1 (5639-B82)	$49	$29
ARTour Mobile Client for Windows, V3R1 (5639-B83)	$49	$29

Use Authorization Charge for the Right to Copy and Use the Program: Customers who pay an OTC for Use Authorizations may copy and use machine-readable program materials and printed documentation previously acquired from IBM in a program package. One copy may be made for each Use Authorization ordered.

Charge for Use Authorizations for Users or Resources: Customers who pay an OTC for Use Authorizations for users or resources are authorized for a number of users to access the program and/or resources available. Use may not exceed the total number of users or amount of resource authorized.

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