Communications Server for OS/2 Warp OS/2 Access Feature

Highlights

Make application decisions, independent from existing network protocols, based on business needs

Access the information you need, when you need it, from the central computer or LAN—whether you're at home, on the road, or in a customer's office

Improve your network systems management through consolidated traffic and reduced need for parallel networks

Get true remote installation capability

Get the widest range of connectivity in the industry

Maximize the power of your new and existing applications with 32-bit APIs

Prioritize different kinds of data traffic for SNA or TCP/IP applications

Bolster user productivity with a product that has a proven reliable track record

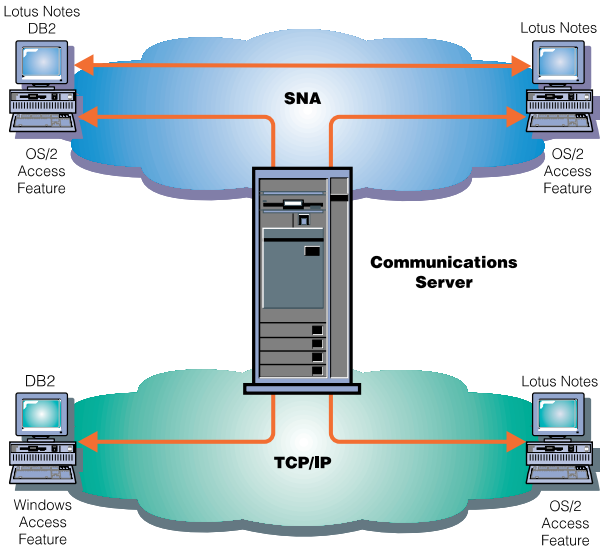
Welcome to protocol independence!

The OS/2 Access Feature desktop component supports OS/2 application development and is packaged with Communications Server for OS/2 Warp, Version 4.1, (Communications Server)—the ideal solution for today's rapidly changing network environments. These are enhanced releases of similar services available in Communications Manager/2 (CM/2). OS/2 Access Feature is licensed and installed separately.

OS/2 Access Feature offers the SNA services and application programming interfaces (APIs) for a LAN-attached workstation, capable of functioning independent from the Communications Server.

The OS/2 Access Feature provides multiprotocol API support, LAN and WAN connectivity, and SNA services. The OS/2 Access Feature multiprotocol support, based on the AnyNet technology, lets you communicate with applications on AIX, OS/2, OS/400, MVS/ESA, and Windows systems. So, applications that are written for the Sockets (TCP/IP), advanced program-to-program communication (APPC), Common Programming Interface for Communications (CPI-C), and LUA APIs can run unchanged over either SNA or TCP/IP local and wide area networks (LANs and WANs).

OS/2 Access Feature accommodates changing network needs through network protocol independence, flexibility of connectivity options, and investment-protecting migration.



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Feature	*Benefit*
Multiprotocol support	• Allows SNA applications to run unchanged over TCP/IP networks; allows Sockets (TCP/IP) applications to run over SNA networks • Provides greater freedom and choices in mixing and combining network protocol, while protecting investments in user applications
SNA phone connect	• Allows mobile workers to access a central computer, CM/2, Communications Server, or an OS/2 Access Feature • Takes advantage of enhanced WAN connectivity over switched and nonswitched lines, including automatic dialing support • Uses automatic switched call management on both incoming and outgoing calls • Supports Synchronous Data Link Control (SDLC), X.25, and integrated services digital network (ISDN) • Supports Personal Computer Memory Card International Association (PCMCIA) adapters and modems • Supports synchronous, asynchronous, and Hayes AutoSync connectivity • Supports IBM and OEM adapters
X.25 protocols	• Permits connection to packet-switched data networks (PSDN) worldwide • Supports AutoDial and AutoAnswer as defined in X.32 • Supports exchange identifier (XID) • Supports closed user group (CUG); one or more CUG per workstation • Provides for inexpensive long-distance data transmission • Enables both SNA and non-SNA communication to be sent over the same physical link
Advanced program-to-program communication (APPC)	• Delivers distributed processing capabilities by enabling different network nodes to share resources and tasks • Provides for peer-to-peer interaction and communication among various IBM systems • Supports basic and mapped conversations • Supports multiple logical units and multiple concurrent links • Includes persistent verification to improve security • Provides full-duplex, which enhances data transmission • Allows transmission priority-setting for interactive compared with batch
Common Programming Interface for Communications (CPI-C)	• Offers the function of APPC in a consistent form across multiple system platforms • Permits smooth migration of applications from one system platform to another (from an OS/2 platform to an OS/400 platform, for example) • Supports CPI-C, Release 2 • Supports CPI-C for Windows-OS/2, enabling use of CPI-C applications in a Windows-OS/2 environment
Advanced Peer-to-Peer Network (APPN) support	• Provides simplified configuration, better availability, and easier maintenance with peer networks • Offers a way for existing APPC and CPI-C applications to take advantage of peer networks • Allows 3270 applications to flow over APPN networks with dependent LU requester (DLUR) enablement • Offers high-performance routing (HPR) for increased data routing performance and reliability
3174 Peer Communications support	• Lets workstations use APPC to interact over coaxial cable with centralized systems or other workstations • Introduces LAN capabilities to the coaxial-wired environment without requiring installation of LAN cabling
Logical unit application (LUA) interfaces	• Provides base communication and file transfers for LU 0, 1, 2, and 3 sessions • Facilitates migration of LU 0 applications and the OS/2 environment
Asynchronous Communications Device Interface (ACDI)	• Lets asynchronous emulators and file transfer programs exchange data over asynchronous links • Provides a high degree of independence from the adapter hardware used • Allows you to manipulate modem command strings and automate dialing procedures • Enables call redirection across a LAN to an asynchronous gateway
Configuration installation options	• Offers quick configuration enhancements • Includes configuration, installation, and distribution (CID) methodology • Provides smooth migration from previous CM/2 configuration • Allows administrator to issue OS/2 commands (through TME 10 NetView) to remote servers, gateways, and workstations
Problem determination and systems management	• Offers quick access to integrated problem-determination functions • Allows many problem-determination functions to be performed under program control • Makes it easy to control and obtain status information on the SNA communication resources • Facilitates remote management of databases and servers; local operator presence not required

IBM OS/2 Access Feature connectivity summary

Supported systems	Interface	Protocol	Connections[1]
IBM System/370 and System/390 architecture	APPC and Sockets	LU 6.2	• Asynchronous transfer mode (ATM) LAN emulation • Coaxial, with 3174 Peer Communications Network (except gateway) • Ethernet (374x), PC network • Fiber Distributed Data Interface (FDDI) • Frame relay • General Data Link Control (GDLC) and Asynchronous Network Device Interface Specification (ANDIS)[5] • LAN Gateway (IPX and NetBIOS) • SDLC • SNA Phone connect for SDLC, X.25, ISDN, and NetBIOS • SNA over TCP/IP • Sockets over SNA • Token ring (3172, 37xx) • Token ring, using the 3174 3270 Gateway Feature for PU2 • Token ring, PC network, or Ethernet, using SNA gateway • X.25 (37xx PSDN, SNA gateway[2] point-to-point connection)
	LUA	LU 0, 1, 2, 3	• All of the preceding links
Personal computers	APPC and Sockets	LU 6.2	• ATM (LAN emulation) • Ethernet • FDDI • Frame relay • GDLC and ANDIS • ISDN • LAN Gateway (IPX and NetBIOS) • PC network • SDLC • SNA over TCP/IP • Sockets over SNA • Token ring[2] • X.25
	ACDI	Asynchronous/ASCII[4]	• Asynchronous
	IEEE 802.2	IEEE 802.2	• ATM (LAN emulation) • Ethernet • FDDI • Frame relay • PC network • Token ring
IBM AS/400 and IBM System/36	APPC and Sockets (AS/400 only)	LU 6.2	• Ethernet (AS/400 only) • FDDI (AS/400 only) • GDLC and ANDIS • IBM 3174 Peer Communications Network • ISDN (IDLC) (AS/400 only) • SDLC • SNA phone connect SDLC, ISDN (AS/400 only), X.25 • SNA over TCP/IP (AS/400 only) • Sockets over SNA (AS/400 only) • Token ring • Twinaxial (AS/400 only, including remote connection through 5394 and 5494) • X.25

IBM OS/2 Access Feature connectivity summary (continued)

Supported systems	Interface	Protocol	Connections[1]
IBM System/38	APPC	LU 6.2	• SDLC • X.25
IBM Series/1	APPC	LU 6.2	• SDLC
IBM System/88	APPC	LU 6.2	• SDLC
IBM RS/6000	AIX 3270 Host Connect Program/6000	LU 6.2	• LAN • SDLC • SNA over TCP/IP • Sockets over SNA • X.25
	APPC and Sockets	LU 6.2	• SDLC • X.25
Other central computers or workstations[3]	X.25 API	X.25 (non-SNA)	• X.25
	IEEE 802.2	IEEE 802.2	• Ethernet

Notes:

1. OS/2 Access Feature supports combinations of these connections.
2. SNA gateway is attached to a System/390 computer through an SDLC, token-ring, or X.25 connection.
3. Appropriately programmed.
4. Sending an ASCII text file to another system.
5. GDLC and ANDIS for OEM adapters.

IBM Communications Server Access Feature for OS/2 at a glance

System requirements	Intel 386 (or compatible microprocessor), or higher
Media	CD-ROM (includes diskette images)
Software requirements	IBM OS/2 Warp, Version 3.0, or higher (Also available for OS/2, Version 2.11, with most functions supported)
Memory requirements	3 MB of system random access memory (RAM)
Hard drive requirements	5 MB minimum (16 MB, typical)
National language translations	Brazilian Portuguese, English, French, German, Italian, Japanese, Korean, Spanish, traditional and simplified Chinese

For more information

To learn more about the Communications Server for OS/2 Warp OS/2 Access Feature and the Communications Server product line, contact your IBM representative or IBM business partner. Or visit our World Wide Web home page at URL:

http://www.raleigh.ibm.com/cm2/cm2prod.html

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