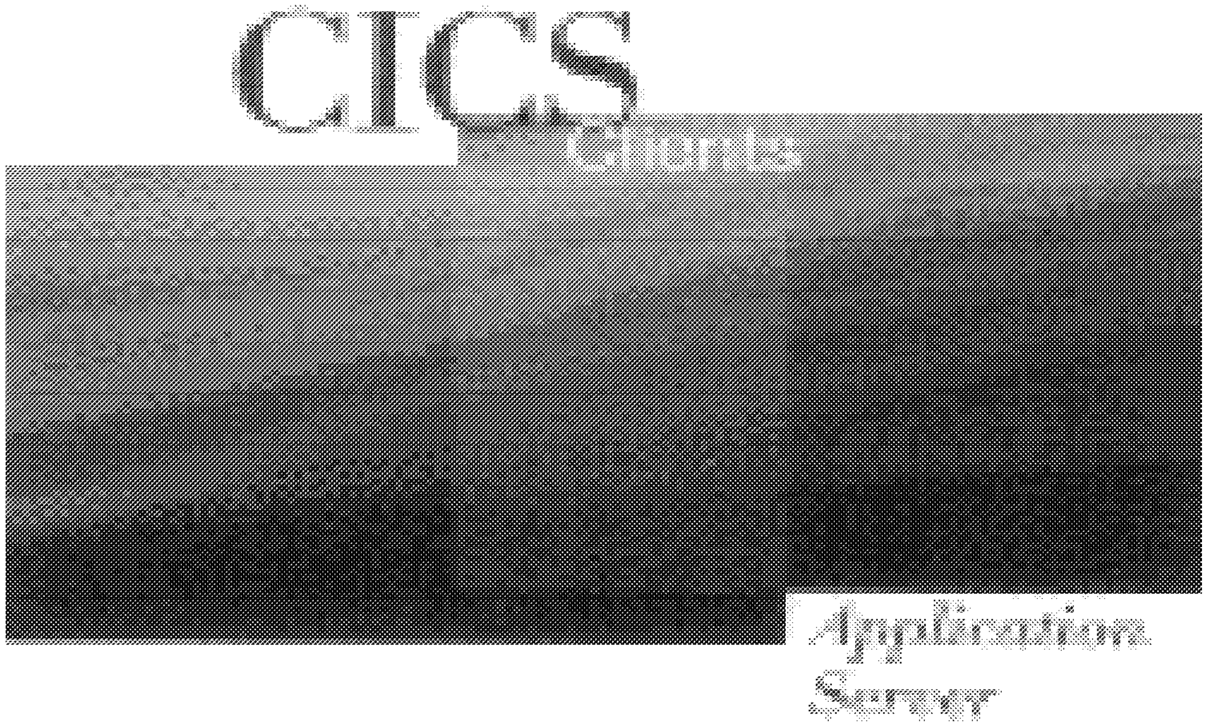
CICS - fulfilling your client/server ambitions



CICS Clients

. . . open doorways

Versatile CICS Clients are available as

- IBM CICS Client for OS/2
- IBM CICS Client for DOS
- IBM CICS Client for Windows
- IBM CICS Client for Macintosh

all connecting to a wide range of CICS Application Servers, from the host to the desktop.

. . . make client/server straightforward

CICS Clients let you exploit the power of your desktop workstations by integrating them easily with CICS servers of all sizes. When you′re distributing your computing, CICS Clients keep your options open and allow you to choose the pace. CICS Clients are the simple, low-cost route to client/server computing.

. . . revitalize the desktop

CICS Clients give your desktop computing investments even more significance in your information systems network.

. . . have the right connections

CICS Clients can access CICS Application Server power from all corners of your enterprise network.

CICS Clients open doorways

Now there is an even better reason for making the desktop part of your CICS enterprise systems. A family of client products for a range of different desktop platforms makes it easy for you to connect OS/2, DOS, Windows and Macintosh client machines to a wide range of CICS servers, from host computers to workstations.

CICS Clients support widely-used communications protocols:

- NetBIOS
- TCP/IP
- APPC (also via Novell Netware for SAA)
- IPX/SPX (via Netware NetBIOS emulator)

and three different ways of implementing client/server applications, offering different degrees of client functionality and speed of implementation. This means that you can choose the rate at which your enterprise progresses to client/server solutions.

Equally significant for the developing enterprise is that CICS Clients are members of the robust CICS Application Server family. CICS Clients are the realization of the CICS strategy of connecting any client to any server. In using CICS Clients to implement your client/server plans, you can take new technologies in your stride, and adapt flexibly to any changes in your enterprise.

CICS has always helped turn opportunities into reality. With CICS Clients there are now even more doorways to opportunity.

Use CICS servers and CICS Clients to move confidently into the future.

CICS Clients make client/server straightforward

CICS Clients are the easy and cost-effective route to client/server. They make best use of your existing hardware, software and skills. They offer three simple stages to full client/server implementation. And you can use your favorite PC graphical user interface to enhance productivity and present both local and remote data, simultaneously.

CICS Clients allow you to capitalize on your PC investment immediately by using your 3270 applications on the desktop. You can then use widely-available rapid application development (RAD) tools from IBM and other vendors to gain the presentation and distribution benefits at a pace that suits the needs of your business.

You can connect client programs to your CICS server applications progressively in these three simple and low-risk stages, all offering concurrent access to many different applications and servers:

- **Emulating a 3270 display**, allowing the CICS client to access your CICS applications and data from anywhere in your enterprise network, with no programming effort.
- **Modernising your existing CICS 3270 applications**. Add a GUI front end, with no programming change to the existing CICS application, by using the external presentation interface (EPI).
- **Developing new distributed client/server applications**, using the external call interface (ECI). The presentation logic runs in the client, and the CICS application and data can be anywhere in your network.

This straightforward approach to development is also apparent in system administration. Client/server systems can carry a heavy administration overhead, but CICS Clients auto-installation at the server dispenses with most of the work.

CICS is the natural approach to client/server.

CICS Clients revitalize the desktop

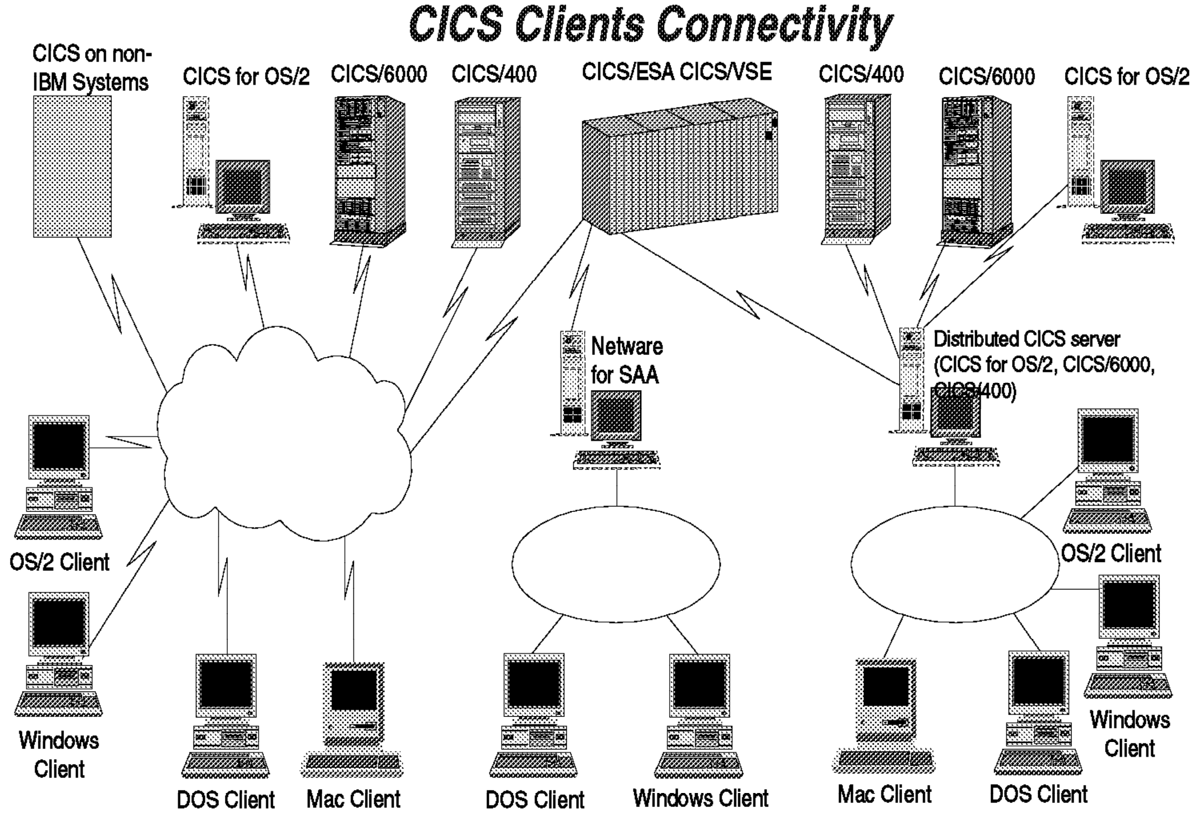
If your users already have workstations that they use mainly for desktop productivity applications like spreadsheets, you can use CICS Clients to bring the benefits of graphical user interfaces and desktop technology to your current and new CICS applications.

Users of tools like spreadsheets can exchange data with databases on CICS servers, using CICS Clients, so that the knowledge and expertise of your desktop users is immediately available to your enterprise computing systems.

The friendly GUI interfaces that are so familiar in desktop tools can be built into your CICS applications to help your users to be even more productive.

If you are interested in right-sizing or moving to client/server, CICS Clients let you take full advantage of your investments in CICS skills and applications to migrate naturally and easily to the new environment - and without any initial reprogramming costs. CICS Clients and the flexibility of the CICS family put you in control, so that you extend the benefits of your investments in CICS to fully support your business strategy.

CICS Application Server bridges platforms and technologies to become a truly open and strategic product that will be key to corporate computing into the next century. When CICS and CICS Clients are part of your information strategy, you are part of the future of information systems.



CICS Clients have the right connections.

CICS is an amazingly versatile system, giving your business the flexibility and reach that it needs to stay ahead of your competitors.

With CICS Clients, your client/server applications can reach across LANs and WANs to all of your users and customers, connecting to mainframes and other business systems, such as AS/400 or RISC System/6000.

For branch offices that are not normally connected into the central LAN, CICS Clients interface to IBM LAN Distance which gives the ability to access CICS network resources. The CICS Application Server and LAN Distance server can use the same workstation, creating a complete LAN/remote network solution.

CICS Clients present a simple way of connecting non-terminal devices. Typically, an image scanner or bar-code reader can be used to collect data for input to a CICS application, or output from the application can be directed to a local client-attached printer.

The ability to convert your existing applications into true client/server systems with little additional effort means that you can better balance workloads, and make more effective use of all your computing resources. And with distributed applications, your users across the enterprise network will notice the consistent response times and better throughput, allowing them to be more productive.

The capacity to set up your CICS system in any way that you need, combined with access to a huge portfolio of proven CICS applications and development tools from IBM and other vendors, makes CICS a complete systems environment and the universal client/server solution.

CICS Clients functions and connectivity

- Industry standard communications protocols supported (see table)
- Three ways of connecting to applications (see table)
- Auto-install of clients at most server systems (see table)
- Easy data exchange with desktop productivity tools
- Fault-tolerance through concurrent access to multiple applications and servers
- Convenient interfacing of devices like printers, scanners, bar-code readers

Information for decision makers

Server	Client	Protocols supported	Application connection			Auto-install	
			ECI	EPI	3270 emul	Dependent	Parallel
CICS/ESA V4.1	**OS/2, Windows Macintosh**	APPC	•	•(1)	•(1)	•	•
	DOS	APPC (2)	•	•(1)	•(1)	•	•
CICS/ESA V3.3 CICS/MVS V2.1.2 CICS/VSE V2.2, V2.3	**OS/2, Windows Macintosh**	APPC	•			•	
	DOS	APPC (2)	•			•	
CICS/400 V3.1	**OS/2, Windows DOS,Macintosh**	APPC	•	•	•	•	•
CICS/6000 V1.2	**OS/2, Windows DOS,Macintosh**	TCP/IP	•	•	•	•	•
CICS for OS/2 V2.0.1 multi-user	**OS/2, Windows DOS**	NetBIOS IPX/SPX (3) TCP/IP (4)	•	•	•	•	•
	Macintosh	TCP/IP (4)	•	•	•	•	•
	Client application development tools		IBM VisualAge for OS/2 IBM VisualAge for Windows				
	Ordering information IBM CICS Client for OS/2 17H7627 IBM CICS Client for DOS 17H7605		IBM CICS Client for Windows 17H7616 IBM CICS Client for Macintosh 17H7616				

Notes: (1) Requires the CICS/ESA support for the CICS Client - check for availability
(2) Only via NetWare for SAA in a gateway server
(3) Included via NetBIOS emulator in Novell NetWare
(4) CICS for OS/2 must be V2.0.1 or latest service level of V2.0

This information applies to Version 1 of the IBM licensed program CICS Clients.

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