



CICS Universal Clients Version 3.1

Highlights

Designed to deliver extensibility to your business critical CICS* applications with...

...Simplified, low cost desktop integration

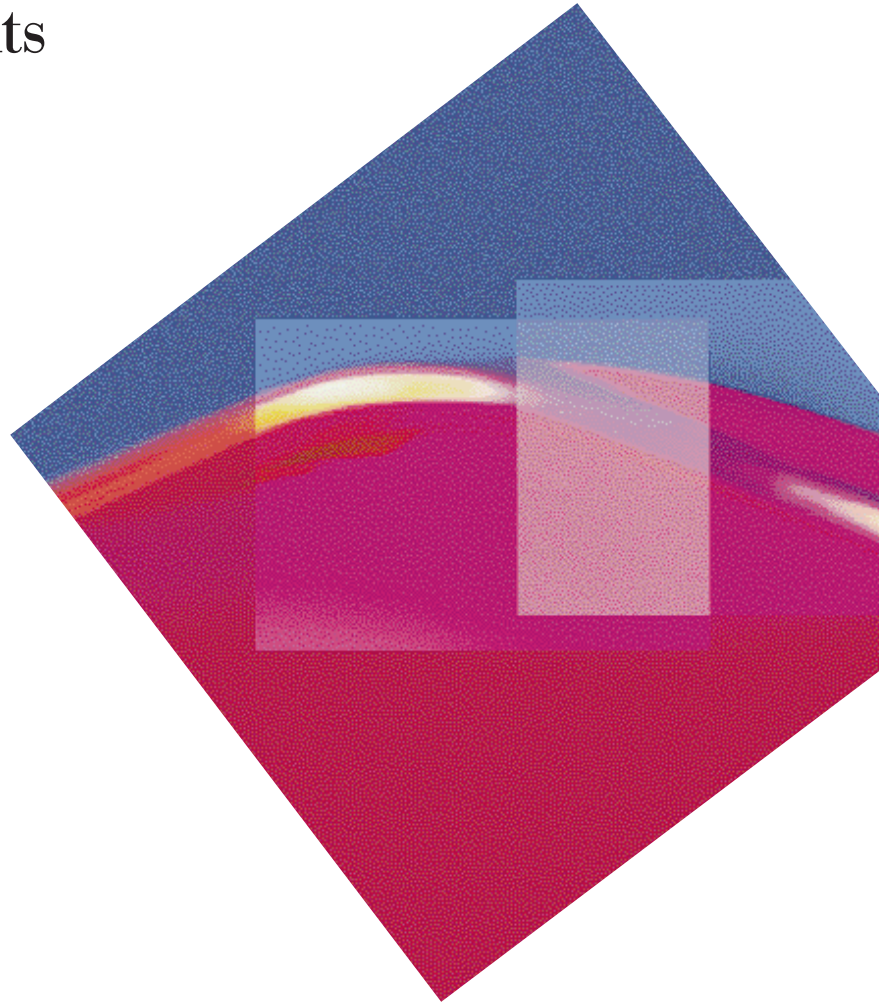
When you're looking to develop systems that utilise and exploit your desktop workstations while efficiently accessing your CICS applications, CICS Universal Clients deliver a simple and low-cost solution.

...Exploitation of the latest technologies

When you're looking to deploy systems that extend your business critical CICS applications across LANs, WANs and to the Web, CICS Universal Clients (and the Universal Client features incorporated within IBM CICS Transaction Gateway), delivers an efficient, reliable and scalable solution for your needs.

...Comprehensive security and workload management

With features that enable interaction with external security managers, together with facilities that can balance workloads across CICS systems, CICS Universal Clients deliver the security and workload support you need for today's business solutions.



CICS Universal Clients are supported on the following platforms

- OS/2*
- Windows NT**
- Windows 95** and 98
- AIX*
- Solaris.

CICS Universal Clients support the following communications protocols

- SNA
- NetWare for SAA
- TCP/IP
- CICS host TCP/IP access feature (TCP62)
- NetBIOS
- DCE RPC (Windows NT only)
- Local named pipes (Windows NT only).

CICS Universal Clients support the following functions

- External Call Interface (ECI)
- External Presentation Interface (EPI)
- CICS 3270 emulation
- Telnet TN3270
- External Security Interface (ESI)
- Workload management (Windows 98/NT only).

Programming languages

- C++, COBOL, PL/1 and REXX
- Microsoft** COM interface
- Object classes for C++
- VisualAge*, Visual C++, Visual Basic, PowerBuilder.

Packaging and availability

- Downloadable from CICS Web site (subject to licensing)
- Available on CD-ROM
- Included with selected IBM products
- National Language Support and DBCS enabled with support for 6 languages
- Online documentation in Adobe PDF format.

Simplified, low cost desktop integration

Today, there is an increasing focus on the value of, and investment in, existing corporate IT assets. When planning for new IT solutions, you need to look closely at options that let you efficiently and cost effectively reuse these existing assets in new and business beneficial ways.

One of the largest IT assets you're more than likely to have is CICS, one of IBM's most successful software products. Proven over many years of commercial usage, CICS is a thoroughly versatile application server that provides thousands of businesses with the robust, secure and scalable foundation they need to build IT systems that can successfully meet the challenges of today's demanding business environment.

And it's here that CICS Universal Clients can really help you exploit the full benefits of reuse. Whether you plan to just simply reface some of your existing CICS 3270 applications or are developing more sophisticated solutions, CICS Universal Clients provide a simple and low cost answer.

With CICS Universal Clients, you can very quickly start to develop and deploy simple solutions that modernise your existing 3270 based CICS applications. Using the products External Presentation Interface (EPI) API, CICS Universal Clients allows you to rapidly develop GUI style front ends using a number of desktop development tools, including Visual Basic, VisualAge and PowerBuilder. With EPI, your back end CICS applications remain untouched, leaving your desktop developers free to quickly and easily prototype and develop the new application interfaces. Using this approach, your application end users can play a vital role providing critical input to the user interface design. This not only allows you to gain user productivity benefits from deployment, but also promotes that crucially important end user 'buy in' to the new system.

When you need to develop more flexible solutions, CICS Universal Clients have the answer. Whether you need to better optimise the GUI client access to your existing back end CICS applications or plan to develop new CICS server applications with GUI client components,

CICS Universal Clients provide the External Call Interface (ECI) API. This facility provides client based applications with an efficient program-to-program style communications capability that can be used with CICS server programs that employ the COMMAREA interface. Using this method allows for more flexibility in the type and deployment of client programs.

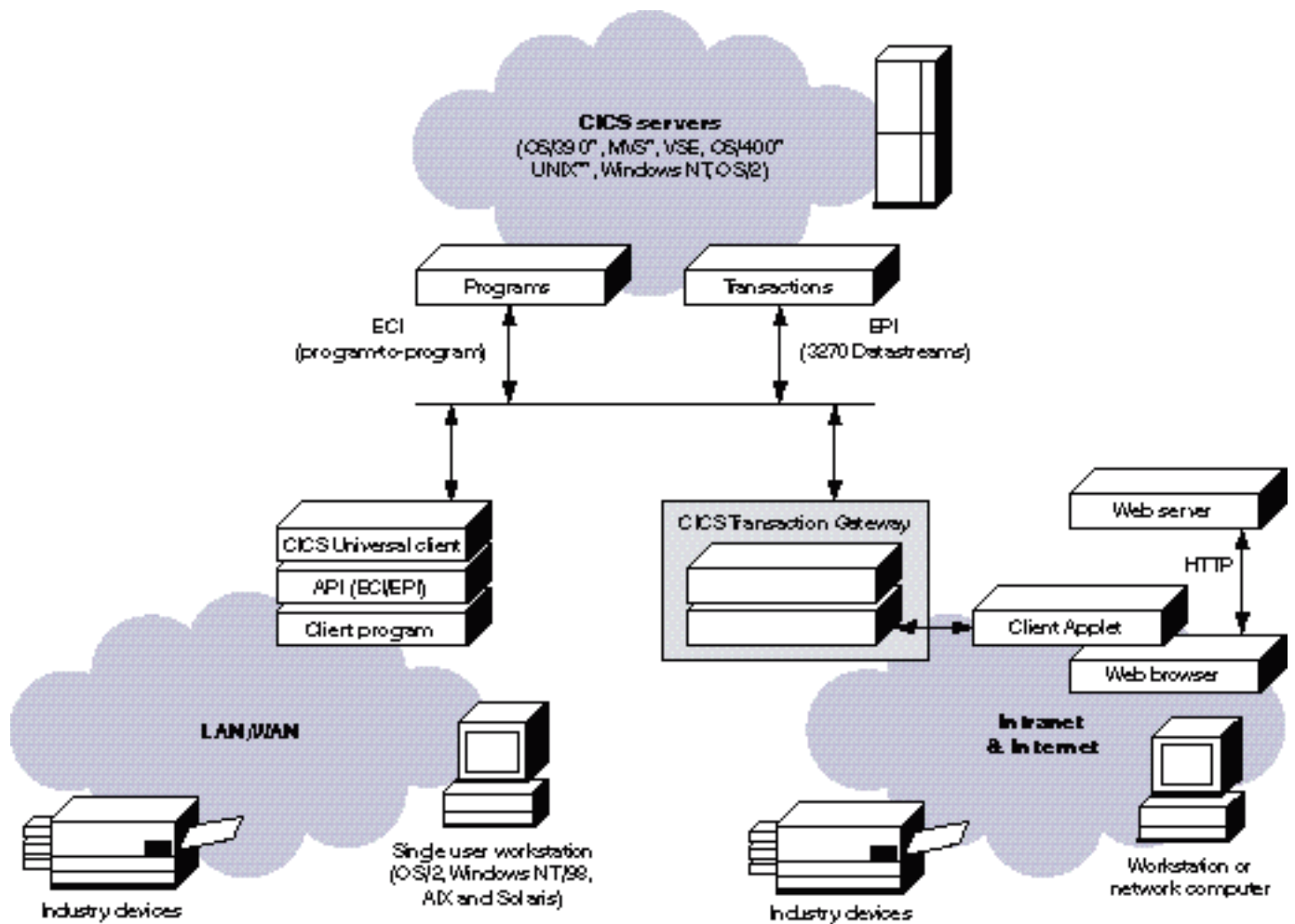
Whichever method suits your needs, CICS Universal Clients allows you to fully exploit the investment you've made in CICS applications and desktop workstations.

Exploitation of the latest technologies

Many of your corporate end users have been using workstation based personal productivity applications for several years. With a rapid increase in information sharing through the use of networked facilities like the Web and groupware solutions such as Lotus Notes*, CICS Universal Clients now gives you the capability to better integrate and exploit your corporate data within desktop applications. For example, users of tools such as spreadsheets can quickly and easily exchange data with databases containing corporate information owned by your CICS applications.

CICS Universal Clients also provide a simple and cost effective way of connecting industry devices to your applications. For example, an image scanner or barcode reader can be used to collect input data for your CICS production applications, while output can be directed to local client-attached printers.

When you need to build Web based solutions that require access to CICS owned corporate data, the CICS Universal Clients features integrated within IBM CICS Transaction Gateway product provide a compelling solution. CICS Transaction Gateway builds on the capabilities of Universal Clients, adding features and functions to enable rapid development and deployment of 'business quality' Web solutions that exploit your large investment in CICS server applications. Whether you need to deploy solutions that enable access from Web browsers, network computers



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or other internet-enabled consumer devices, the CICS Universal Clients features of CICS Transaction Gateway provide an efficient and reliable answer for your needs.

Together, CICS servers, CICS Universal Clients and CICS Transaction Gateway form a proven, yet technologically advanced foundation for your corporate computing needs for the next millennium.

Comprehensive security and workload management

In addition to enabling new style interfaces to your CICS applications, CICS Universal Clients provide several other features that are key to the successful deployment of robust business solutions.

Any solution that allows access to your business critical applications and data needs to be secure and safe. To help you with delivery of secure solutions, CICS Universal Clients include a new security API. This feature, called the External Security Interface (ESI), enables appropriate external applications of your choice to process expired passwords and verify existing userids and passwords. These are the passwords and userids familiar to your CICS server systems.

When your solution needs to support high user access workloads, CICS Universal Clients provide a new workload management application which allows you to write applications that can distribute workloads across multiple CICS regions or CICS servers (Windows NT only).

CICS server platform		Transaction Gateway platform			
		Windows NT, 95 and 98	OS/2	AIX	Solaris
• CICS/ESA* V4R1	Communications protocols supported	SNA and TCP62 (see Notes 1 and 4)		SNA	
• CICS Transaction Server for OS/390 V1R1 and later	Standard functions supported	ECI, TN3270, AutoInstall, ESI EPI and 3270 emulation (see Note 2)			
• CICS/VSE/ESA* V2R3	Communications protocols supported	SNA (see Note 4)			
• CICS Transaction Server for VSE V1R1	Standard functions supported	ECI, TN3270, AutoInstall EPI and 3270 emulation (see Note 3)			
CICS/400* V4R4	Communications protocols supported	SNA			
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
• TXSeries* V4.2 for AIX, Solaris and Windows NT and later (see Note 5)	Communications protocols supported	SNA and TCP/IP (see Note 6)			
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
• CICS Transaction Server for OS/2 Warp V4.1 (See Note 8)	Communications protocols supported	SNA, TCP/IP, NetBIOS (see Note 7)	SNA, TCP/IP	TCP/IP	
• VisualAge CICS Enterprise Application Development for OS/2 and Windows NT (see Note 9)	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270			

Notes:

- (1) CICS Transaction Gateway for Windows 95/98 is supported for application development only
- (2) CICS/ESA V4R1 requires PTF's UN90142 and UN90143
- (3) CICS/VSE V2R3 requires PTF's UN90168 and UN90169
- (4) Including via IntranetWare** for SAA
- (5) TXSeries V4.2 for AIX, Solaris and Windows require PFT 6 to be applied
- (6) DCE is supported on Windows NT platform only
- (7) NetBIOS is not supported on Windows 98
- (8) CICS Transaction Server for OS/2 Warp V4.1 contains CICS for OS/2 V3.1
- (9) In VisualAge COBOL V2.2 and VisualAge PL/1 V2.1, not for production use

Note: For support for EPI extensions on secure terminals the following APARS need to be applied.

CICS/ESA V4R1	PQ30167
CICS TS V1R3	PQ30168
CICS/VSE V2R3	PQ30169
CICS TS VSE/ESA V1R1	PQ30170

This product will also be shipped with WebSphere™ Application Server Enterprise or Advanced edition when available.



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The IBM home page can be found on the Internet at www.ibm.com and more information on CICS can be found at www.software.ibm.com/cics

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