



CICS server platform		Transaction Gateway platform			
		Windows NT,95 and 98 (see Note 1)	OS/2	AIX	Solaris
• CICS/ESA* V4R1	Communications protocols supported	SNA and TCP62 (see Note 4)		SNA	NONE
	Standard functions supported	ECI, TN3270, AutoInstall EPI and 3270 emulation (see Note 2)			
• CICS Transaction Server for OS/390 V1R1 and later	Communications protocols supported	SNA (see Note 4)		SNA	
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
CICS Transaction Server for VSE V1R1	Communications protocols supported	SNA (see Note 4)			
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation (see Notes 3 and 5)			
CICS/VSE* V2R3	Communications protocols supported	SNA (see Note 4)			
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
CICS/400* V3R1 and later	Communications protocols supported	SNA (see Note 4)			
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
• Transaction Server for AIX V4 (see Note 7) • CICS for Solaris V2.1.1 • CICS for HP-UX V2.1.1	Communications protocols supported	SNA and TCP/IP (see Note 6) and DCE RPC (see Note 12)		TCP/IP	
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
• Transaction Server for Windows NT V4 (see Note 8) • TXSeries* V4.2 for AIX, HP-UX, Solaris and Windows NT	Communications protocols supported	SNA, TCP/IP, NetBIOS	SNA, TCP/IP	TCP/IP	
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			
• Transaction Server for OS/2 Warp V4 (See Note 9) • CICS Transaction Server for OS/2 Warp V4.1 (see Note 10) • VisualAge CICS Enterprise Application Development for OS/2 and Windows NT (see Note 11)	Communications protocols supported	SNA, TCP/IP, NetBIOS	SNA, TCP/IP	TCP/IP	
	Standard functions supported	ECI, TN3270, AutoInstall, EPI and 3270 emulation			

Notes:

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| <p>(1) CICS Transaction Gateway for Windows 95 and 98 is supported for application development only</p> <p>(2) CICS/ESA V4R1 requires PTF's UN90142 and UN90143</p> <p>(3) CICS/VSE V2R3 requires PTF's UN90168 and UN90169</p> <p>(4) With Windows NT, 95 and 98, including via NetWare for SAA</p> <p>(5) Auto installation only for dependent LU6.2 sessions</p> <p>(6) SNA only with Transaction Server for Windows NT V4.0, TXSeries for Windows NT V4.2, Transaction Server for AIX V4.1 or TXSeries for AIX V4.2</p> | <p>(7) Transaction Server for AIX V4.1 contains CICS for AIX V2.1.1</p> <p>(8) Transaction Server for Windows NT V4.0 contains CICS for Windows NT V4.0</p> <p>(9) Transaction Server for OS/2 Warp V4.0 contains CICS for OS/2 V3.0</p> <p>(10) CICS Transaction Server for OS/2 Warp V4.1 contains CICS for OS/2 V3.1</p> <p>(11) In VisualAge COBOL V2.2 and VisualAge PL/1 V2.1</p> <p>(12) DCE RPC from CICS Universal client for Windows NT to TXSeries Servers only.</p> |
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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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CICS Transaction Gateway Version 3.0

Highlights

Designed to deliver efficient and reliable Web access to your business critical CICS* applications with.....

....Choice of access method and deployment platform

From simple HTML to more complex Java** based solutions, CICS Transaction Gateway delivers a choice of Web access methods. With a single Java implementation, CICS Transaction Gateway provides deployment choice across a number of execution platforms.

....Simplicity of use

From straightforward installation to Integrated Development Environment (IDE) integration features and proven APIs, CICS Transaction Gateway delivers ease of use.

....Performance and scalability

Employing efficient communications together with multithreading and SMP exploitation, CICS Transaction Gateway delivers the performance and scalability you need and expect.

....Comprehensive security

With features that enable privacy, authentication and authorisation, CICS Transaction Gateway delivers the security features critical to successful web-based business operations.



What do you get with CICS Transaction Gateway Version 3?

Integrated Gateway functionality replacing the previous CICS Internet and CICS Gateway for Java offerings.

Integrated CICS Universal Client Version 3 functional capabilities including

- External Call Interface (ECI)
- External Presentation Interface (EPI)
- CICS 3270 emulation
- Telnet TN3270
- External Security Interface (ESI)
- Workload management

Supported on the following platforms

- OS/2*
- Windows NT**
- Windows 95** and 98 (development only)
- AIX*
- Solaris

Supporting the following communications protocols

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

Packaging and availability

- NLS and DBCS enabled with support for 10 languages
- Online documentation in HTML and PDF formats
- Available for Internet download subject to license entitlement via the CICS home page: www.software.ibm.com/ts/cics
- License entitlement given by license for any of:
 - TX series, V4.2 (all platforms)
 - CICS Transaction Server for OS/2* V4.1
 - CICS Transaction Server for OS/390*, V1.1 or later
 - CICS Transaction Server for VSE, V1.1
- Available for application development as part of IBM VisualAge* for Java V2.0.

Choice of access method and deployment platform

With today's ever increasing range of Internet access products, you need to choose the best and most flexible way to access your valuable business critical CICS applications. You need to choose a product that provides the widest range of options to enable you to implement the solution of your choice. Whether you plan to implement simple systems based on HTML or are developing more sophisticated Java based solutions, CICS Transaction Gateway provides this choice. Using this exciting new product from IBM, you can develop your web based business solutions to allow Web browsers, network computers (NCs) or internet enabled consumer devices to interact with your CICS applications.

If you need simple rendering of CICS 3270 application screens into HTML for display on standard Web browsers, CICS Transaction Gateway can provide the answer. It will automatically translate 3270 data streams from existing CICS applications into HTML, and transmit this to a browser using the HTTP protocol. Should you wish to present information from CICS applications using HTML forms, then you can create your own HTML templates and Java servlets to accomplish this.

Where Java enabled Web browsers are deployed as part of your business solution, CICS Transaction Gateway allows you to develop client applets that can access both CICS 3270 based applications and CICS programs that use a programmatic interface such as ECI. This support is enabled through the use of Java classes and JavaBeans supplied with the product.

Finally, when you decide that you want to develop and deploy client side JavaBeans that execute within Object Request Broker (ORB) enabled Web browsers, CICS Transaction Gateway supports their interaction with your CICS server applications and programs. This is implemented via JavaBeans that execute on your Web server together with the CICS connectivity features of CICS Transaction Gateway. The Web server based JavaBeans communicate with the client JavaBeans using CORBA IIOP protocols. Interoperability with

your CICS 3270 applications or CICS programs is handled by the gateway using the supplied Java classes.

Your ability to choose the best execution platform for your gateway is also of importance. CICS Transaction Gateway has been developed in Java, providing a single and consistent implementation that can be deployed across a number of execution platforms. The gateway also exploits the features and capabilities of the new CICS Universal Clients product.

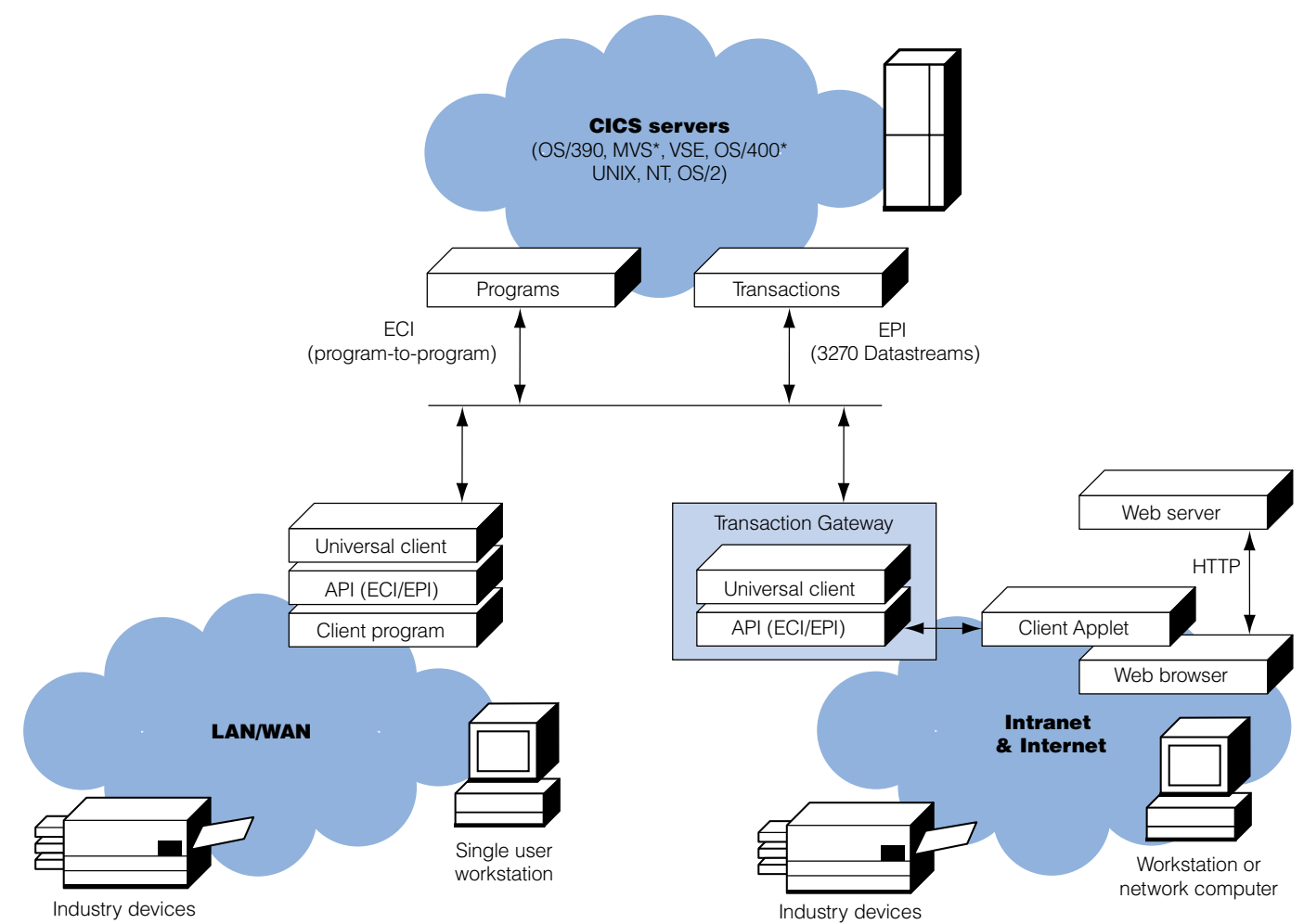
Simplicity of use

Ease of use, from product installation, through system development to solution implementation, allows for a more rapid deployment of your new system and realisation of your projected business benefits (whether cost savings or competitive advantage).

CICS Transaction Gateway has been designed to enable simple and straight forward installation. The installation process lets your developers quickly and easily set up and administer a gateway server. In Windows NT environments for example, installation is performed using InstallShield, while at runtime, the gateway executes as a Windows NT service.

To facilitate integration with Integrated Development Environments (IDEs), CICS Transaction Gateway incorporates an implementation of IBM's Common Connector Facility via a set of JavaBeans. This capability allows simplified utilisation of the gateways features and functions from within IDEs such as IBM's VisualAge for Java. Using this combination, Java based applications that interoperate with CICS servers can be rapidly developed using VisualAge for Java's visual construction features.

Efficient and effective interoperation between your CICS and Web applications is crucial to a successful and robust Web solution. CICS Transaction Gateway includes implementations of IBM's well proven External Call Interface (ECI) and External Presentation Interface (EPI) programming Interfaces. These API's are supported in a range of 3GL programming languages including C, C++ and COBOL as well as Microsoft** COM based objects.



CICS Transaction Gateway V3

Performance and scalability

Although you may be starting with a simple system today, over time your needs will no doubt grow. This will require you to scale your system to meet increased workload and demand. You need a product that will scale to match your needs.

CICS Transaction Gateway is implemented as a multithreaded Java application. Execution code has been highly optimised, enabling support for large numbers of connected Web browsers that can deliver sub-second response times to end-users. In addition, CICS Transaction Gateway can transparently exploit the hardware architecture of Symmetric Multiprocessor (SMP) machines.

Using integrated CICS Universal Clients functionality, CICS Transaction Gateway provides both the efficient communications with CICS servers you need with the scalability required for future growth. When you need to support a high Web access workload with large numbers of browsers, CICS Transaction Gateway's sophisticated load balancing facilities enable transactional workload to be distributed across a number of CICS regions or CICS servers as appropriate.

Comprehensive security

Access to your business critical applications needs to be secure and safe. CICS Transaction Gateway provides a wide and comprehensive range of security features to ensure that all your security needs are satisfied.

Privacy is ensured through support for Secure Sockets Layer (SSL) and HTTP over SSL (HTTP-S), using encryption of the data flows between the browser and gateway.

Using userids and passwords familiar to your CICS application system, CICS Transaction Gateway provides a secure authentication capability. In addition, you can extend this facility by using the new External Security Interface (ESI) allowing appropriate external applications of your choice to verify user ids and passwords as well as process expired passwords.

Finally, CICS Transaction Gateway allows the standard CICS server authorisation mechanisms to operate, letting you control end-user access to both transactions and data.