IBM CICS for MVS/ESA
Version 4 Release 1

The evolution of the enterprise server. . .

Space for CICS family motif.

CICS, Application Server...
The transaction-processing strengths of CICS in an enterprise computing environment are appreciated and exploited world-wide.

But CICS is more than an exceptionally capable transaction processor: it is an application server that allows you to distribute applications and data flexibly across your network in any way that your changing enterprise may need.

Now, V4R1 of CICS for MVS/ESA provides...

New enterprise integration facilities
that bridge system boundaries to connect to your customers wherever they may be, and free your enterprise to grow the way you want.

Parallel computing support
making the benefits of new technology available to you immediately.

Greater availability and performance
through substantial enhancements to CICS and other systems components.

Enhanced systems management facilities
that increase your operational efficiency, and allow you to improve your service level commitments.

CICS for MVS/ESA Version 4 Release 1

Enterprise integration

Version 4 Release 1 brings a variety of improvements and new functions for making CICS more than ever the system of choice for an open enterprise world.

- A new external CICS interface makes it easy for your CICS applications to be invoked seamlessly by other application programs, over an MRO link. The calling and called programs can be in the same MVS region, or in different local MVS regions. In addition, services in CICS family members on connected workstations and servers throughout the enterprise can be made available to the calling program.

  This new interface is used by an IBM product called Open Edition Distributed Computing Environment Application Support for CICS. This enables client applications to access CICS resources from anywhere in a DCE environment, using DCE′s Remote Procedure Call (RPC).

- Configuration management is simpler now that you can automatically connect your client/server workstations with the extension of autoinstall to LU6.2 parallel sessions.

- An enhanced front end programming interface (FEPI) gives you even greater security and improved monitoring for connecting to existing 3270 CICS or IMS applications. Integration of FEPI into CICS means easier installation and maintenance of your system.

- Non-terminal transactions - providing service on behalf of many end-users - now have the same level of security as terminal transactions. This improvement is particularly valuable for transactions started by IBM′s new MQSeries for MVS/ESA product.

- Those with special application development needs now have more control over CICS internals through additional exits and API/SPI extensions.

Availability and performance

Version 4 Release 1 has a number of substantial enhancements:

- Your user application programs and data are now protected through transaction isolation. This is in addition to the storage protection introduced in CICS/ESA V3.3 which protects CICS code and data.

- Your CICS-DB2 applications will realize improved performance through an integrated DB2 adaptor.

- You can now achieve improved communications performance between local MVS images by replacing ISC/VTAM links with MRO links.

- Your users will be back to work sooner after unplanned outages through CICS use of VTAM′s persistent session support. It provides a fast restart-in-place for terminals, with no need to log on again.

- You can benefit from improved availability between connected CICS systems with the intersystem session queue management facility that recognizes and responds positively to bottlenecks.

CICS and parallel computing

Version 4 Release 1 exploits IBM's new S/390 Parallel Transaction Server (PTS). Without the need for any changes to your applications, you can enjoy the benefits of:

- reduced cost of computing
- incremental growth
- continuous availability
- immense capacity

. . . and all with the widely accepted strengths of the MVS environment.

Systems management

Version 4 Release 1 provides improved systems management, which is further enhanced by use of the CICSPlex SM/ESA product.

- Within multiple CICS address spaces, you can:
  - minimize the effect of unplanned AOR outages by routing work to other AORs
  - protect users from interruption while dynamically removing an AOR from service
  - improve system throughput for a varying workload.
- You can manage your system to meet business goals and service level agreements. CICSPlex SM/ESA, used in conjunction with CICS and MVS/ESA 5.1 will manage your workload to achieve goals that you specify for resource utilization and service class.

  The CICS Transaction Affinities Utility can help you identify and avoid transaction interdependencies, or affinities, that might otherwise limit the effectiveness of workload management.
- You can shield your end users from system specifics with the ability to logon using a single name to a set of CICS regions within local MVS images without having to know which regions are available. This facility uses the new VTAM generic resource function which improves availability and makes a group of CICS regions appear to be a single CICS region - especially important for PTS.
- You no longer need to define your programs and mapsets as autoinstall now extends to these objects as well.
- You can create alternate message tables that meet your needs by using the new message editing facility to tailor or translate CICS messages.
- You also have improved CICS systems management capability with:
  - dynamic addition of MRO links without needing to quiesce all MRO activity
  - the ability to move CICS regions between local MVS images without changing the link definition from MRO to ISC.

Highlights of Version 4 Release 1 of CICS for MVS/ESA

- Transaction isolation
- Fast restart using VTAM persistent sessions
- Stress containment by session queue manager
- Simplified session initiation using VTAM generic resources
- MRO links between local MVS images
- Goal-oriented workload management
- Improved facilities for dynamic transaction routing
- Support for IBM's S/390 Parallel Transaction Server
- Integrated DB2 adaptor
- External call interface
- Security for non-terminal transactions
- Better access to CICS state data
- Integrated FEPI with enhanced security, monitoring and statistics
- Autoinstall for programs and mapsets
- Autoinstall for LU6.2 parallel sessions
- Improved monitoring and statistics
- Message editing utility
- Additional exits and API/SPI extensions

To complete the package

There are numerous other enhancements:

- Over 100 new customer requirements have been satisfied in this version, especially in the area of security.
- Even greater quality and reliability, through additional product restructuring.
- Easier problem determination, with additional and more controllable trace.

Information for decision-makers

Ordering information	CICS/ESA V4.1 Program number 5655-018
Helpful guides	CICS/ESA V4.1 Release Guide (GC33-1161) CICS/ESA V4.1 Migration Guide (GC33-1162)
Complementary products	• DATABASE 2 (DB2) (5665-DB2) • CICSPlex System Manager/ESA (5695-081) • CICS Transaction Affinities Utility (5696-582) • MQSeries for MVS/ESA (5695-137) • Open Edition Distributed Computing Environment Application Support for CICS (OE DCE AS/CICS) (5655-064)

This information applies to Version 4.1 of the IBM licensed program CICS for MVS/ESA

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