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# Unicenter

## NetMaster Socket Management for CICS Release Summary

Version 1.0



**Computer Associates**  
The Software That Manages eBusiness



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# Unicenter NetMaster Socket Management for CICS Features

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Unicenter NetMaster Socket Management for CICS extends your investment in Unicenter NetMaster IP management enabling you to gain greater insight into your CICS socket-based connections.

After more than 30 years, CICS still lies at the heart of enterprise transaction and messaging operations with most of the world's financial transactions processed by CICS. Today's eBusiness focused world sees CICS/TS as also the most web-enabled application of all mainframe based applications. The web-enablement of CICS/TS has introduced issues regarding the effective management of the associated IP network connections. Today's network professional is challenged with understanding the relevance of each connection to the business as well as providing responsive network diagnosis when network problems occur.

The following is a list of Socket Management Release 1.0 features

- Sessions and Servers Application Response Time Statistics
- Integration into dynamic trace facilities
- LMP Integration

## Unicenter NetMaster Integration

Unicenter NetMaster Socket Management for CICS has the ability to share session and server level information down to the transaction level for all CICS tasks using the EZASOCKET (or EZACICAL) API interface. Unicenter NetMaster provides an interface where the session and server.

Unicenter NetMaster allows:

- Operators to examine sessions and servers for detailed activity
- You to easily connect the CICS task to its associated TCP/IP session
- You to identify through Unicenter NetMaster when the last EZASOCKET call was executed
- An operator to look at a CICS TCP/IP EZASOCKET API session to discern whether a session has an in flight socket call in progress or whether the transaction is executing inside application code

## Sessions and Servers Application Response Time Statistics

Unicenter NetMaster Socket Management for CICS keeps EZASOCKET (or EZACICAL) call statistics both at the session and server level. Statistics and time stamps are kept for every EZASOCKET verb. Session and transaction level statistics are updated by every EZA socket call. At any time during the life of a session, you can tell what occurred at the appropriate session, task or server level.

## Integration into Dynamic Trace Facilities

Unicenter NetMaster Socket Management for CICS can trace each EZASOCKET (or EZACICAL) call dynamically through the TCPEEP EZA trace facility. You can trace sessions or servers at the address space, session, or host level.

Dynamic EZA TCPEEP tracing invocation means that information can be gathered without any changes to any CICS applications or the CICS environment. EZA tracing is turned on when a batch TCPEEP job requests EZA level information.

## LMP Integration

Unicenter NetMaster Socket Management for CICS has been integrated into LMP key interface. The LMP key enables sites to turn on Computer Associates products using a standard centralized feature. Unicenter NetMaster Socket Management for CICS benefits eBusiness.

Unicenter NetMaster Socket Management for CICS is a powerful add-on product to Unicenter NetMaster Network Management for TCP/IP and Unicenter NetMaster Network Operations for TCP/IP. It provides heightened awareness and a more detailed analysis of your CICS sockets-based connections. For those people commissioned with managing your organization's mainframe CICS networked environment, Unicenter NetMaster Socket Management for CICS is an invaluable resource.

### Increase Service Awareness

As we standardize on IP as the basis for mainframe network connectivity, the network operator is commissioned with managing a large number of network connections at any one time. In organizations where CICS is deemed to be mission-critical, IP based connections to CICS take on significant importance. Unicenter NetMaster Socket Management for CICS allows an operator to easily identify CICS IP connections and to view the transaction details, ensuring that the operator understands the associated business usage.

### Simplify Network Problem Diagnosis

When diagnosing any problem the more you know about the problem the better. This is no different for diagnosing CICS connection problems. Having an integrated display of key network information and detailed CICS information enables quicker identification of the cause and faster problem resolution. It enables the disconnect between CICS and network personnel to be resolved by providing the key information that links the two environments and interrelated data.

## Distinctive Features

The following is a description of Unicenter NetMaster Socket Management for CICS' distinctive features:

### CICS Connection Lists

Unicenter NetMaster Socket Management provides CICS specific connection list displays, which detail additional information, such as initial transaction identifier, current transaction identifier and associated CICS user ID. This information can be viewed based on criteria, such as CICS application, transaction ID, terminal and user ID. The ability to display CICS connections based on a variety of criteria allows an operator to quickly identify the connection or connections associated with a reported problem.

### CICS Monitor Resources

CICS Monitor resources can be viewed from the IP Resource Monitor and allow for the monitoring of performance criteria associated with a CICS address space. Attributes that can be monitored include:

- CPU utilization
- Job count
- Total connections for a port

An operator is able to view historical information for all monitored attributes, as well as view a CICS Connection List showing all connections associated with the CICS region.

### Detailed CICS Connection Display

Information on a specific CICS connection can provide details associated with the CICS usage of the connection, such as:

- Session type
- Server statistics
- Session statistics
- Transaction statistics and verb statistics and associated response time data

This information can be extremely valuable when debugging application issues that are resulting in slow response time or hung connections.

## CICS Socket Connection Drop

Unicenter NetMaster Socket Management for CICS allows a socket connection to be terminated via the CICS application. Often dropping an IP connection can result in CICS still believing that a connection exists, allowing the connection to be dropped from a CICS perspective ensures that that the connection is cleaned up completely.

## Unicenter NetMaster Integration

As a supplemental product to both Unicenter NetMaster Network Management for TCP/IP and Unicenter NetMaster Network Operations for TCP/IP, Unicenter NetMaster Socket Management for CICS benefits from the comprehensive TCP/IP management provided in these products. CICS connections benefit from the standard connection support, which includes the ability to issue IP commands such as ping and traceroute, view key response time data and initiate tracing as well as many other functions.

## Delivering the Infrastructure to Ensure eBusiness Success

Unicenter delivers a family of integrated management solutions that ensure the health and performance of all aspects of the eBusiness infrastructure. Offering unmatched scalability and administration in a modular, easy-to-use design, Unicenter grows with your company's needs. Its tightly integrated set of core solutions includes network and systems management, automated operations, IT resource management, database, web infrastructure, and application management. These powerful solutions leverage a flexible architecture, innovative intelligence and visualization – enabling true end-to-end service level assurance of the whole environment and delivering superior, high-impact business enablement.







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