# Unicenter® SOLVE:CPT™

# Release Summary

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Chapter 1

# Changes to Existing Features

Unicenter® Solve:CPT™ extends your investment in Unicenter® NetMaster™ Internet Protocol management by 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 Internet Protocol network connections. Today's network professional is challenged with understanding the relevance of each connection to the business and providing responsive network diagnosis when network problems occur.

Changed features include the following:


- Unicenter NetMaster Integration
- Sessions and Servers Application Response Time Statistics
- Integration into Dynamic Trace Facilities
- LMP Integration
- TCP/IP Stack Independence
- IBM C LE Support
- Dynamic Server Startup Facility
- EZACONFG Compatibility

# Unicenter NetMaster Integration

Unicenter Solve:CPT has the ability to share session and server level information down to the transaction level information for all CICS tasks using the EZASOKET (or EZACICAL) API interface.

Unicenter NetMaster enables operators to examine sessions and servers for detailed activity.

You can do the following:

- Easily connect the CICS task to its associated TCP/IP session
- Identify through Unicenter NetMaster when the last EZASOKET call was executed

It enables you to look at a CICS TCP/IP EZASOKET API session to determine whether a session has an in flight socket call in progress or the transaction is executing inside application code.

# Sessions and Servers Application Response Time Statistics

Unicenter Solve:CPT keeps EZASOKET (and/or EZACICAL) call statistics both at the session and server level. Statistics and time stamps are kept for every EZASOKET verb. Session and transaction level statistics are updated by every EZA socket call. At any time during the life of a session, one can tell what has occurred at the appropriate session, task, or server level.

# Integration into Dynamic Trace Facilities

Unicenter Solve:CPT can trace each of the CPT EZASOKET (or EZACICAL) calls dynamically through the TCPEEP trace facility.

You can trace sessions or servers at the address space, session, or host level.

You can do the following:

- CPT, EZASOKET, and EZACICAL calls and their parameter lists both into and out of the TCP/IP region
- TCP/IP sessions as their ownership pass between CICS tasks
- Data the product places on or removes from CICS queues.

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

# LMP Integration

Unicenter Solve:CPT has been integrated into the LMP key interface. The LMP key enables sites to turn on CA products using a standard centralized feature.

## Benefits eBusiness

Unicenter Solve:CPT 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 Solve:CPT is an invaluable resource.

## Increases Service Awareness

As we standardize on Internet Protocol 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 were CICS is deemed to be mission-critical, Internet Protocol based connections to CICS take on significant importance. Unicenter Solve:CPT enables an operator to easily identify CICS Internet Protocol connections and to view the transaction details, ensuring that you understand the associated business usage.

### Simplifies Network Problem Diagnosis

When diagnosing any problem, the more you know about the problem the better. This is no difference when 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 disconnection between CICS and network personnel to be resolved by providing the key information that links the two environments and inter-related data.

## TCP/IP Stack Independence

Unicenter Solve:CPT was rewritten to take advantage of the EZASOKET API. This enables Unicenter Solve:CPT applications to run over both CA's Unicenter® TCPaccess™ Communications Server and IBM's TCPIP implementations.

## IBM C LE Support

We provide IBM C LE application support.

## Dynamic Server Startup Facility

Servers and application transactions can be configured to start at product initialization. Servers and applications can be configured under our T09MTRAN facility. They can be dynamically shut down and restarted through our CA-NetMaster interface.

# EZACONFG Compatibility

EZACONFG compatibility is now implemented at both the CFG0000 and LCA0000 control block level.

# Distinctive Features

This section describes distinctive features of Unicenter SOLVE:CPT

## CICS Connection Lists

Unicenter Solve:CPT 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 Internet Protocol Resource Monitor and allow for the monitoring of performance criteria associated with a CICS address space.

Attributes that can be monitored includes the following:

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

As well as being able to view historical information for all monitored attributes, an operator can also view a CICS Connection List showing all connections associated with the CICS region.

## Detailed CICS Connection Display

Detailed information on a specific CICS connection can be solicited that provides extensive information associated with the CICS usage of the connection.

Information includes the following:

- Session type
- Server statistics
- Session statistics
- Transaction statistics
- Verb statistics
- 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 Solve:CPT allows a socket connection to be terminated through the CICS application. Often dropping an Internet Protocol connection can result in CICS still believing that a connection exists, allowing the connection to be dropped from a CICS perspective ensures 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 Solve:CPT 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 Internet Protocol 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 to 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 the following:

- Network and systems management
- Automated operations
- IT resource management
- Database, web infrastructure
- 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.

## Web Sites with Additional Information

You can find out more information about CA products on Computer Associates web site http://ca.com. The documentation can be downloaded from the SupportConnect web site http://supportconnect.ca.com.