

CICS Transaction Server for z/OS

☐ System Tailoring and Administration

Blended Learning Module

IBM CICS TS for z/OS

System Tailoring and Administration

Version 1.2, December 2023

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1.1 IBM CICS Transaction Server for z/OS – System Tailoring and

Administration Objectives of this training module

- Participants will be able to plan a CICS TS installation and set up CICS TS regions to support the execution of various applications. These can be both traditional and modern applications, or a mixture of both.
- Participants can set up a system configuration necessary to support the features required by the applications. These include, for example, connecting CICS regions within one or more z/OS LPARs, configuring connections to external systems and machines for both data access and application integration, or secure access to CICS regions to specific application resources and functions.
- Participants can efficiently use the capabilities (transactions, utilities, and tools) provided by CICS to configure and manage system and application resources in their respective runtime environments.
- Participants are able to secure a CICS environment by setting up security to control both user access to CICS and access to selected facilities, limit the functionality of the connected systems, and have knowledge in the collection of diagnostic data provided by CICS TS to monitor the regular behavior of the system and the applications and perform high-level troubleshooting.

Content

CICS TS – Review of the Basics

CICS as a multi-language application server, integration and architecture options

CICS TS Installation and Verification (IVP)

Installation Planning and Options
DFHISTAR, IVP

Resource Definition and Administration Concepts

Resource Definition Online and Batch –
CEDA, DFHCSDUP
CEMT Master Terminal Transaction
Setting up and using the CICS Explorer
CPSM Basics

Setting up and operating a CICS TS region

Start-up options, SIT, start-up PLT
Logging Configuration
Shutdown and Restart Options

Application configuration and management

Accesses and Connectivity Transactions,
Programs, Mapsets, URLmaps, Data Access
Files and Queues
External Systems
- DB2, MQ, IMS/DBCTL

Configuration and management of a CICS intercommunication

Interconnectivity Methods
- MRO, XCF, ISC, IPIC
Interconnectivity Functions
- Functions Shipping, Distributed
Program Link, Asynchronous Transaction
Processing

Setting up and management of modern interfaces

- Setting up Java incl. Liberty Server
- Web Services
- JSON (REST) and Node.js

Securing CICS TS

CICS TS Security Requirements
Authorization and Authentication
Certificates and Distributed
Identities

Sysplex Options

VSAM RLS
Shared TS Queue
Shared Data Tables

Monitoring CICS and Applications

Statistics
Monitoring

Basic Troubleshooting

Message logs,
traces , and dumps

Hands-on labs

Hands-on exercises, where all participants set up their own CICS TS region and practice configurations to support different types of applications and system requirements, will reinforce and deepen the information conveyed in the presentations.