



Mainframe Topology

Getting Started Guide

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Introduction

Put an end to endless meetings, whiteboards, paper diagrams and the massive manual effort associated with trying to understand your mainframe environment.

Mainframe Topology from Broadcom **automatically** discovers your zOS systems and resources by reading your SMF data, allowing you to quickly and easily gain a comprehensive understanding of your entire mainframe hierarchy. Mainframe Topology looks at the last 24 hours of data, providing you an up-to-date big picture view of your mainframe with the push of a button.

This document provides a summary of the steps and best practices to help you quickly get started with the installation, deployment, and configuration of Mainframe Topology.

The summary includes:

- A brief description of the tasks and prerequisites associated with each step
- Role(s) typically required to execute each step
- Estimated time to complete each step

Print this document as a checklist and mark the status of the task as complete, to be done (TBD), or not applicable (N/A).

Installation Checklist

Prepare for Installation

| Step | Description | Role | Time Estimate | Status |
|---|--|--|---------------|--------|
| Review Installation Best Practices | <ul style="list-style-type: none"> Configure Mainframe Topology for maintenance. Sign up for HIPER notifications. Register on Broadcom Support. Apply IBM maintenance. | Systems Programmer Security Administrator | 20 minutes | |
| Address Pre-Installation Requirements | <ul style="list-style-type: none"> Verify that Java is installed with the correct version. Verify the zFS file system and the free disk space available. Verify that a TCP/IP port is available to be assigned for the Mainframe Topology API server. Verify the installer user ID privileges. | Systems Programmer Security Administrator | 30 minutes | |
| Select an Installation Method | <ul style="list-style-type: none"> Use CSM...or Use native SMP/E JCL. | Systems Programmer | 5 minutes | |
| Print Installation Worksheet | Use the installation worksheet to keep track of the installation parameters. | Systems Programmer Security Administrator | 5 minutes | |

Installation and Maintenance

| Step | Description | Role | Time Estimate | Status |
|-------------------------------------|--|--------------------|--|--------|
| Install the Product | <ul style="list-style-type: none"> Install using CSM. Install using SMP/E JCL. | Systems Programmer | 25 minutes 1.5 hours | |
| Install Maintenance | <ul style="list-style-type: none"> Apply all PTFs required to bring Mainframe Topology to current maintenance. Obtain the current SMP/E HOLDDATA, or download the external HOLDDATA file. Receive, apply, and accept maintenance. | Systems Programmer | Depends on number of fixes. Usually 10 minutes per fix. | |

Deployment and Configuration

| Step | Description | Role | Time Estimate | Status |
|--|---|------------------------|---------------|--------|
| Complete Configuration Tasks | <ul style="list-style-type: none"> • Determine database space requirements. • Determine disk space requirements. • Generate and run configuration jobs. • Create and mount deployment zFS file system. • Copy additional USS files to data sets. • Mark all native libraries as program controlled. | Systems Programmer | 1 hour | |
| Configure Security | <ul style="list-style-type: none"> • Select a security manager. • Set permission for User IDs using the security manager. • Configure API server for TLS. • Configure API server for SAF authorization. | Security Administrator | 3 hours | |

Run Mainframe Topology

| Step | Description | Role | Time Estimate | Status |
|---------------------------------|--|--------------------|---------------|--------|
| Run the Product | <ul style="list-style-type: none"> • Ensure user IDs have required access to data sets and execute the appropriate STCs. • Configure monitored CICS regions. • Verify location of the data set containing the SMF data. • Run the extractor-aggregator. • Run the API Server. • Set up runtime and security privileges for user IDs. | Systems Programmer | 30 minutes | |

| | | | | |
|---|--|--------------------|--|--|
| Verify the Installation | <ul style="list-style-type: none"> Download a sample SMF data set. Verify the URL. | Systems Programmer | 30 minutes | |
| Automate the Extractor-Aggregator | <ul style="list-style-type: none"> (Optional) Automate the extractor-aggregator job. | Systems Programmer | Depends on site. 1 hour as reference. | |

Integration

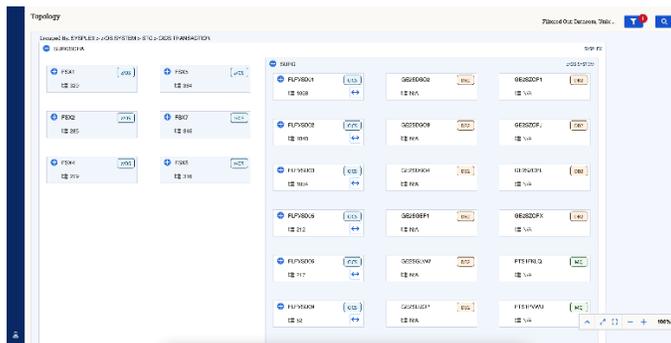
| Step | Description | Role | Time Estimate | Status |
|--|--|--|---------------|--------|
| (Optional) Integrate with API Meditation Layer | <ul style="list-style-type: none"> Assess whether to integrate Mainframe Topology with API ML. Configure the key ring for API ML in your Security Manager. | Systems Programmer Security Administrator | 40 minutes | |

Using Mainframe Topology

Mainframe Topology analyzes your SMF data and provides multiple views of the components within your mainframe environment and the relationships between those components. This information allows operators and application developers to more quickly identify and troubleshoot the cause of an issue. In addition, by having a big picture view of your overall mainframe hierarchy at your fingertips, you can better understand the impact of a potential change, helping you prevent problems from occurring in the first place.

Hierarchical View

The *Hierarchical View* enables you to display and browse the layout of your datacenter, viewing zOS resources such as Sysplex, LPARs, databases, started tasks, CICS regions, and transactions.

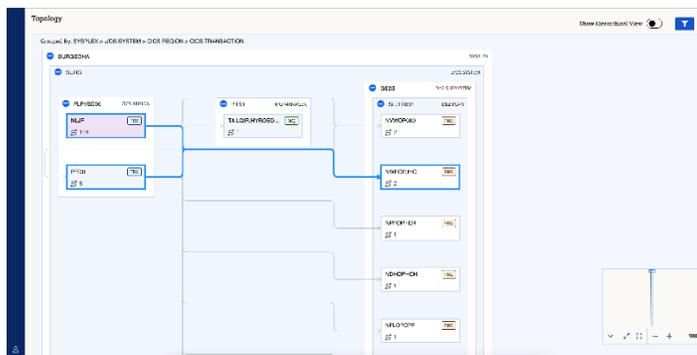


Component View

Each component within your mainframe hierarchy can be a part of many different possible flows. The *Component View* aggregates the flows based on a selected component, for example all the flows going through the transactions within a specific CICS region.

Connected View

Millions of CICS transaction flows are typically executed daily on a given Sysplex. Each transaction can be a part of many different possible flows. The *Connected View* aggregates flows based on a particular transaction, enabling you to quickly visualize the connections that precede or follow a specific transaction in the flow.



Broadcom is here to help, so please don't hesitate to reach out to the team if you have any questions or need assistance. Click [here](#) to "Talk to an Expert" or go to mainframe.broadcom.com

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