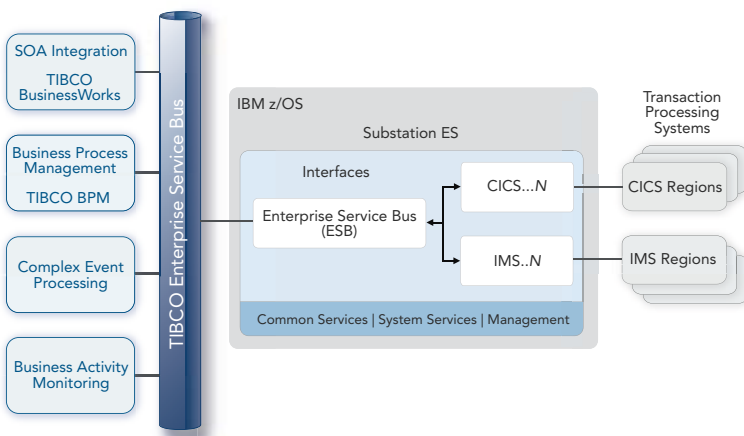


TIBCO Substation ES

Enterprises often use transaction processes to gain access to valuable data on mainframe systems. In most data models today, this data, as well as the associated business rules, needs to be included in an enterprise's service-oriented architecture (SOA) framework. TIBCO Substation ES™ makes this an easy task as all of its in-flight information is available to the enterprise service bus (ESB), which uses TIBCO Enterprise Message Service™ or TIBCO Rendezvous® messaging. For an effective implementation, enterprises require a highly scalable and resource efficient solution that feeds into an ESB or messaging application – one that is easy to install, use, and maintain. Substation ES meets or exceeds these requirements.

TIBCO Substation ES enables businesses to incorporate their mainframe processes into TIBCO's core SOA-enabling backbone and its ESB. Substation ES provides bi-directional capability to initiate requests and to provide information from and to mainframe processes and transactions in IMS, CICS, and batch regions. This information can very easily be utilized and orchestrated by TIBCO BusinessWorks™, TIBCO BusinessEvents™, and/or TIBCO BPM solutions, and directly fed into message-enabled and/or web applications and other processes.



TIBCO Substation ES provides a simple but effective mechanism to include mainframe transactional resources into an SOA framework.

Substation ES is a bi-directional integration server using TIBCO messaging that enables IMS and CICS applications to communicate with web services, SOA stacks, and other mainframe applications. It offers various classes of service, different levels of service based on a user's payload requirements, as well as multiple application invocations. An easily usable configuration and administration facility allows for a rapid integration cycle.

AT A GLANCE

TIBCO Substation ES is mainframe-resident middleware that facilitates interactions such as transactions, messages, and events between TIBCO ESB products and transaction processing applications in systems such as IMS and/or CICS running in the z/OS environment. It provides an easily configurable implementation and a reliable and scalable mechanism for mainframes to participate in TIBCO's SOA solutions.

BENEFITS

- Cost-effective alternative to migrating and re-hosting data and applications that work in their current environment.
- Enhances enterprise integration by including CICS and IMS sources while maintaining the mainframe's reliability, availability, and scalability.
- High throughput to multiple CICS and IMS regions without needing a special API to perform CICS-initiated or IMS-initiated outbound events.
- Supports TIBCO Enterprise Message Service software for standards-based messaging, as well as TIBCO Rendezvous to leverage existing investments and infrastructure.
- Integrates directly with mainframe programs and queues to support a low cost, high volume interaction with CICS and IMS transaction processing environments.
- No-code required configurable environment where applications work non-intrusively in their current environment, minimizing risks of migrations and alterations.
- Data can be transformed at the orchestration layer or by Substation ES.
- Logging, tracing, error handling, and auditing are standard operations.

ATTRIBUTES & CAPABILITIES

Mainframe Resident and Modular

Substation ES is resident on the mainframe, operating as a system Started Task in a single address space, and is resource friendly. Its modular architecture allows for high scalability where communications with many IMS systems, CICS regions, external servers, and other services are simultaneously supported. Modular interfaces are plugged-in as required.

Highly Manageable and Reliable

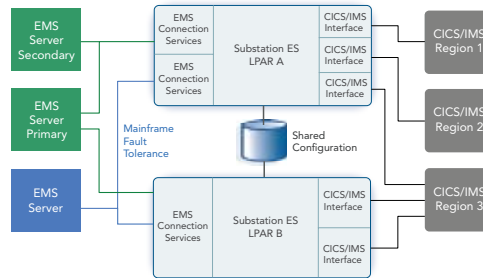
Substation ES has all the necessary tools such as security, console access, remote command interfaces, operational logs, tracing, error reporting, and monitoring capabilities, allowing your business to have a complete view of all its activities. It supports dynamic initialization, service activation, and service management of configuration items allowing for uninterrupted Substation ES operations.

Highly Scalable Solutions

The CICS and IMS interfaces operate within their own space within a Substation ES region and are independent of each other. A Substation ES region can concurrently execute a total of 40 interfaces and includes an Administration interface. Substation ES also provides concurrent network connectivity to multiple fault tolerant messaging servers, daemons, or endpoints. This combination provides businesses with highly scalable solutions.

Non-intrusive Interface

Substation ES enables CICS and IMS applications to be decoupled from the transport and integration layer. It acts as a mediator between processes on various operating platforms, accepting messages and events from applications regardless of their platform or network location and making messaged information available to CICS and IMS applications. Information can be received from CICS and IMS applications and returned in the appropriately configured format.



INTERFACING TO CICS TS

- CICS applications can call external services and get the data back while remaining in a transactional state.
- Request/Reply from external services can be made to CICS applications.
- Communications can be greater than 32 Kb.
- Transaction control, DPL Program Call, TDQ, and TSQ are just a few invocations that are used and most can be dynamically specified at run-time.
- High Volume Trigger events can handle thousands of messages per second.

INTERFACING TO IMS TM

- Uses the Open Transaction Manager Access (OTMA) protocol to provide communications.
- External applications can publish or perform request/reply communications with transactions resident in IMS Message Processing Program (MPP) regions or WFI BMPs.
- IMS applications such as MPPs, BMPs, and MFS-enabled programs can publish or redirect output (trigger information) to external applications via this interface.

Using XCF, the Substation and IMS regions can communicate with each other anywhere within the SYSPLEX or GEOPLEX.

TIBCO Software Inc. (NASDAQ: TIBX) technology digitized Wall Street in the '80s with its event-driven "Information Bus" software, which helped make real-time business a strategic differentiator in the '90s. Today, TIBCO's infrastructure software gives customers the ability to constantly innovate by connecting applications and data in a service-oriented architecture, streamlining activities through business process management, and giving people the information and intelligence tools they need to make faster and smarter decisions, what we call The Power of Now®. TIBCO serves more than 3,000 customers around the world with offices in more than 20 countries and an ecosystem of over 200 partners. Learn more at www.tibco.com.

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