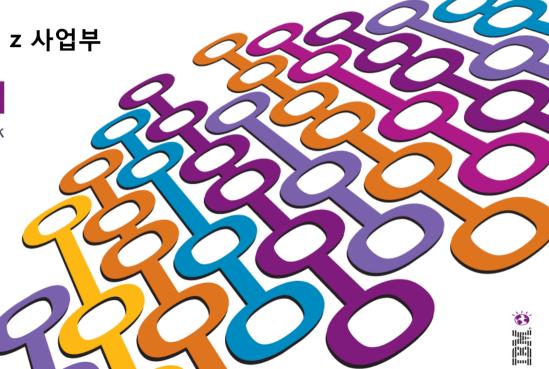
메인프레임 환경에서 애플리케이션 관리 기능과 효율적인 비즈니스 이벤트 처리 방안

정성원 차장 한국IBM 소프트웨어 그룹 System z 사업부

Impact Korea 2011

Changing the Way Business and IT Leaders Work



1



메인프레임 환경에서

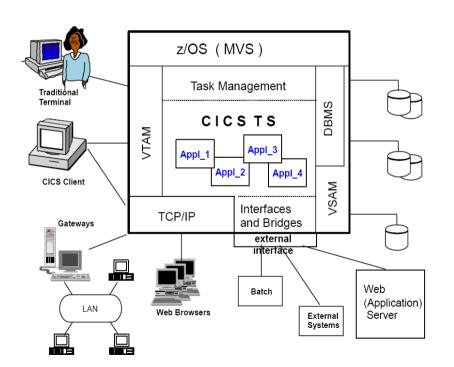
애플리케이션 관리 기능







CICS는 메인프레임 서버에서 전통적인 애플리케이션 서버로서 태스크 관리, 애플리케이션 관리, 통신 인터페이스 관리, 데이터 자원 연계 등을 지원합니다



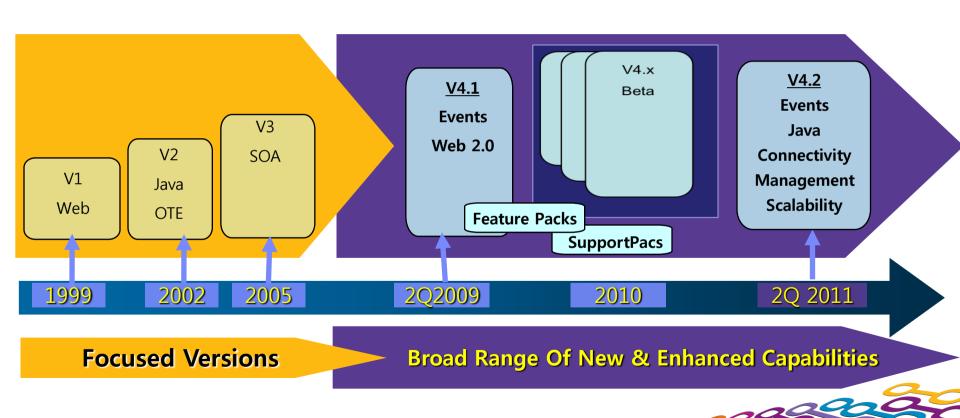






CICS Transaction Server : The Story So Far

40년의 역사를 가진 CICS(Customer Information Control System)의 제품 출시 역사 및 로드맵입니다



CICS TS V4.2 주요 향상 기능







- System Events
- Assured Events
- Lifecycle Management

- 64-bit Applications
- Multithreaded Server
- OSGi Management



연결



- Axis2 Web Services
- Web Services Offload
- HTTP & IP Extensions

관리



- Transaction Tracking
- Workload Management
- Password Phrases

확장성



- More Threadsafe
- Optimised Threadsafe



스마트한 트랜잭션 처리 경험



CICS 제품 전략



- Build an enterprise level transaction processing platform
 - -Support traditional CICS values of quality, performance and reliability
 - -Support Enterprise Modernization through
 - Mixed programming languages
 - Modern programming architectures (SOA, Web2.0 etc)
- Simplify management and reduce skills needs for CICS system programmers and application programmers
- Encourage a vibrant partner ecosystem and community
- Extend reach to emerging geographies and new customers





IBM CICS Explorer를 통한 개발 환경 통합

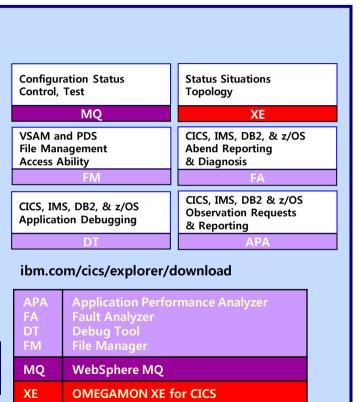
Session and user views. Daemon & Connection Configuration, Broadcast, Status & Test User and Admin commands **ISM** TG Threadsafe, File, CPU, Deployment, Response Time, Statistics, Discovery. Alerts, Graphical and Visualization, Cloning. Sheet views **Automation & Control** PA DA **Execution Tree** CRUD/Install History, Audit Backout **Dependencies Oueries Command Flow** Search, Compare IA CM SM **CICS Transaction Server** IA **CICS Interdependency Analyzer CICS Performance Analyzer** PA CM **CICS Configuration Manager CICS Deployment Assistant** DA **CICS Transaction Gateway** TG

IBM Session Manager

ISM



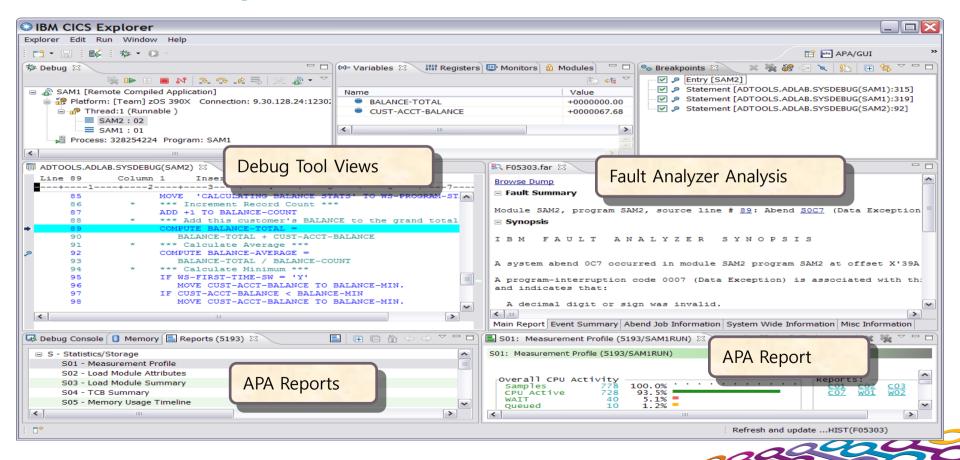
RDz



Rational Developer for System z

IBM CICS Explorer 예시 화면







메인프레임 환경에서

효율적인 비즈니스 이벤트 처리 방안



이벤트에 대한 관심 증대





1990

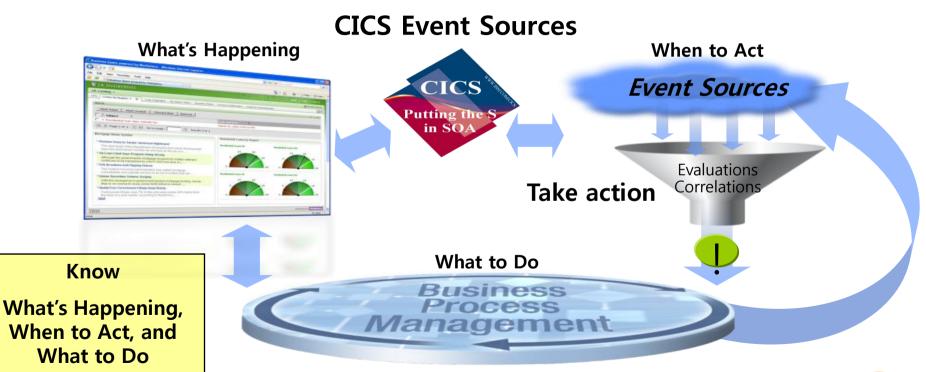
Applications: ERP/CRM

Discrete, data oriented, processing for nondifferentiating, transactional processes.



조치 가능한 실시간 통찰력

비즈니스 이벤트 처리를 위한 이벤트 캡처 및 조치





비즈니스 이벤트 처리의 정의

"보다 스마트하고 유연한 비즈니스 통찰력 확보"

Event

Pos Purchase



Business Context

2nd purchase in a week and total purchases this year > \$1000



Action: Offer loyalty program membership before customer leaves the store

Event

No meter signal



Business Context

Third consecutive period without



Action: Trigger automated troubleshooting process

Event

GPS Signal



Business Context

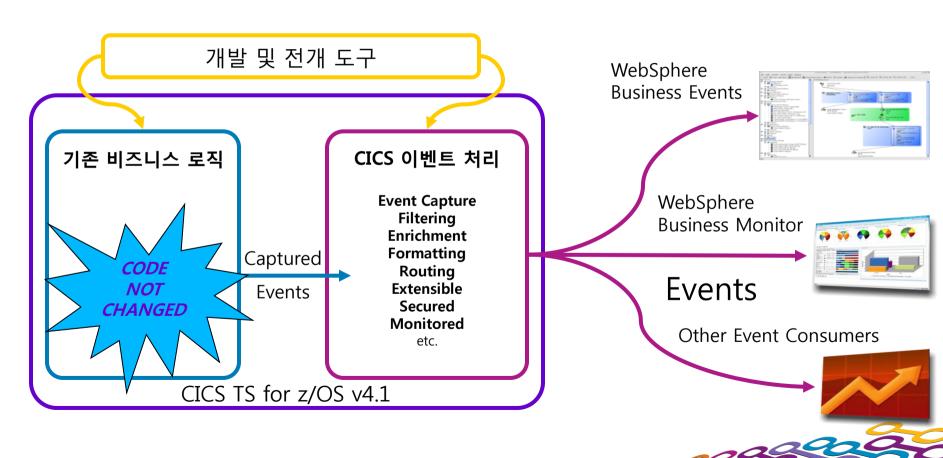
Calculated arrival > 30 min over SLA (Service Level Agreement)



Action: Phone customer to re-arrange delivery

CICS TS V4.1 이벤트 프로세스 지원 개요





CICS V4.2에서의 이벤트 처리 개선 사항

- Event Processing in CICS V4.1
 - Business event processing
 - CICS 4.1 event processing capabilities
 - Concepts and configuration
- Event Processing in CICS V4.2
 - Improved event 'Lifecycle' management:
 - Separate EP adapters
 - EP Search
 - Synchronous Emission Mode and Assured Transactional Events
 - System Events

- More data types supported for filter and capture:
 - Sign leading/trailing Zoned Decimal
 - Hexadecimal floating point
 - Binary floating point
 - Decimal floating point (requires optional hardware facility)
 - Null terminated character
 - Null terminated hex
- HTTP EP adapter performance improvements if using a URIMAP with SOCKETCLOSE set.



비즈니스 이벤트 캡쳐 포인트 (Business Event Capture Point)

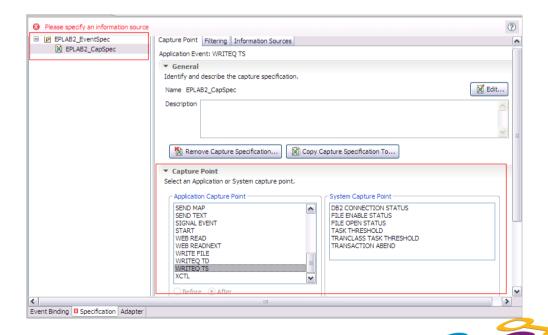
Use the Capture Point tab to describe the capture specification for a named capture point and to select a capture point from a list.

Application Capture Point

- LINK PROGRAM
- WRITE FILE
- WRITEQ TS
- 와 같은 CICS 거의 모든 API 지원

System Capture Point

- DB2 CONNECTION STATUS
- FILE ENABLE STATUS
- FILE OPEN STATUS
- TASK THRESHOLD
- TRANCLASS TASK THRESHOLD
- TRANSACTION ABEND



비즈니스 이벤트 필터 (Business Event Filters)



There are 3 types of filter that can be used to determine that an event has happened at a particular capture point:

Context filters

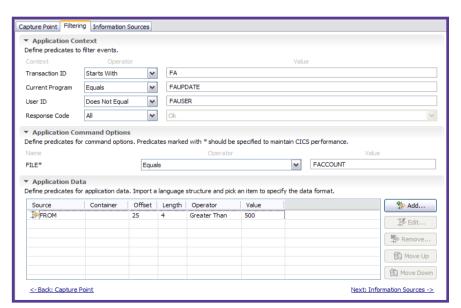
- Current Transaction
- Current Program
- Current User ID

Command option filters

- File name on a WRITE FILE command
- Channel name on LINK PROGRAM

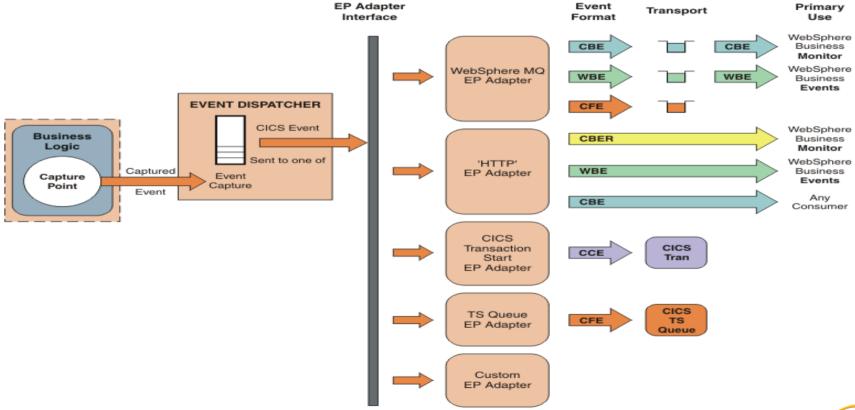
Data filters

- Integer at offset 25 in the FROM field on a WRITE
 FILE command is greater than 500
- Data in a certain container in the current channel





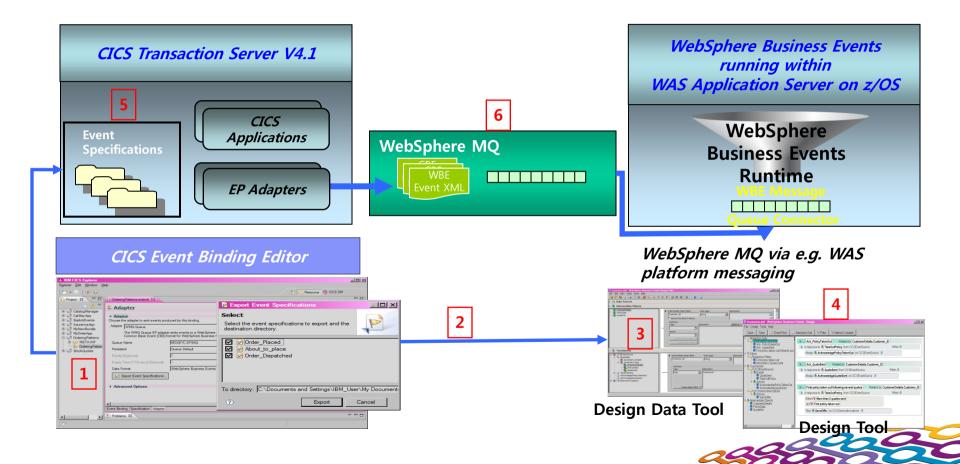
이벤트 배출(Event Emission)





CICS와 WebSphere Business Events 통합





9

CICS와 모니터 통합



