WebOTX Product Introduction

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NEC Corporation,
Cloud Platform Division,
WebOTX Group
Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow. We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs. Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.
As a service execution platform product developed by NEC, WebOTX enables system reliability, flexibility, and high performance in three areas: application server, service integration, and service component.

This presentation introduces WebOTX functions that enable service innovation with systems which are always available, adaptable to change, and use leading-edge technologies.
Requirements for the IT infrastructure

- Requirement for IT infrastructure has changed by business environment and technical environment change

- High reliability enabling non stop operation for 24h 365 days
- Flexibility quickly accommodate dynamic changes
- Security protect end to end information communication
- High performance enabling fast processing of high information volume
- Flexibility quickly adapt to business model innovation

Information System

- Service oriented architecture
- Technology for ubiquitous service
- Cloud computing
Adopting mainframe technology on Application servers, in addition, evolving to the optimal service execution platform for cloud environment.

Adapt reliability and availability technology developed for “non-stop” mainframe such as OLTP monitor, flow control, priority control, multiple process, etc...
Highly reliable platform that supports accelerating development of ubiquitous social infrastructure by cloud computing and the related new business applications and services

- **B to B**
- **Real time SCM**
- **Improvement in customer services**

**WebOTX**

- **Service Component**
  - RFID
  - WebOTX RFID Manager

- **Service Integration**
  - Service Bus
  - WebOTX Enterprise Service Bus

- **Application Server**
  - Web Application Server
  - WebOTX Application Server

- Supports rapid development of various services
- Supports construction of robust and adaptable system based on SOA
- Execution platform enabling stable system operation
What is WebOTX V8?

Service Execution Platform for next generation enterprise systems

- Efficiency
- Improved productivity of APP Development
- Cost reduction
- Simplification of system operation
- Strategic enterprise system flexibly adaptable to change
- Stable business operation
- Virtualization
- Single sigh on
- Java Batch
- SOA Governance
- Java EE 5
- JBI1.0
- High Reliability
- High Performance

What is WebOTX V8?
High performance and high reliability
WebOTX thoroughly incorporates online transaction processing (OLTP) technology proven for mainframes to achieve stable service operations. This technology prevents a system from going down or slowed down due to high transaction volume. Even if a failure occurs, WebOTX can minimize damage through prompt fault detection and automatic recovery.

Support for standard specifications
WebOTX is among leaders to support Java EE5 specification. By using reusable components, the productivity and maintainability of applications can be improved and systems can be set up promptly. In addition, applications and various package products that conform to open standards can be used as is.

High productivity
WebOTX provides an Eclipse-based integrated Java development environment that enables the efficient development of various applications according to the standard specifications. In addition, because a testing server is bundled with the development environment, it is possible to seamlessly develop, debug, and test applications.

Prompt service integration
Diverse services such as Web services, EJBs, and mainframes exist in many corporate systems. The service bus provided by WebOTX mediates interactions between the services by making their communication protocols and message formats compatible. Because this eliminates the need to implement custom integration and conversion logic for systems, the development effort is decreased.
Application Server

Execution platform enabling stable operation of both online and batch system.

- Supports various open standard and SOA based integration.
  - Highly reliable execution platform based on the latest Java standard (Java EE 5)
  - SIP application execution platform targeting NGN
- Ensure stable operation with features such as failure localization and flow control
- New feature based on the Spring Batch framework* provides Java batch processing with enhanced performance and usability

*Spring Batch framework
Open source batch processing framework communally developed by SpringSource and Accenture
Integrated Development Environment

Enabling seamless development from entire development lifecycle

- Integrated development environment based on Eclipse providing application development support for all execution platform of WebOTX.
- Low level development tools & execution test environment can be seamlessly integrated with SDE*, the NEC standard software development environment.

Development methodology

- Development methodology overview
- SOA Introduction Procedure Manual
- Document Sample

Development Platform

High level tools

Low level tools

Application development
- Deployment description editor
- Server cooperation tool
- Annotation editor

Operation
- Operation administration tool

Service cooperation
- XML data transform tool

Web service development tool

Test support tool

Debug support tool

Asset management

Coding support

WebOTX test execution environment

ESB test execution module

*SDE: SystemDirector Enterprise

Systematized development methodology with open technology, development platform, support services based on the SI know-how of NEC group
Since the release of the first version, the product has focused on the pursuit of highly reliable platform.

Support for leading market technologies such as Java EE, Web service, SOA, RFID ahead of the others.
Well established Japanese application server

▼ WebOTX application server has supported Web computing environments since 1998 across various industries including government, public, finance and manufacturing.

▼ WebOTX is used by the leading enterprises.

**Sumitomo 3M Limited and 3M ESPE Japan**
*manufacturing*
Cyclical cycle typed node cluster structure by NX 7000. Performance, reliability and flexibility exceeding mainframe.

**Miyagi Television Broadcasting Co., Ltd.**
*broadcasting*
Innovation of operation broadcasting system enabling efficient operation in preparation for the digital broadcasting.

**Sumitomo Life Insurance Company**
*insurance*
Renewal of about 50 thousand of mobile terminals for salespersons. Aiming at the customer content and improvement of consulting with speeding up and reinforced functions.

**Kitakyushu City Waterworks Bureau**
*waterworks bureau*
Innovating Web open system in water charge system for the first time in all of government-decreed Cities.

**Asahi Kasei Reform Corporation**
*housing company*
Redevelopment of reforming systems enabling integrated customer administration, improvement of efficient operation and services.

**Seiwasangyo Corporation**
*wholesale trade of drug medicine*
Predicting next generation’s technology trend redevelopment of large scale core system with Java

**TOHO Pharmaceutical Co., Ltd**
*wholesale trade of drug medicine*
Realization of mainframe migration by rebuilding systems to support increasing data, and utilize existing systems. Also development of disaster recovery system.
Building infrastructure for future open system adoption while utilizing ACOS

**Challenges and benefits**

In order to modernize ACOS, the decline of processing performance according to increasing data, and complicated data coordination, surrounding systems were arranged to infrastructure system renewal.
- Aging enterprise system renewal – ACOS renewal and open systems adoption.
- Effect of adoption – 27% reduction of order input time, and more than 50% reduction of night batch processing time in regular case.

**Current System**
- Distributed DB
- System for each department and DB

**New System**
- Consolidated DB
- Consolidated subsystem at one place can provide common functionalities to different departments

**Voice of Customer**
We predict data increase in the new enterprise business system for 10 years. We evaluate WebOTX in that infrastructure toward future full-open system has been constructed while maintaining reliability of ACOS.
Renewal of ‘integrated procurement system’ in the review process of purchasing operation and more efficient construction.

- Total replacement was done for aging system. Working for the standardization of operating process.
- Stable operation of business is the must. The system achieved stable operation without any big troubles.

**Challenges and benefits**

**Voice of Customer**

The system was not down even in case of transaction stasis trouble rooted in the application trouble.

Procurement workflow is fully automated including quote requests and final purchase order from line of business through final vendor. In this system, paper documents can be processed in the same process as electronic data.
The important point was to realize high performance utilizing WebOTX without losing system operability. However, in warehouse logistics system, we ensure ‘response under 2 seconds’ which is consuetude of the company from mainframe period, while maintaining advantage of open system such as data input screen GUI.

Business process innovation for inventory modernization and quality control

**Challenges and benefits**

Migration to new warehouse logistics system with high reliability, performance, and operability for accurate and efficient pharmaceutical products control.
- Resolving excessive inventory, and shortening logistics lead time
- Utilizing advantage of open system such as GUI adoption in data input screen
- Realizing response under 2 seconds in spite of dramatic increase of managing data
- Declining workload of administrator with rich client automatic update utilizing downloader function

**Voice of Customer**

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Thank You

Application Service Platform for the age of cloud-computing

For more product information & request for trial license, visit >> http://www.nec.com/webotx/

For more information, feel free to contact us - global@soft.jp.nec.com
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