

WebOTX Product Introduction

November, 2015

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.

Introduction

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 enables 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

High performance enabling fast processing of high information volume

Flexibility quickly adapt to business model innovation

Security protect end to end information communication

Information System

Service oriented architecture

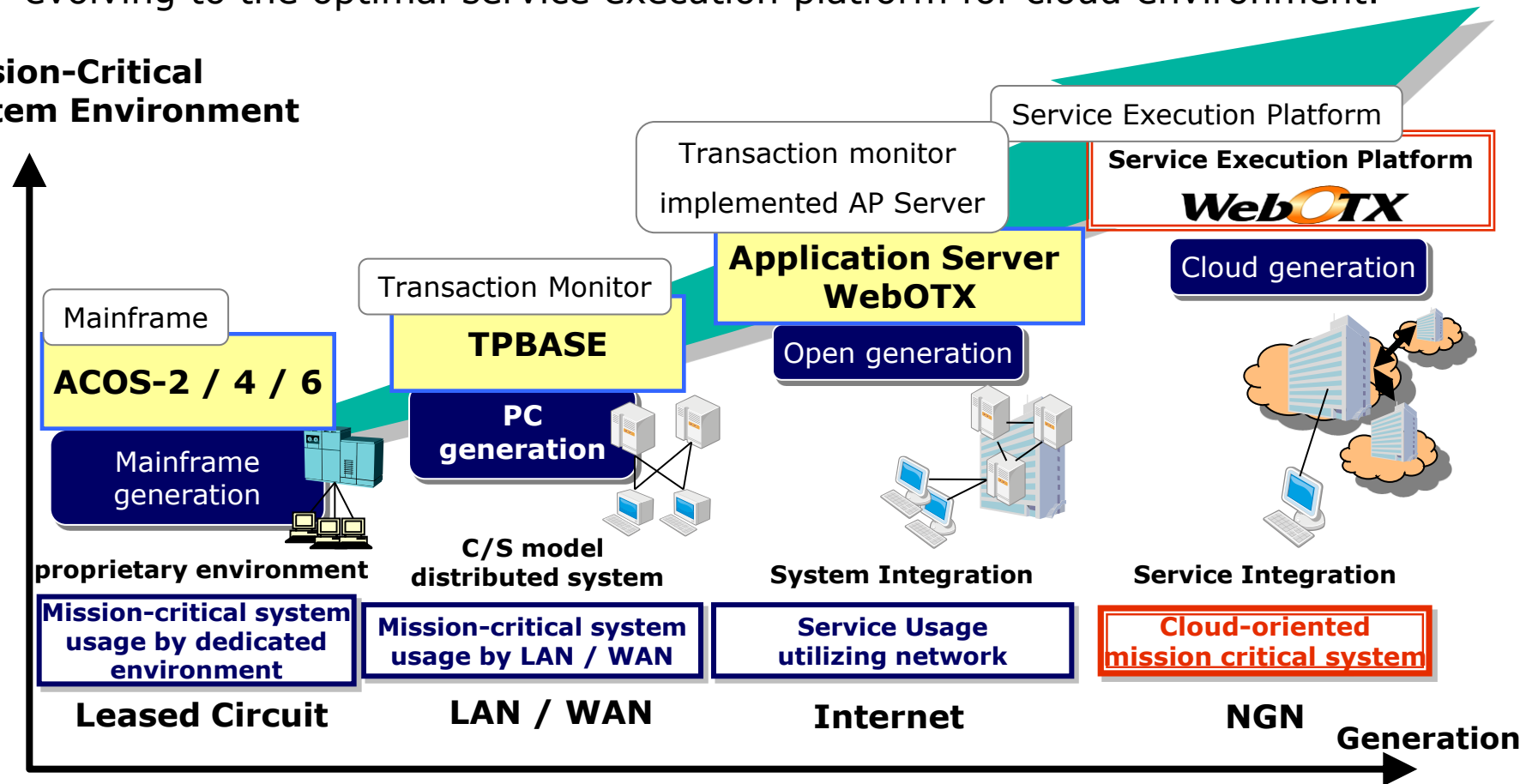
Technology for ubiquitous service

Cloud computing

Service Execution Platform inherited the strengths of mainframe computing

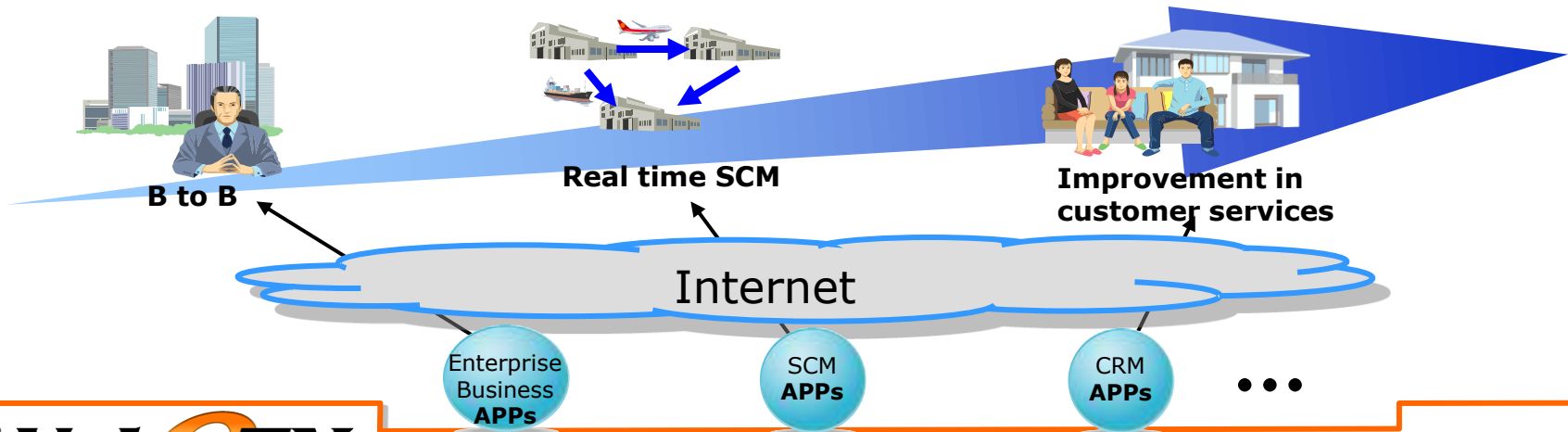
Adopting mainframe technology on Application servers, in addition, evolving to the optimal service execution platform for cloud environment.

Mission-Critical System Environment

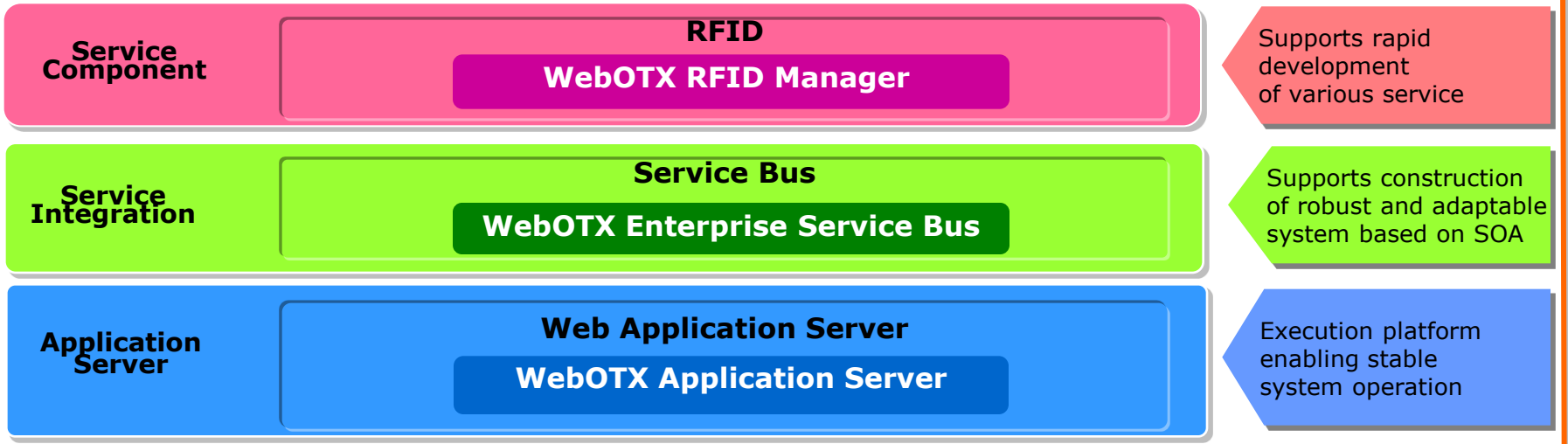


What is Service Execution Platform?

- Highly reliable platform that supports accelerating development of ubiquitous social infrastructure by cloud computing and the related new business applications and services

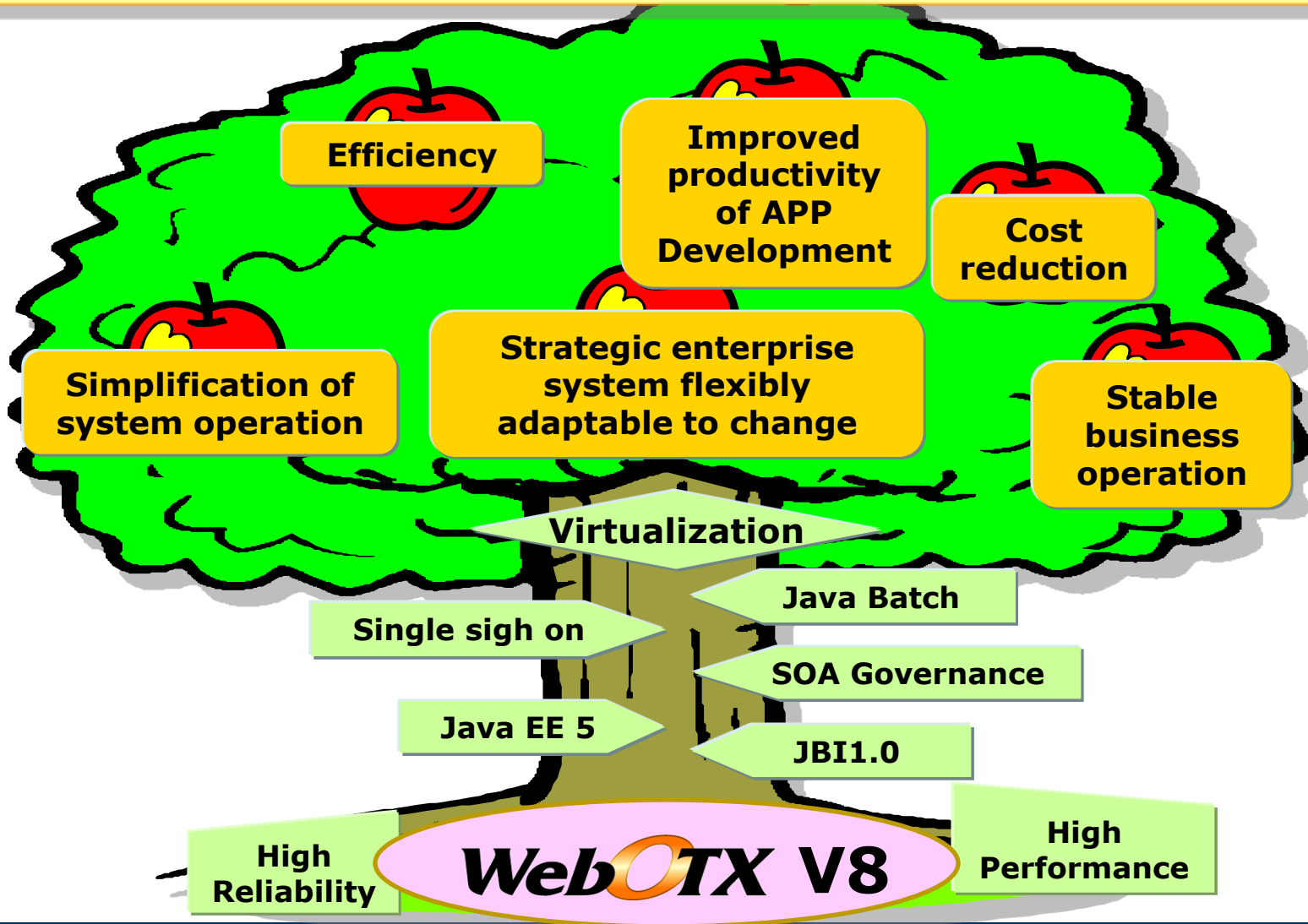


WebOTX



What is WebOTX V8?

Service Execution Platform for next generation enterprise systems



WebOTX V8 Features

■ 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

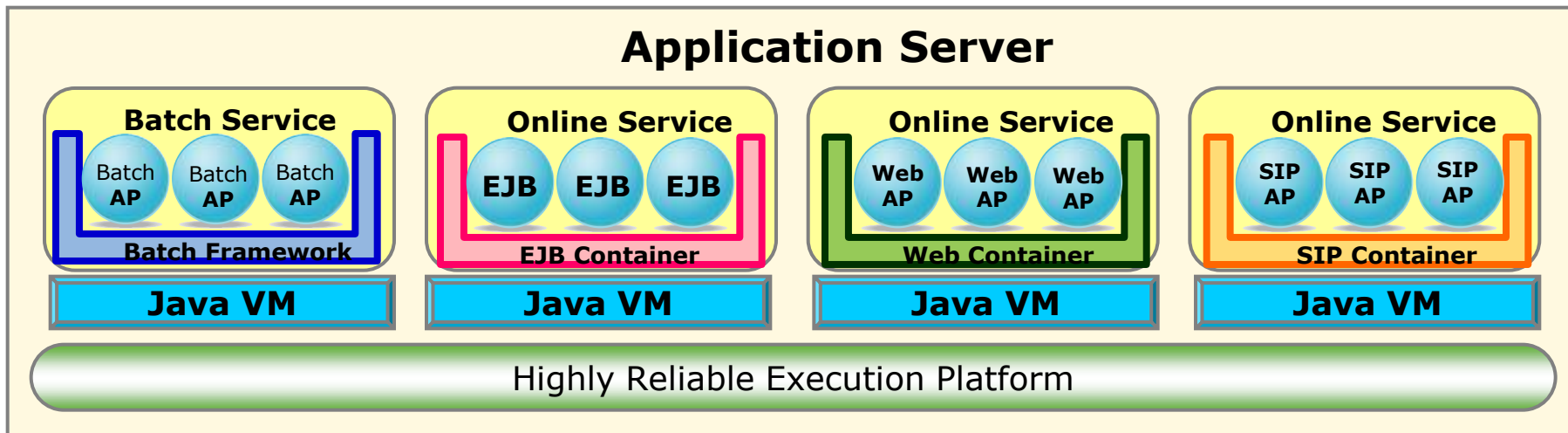
Diverse services such as Web services, EJBs, and mainframes exist in many corporate systems. The service bus provided by WebOTX mediates interactions between the services by making their communication protocols and message formats compatible. Because this eliminates the need to implement custom integration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

WebOTX



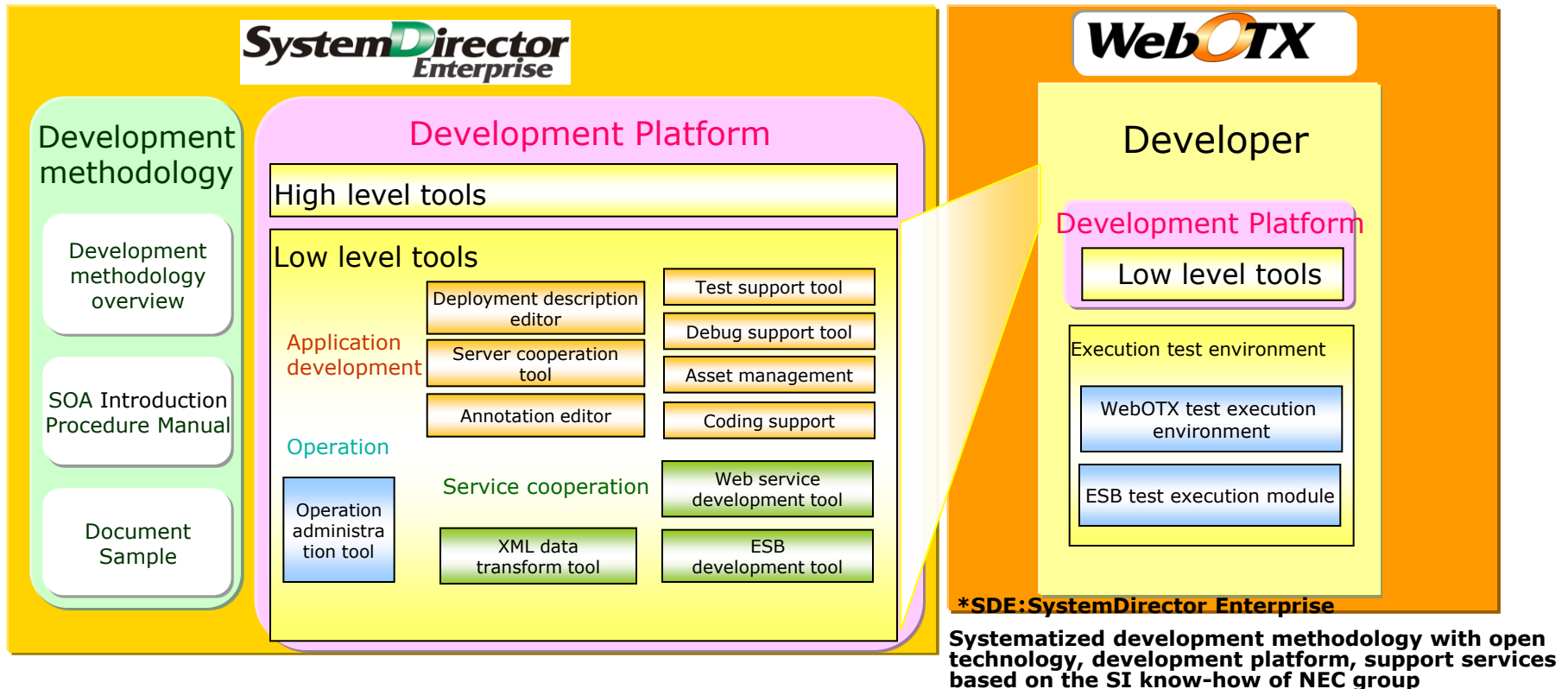
*Spring Batch framework

Open source batch processing framework communally developed by **SpringSource** and **Accenture**

Integrated Development Environment

Enabling seamless development from entire development lifecycle

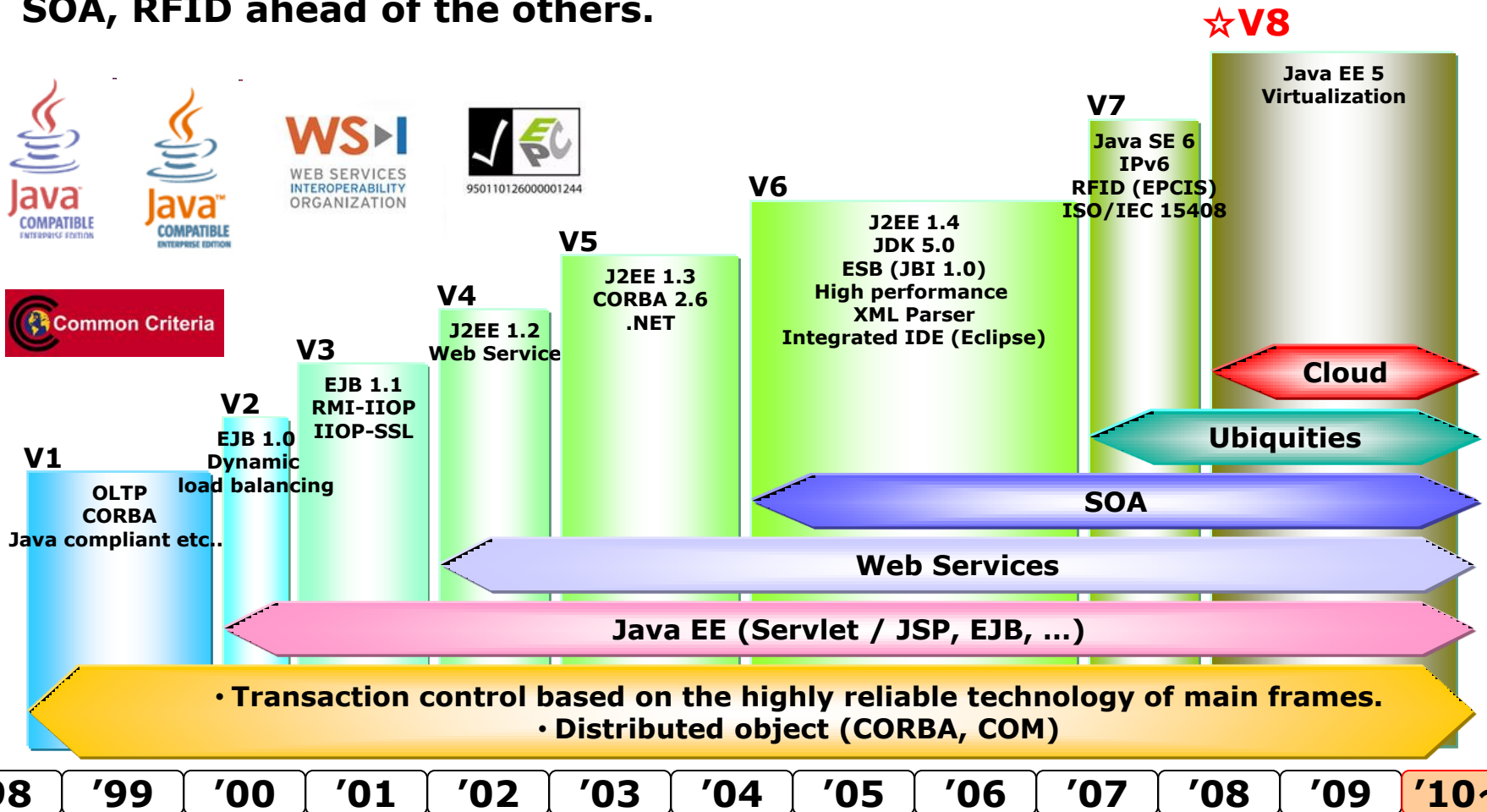
- ▼ Integrated development environment based on Eclipse providing application development support for all execution platform of WebOTX.
- ▼ Low level development tools & execution test environment can be seamlessly integrated with SDE*, the NEC standard software development environment.



History of WebOTX

Evolving "NEC WebOTX" over 12 years

- 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.

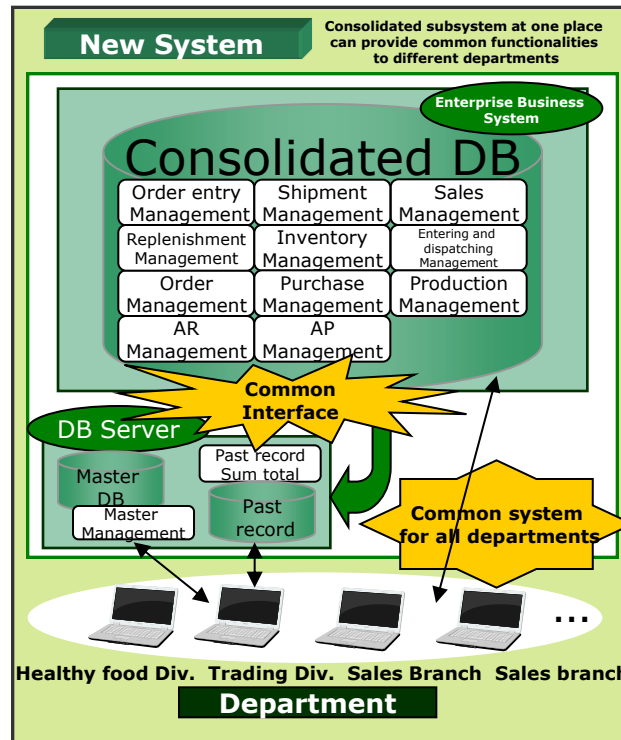
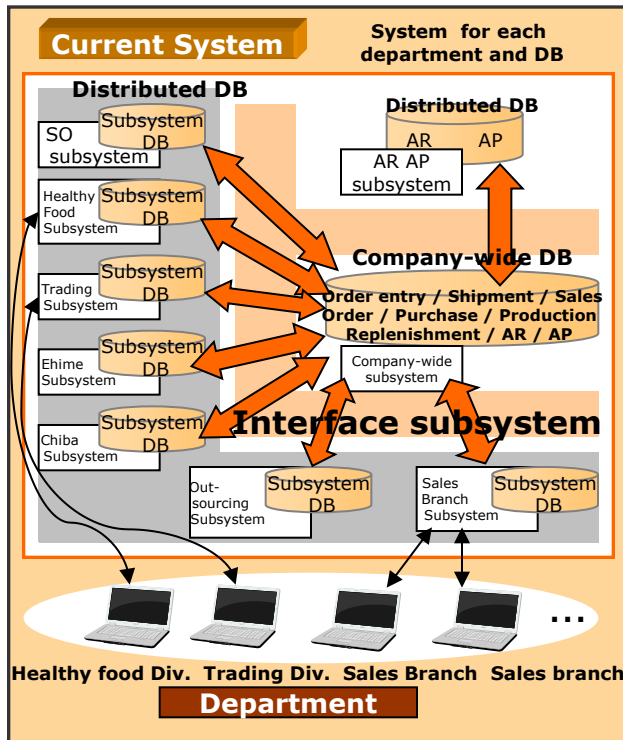
Case Study : Nihon Shokken Holdings Co.,Ltd.

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.



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**.

Case Study : OBAYASHI CORPORATION

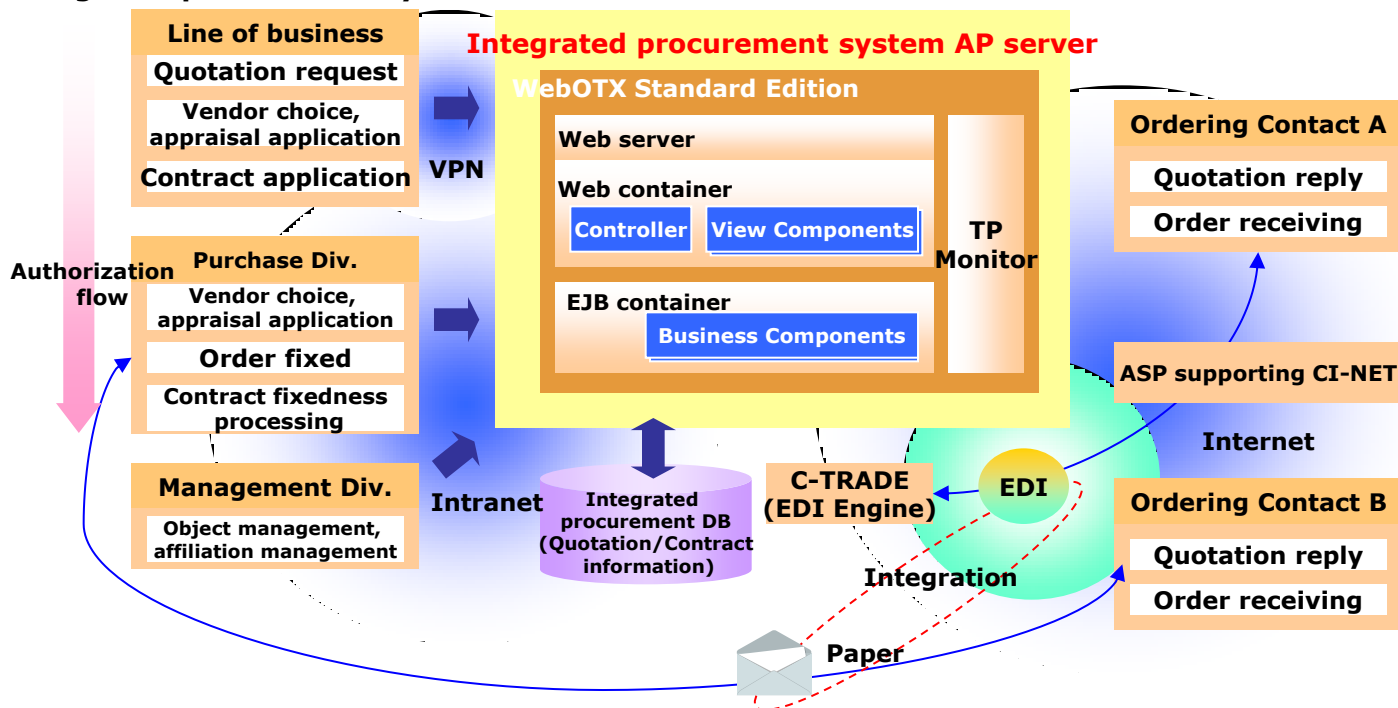
Ensure non-stop operation

Challenges and benefits

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.

Integrated procurement system overview



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.

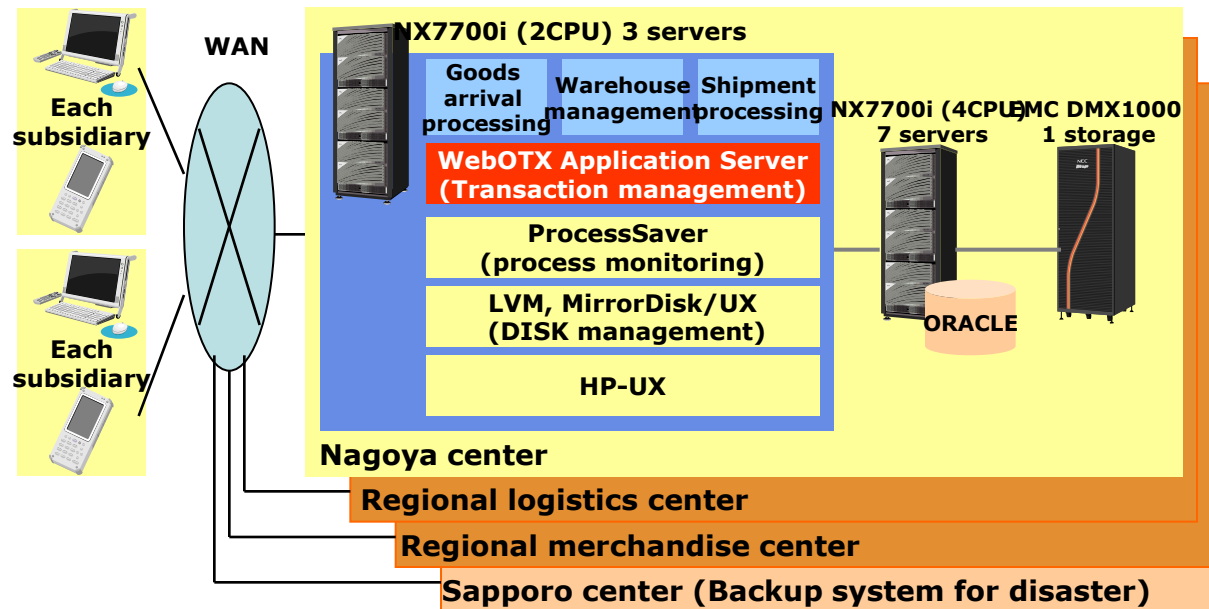
Case Study : SUZUKEN CO.,LTD.

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

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.

Thank You

WebOTX

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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