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.
Front-end integration “WebOTX Portal”
What is WebOTX Portal?

- Internal system integration for creating appropriate work style of all users
  1. Interface with high operability by integrating several web system GUIs
  2. Flexible UI expansion to affiliations / jobs / authorities of users
1. Integration of several web system GUIs

- Centrally manages GUI operation of numbers of web systems, and integrates on single web pane
- Seamlessly integrates several web system operation, and **improves total usability**

**Before**

- Business system
- Data analysis views (BI)
- Company-wide information
- Record / past data management (ERP)
- Order / shipment management (EDI)

**After**

- Business system
- Data analysis views (BI)
- Company-wide information
- Record / past data management (ERP)
- Order / shipment management (EDI)

*Time and cost are required for business system start/login.*

**Portal**

*Access/operation from single pane enabled with portal!*
2. UI expansion to users’ business at low cost

- According to users’ affiliations / roles, proper contents are provided
- Without re-development of web application, layout can be easily changed

Before

Web system

Users’ requirements are not fulfilled due to one fixed screen

Portal

After

Individual optimization of efficiency by providing proper page for each user!
Application window integration using portal

- Application UI integration enabled by combining portlet (window parts)
  - Integration by specifying URL of external web system
    (Displays in portlet, links, and RSS)
  - Integration by portlet development compliant to portlet standard (JSR168/286)

**Portlet**

Integrates several portlet and displays as single web window.
Manages window status/display mode, user information etc using portal platform.

**Portal platform**

Develops screen parts as one web application.
Development can be independent from whole web screen operation.

**Contents display portlet**

Generates GUI by developed portlet
URL setting
API call-up

**User development portlet**

Order / shipment management (EDI)
Data analysis views (BI)
Market trend (RSS)

**API**

Order / shipment management (EDI)

**Cloud service**

Internet

**Development environment**

Specifies URL, and refers to GUI in back-end

**On-premise**

 mission critical system, etc

**Mission critical system**

**Application window integration using portal**

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Orchestrating a brighter world
Front-end mashup by portlet integration

- **Displayed data interlock** in real time based on latest standard specification (JSR286)
  - According to data input etc., related portlet view is automatically updated
  - Exchanges data among systems (on portlet), and overlapped data input and wrong input are reduced.

  e.g.) If asset is registered in asset management system, data integration with related systems is realized.

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**Data input**

- IT asset management system. Resisters asset information, user, etc.
- Asset management system
- Web application system
- BI system

**Automatic update**

- IT cost analysis system. Cost is added to BI as nonliquid asset, and redraw graph automatically

**Input support**

- IT service approval system. Copies data in input area of application information window
**Effortless authentication with single sign-on**

- Supports 2 kinds of single sign-on methods
  1. Manages and passes ID/PW of back-end system (alternate authentication)
     - Supports Form authentication
  2. Integrates with external single sign-on products
     - Redirects to authentication system, and passes the result to back-end system

1. **Alternate authentication**
   - User logs in to portal server
   - Authentication data
   - Portlet A
   - Portlet B
   - Portlet B sends managed ID/PW

2. **With single sign-on products**
   - User logs in to portal server
   - Portlet A
   - Portlet B
   - Authentication data
   - Authentication server
   - Active Directory
Portal page considering affiliation / job title

- Partially adds authority on integrated platform managed by information system division, and employees in each division can rapidly modify pages.
- Controls access authority particularly by specifying organization hierarchy (e.g. under sales business unit) and job title’s range (e.g. Manager or higher).

Each operation division

- Creates portal page for each division
- Controls display according to access authority
- Partially adds authority for page update

Access authority setting

- Authority can be changed here
Portal site expansion at low cost enabled by reuse

- By copying page and portlet of setting already completed and updating partially, portal page can be newly created at low cost
- By reusing portlet of setting completed, new portlet can be added without re-setting
Portal site easy creation by intuitive GUI operation

- Without complicated administration tool, portal site can be created easily on UI
- Layout edition can be operated intuitively by drag & drop

Moves portlet (window parts) by drag & drop

Height/width of layout can be modified by drag operation
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/

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