FUJITSU

Overview of Solution
FUJITSU Financial Services Solution RAPORTADO

RAPORTADO is a solution that provides all the functions and services necessary to implement an XBRL-based business reporting system in an integrated manner with FUJITSU's XBRL technologies and experience as its core.

RAPORTADO

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What is RAPORTADO?

RAPORTADO is a consolidated packaged software containing various options necessary for customer considering implementation of XBRL technology.

RAPORTADO enables customers to design and develop XBRL systems with minimum time and cost.
Leveraging Fujitsu's extensive XBRL knowledge and proven experience, RAPORTADO offers the flexibility and agility of systems expansion to meet the needs of growing businesses.
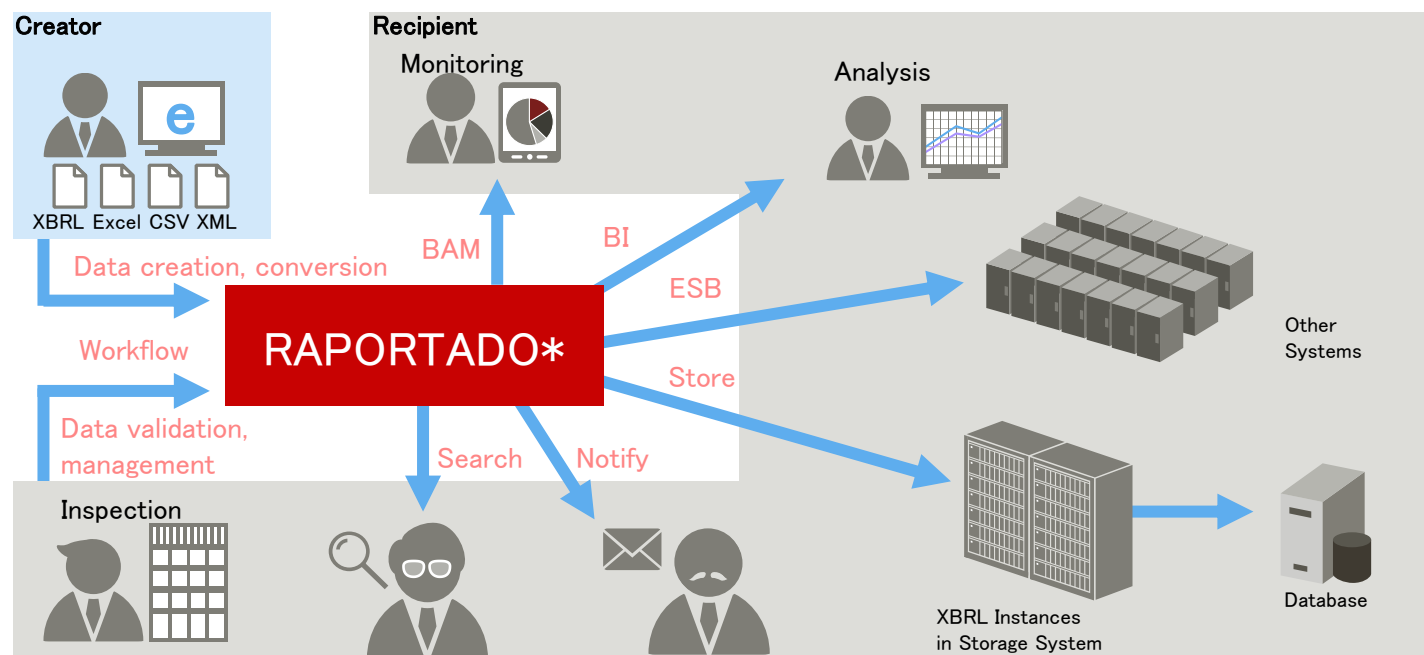

Figure: RAPORTADO Overview

＊Each function can be purchased separately

Fujitsu provides a complete of services from Proof of Concept (PoC), consulting services to system development. Experts with rich experience and know-how directly support customers.

1) PoC: Prototype application development based on customer specific requirements.
2) Consulting: System development planning including taxonomy design.
3) System development: Support activities of package implementation, customization, data migration and
                              user training necessary for system development.

RAPORTADO Functions Overview

XBRL Data Creation, Validation, Conversion and Management

Various functions improve the user experiences:
- Data Creation: Create XBRL instances using a web form and Excel, or directly on database. Users do not have to be XBRL experts.
- Data Validation: Invalid data highlighted by using XBRL formula for an instant visual check.
- Data Conversion: XBRL data can be converted to CSV, Excel, XML format for effective use within other systems.
- Data Management: Easy management of taxonomy changes to comply with new regulations for XBRL operations.

Workflow/BAM Engine

RAPORTADO provides a workflow system, which manages operations such as document creation, application and approval. It enables users to perform accurate operation with task management function and e-mail notification function to avoid any operation delays and miscommunications.
It also provides Business Activity Monitoring (BAM) for customers to manage the status of operation process.

Business Intelligence (BI) Tool

The XBRL business reporting system collects and manages a massive volume of data. This data needs to be visualized, processed and shared in order to discover potential opportunities and risks in it.
RAPORTADO supports the optimum BI for XBRL, for example by utilizing a variety of analytical functions and dashboard functions which make the data easier to visualize and analyze.

Enterprise Service Bus

RAPORTADO supports a variety of features based on the concept of Service Oriented Architecture (SOA), which includes XBRL data access, mediation, transfer, conversion and distribution through different protocols such as HTTP, JMS, FTP, POP, SMTP.

Customer Benefits

RAPORTADO holds standard templates. By utilizing these templates for system development customers experience the following benefits:

1) Achieving rapid system development with minimum risk

The template application contains rich standard operational functions that can be used as models for XBRL based reporting systems, which can reduce the time for system design and build compared to new application development. The RAPORTADO template application is built on the base of actual customer case studies and experience, enabling low risk system development and robust operation.

2) Easy expansion and maintenance

Key to XBRL systems the ability to add new XBRL formats in response to external factors such as changes of regulations. The RAPORTADO template application holds enables such changes to be made easily. Customers can apply such changes while keeping a continuous stable operation at low cost.

Why FUJITSU?

RAPORTADO is the most advanced XBRL-based total solution developed by Fujitsu, a core member of XBRL International.

– Leadership in XBRL

Fujitsu participates in developing new XBRL specifications and leads other promotional organizations all over the world. RAPORTADO is continuously enhanced to support such new XBRL specifications.

– Track record in XBRL business reporting platforms

Fujitsu has an extensive track record in building numerous XBRL business reporting platforms worldwide.

– Experts in XBRL and business reporting areas

Fujitsu has consultants and engineers around the world with rich technical knowledge and experience in XBRL and business reporting.

Track record of XBRL

\# Tokyo Stock Exchange: Timely disclosure information system "TDnet"

\# Financial Services Agency (FSA, Japanese Government): Electronic corporate disclosure system "EDINET"

\# Bank of Spain: XBRL document processing

\# Indonesia Stock Exchange: Timely disclosure information system "IDXnet"

Use Cases

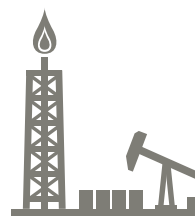RAPORTADO is applicable to various types of business reporting.

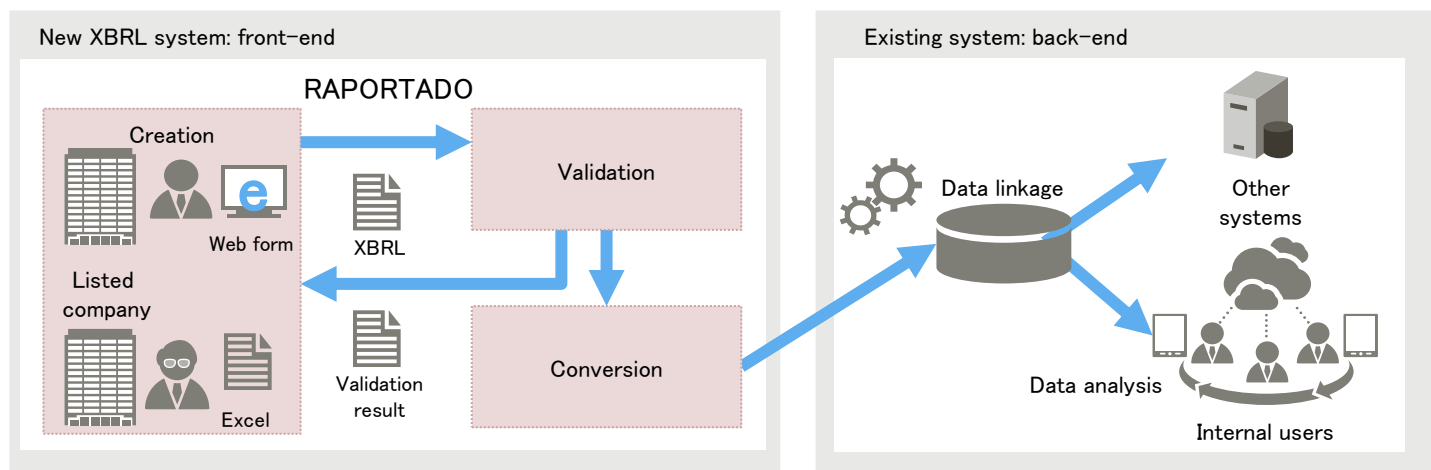| [Stock Exchanges] Timely disclosure operation | [Central Banks] Offsite monitoring | [Government Ministries] Corporate accounting | [Energy] Mining management | [Environmental Regulations] Environmental reporting |

Stock Exchange disclosure system development: Integrating XBRL to existing system

New XBRL system: front-end

RAPORTADO

Creation
Web form
Listed company
Excel
XBRL
Validation result
Validation
Conversion

Existing system: back-end

Data linkage
Other systems
Data analysis
Internal users
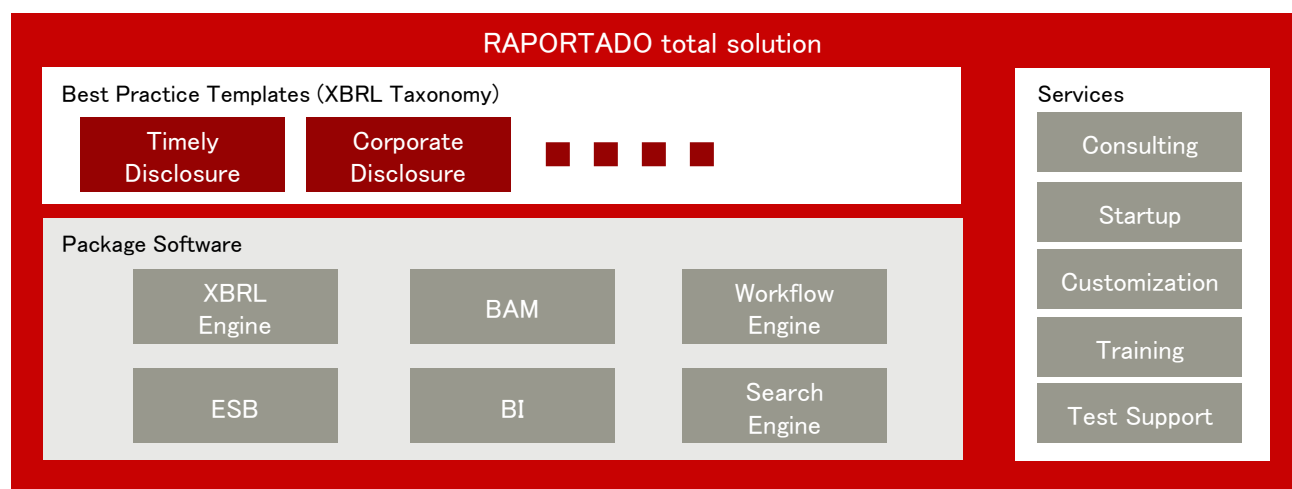
The Challenges:
・Applying XBRL without any impact to existing systems
・Successfully launching XBRL based environment in a short period of time

The Solution:
・ XBRL data can is converted into a format suitable for existing backend systems.
・ By utilizing RAPORTADO template applications, minimum customization was required for system development, which reduced the overall system development time.

Product / Service Lineup

RAPORTADO total solution

Best Practice Templates (XBRL Taxonomy)

| Timely Disclosure | Corporate Disclosure | ▪ ▪ ▪ ▪ |

Package Software

| XBRL Engine | BAM | Workflow Engine |
| ESB | BI | Search Engine |

Services

Consulting
Startup
Customization
Training
Test Support

Product Lineup / Operating Environment	Server Side		Client Side	
	Windows (X86)	Linux (X86)	PC	Smart Device
RAPORTADO CORE	✓	✓	–	–
RAPORTADO BI	✓	✓	✓ (BI client) Windows X86	✓ (Dashboard) iOS / Android
RAPORTADO ESB/Server	✓	✓	–	–
RAPORTADO ESB/ClientServer	✓	✓	–	–

This is a selection of the environments we support, please contact us for details of other operating systems etc which we can implement RAPORTADO in.