

Fujitsu DXP: Digital Transformation Platform

Business Rules

Business Rules and BRMS

Business rules are statements that guide an organization's operations. They define what, where, when, why, and how something is done. For example, an e-commerce website might use business rules like these to control customer discount:

- Apply 15% discount if customer enters age < 30
- Apply 20% discount if customer chooses his age > 59
- Apply no discount if customer chooses age between 30 and 59

With more and more organizations adopting digital transformation initiatives, the development and management of decision logic can no longer be left solely to IT developers. Rather, business employees play a key role in implementing decision logic with the help of Business Rules Management System (BRMS).

Simply put, BRMS is a digital transformation software that can help organizations to define, deploy, execute, monitor, and manage business rules. At the core of BRMS, a business rules engine (BRE) is responsible for executing business rules based on input conditions and returning the decision outcomes. Unlike business process management system (BPMS), BRMS is a rules driven software tool that excels at managing business knowledge and assisting decision making process for the organization.

When to Use BRMS?

While every organization has unique needs and challenges, the following are some common signs that it is time to adopt a BRMS.

Business rules need to be created by analysts: BRMS can effectively manage business rules outside of application codes. This allows business people to manage business rules without having to wait for scarce IT developers.

Business rules are stored inside paper manuals. Traditionally organizations maintained business rules in paper manuals. Paper-based decision logic often leads to inconsistencies and compliance issues. With a BRMS, organizations can totally modernize their outdated paper-based decision practices, providing them with a robust and cost-effective solution.

Business rules need constant adjustment: Some organizations face the challenge of managing hundreds or even thousands of business rules for their day-to-day activities; especially when these rules may change rapidly from time to time to respond to new business requirements and needs. Without using a BRMS, managing and adjusting a large amount of business rules becomes time consuming and inefficient.

What is Inside DXP BRMS

DXP BRMS is the business rules management component of Fujitsu's comprehensive and unified digital transformation platform. It offers the following business rules management capabilities to guide business people and knowledge workers in evaluation of business rules, and to recommend courses of action:

- An application specific rules repository for storing business rules outside the application codes
- A low-code GUI-based IDE used by both technical users and business users to define and manage business rules
- A rules runtime environment to execute applicable business rules

With DXP BRMS, users can:

- makes rapid rule changes in production without relying on IT resources for a full release
- introduces a standardized decision automation approach
- minimizes the risk of misunderstandings between business people and developers
- uses easy-to-read decision tables to model simple decision logic
- uses industry standard Decision Model & Notation (DMN) to model complex decision logic graphically

In order to support the full life cycle of business rules, DXP BRMS offers all the rules management and monitoring capabilities such as scheduling, remote access, impact analysis, and auto-deployment.

Features of DXP BRMS

Industry Standards: Business users and application designers can create complex decision logic with any DMN-compliant rules editors.

Built-In Design Guidance: Quality assurance is offered on each and every one of business rules with real-time validation and automated overlapping and incomplete logic checks.

Reusable Web Services: REST APIs make business rules accessible across your enterprise as web services.

Low-code IDE: Business users are empowered to create, adjust, and automate decision rules in a non-programmatic way.

Support for DevOps: cloud native installation, real-time rules monitoring, version control of rules repository, and support for continuous test and integration.

Benefits of DXP BRMS

DXP BRMS have broad use scenarios across industries.

- Simplify and automate the decision-making process
- Improve efficiency while making more informed decisions
- Increase compliance while reducing the possibility of legal and regulatory actions
- Promote better documentation of rules, regulations, and policies that an organization is subject to
- Quickly adapt to changing market conditions and pivot to new business opportunities

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