Progress Corticon Business Rules Server

DATA SHEET

Highlights

Corticon Business Rules Server offers unmatched performance and flexibility with:

- Design-time inferencing
- Linear scalability
- Easy integration
- Multiple deployment options
- Detailed reporting

The Progress® Corticon® Business Rules Server is part of the Progress Corticon Business Rules Management System (BRMS) product suite. It deploys and runs decision services designed in Corticon Business Rules Modeling Studio and executes data access requests with Corticon Enterprise Data Connector (EDC). When used together, these products provide a complete platform for managing the lifecycle of decisions across the enterprise.

Corticon Server executes decisions efficiently for fast performance and reliable results. It integrates easily with a variety of deployment architectures and offers detailed reporting and logging.

Execute More Decisions Faster And More Reliably

Corticon Server executes rules more efficiently than traditional rule engines because it optimizes inferencing prior to deployment. And it does not require run-time tuning for accurate results. With its linear scaling profile, capacity is limited only by the hardware.

Minimize Integration Effort, Maximize Integration Flexibility

Corticon Server takes advantage of industry standards to provide flexible options for integration with applications running on Java or .NET platforms. You can embed Corticon Server in any layer of an application's architecture, from the presentation layer on the desktop to the shared-service layer distributed across back-end servers. By design, Corticon Server integrates easily with composite or packaged applications through service-oriented architecture (SOA) or business process management (BPM) systems.

Confirm Regulatory Compliance Efficiently And Consistently

In today's heated regulatory climate, organizations must be able to explain the reasoning behind each business decision and transaction. Corticon Server records and reports on the content, logical flow and timestamp for every outcome of every decision it executes, eliminating the need for tedious and error-prone manual auditing.

Progress Corticon BusinessRules Management System

Policy Makers Business And IT

Easy To Model And Test Rule Integrity

Rule

Analyze With Agility To Change

Powered By

Progress®
Corticon®

Execute As Open Standards Decision Services

Java

Microsoft .NET

Enterprise Systems To Make Decisions

Enterprise Data Sources

Key Features Of Corticon Business Rules Server

Decision Service Execution And Control

Corticon Server manages decision services to maximize usability and performance. The inferencing engine ensures reliability and scalability while making it easier for business managers to validate rules. Logging, version control, the web console and three deployment options streamline maintenance efforts.

- **Reliable Runtime Performance**
  With the patented Design-Time Inference (DeTI) engine, Corticon Server shifts the inferencing workload from runtime to design time so it does not have to weed out irrelevant rules or calculate firing order during run time. The engine does not require runtime tuning, and performance scales linearly with data payload and number of rules. As a result, Corticon Server can execute decisions faster and more reliably than other engines.

- **Application Server Support**
  When Corticon Server is installed within an application server, it takes advantage of the clustering, pooling, transaction-handling and replication services provided by the application server for horizontal scaling. Also, it can be configured for multiple concurrent rule sessions on a single server or on multiple servers.

- **Web Console**
  Web Console is a web application for managing and monitoring multiple Corticon Server instances as well as decision services. It provides access to individual and aggregate measures of health, status and performance, including server logs. Users can also deploy and un-deploy decision services to named servers.

- **Hot, Warm and Cold Deployment**
  - Hot deployment overwrites a currently deployed decision service with a newer rule set directly on Corticon Server without shutting down either the server or the decision service being replaced.
  - Warm deployment brings down the decision service being replaced until the overwrite is complete.

Cold deployment brings down the server itself until the overwrite is complete, at which point the server is restarted.

Advantages of Corticon Server

Corticon Business Rules Server offers unmatched performance and flexibility with:

- More efficient rule execution

- Flexible, web-based management

- Multiple deployment options

- Detailed reporting

- Easy access to external data sources

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Runtime Reporting And Monitoring

Decision services integrated with core business applications must have effective runtime reporting and monitoring to comply with internal or regulatory compliance. Corticon Server produces a historical transaction log for each request processed by a decision service. The log captures every rule that fires during execution, all comments associated with the rules, and the outcome. Users can turn logging off or control granularity as needed.

Easy Access To External Data

In Corticon Server, decision services can use data passed in with the call, but in some deployments, it is more efficient to have Corticon Server retrieve data as needed during runtime. It can do so in one of three ways:

- **Enterprise Data Connector**

  The Corticon Server proprietary tool, Enterprise Data Connector (EDC), makes external data retrieval easy to implement. It directs users to create a basic mapping between the vocabulary and a relational database schema. Decision services then use the mapping to pull in specific data and/or write results back to the database.

- **Advanced Data Connectors**

  Advanced Data Connectors (ADC) provide the flexibility for retrieving large amounts of data requiring complex queries. With ADC, users can make fewer database connections and, if needed, write resulting updates in allotments.

- **Batch Processing**

  With very high volumes of data, Corticon Server can bundle single transactions into scheduled batches and execute them concurrently for fast, efficient results.

Support For Service-Oriented Architectures And Business Process Management Systems

Corticon Server integrates easily into SOA and BPM systems. By default, Corticon Server deploys a decision service as a standard web service. For SOAP/XML deployments, it automatically generates the associated Web Services Definition Language (WSDL) file. Third-party SOA governance tools can use the WSDL file to register and discover decision services. For REST/JSON deployments, Corticon Studio will generate template JSON request and response payloads to support the integration with other business systems.

Application Integration

Corticon Server supports several integration options for custom or composite enterprise applications:

- **Web Services**

  Deploy decision services as web services and integrate with architectures that can invoke and consume web services via SOAP/XML or REST/JSON documents.

- **Microsoft .NET Framework**

  Deploy decisions services as a Microsoft .NET assembly or as a service on Microsoft Internet Information Services (IIS). Use WCF, SOAP or RESTful protocols to consume decision services published to Corticon Server running on IIS.

- **Java Service**

  Deploy decision services as Enterprise Java Beans (EJB) with a Remote Method Invocation (RMI) interface. Data payloads can be delivered via XML, JSON or Java Objects.

- **In-Process Java or .NET Service**

  Deploy decision services as in-process or embedded components using Corticon Server API. Client applications can deliver data payloads via XML, JSON or Java Objects. For .Net applications, build .NET client programs which can instantiate .NET classes and then use those object instances to communicate with Corticon Server for .NET.

System Requirements Corticon Server

Corticon Server for Java

- Supported Windows or Linux operating system
- Application server for deploying as a service
- 8 GB system ram (minimum 2 GB available RAM)
- 600 MB disk space

Corticon Server for .NET

- Supported Windows operating system
- Supported .NET Framework and Internet Information Service (IIS)
- 8 GB system ram (minimum 2 GB available RAM)
- 500 MB disk space

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About Progress

Progress (NASDAQ: PRGS) offers the leading platform for developing and deploying strategic business applications. We enable customers and partners to deliver modern, high-impact business applications with a fraction of the effort, time and cost. Progress offers powerful tools for easily building adaptive user experiences across any type of device or touchpoint, the flexibility of a cloud-native app dev platform to deli ver modern apps, leading data connectivity technology, web content management, business rules, secure file transfer and network monitoring. Over 1,700 independent software vendors, 100,000 enterprise customers, and two million developers rely on Progress to power their applications. Learn about Progress at www.progress.com or +1-800-477-6473.

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