

XpressRules Policy Authoring Studio



Say it with . . .

NEAR NATURAL LANGUAGE

You build simple sentences and use your organization's vocabulary to build business rules that allow, prohibit or obligate activity of any kind.

Play it with . . .

END-TO-END AUTO-CODING

XpressRules creates customized user consoles, which then transform your business rules to computer-ready XACML or JSON.

Track it with . . .

ROUND-TRIP AUDIT

XpressRules' patented "decompiler" reverse-transforms XACML to your original language, adding a date/time stamp for human-friendly audit.

- **ConsoleBuilder** accepts either business manager's sentence definitions or machine-generated data to self-program RuleBuilder consoles.
- **RuleBuilder** presents clickable options for the author to write and store organization-specific NNL business rules.
- **PolicyBuilder** presents stored XACML 3.0 rules for the user to aggregate into XACML policies.
- **Transformers** allow XpressRules to link directly—without intrusive APIs—to industry-specific standardized data and to third-party products

Every organization operates under rules and policies (groups of rules). The rules may exist only on paper and perhaps only as best practices. Most large organizations currently rely on IT to deploy its rules as hard-coded computer programs.

But rules are *living*. So over its life cycle each rule will evolve: revised vocabulary, greater complexity, wider application, diverging offspring and final retirement. And every step of that evolution tends to push the rule beyond the manager's control.

Hard-coded rules are inevitably under IT stewardship. So in a regulated industry the manager of a rule's IT-centric life cycle must administer an unwieldy and costly workflow among all of the rule's stakeholders. The responsible rule custodian—risk manager, HR director . . . whoever is the business-side "buckstopper"—finds him-/herself struggling to manage computer code.

XpressRules puts the rule custodian (a business user) back in the driver's seat. It allows the custodian to manage near-natural language (NNL) *rules* not *code*.

The business group uses familiar language to craft a few customized sentence layouts and a business unit-specific vocabulary. The layouts allow for a virtually infinite variety of rules. The vocabulary can be as unique and large as necessary.

XpressRules uses the layouts and vocabularies to build user-ready RuleBuilder and PolicyBuilder web consoles.

The author builds a NNL rule by selecting (not typing) terms from the unit-specific vocabulary.

XpressRules generates XACML, JSON, multi-rule policies, and a round-tripped audit record.



XpressRules Features and Benefits

XpressRules' features enable the business user's (BU's) policy authoring capability. In turn each functionality aims at reducing cost and effort.

Feature/Functionality	Advantage	Benefit
1. User-modifiable sentence layouts	Customize Builder consoles with Excel	Eliminates unnecessary IT effort
2. Customizable dictionary	Auto-managed user-selectable vocabulary	Zero programming code modification
3. Ontology-based data flows	Dynamic OWL unifies all activity	Radically cost-reduced interoperability
4. Auto-compiled XACML 3.0/JSON	Compile, name, store reusable rules	Authoring-to-deployment reduced to minutes
5. Drag-and-drop PolicyBuilder	Combine stored rules to build new policies	Zero IT effort for building policy libraries
6. Decompile XACML to author's NNL	"Round-trip" audit of authoring event	Drastically reduces human audit effort
7. Open standards compliance	Straightforward fit within security stack	Lowest total-cost interoperability
8. Auto-written Javascript, HTML, JQuery	Notepad/Mobile-friendly consoles	Fully supports virtual/co-located stakeholders
9. Development tools free/open-source	Licenses only for as-needed service levels	Lowest cost life cycle sustainment
10. Adapters (e.g. TMF for pharma)	Dynamic, scalable domain-specific ABAC	Non-mediated IoT-style updates in real time
11. Radiant Logic VDS as a RuleBuilder "back end"	Consumes live normalized data for environment-sensitive selection options	Situational awareness with zero reprogramming
12. Axiomatics APS policy "packages"	Near-zero impact on Axiomatics components	Minimal integration/sustainment effort
13. Pre-converted Axiomatics attributes	Axiomatics ASM seamlessly imports XpressRules attributes	Zero extra effort for ASM to manage XpressRules policies
14. Elastic cloud hosting (PaaS)	Entire stack managed by host (e.g. RedHat) rather than by IT.	<ul style="list-style-type: none"> • Zero local installation • Drastically reduced local IT effort • Dynamic capacity management
15. On-premises server	Directly-managed conformity with enterprise's security strategy	Reduced risk



SERVICES AVAILABLE

- Installation and Setup
- Training: (Administrator/User)
- Application Support (levels)
- Updates
- Maintenance

System Requirements

For on-premises server installation only:

- ✓ Java VM v. 7
- ✓ Linux (3.13.0-40-generic GNU) or Windows 7
- ✓ Python v. 3.4.3 plus freely downloadable packages
- ✓ TXL v. 10.6d
- ✓ Saxon XSLT and XQuery Processor 9.7
- ✓ MySQL v. 5.6 or better
- ✓ FileZilla or other FTP utility
- ✓ Optional: customer-selected PaaS

For end-user:

- ✓ Web browser: any of Chrome v. 49, Mozilla Firefox v.45, Safari in iOS v. 9, IE v. 11



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