Modernization projects are challenging for a number of reasons, but by far the most common is a failure to extract all the business rules from a given system. This can lead to functionality shortfalls that delay deployment and cause business disruptions.

The only possible way to discover and extract 100% of active business rules is by analyzing an application’s source code. Many existing tools and methods do an acceptable job analyzing simple code, searching for the logic that constitutes a business rule, and isolating it for documentation. However, this method doesn’t work well for complex applications and the results are not terribly useful because they consist of program logic statements, not clear rules written in business language.

Key Challenges:
• Code complexity makes 100% extraction of business rules nearly impossible
• Existing methods yield errors and omissions with serious consequences
• Documentation must be easily understandable for business users

Atos Syntel Solution
Our proprietary Exit Legacy tool and patented Business Rule Extraction (BRE) methodology address these challenges to thoroughly discover the static and dynamic business rules built into your legacy systems. Atos Syntel’s three-step methodology consists of:
1. Identifying the underlying application structure
2. Performing a static BRE using Exit Legacy to identify candidate business rules
3. Dynamic BRE to validate candidate business rules by creating and executing test cases against the legacy code to reveal any omissions

DIFFERENTIATORS
• Rules classification and de-duplication
• Auto-BRE to extract branch paths
• Program flowcharting and documentation
• Seed-based impact analysis
• Code auto remediation
• Support for languages like COBOL, Assembler, NATURAL, PL/I, CA Gen, JAVA, Ab Initio and VB

BUSINESS BENEFITS
• 100% business rule extraction
• Technical business rules extracted for business analysts
• Zero loss of functionality
• Up to 50% reduction in effort
• Risk mitigation
• Creation of a complete regression test suite
• Rules are delivered in a form that can be understood by non-technical staff and business rule management systems
Delivering Excellence

Business Rules Extraction for Premium Billing Calculation
A leading insurer wanted to sunset their aging premium billing calculation and policy admin systems, and turned to Atos Syntel to assist in the effort.

Business Challenges
- Existing assembler code was complex and difficult and expensive to maintain
- Business rules were not properly documented
- Logic was highly complex and deeply embedded within the legacy system

Atos Syntel’s Solution
- Leveraged our Exit Legacy framework to extract and migrate business rules
- Generated comprehensive static BRE and documentation
- Dynamic BRE – static rules verifying all logical paths have been executed or explained
- Created decision tables for test cases creation and verification of complex nested ‘if’ statements having a string of multiple test conditions

Business Benefits
- Comprehensive, technology-independent documentation of rules in business language
- Improved decision making for modernization
- Created a business knowledge database
- Regression test suites were generated for future use
- Improved business-as-usual continuity

About Us
Atos Syntel is a leading global provider of integrated information technology and knowledge process services. Atos Syntel helps global enterprises evolve the core by leveraging automation, scaled agile and cloud platforms to build efficient application development and management, testing and infrastructure solutions. Our digital services enable companies to engage customers, discover new insights through analytics, and create a more connected enterprise through the internet of things. Our “Customer for Life” philosophy builds collaborative partnerships and creates long-term client value by investing in IP, solutions and industry-focused delivery teams with deep domain knowledge.
To learn more, visit us at www.atos-syntel.net