SAM Rolmine®
Role-based User Management

- Analyze and optimize identity and access data
- Easily define business-oriented roles in complex corporate structures
- Fast implementation thanks to linking IT and organizational data
Management Summary: SAM Rolmine®

Role management is becoming more and more important in helping companies meet internal and external compliance regulations and guidelines. In this context, so-called role mining tools are of particular interest as they empower users to precisely map the current IT status. Business and IT roles are also key components of this strategy. In order to successfully define roles, the processes and organizational structures of the company as well as the existing access rights need to be evaluated and analyzed.

SAM Rolmine® is a specialized role mining analysis tool that supports ongoing role management in the company. It greatly simplifies and consistently streamlines the process of creating and maintaining role models. By facilitating the implementation of a company-wide role concept, SAM Rolmine® makes a strong contribution to optimizing processes now and in the future.

Process Optimization Based on Standardized Roles

Depending on their respective job description or workspace profile, employees of a company require access to different IT resources. Data and applications are combined in various ways and then used by people within and outside of the organization.

Describing the individual tasks and defining the associated access rights groups can be very time-consuming and tedious chores.

SAM Rolmine®’s core functionality is role mining, which involves analyzing information on existing access rights, roles and other data to identify matching parameters based on which roles are suggested.

Both top-down modeling as well as analyzing the existing access rights structures (role mining, bottom-up approach) are central prerequisites for modeling roles in a standardized manner.

The gathered information then forms the basis for establishing higher-level business roles and, on a lower level, system roles with differing access rights configurations.

This streamlined approach of SAM Rolmine® makes for a highly efficient and fast implementation. Administrative workload is also considerably reduced since a simple, efficient solution for role-based access rights allocation is available after a very short time.
SAM Rolmine® at a Glance!

Key Factor in Meeting Internal and External Legal Provisions and Guidelines

As regards large corporations and companies with complex organizational structures in particular, many of the compliance requirements can only be effectively implemented with a role-based approach.

SAM Rolmine® can be used to analyze existing user access rights, facilitating the creation of bottom-up role models and determining the actual status quo of existing access rights for the different systems. Such a target–actual analysis is required to identify deviations in roles currently assigned. This also greatly enhances the quality of identity data.

Role mining thus serves the important purpose of synchronizing the target with the actual status. This means that accounts no longer active (e.g. because employees left the company), users without access rights and access rights without assigned users can be easily identified and a report generated at the push of a button. Among other benefits, this can lead to significantly reduced licensing costs by eliminating unused licenses.

Well-defined role management helps to analyze compliance regulations and their impact on IT processes and then implement the regulations by specifying corresponding access rights. Proper role engineering is very important in this context as this process establishes the targets for the roles and associated access rights based on the compliance regulations.

Fulfilling these requirements, SAM Rolmine® enables both the control and compliant documentation of corporate processes, thus, among other things, greatly contributing to making them transparent and auditable. This goes a long way toward meeting compliance regulations, such as SOX Section 404, which requires companies to document application and infrastructure control procedures.
“SAM was one of the first IAM products to incorporate basic role-life-cycle-management into a product’s provisioning process.”

Gartner Analyst Group

Fast Path to Role-based Security Provisioning

A cross-platform role concept serves as the ideal foundation for establishing efficient, automated security provisioning processes.

This entails quickly providing new employees with precisely those access rights to those resources they need to fulfill their tasks. Here the focus rests on automated allocation of access rights required to use IT systems. Time-consuming procedures normally part of setting up new employees are effectively replaced.

SAM Rolmine® helps to introduce role-based provisioning and further simplifies the ongoing optimization of business-oriented role definition in complex corporate structures. As a result, the complexity of identity management tasks is significantly reduced.

The fast definition of roles and associated access rights is facilitated by automated job, function and project task analysis.

How you benefit from using SAM Rolmine®

- Improved efficiency and reduced costs thanks to a partially automated role definition process
- Precise mapping and analysis of the ACTUAL user status and associated access rights
- Identify orphaned accounts and optimize the quality of identity data to better protect sensitive corporate data
- Leverage existing security and organizational data
- TARGET–ACTUAL analysis of access rights forms the basis for company-wide, ongoing role management
- Cost-efficient implementation of a role-based security concept
- Extensive access rights audits and reports
- Simple, intuitive Web application
Roles form the bridge between the actual business, business processes, and corporate IT.

Role management is an important process that takes place at the organizational level and thus needs to be established correspondingly. The business process managers must decide what rights to allocate to the roles and which persons to assign these roles.

It is imperative to keep the number of roles small and to define the roles in a transparent and comprehensible manner.

Due to ongoing change processes (role lifecycle) in the organizations, it must be possible to adjust the roles and the underlying role model quickly and easily.

SAM Rolmine® supports efficient role lifecycle management that checks and enforces compliance with corporate and legal regulations (security policies) when assigning access rights, thus resulting in a manageable security structure.

We help you to analyze roles.
We have assisted our customers in successfully managing, organizing and planning security and role modeling projects for a broad range of installations. Our employees are highly qualified technology experts who also have a comprehensive understanding of our customers’ business processes.

This trust rests on our many years’ of project experience.
Our employees have been with us for a long time and know exactly what to look out for to create a solution that meets your company’s needs to the dot.

We are highly familiar with the IT issues that companies have to deal with when introducing roles, especially in the context of tailoring the solution to their individual organizational and industry-specific requirements.
SAM Rolmine® is an intelligent tool that supports the staged introduction, modeling and optimization of roles, with role mining being its core functionality.

**Data Cleansing**
The first step taken is the so-called cleansing of information. This involves identifying orphaned user accounts and access rights and compiling this data in reports.

**Analysis**
As a next step, an analysis is performed to establish dependencies between currently valid access rights for organizational structures and process organizations.

**Top-Down**
The “organizational” roles are created based on a top-down approach, so the roles depend on the structure of the organization and the functions or positions of the employees.

**Bottom-Up**
This is followed by a bottom-up analysis of the access rights existing on the target systems; common traits and standards are identified and the rights are then assigned to the roles.

**Analysis scenarios**
SAM Rolmine® offers a broad number of configurable parameters that make it possible to run various analysis scenarios during the role definition process.

**Role Engineering**
Based on these automatically generated analysis results, the roles are defined (role engineering) after agreeing on the professional requirements.

**Static and dynamic roles**
This iterative, step-by-step procedure makes it possible to efficiently create and implement the required roles. There are two types of possible roles: static and dynamic roles.

In addition to role analysis as part of role mining and follow-up role adjustment during the role engineering stage, the solution also supports manual role definition.

**Result**
Owing to this breadth of methods, the role model is incrementally optimized while accounting for all organizational guidelines that apply to access rights. SAM Rolmine® thus guarantees that a successful role scheme is created and maintained.
SAM Rolmine® is a true must-have for standardized and transparent modeling and optimization of business-oriented role definition in complex corporate structures.

Complete Solution for Automated Role Definition

SAM Rolmine® provides import and export interfaces for the exchange of information based on defined file formats (CSV or XML format). Seamlessly integrated in SAM Enterprise Identity Management, roles can be optimized and implemented expertly, quickly and at low cost.

Highlights

- Quick wins thanks to immediate detection of orphaned accounts and reduced license costs
- Efficient role development based on top-down and bottom-up methods
- Much faster role mining compared to traditional approaches
- Flexibly adaptable to the individual needs of the organization
- Supports initial definition as well as ongoing optimization of existing roles
- Based on the RBAC standard established by the National Institute of Standards and Technology
- Fully integrated in SAM Enterprise Identity Manager
**SAM Rolmine®** is a fully independent application that suggests and optimizes roles based on imported data (HR data and existing access rights information).

**SAM Rolmine® – Key Features at a Glance**

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<th>Data import</th>
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<tr>
<td>• Import access data and existing role information, if applicable</td>
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<tr>
<td>• Automated import of data from SAM Enterprise Identity Manager</td>
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<td>• Import personal data and organizational data</td>
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<td>• Import internal/external rules/policies</td>
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<tr>
<th>Data cleansing</th>
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<tr>
<td>• Analyze assigned access rights</td>
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<td>• Identify and report orphaned user accounts and unused access definitions</td>
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<th>Role mining</th>
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<tr>
<td>• Data mining generates recommendations for creating dynamic and static roles</td>
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<td>• Role mining process is controlled using a wide range of optional parameters</td>
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<td>• Cross-system cluster analyses of roles on an organizational or functional level</td>
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<th>Role engineering</th>
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<tr>
<td>• Modify recommended roles and freely define roles</td>
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<td>• Compare employees based on existing access rights</td>
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<td>• Recursively edit roles and rights</td>
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<td>• Compare roles</td>
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<td>• Maintain and extend the role concept as an ongoing process</td>
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<th>Reporting</th>
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<tr>
<td>• Orphaned accounts</td>
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<td>• Critical access rights assignments (access rights for individual users)</td>
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<td>• Evaluate role-based access rights for employees</td>
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<td>• Simplify process for approving access rights on the management level</td>
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<th>Data export</th>
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<td>• Export generated and approved role definitions</td>
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<td>• Provide data for use by the identity management system</td>
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<tr>
<td>• Automated import to SAM Enterprise Identity Manager</td>
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Role mining and role management are integral parts of the role lifecycle management concept, because they help to create clear, transparent processes for role-based allocation or revoking of access rights.

Integrating SAM Rolmine® with SAM Enterprise Identity Manager goes a long way towards implementing a comprehensive, intelligent user role lifecycle management concept.

Backed by such a strong concept, companies can react to any organizational change reliably and with great flexibility.

The complexity of required user provisioning processes is greatly reduced. The role definitions are continuously fine-tuned and adjusted in response to permanently changing business requirements.

Intelligent Role Lifecycle Management Concept Supports Flexible and Dynamic Adjustment of Roles

Extensive identity reporting ensures that all changes are transparent and effective over the long term, allowing users to provide proof of or document any changes to access rights whenever needed.

Existing business processes and organizational changes can be mapped to roles with great precision and flexibility, making it possible to implement them transparently at any time. Based on these concepts, we help you to set up a successful IAM solution in your company.

Many customers achieve an automation rate exceeding 90% in their role-based access rights administration.
Global installation base with than 5,000,000 user IDs

Single project involved inclusion of more than 400 affiliated companies

Administration of 250,000 user rights for 65,000 users with 1,500 defined access roles

Implementation in the Organization

Depending on the quality of the data provided, the entire data import to SAM Rolmine® can be done within just a few minutes.

SAM Rolmine® generates a clean database, which is a key requirement for successfully defining roles.

The current and cleansed access rights data are transparently mapped according to their existing organizational structure and process organizations.

Key to Success: Having a Clear Overview of One’s Own Actions!

Thanks to strong features for making the analysis scenarios visible, the role definition process becomes highly transparent and traceable.

The tried and tested iterative procedural model for defining and introducing roles efficiently adapts to your specific organizational structures.

SAM Rolmine® allows the experts of each corresponding organizational level to optimally identify and define the required roles.

Comprehensive, well-designed reports lead, in particular, to increased transparency and acceptance on the business level.
It’s no secret that many factors determine the success of an Identity Access Management solution. Based on our extensive experience, we are aware of just how true this is since we know that technology plays an important part in installing an IAM software solution, but other aspects are even more critical.

In fact, the success of the project depends decisively on the close and coordinated cooperation of IT and your company organization.

The better existing business processes and organizational processes are mapped in the IAM, the bigger the success and benefits of the solution for your company.

Our Professional Services has been extending its store of experience over many years and can thus draw on consulting expertise that enables our teams to build a bridge between IT and a company’s business.

“7 of Europe’s 10 largest insurance groups employ solutions from Beta Systems.”
SAM – the Next IAM Generation
Building the bridge between Business and IT

- SAM integrates into your business environment easily
  - Uses standardized web services
  - Plugs into the existing portal
  - Provides full web-based business oriented workflow
- SAM fully integrates built-in role life-cycle management
- Easy to implement and maintain
- Provides lowest cost of ownership

Beta Systems is a leading software provider of IT user management, data center management, compliance and document management solutions

50% of Europe’s largest banks secure their business processes with solutions from Beta Systems

We develop high-quality software products and solutions for the automated processing of large volumes of data and documents. The products and solutions serve to optimize processes, improve security and boost the agility of your IT.

50% of Europe’s largest banks secure their business processes with solutions from Beta Systems

Our solutions help you to meet business requirements related to governance, risk management and compliance (GRC) and make your corporate IT more powerful in terms of availability, scalability and flexibility.

7 of Europe’s 10 largest insurance groups employ solutions from Beta Systems

An ever increasing number of major insurance companies rely on solutions from Beta Systems to manage their IT infrastructures. There are numerous company-wide installations that have been in use for many years.

Beta Systems has more than 25 years’ experience and over 1,400 customer across the globe.

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