IBM Security Identity Governance and Intelligence Version 5.2.3.1

Product Overview Topics



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Chapter 1. Identity Governance and Intelligence overview

IBM® Security Identity Governance and Intelligence is a network appliance-based integrated identity governance solution. This solution employs business-centric rules, activities, and processes. It empowers line-of-business managers, auditors, and risk managers to govern access and evaluate regulatory compliance across enterprise applications and services.

Identity Governance and Intelligence offers:

- A single identity governance foundation platform to help organizations understand, control, and make business decisions that are related to user access and access risks.
- A business-activity-based approach to facilitate communication between auditors and IT staff and to help determine segregation of duties violations across enterprise applications, including SAP.
- Better visibility and user access control through consolidating access entitlements from target applications and employing sophisticated algorithms for role mining, modeling, and optimization.
- User lifecycle management including provisioning and workflow capabilities, along with integration with IBM Security Identity Manager and third-party tools.
- Access request management that delivers easier-to-implement, business-friendly, self-service access request functions.
- Target integration that automates the process of data collection and fulfillment of identity and access from distributed target systems.
- Persona-based dashboards that help with tasks prioritization.
- Option to authenticate users from an external user registry to the Local Management Interface.
- Options for using the applicable FIPS 140-2 specifications.

For more information about the Identity Governance and Intelligence capabilities and what's new in this release, see the following references:

- "Features overview" on page 5
- Chapter 2, "What's new in Version 5.2.3.1," on page 15

Technical overview

IBM Security Identity Governance and Intelligence is designed to retrieve and manage data from multiple targets through a set of modules, a directory integrator, and a database.

The following diagram illustrates the Identity Governance and Intelligence architecture.

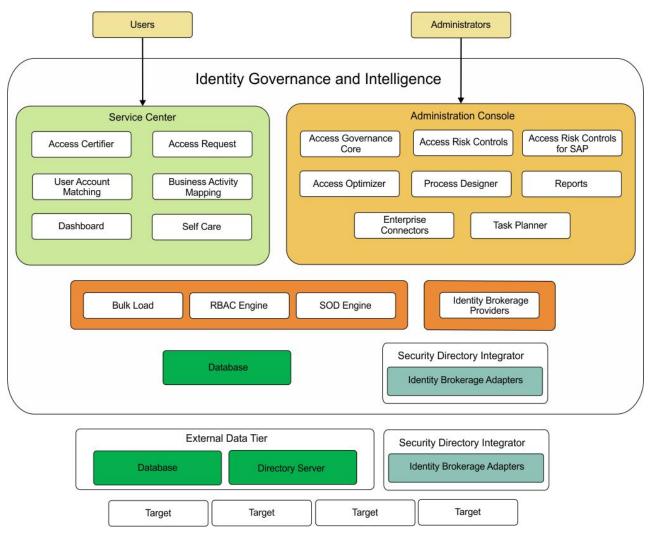


Figure 1. Identity Governance and Intelligence architecture

Identity Governance and Intelligence has the following access points, which contains the different modules intended for the Identity Governance and Intelligence administrators and Business users.

- Administration Console
- Service Center

See "Features overview" on page 5 and Chapter 5, "User interface," on page 35 for more information about the user interfaces and the modules.

Identity Brokerage is the gateway to directly integrate Identity Governance and Intelligence with targets and hubs using IBM Security Identity Adapters. These IBM Security Identity Adapters are sometimes referred to as Identity Brokerage Adapters in Identity Governance and Intelligence.

Directory integrator

The Security Directory Integrator is built-in to the Identity Governance and Intelligence virtual appliance and multiple instances of it can be installed and configured.

The Security Directory Integrator is pre-configured with the following Identity Brokerage Adapters:

- AIX[®]
- HP
- LDAP
- Linux
- Solaris

All Identity Governance and Intelligence supported adapters can be installed externally on the virtual appliance. Depending on the adapter, an external Security Directory Integrator may be required.

Some IBM Security Identity Adapters can be installed in the selected Security Directory Integrator instance on the virtual appliance:

See the *Identity Adapters* product documentation at http://www.ibm.com/support/knowledgecenter/SSIGMP_1.0.0/com.ibm.itim_pim.doc/c_adapters_intro.htm to determine which adapters are supported in Identity Governance and Intelligence, and which can be installed on the virtual appliance.

Data tier

The Identity Governance and Intelligence data source is composed of various data entities, which are stored in the database and directory server.

Database server

The database server contains the following data entities.

Table 1. Data entities stored in the database server

Data entities	Description
Identity Governance and Intelligence data store	It is inherited from the IBM Security Identity Governance data store, but it contains other data artifacts that are used for the Identity Brokerage Providers module.
	Changes that are initiated from Identity Governance and Intelligence or from external target systems are recorded and processed in an asynchronous manner through queues.
	Identity Governance and Intelligence support backward compatibility with existing IBM Security Identity Governance releases to support database upgrade.
Identity Brokerage data store	It contains data entities that are used by Identity Brokerage.

The virtual appliance can be deployed with an internal Postgres database or an external database. For the supported external database server and directory server, see the IBM Security Identity Governance and Intelligence *Software Product Compatibility Report*, http://www-969.ibm.com/software/reports/compatibility/clarity/softwareReqsForProduct.html.

Attention: An embedded PostgreSQL database environment requires higher resource consumption than the standard external DB2 database, making it critical to increase memory and CPU allocation to ensure a stable operation of the environment. When the database is co-resident in the VA,

the CPU and memory resources will be taxed additionally to provide services to the Identity Governance processes, as well as the database management processes. In laboratory tests, the CPU requirements on the VA are 2 to 3 times higher when running with PostgreSQL, versus the combined requirements of a VA and DB running with DB2. The additional memory and CPU requirements are most important in the PostgreSQL cluster scenario when data replication is enabled. Despite additional memory and CPU, the performance of this environment also falls behind that of DB2.

At this time, PostgreSQL is not recommended for mission-critical environments, or deployments where performance requirements are high.

The Virtual appliance administrator can later change the setup, from using an internal database to using an external database. See Managing the database server configuration and Managing the Postgres database.

Directory server

Data that is stored in the directory server includes the target configuration and target cache. Identity Brokerage uses these data entities when processing change requests.

Data models

The Identity Governance and Intelligence database model is patterned on how the organization is structured in terms of the:

- · Different entities that are registered in the organization
- Links and relationships between these entities
- Sets of application policies and processes that the organization uses to manage those entities

Identity Governance and Intelligence consists of a core data model and an extended data model.

Table 2. Data models

Data models	Elements
Core data model	Organization units
This data model contains elements that define the	• Users
organizational structure.	Entitlements
	Resources
	• Rights
	Applications
	Accounts
Extended data model	Business activities model and application permissions
This data model contains elements that support the risk	Risk definition and detection
definition and detection layer of Identity Governance	Segregation of Duties
and Intelligence.	External SoD
	Risk mitigation
	Mitigation actions
	Domains
	Risk hierarchy

High availability and disaster recovery

Implementing high availability is about ensuring that services are always available. Disaster recovery is the process of restoring the service to a production state in the event of an outage.

To deploy Identity Governance and Intelligence with high availability, set up a virtual appliance cluster and use a load balancer. See Planning for high availability.

If the master Postgres database fails or the primary node becomes unavailable, follow the failover procedure to recover the system. See Recovering from a Postgres database failure.

For a basic level of disaster recovery, set up the Identity Governance and Intelligence virtual appliance into two appliances with active-passive configuration. See Setting up a secondary virtual appliance for active-passive configuration.

Features overview

IBM Security Identity Governance and Intelligence is an appliance-based, integrated identity governance and administration solution, which offers several capabilities.

Simplified virtual appliance deployment and administration

Identity Governance and Intelligence provides:

- A configuration wizard for the first time configuration of the virtual appliance, and for creating clusters.
- A virtual appliance dashboard, a tool to:
 - Access the Administration Console and Service Center.
 - Quickly view the disk usage, partition information, available interfaces, notifications, middleware status, cluster status; and control the server status.
 - Monitor system event logs, memory, CPU, and storage usage, and configure the Simple Network Management Protocol.
 - Configure the directory server, database server, OpenID connect providers, and mail server.
 - Configure and manage the Postgres replication, IBM Security Directory Integrator instances, and cluster nodes.
 - Manage custom files, and certificate stores.
 - Manage the virtual appliance updates and licensing.
 - Manage the virtual appliance and Identity Governance and Intelligence logs retrieval and configuration, core dumps, Identity Brokerage Providers configuration, and build information.
 - Manage network settings such as application interfaces, hosts files, static and system routes, and the network file system.
 - Manage the Export and Import settings
 - Manage the virtual appliance administrator settings, and system settings such as tuning parameters, snapshots, support files, system audit events, BiDi properties, and management authentication.

Access governance

Identity Governance and Intelligence provides an identity governance infrastructure based on business requirements rather than on IT processes. Users are classified by organizational roles, group membership, job activities, and access needs, not as individuals.

Using the Identity Governance and Intelligence Access Governance Core module, Identity Governance and Intelligence administrators can outline the organizational structure in terms of its units, users, accounts, entitlements, resources, rights, and applications. The module aligns the IT teams, business managers, and auditors to model the company organization and operating processes.

Business managers can assign and evaluate appropriate user roles and access privileges.

IT staff can automate the creation, modification, and termination of user access. There are audit trails and detailed reports, periodic review and certification of privileges, and detection and correction of non-compliant accounts.

See Introduction to Access Governance Core.

Access risk assessment and management

Segregation of Duties (SoD) is designed to manage conflicting relationships between certain model entities. Entities that are characterized by reciprocal conflict cannot be aggregated to the same user. Segregation of Duties violations can reveal security vulnerabilities and cause serious damage when users have access to highly sensitive data. The Identity Governance and Intelligence data model identifies a Segregation of Duties violation as a specific type of risk.

Identity Governance and Intelligence helps mitigate access risks and Segregation of Duties violations through its Access Risk Controls module. It reduces risks by identifying violations and preventing users from conflicting activities. Managers and resource owners can use the information gathered to close inactive, unauthorized, and outdated accounts.

There is also the option of managing an External SoD. Identity Governance and Intelligence displays user risk information from external target systems.

The Access Risk Controls module manages the risk definition and detection layer based on two relationships:

- The relationship between the business activities model and the application permissions.
- The relationship between risks and business activities.

See Introduction to Access Risk Controls.

Access certification

Users' access entitlements tend to grow over time if they are not managed. Periodic review prevents users from acquiring accesses that are not necessary for their jobs. Regulations, such as Sarbanes-Oxley, require that companies periodically review all users' access rights and certify that these rights are correct.

Identity Governance and Intelligence ensures that access entitlements and rights are granted to authorized users only. It monitors and ensures that users' accesses are up-to-date and at the appropriate levels. When user access and entitlements are granted, potential Segregation of Duties violations are identified.

Identity Governance and Intelligence uses the Access Certifier module to enable managers and resource owners to do the following tasks:

- Review, on a periodic basis, the access that their users have on resources.
- Certify that the access rights are appropriate for users and applications and are still reasonable, based on policy and business needs.

If there are changes to the role or access is no longer required, it is revoked.

See Introduction to Access Certifier.

Audit and reports

External audits ensure that the organization is current with government and industry regulations. Taking an internal audit of the employees, contractors, and business partners is also an essential part of securing the gateway to your organization. Proper tracking and auditing helps to gain deep insights and essential visibility into all accounts, access privileges, and entitlements across all users.

Identity Governance and Intelligence optimizes visibility into user access, privileges, and policies, which is an essential identity security capability. It consolidates access entitlements from enterprise applications in a central repository. It structures them into business roles and activities as collectively defined by business divisions, IT staff, and auditors.

All Identity Governance and Intelligence modules send notifications to the Audit module for large sets of operations. IT teams, business managers, and auditors can run regular reports to determine where and when users gained access and what users are doing with it. It provides documentation of who granted access to whom and when. Identity Governance and Intelligence highlights Segregation of Duties violations.

Reports are defined through the Report Designer and Report Client modules.

See Introduction to Report Designer and Introduction to Report Client.

Access optimization

Identity Governance and Intelligence uses the Access Optimizer to:

- Evaluate the business rules and controls and current Identity Management policies that are enforced.
- Review the accounts, access privileges, and entitlements across all users and determine inactive, unauthorized, and outdated accounts that require action.
- Enhance governance and provide valuable intelligence to the organization.

See Introduction to Access Optimizer.

Automated identity governance and control processes

Identity Governance and Intelligence streamlines and automates the following processes through the Administration Console and Service Center:

- Access request management processes
- · Certification and re-certification processes

Workflow and policy management

Administrators can create and manage authorization policies on entitlements through the Access Governance Core and Process Designer modules. Entitlements that require control, can be assigned with a policy that:

- · Controls the visibility of the entitlement.
- Defines the conditions under which users can have access without requiring approval.
- Identifies which person or group approves the access request.

Entitlements management

Entitlements management is concerned with maintaining the entitlements repository. Identity Governance and Intelligence provide a means to capture, organize, and assign the accounts and other entitlements that determine the access that users have across the environment. Entitlements can take many forms, but they are most commonly reflected in target systems as accounts, group memberships, role assignments, and access levels.

Target profile administration

Target profile integration automates the process of collecting data from distributed target systems and reflects changes that are initiated from Identity Governance and Intelligence in these target systems. Target systems are user repositories that contain user account information.

Identity Governance and Intelligence provides two methods of integration with target systems, using Identity Brokerage Adapters and Enterprise Connectors.

Identity Brokerage is the gateway to directly integrate Identity Governance and Intelligence with targets and hubs using IBM Security Identity Adapters. These IBM Security Identity Adapters are sometimes referred to as Identity Brokerage Adapters in Identity Governance and Intelligence.

Identity Governance and Intelligence administrators can use the Enterprise Connectors module to perform target profile and connector administration, including:

- Import target profiles.
- Import account attribute mapping files.
- Configure account defaults for target profiles.
- Search, add, modify, and delete target profiles.
- Manage reconciliation and synchronization of change logs.
- Set up account defaults for a target.

See the following topics:

• Target profile administration

• Target management using Enterprise Connectors

Identity Brokerage Adapters and Enterprise Connectors

The following table summarizes the similarities and differences between the Identity Brokerage Adapters and Enterprise Connectors.

Table 3. Comparison between the Identity Brokerage Adapters and Enterprise Connectors

Compare	Identity Brokerage Adapters	Enterprise Connectors
Framework	Identity Brokerage	Enterprise Connector Framework
Target integration	Identity Administration Points (IAP)	Identity Administration Points (IAP)
Repository	Identity cache and metadata that is stored in LDAP v3 store	Cache
User interface	Administration Console > Enterprise Connectors	Administration Console > Enterprise Connectors
Custom integration	Its framework can be used to develop a custom adapter to integrate with target systems that are currently not supported by Identity Governance and Intelligence. The Identity Brokerage Adapters framework provides out-of-the-box functionality for all adapters that are deployed within the Identity Brokerage. See the Identity Brokerage Adapters Development and Customization Guide at Adapters for IBM Security Identity Manager v7.0: http://www-01.ibm.com/support/docview.wss?uid=swg21687732, for information about adapter customization.	Its framework can be used to develop a custom connector but it is advised that you use the Identity Brokerage Adapters framework instead to integrate with target systems that are currently not supported by Identity Governance and Intelligence.

Password administration and management

Identity Governance and Intelligence offers change and reset password capabilities for the following passwords:

- The Service Center password is used to log in to the Service Center.
- The account password is used to access the accounts that a user is entitled to use.

Employees can change their account passwords on their own by using the Self Care application, or they can contact their Manager or Help Desk to reset the password. If they forgot their Service Center password or if it expired, they can reset it using the **Forgot password** feature of the **Service Center**. See Logging in to the Service Center.

When granted the permission, using the **Service Center** > **Access Requests** application:

- Managers can reset the account passwords for their Employees.
- Help Desks can also reset the account passwords for other users.

See Password management.

The Identity Governance and Intelligence administrator:

- Configures these password services through the Access Governance Core module in the Administration Console.
- Configures the following Access Requests workflows for the *Account Change* process, through the **Process Designer** module in the Administration Console:
 - ChangePassword
 - ForgotPassword
 - ManagePasswordReset
 - HelpDeskPasswordReset
- Can force users to change their Service Center password on their next log in to the Service Center.

See Password administration.

Persona-based dashboards

Dashboards help a user view several conditions at a glance and respond quickly. They are aligned with Administrator Roles. When a user logs in to Service Center, the home page shows all dashboard items for all Administrator Roles assigned to the User.

Self-service features

Identity Governance and Intelligence provides a Service Center for Business users to do access request, access certification, access analytics, reporting, and password management tasks.

Self-service features help make access or change request tasks more accurate, appropriate, and secure. First-time users can submit a request without assistance from Help Desks or Managers.

Employees can use the Self Care application to change their own passwords and update their *security questions*. They can also view the status of their password change requests.

Cross-product integrations

IBM Security Identity Governance and Intelligence can be used with other security products to deliver an integrated solution.

Integration with IBM Security Identity Manager

IBM Security Identity Manager is an automated and policy-based solution that manages user access across IT environments. By using roles, accounts, and access permissions, it helps automate the creation, modification, and termination of user privileges throughout the entire user lifecycle. It centralizes the process of provisioning and accessing user accounts on the operating systems and applications.

Organizations with IBM Security Identity Manager implementation can leverage IBM Security Identity Governance and Intelligence for the following scenarios:

Attribute hierarchy

- User access certification and accounts certification for employees
- Risk management for employees
- · Risk scoring and trends
- Role management for employees
- On-boarding a new application
- User and entitlement re-certification
- Attribute mapping service
- · Bulk load extension to import role-permission relation
- · Standardized authentication across applications and services

Use the IBM Security Identity Governance and Administration Data Integrator to synchronize the following information between IBM Security Identity Manager and IBM Security Identity Governance and Intelligence:

- User account
- Roles
- Services
- Groups
- Organization unit
- · Entitlement changes

See the following references to implement the integration:

- Cookbook for IBM Security Identity Governance and Intelligence integration with IBM Security Identity Manager
- Integration between IBM Security Identity Manager and IBM Security Identity Governance at http://www-01.ibm.com/support/docview.wss?uid=swg21968516.

Integration with IBM Security Privileged Identity Manager

IBM Security Privileged Identity Manager helps organizations manage, automate, and track the use of shared privileged identities.

Organizations can use IBM Security Identity Governance and Intelligence together with IBM Security Privileged Identity Manager for the re-certification of privileged user's access entitlement.

With the IBM Security Directory Integrator based Privileged Identity Manager adapter, the Identity Governance administrator can bulk load privileged users' access entitlements into Identity Governance and Intelligence.

The integration supports the following:

- Reconciliation of users and access entitlements
- Reconciliation of users entitlement assignments
- Assignment and revocation of accesses to and from users

The IBM Security Privileged Identity Manager integration does not support:

- · Reconciliation of admin roles, and domain admins
- Reconciliation of credentials and credential pools associated with an access
- Reconciliation of the credentials and credential pools granted to a user
- Automatic fulfillment of users including creations and modifying users attributes
- Automatic fulfillment of admin roles (entitlement assignments)

• Automatic fulfillment of domain admins (entitlement assignments)

See the following references to implement the integration:

• IBM Security Privileged Identity Manager (SDI-based) Guide at http:// www.ibm.com/support/knowledgecenter/SSIGMP_1.0.0/ com.ibm.itim_pim.doc/c_adapters_intro.htm

Integration with IBM Security Access Manager

IBM Security Access Manager helps organizations secure and manage user access and protect applications against fraudulent or unauthorized access.

Organizations that already uses IBM Security Identity Manager, and IBM Security Access Manager for single sign-on can enable IBM Security Access Manager based authentication on Identity Governance and Intelligence to implement single sign-on authentication between the IBM Security Identity Manager and IBM Security Identity Governance and Intelligence Service Center.

The Identity Governance and Intelligence Service Center authentication can be based on the OpenID Connect Protocol, with the application server configured as an OpenID Connect relying party pointing to an OpenID Connect Provider. The Identity Governance administrator can set up an OpenID Connect Federation between IBM Security Access Manager and IBM Security Identity Governance and Intelligence.

See the following references to implement the integration:

- Managing OpenID connect configuration
- Access Governance Core > Settings > Core Configurations > Login User ID

Lightweight Third-Party Authentication (LTPA) based single sign-on

Lightweight Third Party Authentication (LTPA) is a single sign-on credential format. With LTPA, the user authenticates with the first server that is accessed, by using a user name and password. After authenticating, the user receives an LTPA key, which is only valid for one session. The token is used to identify the user on other servers within the same domain name system, where the servers are configured to use LTPA. Therefore, the user enters a user name and password only once, and the user directory is accessed only once to verify the identity of that user.

Organizations can enable single sign-on between the IBM Security Identity Manager and IBM Security Identity Governance and Intelligence Service Center without external authentication, by exploiting the LTPA key generated directly by the application servers. A user who got authenticated through the IBM Security Identity Manager Service Center login page, can access the IBM Security Identity Governance and Intelligence Service Center without re-authenticating and vice-versa.

Manage the LTPA based single sign-on through the Virtual Appliance Dashboard Configure > Manage Server Setting > Single Sign-On Configuration. It includes options to import, export, or generate the LTPA key

See the following references to implement the integration:

Managing LTPA-based single sign-on configuration

 Access Governance Core > Settings > Core Configurations > Internal authorization

Integration with zSecure[™]

IBM® Security zSecure™ Manager for RACF®® z/VM®® improves the efficiency of IBM Resource Access Control Facility (RACF®) administration and auditing compliance. It automates functions to help optimize IT resources, mitigate complexity, improve security and quality of service, demonstrate regulatory compliance and reduce errors and costs in virtual machine environments.

The IBM Security Identity Governance and Intelligence adapter works with the zSecure RACF product on an MVS[™] environment. The adapter:

- Receives requests from IBM Security Identity Governance and Intelligence.
- Processes the requests to reconcile user, group, and resource profile access information from the zSecure RACF CARLA scripts, which consult the Resource Access Control Facility (RACF) security server database.
- Returns the results of the zSecure RACF CARLA scripts commands, which
 include the success or failure message of a request to the IBM Security Identity
 Governance and Intelligence server.
- Processes the requests to add, modify, or delete RACF user accounts by using the R_admin callable service (IRRSEQ00).

See the following references to implement the integration:

• *zSecure RACF Guide* at http://www.ibm.com/support/knowledgecenter/ SSIGMP_1.0.0/com.ibm.itim_pim.doc/c_adapters_intro.htm

Integration with QRadar[®] User Behavior Analytics (UBA)

The IBM Security QRadar User Behavior Analytics (UBA) app helps organizations quickly determine the risk profiles of users inside their network and to take action when the app alerts you to threatening behavior. The UBA app provides an efficient means for detecting anomalous or malicious behaviors that occur on your network.

The Identity Governance and Intelligence integration with the QRadar UBA appenables organizations to disable user access to neutralize a network threat.

To implement the integration, see "Integration between the QRadar User Behavior Analytics (UBA) app and IBM Security Identity Governance and Intelligence" at http://www.ibm.com/support/docview.wss?uid=swg22008495.

Integration interfaces

Application programming interfaces (APIs) are part of a plug-in model that you can use to add applications without disrupting existing applications. The REST APIs provide third-party applications some functionality and the interface for operating with Identity Governance and Intelligence.

Identity Governance and Intelligence supports:

- REST API calls to the Identity Governance and Intelligence external authorization services.
- Virtual appliance REST APIs to administer tasks outside the virtual appliance user interface.

- Identity Brokerage REST APIs for managing accounts, groups membership, and permissions.
- The Identity Governance and Intelligence platform provides a REST API set for managing the main elements of the data model (users, entitlements, permissions, rights, accounts, and also authorization work-flows and SOD attributes. The API implements the Simple Cloud Identity Management (SCIM) standard (version 2.0), with custom schema extensions. This implementation enables developers to access and manage identity resources directly by developing client applications that can be invoked from anywhere within the network.

See the following references to implement the integration:

Application programming interfaces

Chapter 2. What's new in Version 5.2.3.1

This version delivers enhancements in the virtual appliance deployment, product and security integration, and in the technical foundation.

VA deployment on ESX server

The IBM Security Identity Governance and Intelligence virtual appliance can be installed on a VMware, Versions ESXi 5.0, 5.1, 5.5, 6.0, and 6.5 (VMWare 8 only).

Password rules can limit repeating characters

You can set password rules to limit the maximum number of repeating characters. The **Password Creation** tab has a new field named **Maximum Repeated Characters**. To set the new field, go to **Access Governance Core** > **Manage** > **Accounts** > **Password Creation**.

For more information, see Password Creation.

REST APIs to support integration scenarios with custom applications

The Identity Governance and Intelligence platform provides a REST API set for managing the main elements of the data model (users, entitlements, permissions, rights, accounts, and also authorization workflows and Segregation of Duty (SOD) attributes. The API implements the Simple Cloud Identity Management (SCIM) standard (version 2.0), with custom schema extensions. This implementation enables developers to access and manage identity resources directly by developing client applications that can be started from anywhere within the network.

For more information, see Identity Governance and Intelligence REST APIs.

Integration with QRadar User Behavior Analytics (UBA)

The IBM Security QRadar User Behavior Analytics (UBA) app helps organizations quickly determine the risk profiles of users inside their network and to take action when the app alerts you to threatening behavior. The UBA app provides an efficient means for detecting anomalous or malicious behaviors that occur on your network.

The Identity Governance and Intelligence integration with the QRadar UBA app enables organizations to disable user access to neutralize a network threat.

To implement the integration, see "Integration between the QRadar User Behavior Analytics (UBA) app and IBM Security Identity Governance and Intelligence at http://www.ibm.com/support/docview.wss?uid=swg22008495.

Group ID Migration tool supports group renaming for Windows Active Directory (AD) targets

Windows Active Directory (AD) target migration is required to support renaming of groups for AD connectors. If you have Windows AD targets and want to have the ability to rename groups, you must configure the adapter and Identity

Governance and Intelligence to use an immutable group ID, such as GUID, instead of DN or CN for the Windows AD groups. Then you run the GroupID Migration Tool, which is contained in the GroupRenameMigration.zip file. To obtain the tool and the instructions for using it, see "Group Rename Migration Tool for enabling group renaming capability on supported adapter types" at http://www.ibm.com/support/docview.wss?uid=swg22008227.

HR feed is supported by the target migration process

With Identity Governance and Intelligence V5.2.3, you could link Enterprise Connectors to the existing non-HR feed targets that you used in V5.2.2 or V5.2.2.1. With the V5.2.3.1 fix pack, you can now link Enterprise Connectors to your HR feed targets (such as PeopleSoft and SAP) that existed in V5.2.2 or V5.2.2.1. Note that for HR feed target migration, you must first upgrade to V5.2.3, and then apply the V5.2.3.1 fix pack. If you are migrating non-HR feed targets, you can migrate them to either V5.2.3 or V5.2.3.1. If you are migrating HR feed targets, you must migrate them to V5.2.3.1.

- "Migrating Identity Brokerage targets to the Enterprise Connectors module" at https://www.ibm.com/support/knowledgecenter/SSGHJR_5.2.3/ com.ibm.igi.doc/administering/tsk/tsk_ac_migrate_targets_to_econn.html
- "Upgrading IBM Security Identity Governance and Intelligence version 5.2.3 to Fix Pack 1" at http://www.ibm.com/support/docview.wss?uid=swg22008241.

Configuration options for accounts with manual fulfillment

When an account is configured with flag **Fulfillment = Manual**, the synchronization of the target system is demanded to a workflow actor called Operator.

Operator is notified about every change that is being made in the target system by generating a specific request linked to an ARM workflow. The creation of this request triggers email notifications (if activated in Process Designer).

The Identity Governance and Intelligence default configuration automatically generates a request to Operator in the following cases:

- Adding or removing permissions from accounts by means of an Access Requests workflow
- Creating, removing, or deleting accounts by means of an Access Requests workflow

You can enable this request generation process for all the available use cases, in particular for system events. To learn how to configure Identity Governance and Intelligence to do so, see Manual Fulfillment configuration.

Documentation updates

In addition to the documentation that supports the new product features, the following sections of the documentation are either new or significantly updated:

- Documentation updates for Access Governance Core > Manage > Accounts > Details:
 - Accounts
 - User access: processing a request
- Fulfillment documentation updates:
 - EVENT IN

- EVENT_OUT
- EVENT_TARGET
- ORGANIZATION_UNIT_ERC
- USER_ERCV
- USER_EVENT_ERC
- Enterprise Connectors documentation updates:
 - Channels and Rules
 - Connectors

Chapter 3. Getting started

Before you deploy or use the product, you must complete the prerequisites and become familiar with product features to avoid issues.

The following table lists the main tasks to get started, including the corresponding reference topics or guides for each task.

Table 4. How to get started

Task	Reference
Check what's new in this release.	Chapter 2, "What's new in Version 5.2.3.1," on page 15
Learn about the different components, personas, and user interfaces.	Chapter 1, "Identity Governance and Intelligence overview," on page 1
	Chapter 4, "Roadmap of personas and tasks," on page 21
	Chapter 5, "User interface," on page 35
Check the hardware and software requirements.	For the detailed system requirements, see the IBM Security Identity Governance and Intelligence Software Product Compatibility Report, http://www-969.ibm.com/software/reports/compatibility/clarity/softwareReqsForProduct.html.
	Enter Security Identity Governance and Intelligence.
	2. Select the product version.
	3. Select the deployment unit.
	4. Click Submit .
Deploy the product.	Deployment overview in the Installing Guide
Use the product functions.	Administering Guide
If you encounter an issue, check the existing limitations and issues.	Chapter 7, "Known limitations, issues, and workarounds," on page 43
	Troubleshooting and support Guide

Chapter 4. Roadmap of personas and tasks

Persona is a user archetype based on role and other characteristics that influence how a user interacts with the offering. A *Persona* has a related set of responsibilities. In Identity Governance and Intelligence, you can represent those responsibilities by implementing *Roles*, and assigning them to *Users*. Any Role can be associated with any set of tasks, dashboards, reports, campaigns, and other resources. This topic provides examples of tasks that a certain Role can perform.

The main personas are:

- Administrators
- · Business users

Administrators

In Identity Governance and Intelligence, there are:

- "Virtual appliance administrators"
- "Identity Governance and Intelligence administrators" on page 24

Business users

Business users are defined in the *Regular Users schema* and can perform tasks in the Service Center.

Examples of Business users:

- · Application Managers
- · User Managers
- · Role Managers
- Risk Managers
- · Help Desks
- Employees

Virtual appliance administrators

The Virtual appliance administrator is responsible for the setup and activation of the Identity Governance and Intelligence virtual appliance and for its day-to-day administration. See the following tables for the Virtual appliance administrators deployment and maintenance tasks.

Table 5. Virtual appliance administrators deployment tasks

Tasks	Subtasks and references
Install and configure the database server.	For Oracle:
	Installing the Oracle server
	Configuring the Oracle server
	For DB2®:
	Installing the DB2 server
	Configuring the DB2 server
	Installation of database schemas in a high availability environment

Table 5. Virtual appliance administrators deployment tasks (continued)

Tasks	Subtasks and references
(Optional) Install and configure the directory server to use the Identity Brokerage Providers module.	Installing and configuring the directory server
Prepare the virtual machine.	Setting up the virtual machine
Install and set up the virtual appliance.	Installing the IBM Security Identity Governance and Intelligence virtual appliance Setting up the initial virtual appliance
For high availability, set up a virtual	Setting up a virtual appliance cluster
appliance cluster.	Setting up a member node for IBM Security Governance and Intelligence by using the initial configuration wizard
	Promoting the secondary node to the primary node
	Promoting a member node to the secondary node
	Enabling and disabling replication between the primary and secondary nodes
	Promoting a member node to the primary node
	Removing a node from the cluster
	Reconnecting a node into the cluster
	Synchronizing a member node with a primary node
Configure the virtual appliance settings.	Enabling Identity Brokerage Providers
	Managing directory server configuration
	Managing the database server configuration
	Managing OpenID connect configuration
	 Managing the mail server configuration Managing application interfaces

Table 6. Virtual appliance administrators maintenance tasks

Tasks	Subtasks and references
Prepare for disaster recovery. Set up a secondary virtual appliance for an active-passive configuration.	 Setting up a primary virtual appliance Backing up the virtual appliance Reverting the virtual appliance to its backup Creating a snapshot of the virtual appliance Setting up a secondary virtual appliance

Table 6. Virtual appliance administrators maintenance tasks (continued)

Tasks	Subtasks and references
Monitor system event logs, memory, CPU, and storage usage, and configure the Simple Network Management Protocol. Configure the directory server, database server, OpenID connect providers, and mail server.	 Viewing the event logs Viewing the memory usage Viewing the CPU usage Viewing the storage usage Viewing the cluster status Managing the SNMP monitoring Managing directory server configuration Managing the database server configuration Managing OpenID connect configuration
Configure and manage the Postgres replication, IBM Security Directory Integrator instances, and cluster nodes.	 Managing the mail server configuration Managing the Postgres database Managing Security Directory Integrator instances Managing LTPA-based single sign-on configuration
Manage custom files, and certificate stores.	Managing custom files Managing certificates
Manage the virtual appliance updates and licensing.	 Viewing the update history Viewing the licensing Managing the firmware settings Installing a fix pack
Manage the virtual appliance and Identity Governance and Intelligence logs retrieval and configuration, core dumps, Identity Brokerage Providers configuration, and build information.	 Managing the log configuration Managing the core dump files Enabling Identity Brokerage Providers Viewing the About page information
Manage network settings such as application interfaces, hosts files, static and system routes, and the network file system.	 Managing application interfaces Managing hosts file Configuring static routes Managing a network file system (NFS)
Manage the Export and Import settings	Exporting or importing the configuration settings
Manage the virtual appliance administrator settings, and system settings such as tuning parameters, snapshots, support files, system audit events, BiDi properties, and management authentication.	 Configuring the date and time settings Configuring the administrator settings Managing advanced tuning parameters Configuring BiDi properties Managing the snapshots Managing the support files Configuring system audit events Configuring LMI authentication for external user registry Restarting or shutting down the appliance

Table 6. Virtual appliance administrators maintenance tasks (continued)

Tasks	Subtasks and references
Manage the virtual appliance by using the command line interface.	 Managing the core dump files Tailing logs and archiving logs Adding a JVM property Managing the SSL certificate Getting and setting the SIB schema names Getting and setting the reconciliation failure threshold

Identity Governance and Intelligence administrators

An Identity Governance and Intelligence administrator, also called *Super Administrator* is predefined. This *Super Administrator* is responsible for defining other Identity Governance and Intelligence administrator profiles in the Administration Console by using a free configuration of *N* base permissions.

The Super Administrator can define an Identity Governance and Intelligence administrator as:

- An administrator of a single module or of all the Identity Governance and Intelligence modules.
- An administrator who is authorized to perform a selected set of tasks on module *A*, *B*, and others.

See Super Administrator for examples of tasks that a Super Administrator can perform.

See the following references for examples of tasks that an Identity Governance and Intelligence administrator can perform, when granted access to any of these modules.

- "Access Risk Controls module" on page 26
- "Process Designer module" on page 27
- "Access Optimizer module" on page 27
- "Report Designer module" on page 27
- "Task Planner module" on page 28

Examples of Identity Governance and Intelligence administrators that can be defined and used in the system:

- "Application Managers" on page 28
- "User Managers" on page 29
- "Role Managers" on page 30
- "Risk Managers" on page 31

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Super Administrator

A *Super Administrator* can perform the following tasks in the Administration Console:

Table 7. Super Administrator tasks

Tasks	Subtasks and references
Configure the initial entities.	Create realms. See Concept of Realm and Managing the Administration Realm.
	Create resources. See Resources.
	Create entitlements. See Hierarchy of entitlements.
	Create applications. See Applications.
	Create accounts. See Accounts.
Configure organizational units.	Create organization units. See Organization units.
	Assign the organization unit to an entitlement. See Org Units.
	Assign resources to an organization unit. See Group Resources.
Configure groups.	Create groups. See Groups.
	Assign entitlements to the group. See Entitlements.
	Assign resources to the group. See Group Resources.
Configure roles.	Create and publish roles. See Roles.
	Define the entitlements. See Management.
On-board administrators.	Create the Administrator role. See Admin Roles.
	2. Assign organization units to the Administrator role. See Org Units.
	3. Assign users to the Administrator role. See Users.
On-board users. For example, a new employee <i>UserA</i> , joined the organization.	Create the user profile. See Users.
	2. Assign user to a role. See Users.
	3. Assign an entitlement to the user. See Entitlements.
	4. Assign resources to the user. See User Resources.
	5. Create and manage the accounts for the registered user. See Accounts.
	6. Assign rights. See Rights.
	7. Set a mitigation action if the user is assigned with a risk level. See Mitigations.

Table 7. Super Administrator tasks (continued)

Tasks	Subtasks and references
Add entitlements to the on-boarded user, such as an external role. For example, assign <i>UserA</i> with the external role <i>Senior Developer</i> on the <i>Data Manager</i> application.	 View the permissions that are defined for the application. Search for the external role you want to assign. Check whether the external role configuration is set for user assignment on the target system. See Application Access. Add the entitlement. Assign the external role to the on-boarded user. See Entitlements. Check whether the assignment event Add Permission is generated for the external role. See Events.
Enable a custom Segregation of Duties policy.	 Enable the external Segregation of Duties feature. Set up the external service, which can be a REST WEB Service or an implementation of a JAVA interface. See General
Define a certification campaign.	Certification Campaigns
Change account passwords for users.	Changing user passwords
Force users to change their Service Center password on their next login.	Forcing a password change
Configure the password service.	Configuring the password service in Access Governance Core
Configure the Access Requests workflows for change password, forgot password, or password reset functionalities.	Configuring the password service in Process Designer
Configure and assign dashboards.	Dashboards for Service Center

Access Risk Controls module

Administrators, who are granted access to the Access Risk Controls module, can perform the following tasks:

Table 8. Sample tasks in the Access Risk Controls module

Tasks	Subtasks and references
Model a business activity tree structure.	Business activities
Associate the permissions to one or more activities.	Business activity mapping
Set mitigation controls.	Mitigation controls
Define risks.	Risk definition
Define domains.	Domains
Evaluate risk violations.	Risk violations

Table 8. Sample tasks in the Access Risk Controls module (continued)

Tasks	Subtasks and references
Compare configurations.	Configuration comparison
Request or download report.	Report

Process Designer module

Administrators, who are granted access to the Process Designer module, can perform the following tasks:

Table 9. Sample tasks in the Process Designer module

Tasks	Subtasks and references
Define activities that can be associated to a process.	Activity
Design a process.	Process
Assign one or more administrative roles to each activity defined in the process.	Assign
Configure the Access Requests workflows for change password, forgot password, or password reset functionalities.	Password administration

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Access Optimizer module

Administrators, who are granted access to the Access Optimizer module, can perform the following tasks:

Table 10. Sample tasks in the Access Optimizer module

Tasks	Subtasks and references
Configure and compare data snapshots.	Data snapshot
Define access data sets.	Access data sets
Configure relevance criteria.	Relevance criteria
Create and manage a data exploration analysis.	Data Exploration analysis and details
Create a role mining request.	Role mining

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Report Designer module

Administrators, who are granted access to the Report Designer module, can perform the following tasks:

Table 11. Sample tasks in the Report Designer module

Tasks	Subtasks and references
Create and customize report queries.	Query

Table 11. Sample tasks in the Report Designer module (continued)

Tasks	Subtasks and references
Create and customize reports.	Report
Create and customize dashboard items.	Dashboard
Assign the product report to a user or an entitlement.	Report assignment
Organize the product reports.	Menu

Task Planner module

Administrators, who are granted access to the Task Planner module, can perform the following tasks:

Table 12. Sample tasks in the Task Planner module

Tasks	Subtasks and references
Add jobs and configure job class attributes.	Jobs
Create and configure tasks, define job class parameters, and configure scheduling.	Tasks
Synchronize tasks to the selected scheduler.	Scheduler
Group tasks by context.	Context

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Application Managers

Application Managers, with administrative rights, can perform any of the following tasks in the Administration Console.

Table 13. Application Managers tasks in the Administration Console

Tasks	Subtasks and references
On-board users. For example, a new employee <i>UserA</i> , joined the organization.	 Create the user profile. See Users. Assign user to a role. See Users. Assign an entitlement to the user. See Entitlements. Assign resources to the user. See User Resources. Create and manage the accounts for the registered user. See Accounts. Assign rights. See Rights. Set a mitigation action if the user is assigned with a risk level. See Mitigations.

Table 13. Application Managers tasks in the Administration Console (continued)

Tasks	Subtasks and references
Add entitlements to the on-boarded user, such as an external role. For example, assign <i>UserA</i> with the external role <i>Senior Developer</i> on the <i>Data Manager</i> application.	 View the permissions that are defined for the application. Search for the external role you want to assign. Check whether the external role configuration is set for user assignment on the target system. See Application Access. Add the entitlement. Assign the external role to the on-boarded user. See Entitlements. Check whether the assignment event Add Permission is generated for the external role. See Events.
Enable a custom Segregation of Duties policy.	 Enable the external Segregation of Duties feature. Set up the external service, which can be a REST WEB Service or an implementation of a JAVA interface.
	See General

User Managers

User Managers, with administrative rights, can perform any of the following tasks in the Administration Console.

Table 14. User Managers tasks in the Administration Console

Tasks	Subtasks and references
On-board users. For example, a new employee <i>UserA</i> , joined the organization.	 Create the user profile. See Users. Assign user to a role. See Users. Assign an entitlement to the user. See Entitlements. Assign resources to the user. See User Resources. Create and manage the accounts for the registered user. See Accounts. Assign rights. See Rights. Set a mitigation action if the user is assigned with a risk level. See Mitigations.

Table 14. User Managers tasks in the Administration Console (continued)

Tasks	Subtasks and references
Add entitlements to the on-boarded user, such as an external role. For example, assign UserA with the external role Senior Developer on the Data Manager application.	 View the permissions that are defined for the application. Search for the external role you want to assign. Check whether the external role configuration is set for user assignment on the target system. See Application Access. Add the entitlement. Assign the external role to the on-boarded user. See Entitlements. Check whether the assignment event Add Permission is generated for the external role. See Events.
Enable a custom Segregation of Duties policy.	 Enable the external Segregation of Duties feature. Set up the external service, which can be a REST WEB Service or an implementation of a JAVA interface. See General

Role Managers

Role Managers, with administrative rights, can perform any of the following tasks in the Administration Console, including tasks in the Process Designer module.

Table 15. Role Managers tasks in the Administration Console

Tasks	Subtasks and references
Configure roles.	 Create and publish roles. See Roles. Define the entitlements. See Management.
On-board users. For example, a new employee <i>UserA</i> , joined the organization.	 Create the user profile. See Users. Assign user to a role. See Users. Assign an entitlement to the user. See Entitlements. Assign resources to the user. See User Resources. Create and manage the accounts for the registered user. See Accounts. Assign rights. See Rights. Set a mitigation action if the user is assigned with a risk level. See Mitigations.

Risk Managers

Risk Managers, with administrative rights, can perform any of the following tasks in the Administration Console, including tasks in the Access Risk Controls module.

Table 16. Risk Managers tasks in the Administration Console

Tasks	Subtasks and references
Add entitlements to the on-boarded user, such as an external role. For example, assign <i>UserA</i> with the external role <i>Senior Developer</i> on the <i>Data Manager</i> application.	 View the permissions that are defined for the application. Search for the external role you want to assign. Check whether the external role configuration is set for user assignment on the target system. See Application Access. Add the entitlement. Assign the external role to the on-boarded user. See Entitlements. Check whether the assignment event Add Permission is generated for the external role. See Events.
Enable a custom Segregation of Duties policy.	 Enable the external Segregation of Duties feature. Set up the external service, which can be a REST WEB Service or an implementation of a JAVA interface. See General

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Business users: Managers

The following list provides examples of tasks Managers can perform in the Service Center, depending on their configuration.

Table 17. Manager tasks in the Service Center

Tasks	Subtasks and references
Approve or revoke campaign requests.	Campaign Management
Manage orphan accounts.	User-account matching

Table 17. Manager tasks in the Service Center (continued)

Tasks	Subtasks and references	
Manage access requests.	 Account change requests Selecting the user Authorizing the request Executing the request Delegating requests Generating a request Creating entitlements Generating a request Processing a request Processing a request Executing a request Modifying entitlements Generating a request Processing a request Executing a request Executing a request Request user access Generating a request Processing a request Executing a request Creating users Generating a request Creating users Generating a request	
Reset the account password for other users.	 Executing a request Resetting account passwords for other users 	
Reset own Service Center password.	Resetting my forgotten password	
Map permissions and activities.	 Dashboard Permission Perspective Activity Perspective 	
Configure, run, and download the report.	Request Download	

Note: User Managers and Application Managers have customized Service Center dashboards from which they can view and manage their activities. For more information, see:

- User Manager dashboard
- · Application Manager dashboard

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Business users: Help Desks

The following list provides examples of tasks that Help Desks can perform in the Service Center, depending on their configuration.

Table 18. Help Desks tasks in the Service Center

Tasks	Subtasks and references
Reset the account password for other users	Resetting account passwords for other users

Business users: Employees

The following list provides examples of tasks that Employees can perform in the Service Center, depending on their configuration.

Table 19. Employees tasks in the Service Center

Tasks	Subtasks and references
Reset own Service Center password	Resetting my forgotten password
Change the account password for active accounts.	Changing my account password
View Self Care requests status	Viewing my requests in the Self Care application
Update the security questions for account recovery	Updating my security questions

Note: Employees have customized Service Center dashboards from which they can view and manage their activities. For more information, see Employee dashboard.

Chapter 5. User interface

The Identity Governance and Intelligence solution has a web console for virtual appliance management and web consoles for identity governance and administration.

Table 20. Identity Governance and Intelligence consoles

Consoles	URL	Description
Virtual Appliance Dashboard	https://hostname:port	Virtual appliance administrators can perform the following tasks:
		Access the Administration Console and Service Center.
		Quickly view the disk usage, partition information, available interfaces, notifications, middleware status, cluster status; and control the server status.
		Monitor system event logs, memory, CPU, and storage usage, and configure the Simple Network Management Protocol.
		Configure the directory server, database server, OpenID connect providers, and mail server.
		Configure and manage the Postgres replication, IBM Security Directory Integrator instances, and cluster nodes.
		Manage custom files, and certificate stores.
		Manage the virtual appliance updates and licensing.
		Manage the virtual appliance and Identity Governance and Intelligence logs retrieval and configuration, core dumps, Identity Brokerage Providers configuration, and build information.
		 Manage network settings such as application interfaces, hosts files, static and system routes, and the network file system.
		Manage the Export and Import settings
		Manage the virtual appliance administrator settings, and system settings such as tuning parameters, snapshots, support files, system audit events, BiDi properties, and management authentication.

Table 20. Identity Governance and Intelligence consoles (continued)

Consoles	URL	Description
Administration Console	http://hostname:port/ideas/ wasLogin.jsp	It includes modules intended for Identity Governance and Intelligence administrators.
		See "Administration Console modules" for more information about the functions and activities that can be performed in each of these modules.
Service Center	http://hostname:port/ideas/ login.jsp?realm=IDEAS	It includes applications intended for Business users who are not administrators, such as Managers and Employees.
		See "Service Center applications" on page 39 for more information about the functions and activities that can be performed in each of these applications.

Administration Console modules

The Administration Console consists of the following Identity Governance and Intelligence modules.

Table 21. Administration Console modules

Administration Console modules	Description
Access Governance Core	It is the central module, and base engine for all other modules. It is dedicated to the implementation of the authorization processes.
	Access Governance Core manages entities such as Users, Organization Units, Hierarchies, Entitlements, and Applications.
	It provides a modeler for outlining the organization's current situation.
	Identity Governance and Intelligence administrators can:also use this module to configure password services.
	See Introduction to Access Governance Core.
Access Optimizer	It is a tool that is integrated with role management and is intended for role mining and risks analysis.
	It gets data from the Access Governance Core. It helps optimize roles and provide an analysis of user-privilege relations to identify critical situations, or potential side effects of analysis changes.
	Access Optimizer includes a visual map of entitlements-users assignments and the level of risks in these assignments. This visual approach makes it easier to manage role mining and risk scoring.
	See Introduction to Access Optimizer.

Table 21. Administration Console modules (continued)

Administration Console modules	Description		
Access Risk Controls	It helps manage business activities, business activity mappings, and related risks. It helps determine users and roles that have Segregation of Duties violations.		
	Access Risk Controls enforces Segregation of Duties checks by relating the business activities model and application permissions.		
	It uses the concept of at-risk activities and provides the tools necessary to link activities to entitlements or permissions. The assessment of the risk level of activities can be translated into the risk level of entitlements or permissions that are assigned to users involved in those activities.		
	See Introduction to Access Risk Controls.		
Access Risk Controls for SAP	It extends the capabilities of Access Risk Controls to the authorization framework of SAP systems.		
	It is designed to work specifically with SAP roles. It downloads SAP role definitions directly from SAP targets, analyzes them, and determines the ones that have Segregation of Duties risks.		
	An SAP administrator can use the acquired information to take action on the SAP system. Identity Governance and Intelligence can also use the information to run an in-depth analysis on user violations.		
	See Introduction to Access Risk Controls for SAP.		
Process Designer	It is a tool used for designing and defining authorization processes based on custom business rules. It produces the Access Requests authorization workflows.		
	Process Designer provides a modeler for outlining the access request and approval process and for integrating other external target systems.		
	It works with the Access Governance Core module to manage:		
	Requests to access the system application.		
	Allocation and revocation of authorization profiles.Password lifecycle.		
	 Notifications that are sent to users during different phases of the authorization process. 		
	Temporary delegations of personal roles that are associated with users of the system.		
	• Definition of the visibility range that is associated with an administrative figure.		
	See Introduction to Process Designer.		

Table 21. Administration Console modules (continued)

Administration Console modules	Description			
Target Administration	It is a tool that is used by administrators to perform target administration, including:			
	Import target profile.			
	Import account attributes mapping.			
	Configure account defaults for target profile.			
	Search, add, modify, and delete targets.			
	Manage reconciliation.			
	Set up account defaults for a target.			
	See Target administration and Target type administration			
Enterprise Connectors	Identity Governance and Intelligence use Enterprise			
Enterprise Confectors	Connectors as an alternative for integrating with target systems that the Identity Brokerage cannot support.			
	It provides a set of connectors to consolidate and synchronize user entitlements with the most common enterprise applications. These connectors can include SAP and Oracle applications, Active Directory, LDAP, and many others.			
	It keeps the Access Governance Core repository synchronized with the target systems if there are changes on the repository or on the target systems.			
Report Designer	It manages reports and dashboard items.			
	Identity Governance and Intelligence provides several ready-to-use reports for every activity it manages, and a set of configured dashboard items to be used on Dashboard home pages in the Service Center.			
	Administrators can use Report Designer to:			
	Create and customize report queries.			
	Create and customize reports.			
	Create and customize dashboard items			
	Configure and assign dashboards.			
	Assign the product report to a user or an entitlement.			
	Organize the product reports.			
	See Introduction to Report Designer.			
Task Planner	It manages scheduled tasks and custom jobs.			
	Identity Governance and Intelligence runs many internal jobs to support its own processes. Administrators can use Task Planner to:			
	Define different execution schedules.			
	Stop processes that are not required.			
	• Implement and schedule custom jobs to better support specific scenarios.			
	See Introduction to Task Planner.			

Service Center applications

Service Center consists of the following applications, which are designed to simplify actions and to guide users in their tasks.

Table 22. Service Center applications

Service Center applications	Description		
Access Certifier	It manages the reviews and certification of user access entitlements to prevent users from acquiring access that is not necessary for their jobs.		
	Managers can confirm or revoke user roles, roles assigned to the groups of a hierarchy (for example, organizational units), and user accounts.		
	Access reviews and certifications can be scheduled, triggered automatically, or started manually.		
	See Introduction to Access Certifier.		
User-account matching	It manages orphan accounts from targets that are currently not matched with the organization's policies.		
	Identity Brokerage usually manages the unmatched accounts using rules defined on customer business policies. When these rules are unable to match the accounts, an entitled Manager can use this module to match them manually.		
	See Introduction to User-account matching.		
Access Requests	It runs the Access Requests workflows configured in the Process Designer module.		
	The main tasks available are:		
	Generate requests to change user roles.		
	Lock and unlock user accounts.		
	• Request new roles.		
	Change and reset user passwords.		
	Depending on the entitlements assigned to a user, this module shows the user which requests the user can operate. Typically, this module is used by managers.		
	Access Requests directly communicates with the Access Governance Core for the allocation and the revocation of user roles and for the propagation of permissions on potential target systems.		
	See Introduction to Access Requests.		
Business Activity Mapping	It creates the correlation between Business Activities and Permissions, needed to perform a Segregation of Duties analysis.		
	This module provides a simplified Access Risk Controls functionality that can be made available to users.		
	See Introduction to Business Activity Mapping.		

Table 22. Service Center applications (continued)

Service Center applications	Description		
Report Client	It is a tool to configure and run reports that are designed through the Report Designer module. It provides a modeler that can outline every type of report.		
	See Introduction to Report Client.		
Self Care	It enables Users to:		
	Change the Service Center password.		
	Change the account password for active accounts.		
	• View Self Care requests status.		
	• Update the security questions for account recovery.		
Persona-based dashboard	It helps Users with tasks prioritization through customized views. When a User logs in to Service Cente the home page shows all dashboard items for all Administrator Roles assigned to the User.		
	The Administrator Roles are:		
	Application Manager		
	User Manager		
	• Employee		

Notes on using the user interface

Be aware of the following facts when you use either the Administration Console or the Service Center modules:

Wildcard characters for the Search tool

You can use either the asterisk (*) or the percent sign (%) when you search for specific items. You can also type the starting characters of the item you are searching to narrow your search results.

Direct page changes in multi-pages lists

When a list of items fills more than one page, you can move your mouse to the box that is located at the bottom of page 1, type your desired page number, and press the Enter key to traverse directly to one of the following pages.

Chapter 6. Language support

The IBM Security Identity Governance and Intelligence virtual appliance and user interfaces, including reports, are available in several languages.

The following are the supported languages:

Table 23. Supported languages

Locale code	Language		
ar	Arabic		
cs	Czech		
de	German		
en	English (United States)		
es	Spanish		
fr	French		
he	Hebrew		
hu	Hungarian		
it	Italian		
ja	Japanese		
ko	Korean		
nl	Dutch		
pl	Polish		
pt, pt_BR	Brazilian Portuguese		
ru	Russian		
tr	Turkish		
zh, zh_CN	Simplified Chinese		
zh_TW	Traditional Chinese		

Chapter 7. Known limitations, issues, and workarounds

You can view the known software limitations, issues, and workarounds on the Identity Governance Support site. Also, consider the known limitations described here.

The Support site describes not only the limitations and issues that exist when the product is released, but also any additional items that are found after product release. As limitations and issues are discovered and resolved, the IBM Software Support team updates the online knowledge base. By searching the knowledge base, you can find workarounds or solutions to issues that you experience.

To create your own query, go to the IBM Software Support website: https://www-947.ibm.com/support/entry/portal/support.

Select All check box remains selected after the user clears selections in the table

The **Select All** check boxes that are present in all of the tables in the Service Center and Administration Console remain selected even after the user clears selections.

Proceed by continuing to clear selections as needed after you select the **Select All** check box, and ignore this issue. After you clear the selections that you do not need, those items are cleared even though the **Select All** check box remains selected.

Turkish uppercase "I" is not correctly read from DB2 repository

During a search in a generic UI panel, for recovering textual data where the Turkey uppercase "I" could be present, the search fails in DB2 repository (but functions in Oracle DB).

Non-English characters are missing in generated PDF reports

The generated report that contains non-English characters fails when you choose to export it in PDF format.

Cannot rename the group name on the target endpoint

The group name cannot be renamed on the target endpoint.

Chapter 8. Cookbooks

Cookbooks are scenario-based, step-by-step guides that provide how-to information and tasks so that you can successfully deploy the specified scenario.

IBM developers create Cookbooks, which are supplementary resources. They are located and updated in IBM developerWorks. Documents in IBM developerWorks might not be translated or supported by IBM Support.

Use the following Cookbooks with information in the IBM Knowledge Center:

• Cookbook for IBM Security Identity Governance and Intelligence integration with IBM Security Identity Manager

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new features overview 15

IBM.

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