SES ENGINEERING Studio: Security Management Basics

By The REUSE Company

Keep the concept of requirements quality and leverage other Systems Engineering activities by providing lifecycle management, traceability management, verification, and validation support with the SES ENGINEERING Studio.





icense winnber which which which which which winnber which with the winnber which wh

SES ENGINEERING STUDIO: SECURITY MANAGEMENT BASICS

The REUSE Company et. al

2025 Edition

icense winnber which which which which which winnber which with the winnber which wh



SES ENGINEERING STUDIO: SECURITY MANAGEMENT BASICS

Version 1.1

The REUSE Company Calle Margarita Salas, 16 2-D Parque Tecnológico LEGATEC 28919 Leganés – Madrid SPAIN – EU

http://www.reusecompany.com Phone: (+34) 912 17 25 96 Fax: (+34) 916 80 98 26 Twitter: @ReuseCompany E-mail: contact@reusecompany.com

Copyright © 2025 Knowledge Centric Solutions, S.L. (ES B87512893) All right reserved, The REUSE Company, RQA – QUALITY Studio, SES ENGINEERING Studio, KM – KNOWLEDGE Manager, RAT-AUTHORING Tool, TRACEABILITY Studio, V&V Studio, OSLC Knowledge Management and other TRC products, brands and trademarks are property of Knowledge Centric Solutions, S.L. Other products, brands and trademarks are property of their respective owners/companies.

Changes History:

Version	Date	Changes
1.0	October 2022	Initial version
1.1	January 2025	New version 23.4

, cance Minnber

Table of Contents

1 Introduction	9
2 Objectives of the Security Management Capability	
3 Security Philosophy in SES ENGINEERING Studio	
3.1 SES Server Configuration	
3.2 User administrator by default	
4 Security Levels: at Application / at Connection	
5 Concepts	
5.1 Security Modules	17
5.2 Roles and Users	
5.3 Tool Operations Groups and Tool Operations	17
6 Concepts for Managing Security in SES	
6.1 Metamodel	
6.2 Security Levels	
7 Permissions	
8 Custom Code Security Management	
9 Security GUI Views	
10 Start Using Security Management	
10.1 How to create roles	
10.2 How to Assign Users to Specific Roles and Roles to Specific Connection Modules	
10.3 How to Create a Security Template	
10.4 How to create a connection-level security module	40
10.5 How to Create a Connection and use the Roles and Security Modules inside	42
10.6 Executing the Quality Management capability with permissions	43
10.7 Summary	46
Annex 1: Security Permissions List	49
Annex 2: Minimum Security Configuration permissions	53

1 Introduction

This document applies to the 23.4 version of the product.

The SES ENGINEERING Studio is the main tool developed by The REUSE Company to manage the systems engineering life cycle and requirements.

The SES ENGINEERING Studio allows any systems engineer to manage different types of workproducts. From goals and high-level requirements to system or subsystem requirements, risks, verification actions... On top of that, and thanks to the *connectivity* capabilities of the SES ENGINEERING Studio, external repositories can also be connected. This includes, among others, SysML/UML/Capella models, simulation models, MS Excel worksheets, MS Word documents, requirements managed in many types of repositories (IBM DOORS, Teamcenter, Polarion...).

All in all, the number of different sources that are to be considered in a complex systems engineering project is huge and, at the same time, maintaining traceability among all these elements is key for the success of the projects and, in many cases, required by standards, guidelines, best practices or recommendations.

Therefore, the SES ENGINEERING Studio provides mechanisms to identify all the different documents (models, physical documents, and other types of containers of engineering workproducts) that conforms a project, and to define the different semantics of the traces to be eventually created among the items contained in those elements. All this, in most of the cases, without even opening the source tool where the items were created and managed.

This tool is designed to group all Engineering Suite capabilities using only one interface. The capabilities supported are related to quality management, verification and validation, life cycle, and traceability, among others.

Specifically, the capabilities included are:

- LIFECYCLE Management
- Quality Assurance: RQA QUALITY Studio
- V&V Assurance: V&V Studio
- Traceability Management
- Knowledge Management: KM KNOWLEDGE Manager
- Requirements writing assistance: RAT AUTHORING Tool

All these capabilities are interdependent through the SES ENGINEERING Studio, but the customer may contract some of them separately. Because of this, each capability has its user guide, supplied to the appropriate customer as contracted.

This guide refers specifically to the Security Management capability. You can use the SES ENGINEERING Studio using the MS Windows authentication, but it has also in-built a capability to manage authentication and access control to the different features of the tool. This is accessible at the repositories home menu:

Configure SES Server	
Test License	2
Configure Authentication	
Clear Authentication	01
FIGURE 1	

Choosing Configure Authentication allows the user to select the authentication preferred.

SES ENGINEERING Studio	_		×
E Authentication	1		
SES Authentication	Windows Authenti	cation	
User:			
SESAdministrator			
Password:			
	ОК	Ca	ncel
Fig	URE 2		

In any case, you can use the Security Management capability to select the functions and features each user is permitted to execute inside the tool.

In this guide, we are detailing the basics, options and concepts related to this capability. For more information, please, use the SES ENGINEERING Studio: User Guide.

2 Objectives of the Security Management Capability

The Objective of the Security Management tool is to provide security control to the whole operational environment of SES ENGINEERING Studio.

Through the creation of roles, execution permissions can be assigned on specific functionality operation. These roles contain sets of users or Active Directory rules and may be assigned to individual operations or to groups of operations that are related.

3 Security Philosophy in SES ENGINEERING Studio

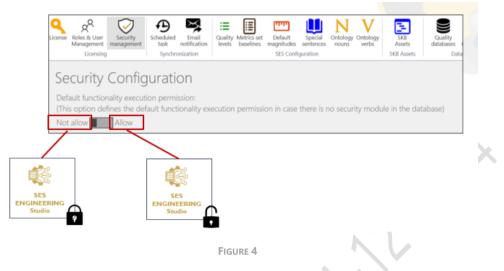
3.1 SES Server Configuration

It is possible to set from the SES Server tool an execute permission for all functionality operations. This permission consists of allowing or disallowing the execution of operations for all users as long as there are no security modules (to be explained in 5.1 in this guide).

This execute permission is set for the first time during the SES Server installation. Following, the step where this permission is configured during installation is shown.

Setup - Systems Engineering Suite Server	_		×
Security permission			
Functionality execute permission by default			
Next, the default functionality execute permission must be set. The permission that users will have in case of not configuring a securit		the	
Allow to execute functionality			
O Do not allow to execute functionality			
< Back N	ext >	Can	icel
FIGURE 3			

The assignment can be modified from the Security Management section on the SES Server as it is shown in the next figure:



3.2 User administrator by default

There is a default user with the ability to execute all functionality operations. This user is: SESAdministrator and will have permission to execute the operations as long as there is no security module created and the default permission configured on the SES Server is "Allow".

If there are security modules created, this user will have to be given specific permissions in the corresponding module operations.

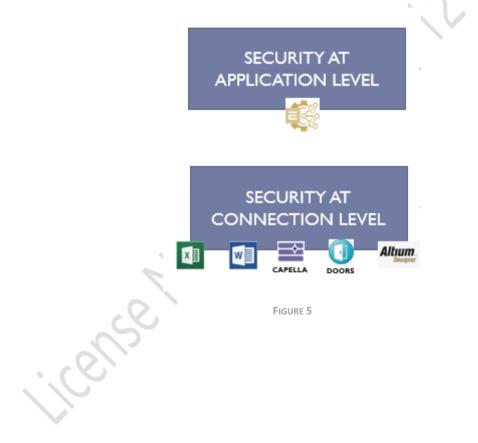
NOTE: It is a good security practice to change the default password for the SESAdministrator profile.

4 Security Levels: at Application / at Connection

Security configuration via modules is set at two possible levels:

- Security at application level: Security control of global functionality in ENGINEERING Studio tool
- **Security at connection level**: Security control of functionality set to specific *Connectors* affecting all the modules included in the derived *Connection*.

Please, to know more about *Connectors*, *Connections*, and *Connection modules* please refer to the SES ENGINEERING Studio: User Guide.



5 Concepts

5.1 Security Modules

The *Security Modules* contain the assignment of users to functionality execution permissions, therefore, are used to perform the security control of the execution of operations and also custom codes.

Types of Security Modules:

- At application level: to manage security for global functionality and custom codes. For example: create, edit or delete connectors, open an interoperability module or assign a role to a specific operation
- **At connection level:** to manage security functionality for specific *connectors*. For instance: run RQA metrics, create a workproduct, or run a project lifecycle.
- **Templates:** to be used to create a *Security Module at connection level* after assigned permissions to *Roles*.

5.2 Roles and Users

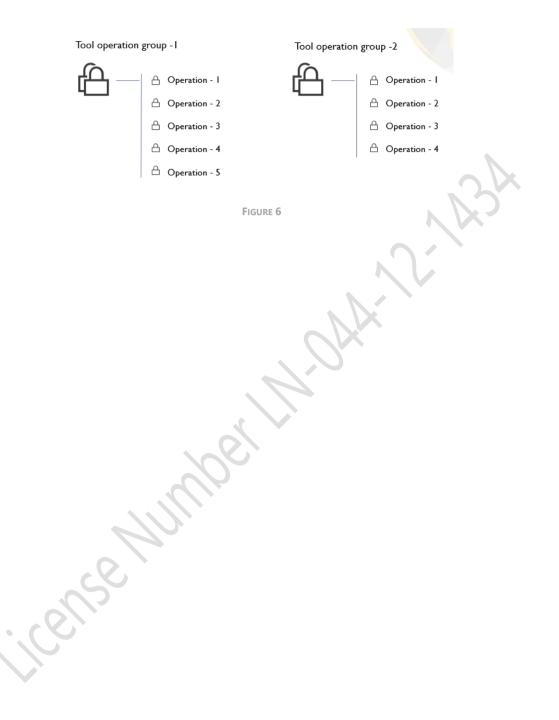
Roles are used to store a set of users. These users can be:

- **KM Users:** Users created with TRC tools, and stored in the *Repository* or *Knowledge database*
- Active Directory rules: Users, machines, and user groups of Windows security system, including a combination of those elements

5.3 Tool Operations Groups and Tool Operations

An *operation* represents the executable functionality of the tools. For instance, *calculate metrics* with RQA – QUALITY Studio, *modify requirements* in SES ENGINEERING Studio.

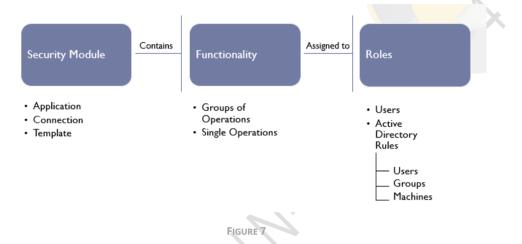
Executing operations can be grouped in terms of the *application domain* as a way for simplifying the security administration of one specific tool or application.



6 Concepts for Managing Security in SES

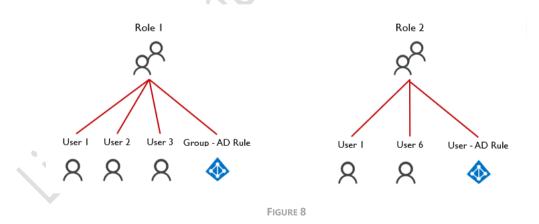
6.1 Metamodel

To manage security, we have a *metamodel* or a conceptual model, representing the relationships between the concepts presented in chapter 1, as shown in the next figure:

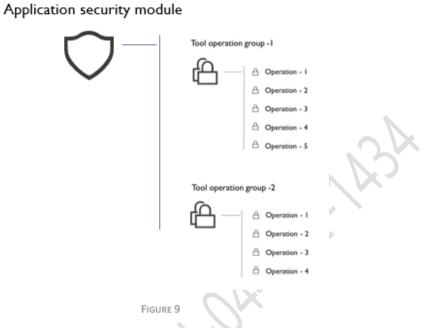


Example of a security management workflow:

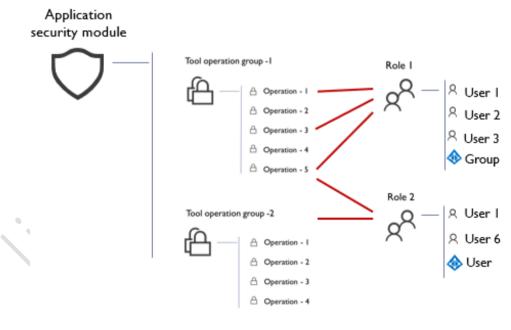
• First, we create sets of Users and Active Directory rules through Roles, as shown in the next figure:



• Second, we create an *Application Security Module* that contains different *tool operation groups*, as shown in the next figure:



• After that, we must assign *roles* to operations or *operations groups*, as shown in the next figure:





The result is that the users can execute the following operations:

User I	User 2
Operation - I	Operation - I
Operation - 3	Operation - 3
Operation - 5	Operation - 5
Operations in group 2	
User 3	Users in AD Rule group
Operation - I	Operation - I
Operation - 3	Operation - 3
Operation - 3 Operation - 5	Operation - 3 Operation - 5
•	
Operation - 5	Operation - 5
•	

Notice that, for example, the user 1 can execute operations 1, 3, and 5 and all the operations in group 2 (operations group 2) since this user belongs to both roles.

6.2 Security Levels

As mentioned above, there are security modules at the application level and at the connection level. This section will explain the different levels of permission control based on these settings.

The first check when a functionality is executed is if there are security modules. If they don't exist, it checks the execute permission set on the server. If it is set to "Allow" the operation can be executed, if it is set to "Not Allow" the operation cannot be executed.

In the case of existing security modules, first it is verified that there are modules at the connection-level.

If there is a module at the connection level, it is checked if the user is in a role assigned to the operation, if it is, it will be able to execute the functionality, if it is not, the same check will be carried out in the module at the application level.

If the user is not within any role assigned to the specific operation or to the group of operations that contains it, the functionality cannot be executed.

7 Permissions

There are several different operations groups for an Application Security Module and a Connection Security Module:

- The Security management operations contains the functionality for the Security Management itself, for example: create users, create roles, assign roles, assign operations to roles...
- The *Application execution operations* that control de execution of tools or capabilities in the SES ENGINEERING Studio.
- Lifecycle management, including all Lifecycle Management capability operations. See the Lifecycle *Management Capabilities for the SES ENGINEERING Studio: User Guide* for more information.
- Traceability management, including all TRACEABILITY Management capability operations. See the *TRACEABILITY Management Capabilities for the SES ENGINEERING Studio: User Guide* for more information.

Following, the groups of operations that contain the application-level module and the connection level module are presented:

TABLE 1

Application security module
Security Management Operations
Application Execution Operations
RQA Operations
Lifecycle Management Operations
Risks & Alerts Operations
V&V Operations
Traceability Management Operations
Content Manager Operations
SES ENIGINEERING Studio Operations
Universal Report System Operations

TABLE 2

Connection security module

RQA Operations

Risks & Alerts Operations

V&V Operations

Content Manager Operations

SES ENIGINEERING Studio Operations Universal Report System Operations

			1BA
icense			
	Juni	SC.	
ense			
iles,			

8 Custom Code Security Management

A *Custom Code* is the *extensibility mechanism* that allows to program and executes C# code against SES ENGINEERING Studio for specific purposes: Quality metrics, V&V, suggest traceability, filter information...

Codes must be controlled for security reasons. To configure *code security management*, we have three options:

- Allow or not the execution of *custom code* checkbox, affecting all the SES ENGINEERING Studio environment.
- If Allow custom code is enabled, it is possible to select the custom codes types allowed in SES ENGINEERING Studio, one by one or the whole, to control the execution and creation of *Custom code*.
- Delete all custom codes in the database button will delete all the existing Custom Codes inside the Repository or Knowledge database.

Custom co	ode type		\checkmark
	DGE Manager - Reasor	ning Rule	\checkmark
🗐 RQA - Co	rrectness Custom Code	Metric	\checkmark
🗐 RQA - Co	mpleteness Custom Co	de Metric	\checkmark
	··		
Delete all cu	stom codes		
	FIGURE 12		

9 Security GUI Views

To access *Roles & Users Management* and *Security Management* tools, note that SES ENGINEERING Studio has two ways for it, as represented in the next figure also showing the *Repositories* of *Knowledge databases*, but also in the SES menu of the SES ENGINEERING Studio tool.

•			SES ENG	INEERING Studie			– a ×
Discorrect	Repositories						
Home							⊖ View as card ⊡ View as table
Repositories	SLS18	SLS1-SQLS	test/ia27	SLS161224	8GLServe/202	TE8T1867 0	
	Identifier:	Identifier:	Identifier:	identifier.	Identifier:	identifier.	ø
Roles & Usors	Soute		13 K X				Contract
Security Management	training Ontobase:	TRAINING@28000 Database:	locationt Database	TRAINING@28000 Dotobose:	TeamingUSQLEXPRESS Dotabase:	Training@28003 Distobase:	π
Netifications	newone	TRAINING	lestea	TRAINING	AM	Training	4 5
	Last usage: 1/21/2025 11:44:19 AM	Last usage: 12/18/2024 7:12:09 PM	Last usage: 12/17/2024 5 12:12 PM	Last usage: 12/16/2024 5:51:29 PM	Last usage: 12/16/2024 5:18:50 PM	Last usage: 12/19/2024 4:38 03 PM	Check Connection
SSOT Live Assets	Ilyua	RQA RAT Manda on 23.4	TEST MySQL 8.0.40	TEST sos_user \$.0.40	APITIST	SIBS v23 - Temperature Vitarrier	Л
	Identifier:	Identifier:	Identifier:	identifier:	Identifier:	identifier.	
Open ES Server	Source:	Source: Training/SQLEXPRESS	Source: locathort	Source: localhost	Source: Tesining/SQLEXPRESS	Source: logahoet	Chuck Version
	Database: C.W.sers/ses_training/Desktopins.	Database: IRGA BAT Bands on Session v23	Detabase: roa quality analyzer v23.3 (englisit)	Database: rga quality analyzer v23.3 (english)	Database: TESTAPI	Database: SES v23 - Temperature Vitamor	
	Lost usage:	Last usage:	Lost usope:	Lost usage:	Linet usoper	Lost usage:	X
	11/28/2024 12:32:19 PM	11/28/2024 12:02:16 PM	11/28/2024 11:23:58 AM	11/27/2024 4:10:11 PM	11/27/2024 1:33:58 PM	11/20/2024 11:50:56 AM	Clear Autoconnect
	test2sisKM Identifier:	testroa Monthior					
	Identifier 17 Source:	12 Source:					
	TRAINING@38103	localhast					
	TRAINING	Database: testige					
	Last usage: Nover	Last usage: Nover					
About us							
Help							
Open Log File							
			Figu	JRE 13			

Roles & Users Management panels allow to create/add or remove Roles from the left panel (Figure 14) and add Users in the existing Roles from the right panel (Figure 15).

SES	Connections	Life Cycle	Change Management	Quality	V&V	Traceability	Interoperability	Reports				
g ^R Roles	s & Users 🛛 😒	Security Manage	ment									
s ^e Role	es & Users											×
Role	es & use	ers									Save	
	w User view	Active Directo	v rules view									
S :0		Description				Users	Active Directory Rules	Groups and Oper	rations			
	New Role New Role	Description of the r Administrator	rew Role) Id	Name	Тур	9			
	Production	Psoduction User					Administrator		Suite Administrator			
			Add new Role			A 72	SESAdministrator	SE	Suite Administrator			
			K Remove Role									
							Low +			-	_	

FIGURE 14

Database Users Users:			-		×
Search		Role			
Name Administrator	.ogin Admin	SE Suite Administrator			
R SESAdministrator	SESAdministrator	SE Suite Administrator			
Number of users: 2					3
			OK	Ca	ncel
	Freues 45				

		~		-	-	-1	E
- 12	ı	G		ĸ	E.		-
-		-	-				-

It is also possible to create /delete Users previously created in the *Repository* or *Knowledge database* for the *SES ENIGINEERING Studio User* role from the previous window, by using the next menus shown in Figure 16.

	+	Add user			
	0	Edit user			
	×	Delete user(s)			
		Select all			
		Invert selection			
		Select none			
	D	Copy selection	to clipboard		
	C	Refresh			
		Figu	JRE 16		
	User				×
	User configuration:				
	Name:		Login:		
	Password: Enter your passwor		Confirm Password: Enter your password	4	0
	Email:	d '0'	Mobile:	1	-01
	Role:	I			
•	SE Suite User				•
				ОК	Cancel



Security Management panels allow to manage security, allowing to create the different kinds of *Security Modules*.

Notice that the *Security Configuration* has two stages, *Configurations* actions, and *Selected Configurations* actions, and different panels too inside of each stage:

- Configurations
 - Security Modules (at application, functionality, and roles levels)
 - Custom code security management (to manage custom code use)
- Selected Configurations
 - Functionality (Operations and Groups of operations)
 - Roles (to be assigned to Operations)
 - Users (included in Roles)

S	Connections	Life Cycle	Change Manageme	ent Quality	V&V Tracea	bility Interoperability	Reports				
Roles	s & Users 🛛 🖓 S	ecurity Managem	nent								
	urity Managen	nent									-
ec	rurity Co	onfigurati	ion							Sa	ve
	carrey ee	ingulat									
onfi	igurations:			Selected Co	nfiguration:						
				Security module	a name		Operation gro	up name	Role name		
20	Name	Description	Туре	Application lev	vel security module		Security Mar	agement Operatio	New Role		
\cup	Application level s	Application level s	Application se	Security module	e description		Operation gro	up description	Role descript	ion	
				Application lev	vel security module	·	This group of	ontains the exer	Description	of the new P	Rol 🔺
											Ŧ
											_
				Tool operation	groups and tool opera	tions contained in the secu	r Roles assigne	d to the selected to	Users and ac	tive director	y rule
				lcon	Name	Description	20 Name	Descripti	Active Dire	aten / Dulas	
					Security Management	This group contains the	2 User	Descript ^	Users	CIOLA LINE LINES	
_					Manage security modu Manage roles	Operation to manage s Operation to manage re				-	- (
		×			Manage users	Operation to manage u			Id N 8 71 A	a Ty d SE	_
									· · · · ·		
AI	ow custom code				Manage active director	Operation to manage A			Q 72 S	E SE	
	t the custom code	types allowed			Assign or unassign role	Operation to assign or			Q 72 S	E SE	
elect		types allowed			Assign or unassign role Save security module	Operation to assign or Operation to save a set			Q 72 S	E SE	
elect	t the custom code Custom code type	types allowed nager - Reasoning R		- A - A - A	Assign or unassign role Save security module Application Execution (Operation to assign or Operation to save a see This group contains the			<u>A</u> 72 S	E SE	
	t the custom code Custom code type KNOWLEDGE Mar		Rule 🔽 🔨		Assign or unassign role Save security module Application Execution (SES Server Execution	Operation to assign or Operation to save a set This group contains the Operation to control the			<u>A 72</u> S	E SE	
elect	t the custom code Custom code type KNOWLEDGE Mar RQA - Correctness	nager - Reasoning R	Rule 🔽		Assign or unassign role Save security module Application Execution (SES Server Execution KM Execution	Operation to assign or Operation to save a ser This group contains the Operation to control the Operation to control the			<u>Q</u> 72 S	E SE	
c C C C F	t the custom code Custom code type KNOWLEDGE Mar RQA - Correctness	nager - Reasoning R : Custom Code Metri	Rule		Assign or unassign role Save security module Application Execution (SES Server Execution KM Execution SES ENGINEERING S	Operation to assign or Operation to save a set This group contains the Operation to control the Operation to control the Operation to control the			<u>Q</u> 72 S	E SE	
Select	t the custom code Custom code type KNOWLEDGE Mar RQA - Correctness RQA - Completene	nager - Reasoning R Custom Code Metri rss Custom Code Me	Rule		Assign or unassign role Save security module Application Execution (SES Server Execution KM Execution SES ENGINEERING S SES RQA - Quality Stu	Operation to assign or Operation to save a see This group contains the Operation to control the Operation to control the Operation to control the Operation to control the			<u>Q</u> 72 S	E SE	
elect	t the custom code Custom code type KNOWLEDGE Mar RQA - Correctness RQA - Completene	nager - Reasoning R s Custom Code Metri ss Custom Code Me	Rule		Assign or unassign role Save security module Application Execution (SES Server Execution KM Execution SES ENGINEERING S SES RQA - Quality Stu SES TRACEABILITY S	Operation to assign or Operation to save a set This group contains the Operation to control the Operation to control the Operation to control the		~	Q 72 S	E SE	~

FIGURE 18

To create a new Security Module, right click on configuration panel we use the menus shown in:

Name	Description Type	
	on level s Connection level s Connection security	
	Create application level security module	1
	6 Create connection level security module	1
	Create connection level security module from template	-
	Create security module template	
	Create traceability project security module Create traceability module security module	
	Create traceatelity module security module	
	Create UTE workflow security module	
	× Remove security madule	
	Manual Strend underst	1



To assign Roles to Operations groups and/or operations we use the menu shown in Figure 20.

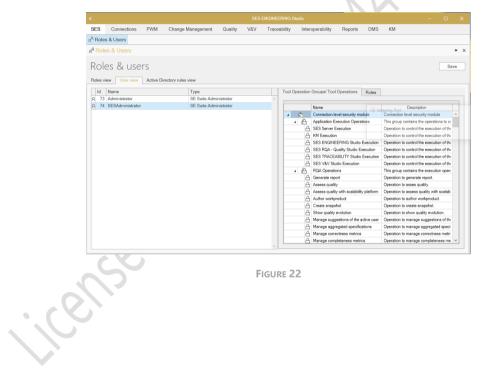
S Connections Life Cycle Cl	hange Manageme	ent Quality	V&V Tracea	bility Interoperability	Reports			
Roles & Users Security Managemen	it							
Security Management								-
ecurity Configuratic	n						St	ave
ceancy configuration								
onfigurations:		Selected Co	infiguration:					
		Security modul	-		Operation group name	Role name		
i to Name Description Ty	pe	-	vel security module		Security Management Operatio	New Role	1	
Application level s Application level s Ap	plication se	Security modul			Operation group description	Role descrip	ation	
			vel security module		This group contains the exer		of the new	Rol
		Tool operation	groups and tool opera	tions contained in the secu	Roles assigned to the selected to	Users and a	ctive directo	ory n
		lcon	Name	Description				
		- V A	Security Management	This group contains the	20 Name Descript	Active Dir Users	ectory Rules	ê.
	~ 4		Manage security modu		Coser Descript	05015		
•			Manage roles	Operation to manage re	+ Add existing Role	Id	Na Ty	
Allow custom code			Manage users	Operation to manage u	X Unassign Role	the second second	Ad SE	
elect the custom code types allowed			Manage active director Assign or unassign role			R 72	SE_ SE_	
••			Save security module	Operation to save a ser				
Custom code type		1 A	Application Execution					
KNOWLEDGE Manager - Reasoning Rule			SES Server Execution	Operation to control the				
RQA - Correctness Custom Code Metric			KM Execution	Operation to control the				
RQA - Completeness Custom Code Metric			SES ENGINEERING S	Operation to control the				
	· · ·		SES RQA - Quality Stu	Operation to control the				
				Operation to control the				~
Delete all custom codes			SES V&V Studio Exect	Operation to control the \lor	×			
				Low			-	

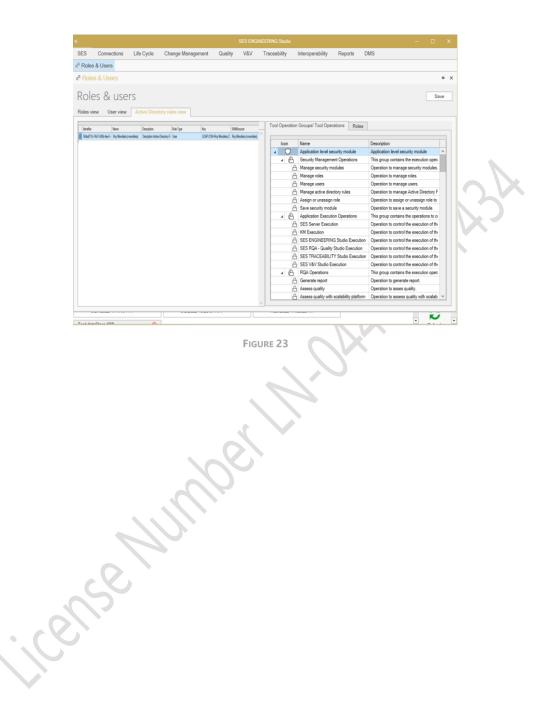
To assign Users to Roles we use the menus shown in Figure 21 (Roles View).

<u>ال</u>										SD	BENGINEERING	3 Studio					- 0	×
SES	Connections	PWM	Change Management	Quality	V8V	Traceability	Intercperability	Reports	DMS	KM								
Secu	rity Managemen	g ^A Role	s & Users															
g ^a Role	is & Users																	×
Del	es & use																	
ROI	es & use	15															Save	
Roles v	User view	Active D	realary rules view															
	m Norma					Description					Um	era A	fetine Directory Roles	Groups and Operation	 Notification of 	an a la		
1	P. Admin	Desc	ription of the new Role											orops ins operator	- Homanoro			
												Id Na	ame dministrator			Type SE Suite Administrator		
													ESAdministrator			SE Suite Administrator		
											X, L				[+ Add User To Adve	 v	
										FI	GURE	21	I					

FIGURE 21

The User view (Figure 22) and Active Directory rules view (Figure 23) tabs provide a summary of specific information per user and Active Directory rules. Note that these views are not editable.





10 Start Using Security Management

This chapter explains a typical example of the use of Security Management for SES ENGINEERING Studio with the next simplified scope of work:

10.1 How to create roles

- 1. Open SES Engineering Studio and select a Repository or Knowledge database
- 2. Connect to that Repository or Database
- 3. Click on SES tab

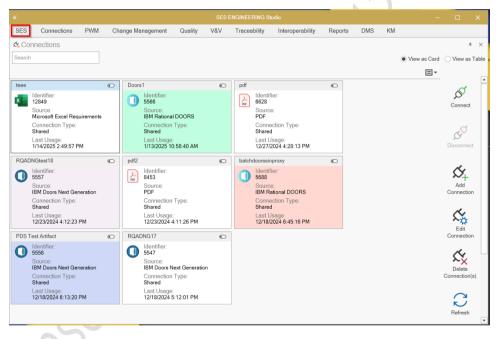
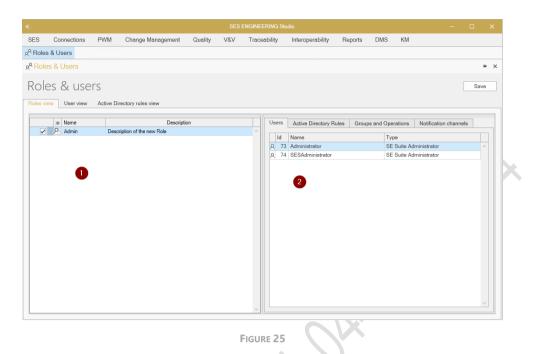


FIGURE 24

4. Go to Roles and Users.



- Window 1: Where roles are created.
- Window 2: Where user, AD Users or AD Groups are selected to be inside the role selected in Window 1.
- 5. Inside Window 2 there are 2 principal Tabs
 - Users: Users created inside SES Server.
 - Active Directory Rules: Here it can be selected User, Machines or Groups of the Active Directory. Right click on the Window 2, add Active Directory Rule, then select the type (User, Group or Machine), then click on the magnifying glass, this window will appear (image 29), then write down the criteria desired to look for the item, select it and click on OK button.

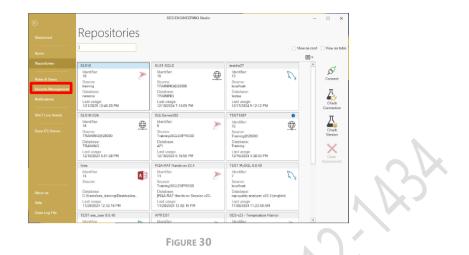
Validation Rule	– 🗆 X
Туре:	
User	▼ <i>P</i>
Item:	
	Accept Cancel

FIGURE 26

Validation Rule Type: Group Item: Accept Cancel FIGURE 27 Validation Rule - × Type: Computer Item: Item: Computer Item: FIGURE 28	Type: Group Item: Item: Accept Cancel FIGURE 27 Validation Rule -	Type: Group Item: Accept Cancel Figure 27 Validation Rule –	Type: Group Item: Item: Accept Cancel FIGURE 27 Validation Rule -				
Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Validation Rule		_	
Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Group Item: Item: Accept Cancel FIGURE 27 Validation Rule - X Type: Computer Item: Accept Cancel FIGURE 28 FIGURE 28	Туре:			
Accept Cancel Figure 27 Image: Computer Validation Rule Type: Computer Item: Accept Cancel Figure 28	Accept Cancel Figure 27 Image: Computer Validation Rule Type: Computer Item: Accept Cancel Figure 28	Accept Cancel Figure 27 Image: Computer Validation Rule Type: Computer Item: Accept Cancel Figure 28	Accept Cancel Figure 27 Image: Computer Validation Rule Type: Computer Item: Accept Cancel Figure 28				• 2
FIGURE 27	FIGURE 27	FIGURE 27	FIGURE 27				[]
Figure 27	Figure 27	Figure 27	Figure 27				
Validation Rule – C × Type: Computer Item: Item: FIGURE 28	Validation Rule – C × Type: Computer Item: Item: FIGURE 28	Validation Rule – C × Type: Computer Item: Item: FIGURE 28	Validation Rule – C × Type: Computer Item: Item: FIGURE 28			Accept	Cancel
Type: Computer Item: Accept Cancel FIGURE 28		FIGURE 27		N			
Computer Item: Accept Cancel FIGURE 28 Accept Cancel FIGURE 28 Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer Computer C	Computer Item: Item: Accept Cancel FIGURE 28 Accept Cancel FIGURE 28 Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Can	Computer Item: Item: Accept Cancel FIGURE 28 Accept Cancel FIGURE 28 Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Can	Computer Item: Item: Accept Cancel FIGURE 28 Accept Cancel FIGURE 28 Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Cancel Can	E Validation Rule		_	_ X
Item: Accept Cancel FIGURE 28 Accept	Туре:						
FIGURE 28	Figure 28	Figure 28	Figure 28	Computer			• 🔎
FIGURE 28	FIGURE 28	FIGURE 28	FIGURE 28	ltem:			
FIGURE 28	FIGURE 28	FIGURE 28	FIGURE 28				
Addre derstry vetsion – – – – – – – – – – – – – – – – – – –	Addre derstry vetsion – – – – – Addre derstry vetsion – – – – – Addre derstry vetsion – – – – – Sandr for User – Sandr for User – Juli – Juli – Juli – Juli – – – – – – – – – – – – – – – – – – –	Addre derstry vetsion – – – – – Addre derstry vetsion – – – – – Addre derstry vetsion – – – – – Sandr for User – Sandr for User – Juli – Juli – Juli – Juli – – – – – – – – – – – – – – – – – – –	Addre derstry vetsion – – – – – Addre derstry vetsion – – – – – Addre derstry vetsion – – – – – Sandr for User – Sandr for User – Juli – Juli – Juli – Juli – – – – – – – – – – – – – – – – – – –			Accept	Cancel
Action destroy methods for the former of the	Action detectory peaks Search for Uner Search and E	Action detectory peaks Search for Uner Search and E	Action detectory peaks Search for Uner Search and E		FIGURE 28		
Search for Ulter	Search for Ulter	Search for Ulter	Search for Ulter				- 0
				Search for: User			
Name Key	, Rani Ery	, Nané Ky	, Nané Kry				
				Name Key			
T Court	C. Cond	C. Cond	C. Cond				OK Caread

10.2 How to Assign Users to Specific Roles and Roles to Specific Connection Modules

1. Using the **SES** tab on top, access to the *Repositories* window and select **Security Management** on the Main menu (on the left).



2. Right-click on the left panel and use the contextual menu to select. *Create application level security module*.

SES	Connection	is PWM	Change Management	Quality	V&V Traceabilit	y Interoperability	Reports	DMS	KM			
🤝 Seci	urity Managen	nent										
Sec	urity Manaq	ement										+ ×
Sec	curity C	Configur	ation								S	ave
)	0										
Con	figurations:			Selected (Configuration:							
		n 14	-	Security mod	dule name		Operatio	n group na	ne	Role name		
R.	Name Connection law	Description	el s Connection se	Connection	level security module		Applicat	ion Execut	on Operatio	1		
	Connectionner	cra connectorner	Connection at	Security mod	dule description		Operatio	n group de	scription	Role descript	ion	
	_			Connection	level security module		 This gro 	up contain	s the oper			-
	0	Create applica	tion level security module									-
	1		tion level security module									
	1	🎸 Create connec	tion level security module f	rom template	pups and tool oper	ations contained in the se	cur Roles as	signed to ti	te selected t	c Users and ac	tive directo	ory rule:
		Create security	module template		ame	Description	loon	Name	escript	Active Dire		
			ility project security module		oplication Execution			P Admin	Descri ^	Users	ctory Rules	
	1	Create traceab	ility module security modul	e	ES Server Execution	Operation to control the Operation to control the						_ (
	1	-	ject security module			S Operation to control the				Id Na	I SE	
			rkflow security module		ES RQA - Quality St							
	L	× Remove securi	ty module	_		S Operation to control the						
					SES V&V Studio Exe							
				A . (A	RQA Operations	This group contains the Operation to generate						
					Assess guality	Operation to asses qua						
					Assess quality with so	a Operation to assess qu						
					Author workproduct	Operation to author wo			\sim			
			<u> </u>		Create snapshot	Operation to create sna	~ <	_	>			
					Figures	5.4						
					FIGURE	51						

3. This is going to populate the middle pane. Select a few groups of operation for the security module.

ES	Connections	PWM	Change Management	Quality	V&V	Traceability	Interoperability	Reports	DMS	KM			
Secu	rity Management												
Sec	urity Managem	ent											-
Sec	curity Co	nfiaur	ration									Save	
000	contry co	inigai	Gelott										
Conf	igurations:			Selected	Configu	iration:							
				Security m	- odule nam	8		Operation	n group nar	ne	Role name		
	Name	Descriptio		Applicatio	n level sec	urity module		Security	Managem	ent Operatio	D		
8	Connection level s Application level s		evel s Connection se	Security m	odule desc	ription		Operation	n group des	cription	Role description		
	rippiloadon lotter o	, approximite		Applicatio	n level sec	urity module		 This gro 	up contains	the exec	`		-
								-		-			Ŧ
				Tool opera	tion groups	and tool operation	ns contained in the sec	ur Roles as:	signed to th	e selected	tc Users and active	directory	rule
				_	Name		Description			L + 1			
			~	1			is group contains the ϵ	^ Icon	Name	lescrip	Active Directory Users	r Rules	
		¥					is group contains the c						
	low custom code				RQA Oper		is group contains the e is group contains the e				Id Na	Туре	
Selec	t the custom code ty	pes allowed			,		is group contains the e					^	
	- Custom code type			· • •	V&V Oper		is group contains the e						
							is group contains the ϵ						
-	RQA - Correctness C			• <u></u>			is group contains the e is group contains the e						
-	RQA - Completeness	s Custom Co	de Metric 🗸		-		is group contains the e						
				· 08			is group contains the e						
				• B	Notification	ns Module Ope Th	is group contains the e			\sim		~	
	ete all custom codes						is group contains the ϵ			2			

FIGURE 32

4. Now we are adding this configuration to the *Admin* role. Right-click on the right pane and select *Add existing Role* in the contextual menu.



5. Select the *Admin* role in the window and click *OK*. You are going to see that another panel is going to appear on the right. **Save** the changes.

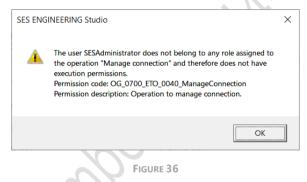
>o Name	Description						
Roy User	Description of the new Role	^	Us	ers	Active Directory Rules		
Rest Admin	General administration role					_	_
RQAV	RQA Adminsitrator role			ld	Name	Туре	_
Reprodu	Psoduction User		8		Dick	SE Suite User	
			8	75	Paul	SE Suite User	
			2	72	SESAdministrator	SE Suite Administrator	

FIGURE 34

6. Now we are assigning the role to a specific connection. Click on the *Connections* tab and then Select the *Connections* button.



7. Select *Add Connection* in the right menu or the contextual menu. A message pop-up showing that SES Administrator does not belong to any role assigned to "Manage connection" and therefore has no execution permissions. Notice that the message also indicates Permission code: OG_0700_ETO_0040_ManageConnection, and Permission description: Operation to manage connection.



- Let's go back the *Roles & Users* tab, using the top menu. Select the *Admin* role and use *Add User to Role* in the contextual menu of the right panel to see the *Database Users* window. Add the *SESAdministrator* user. Click *Save*.
- 9. Now, repeat the step 6. The *SESAdministrator* has permissions for establishing connections, so you will get an *Adding new connection* window. Select the *Microsoft Excel Requirements* option.

Search Textual IBM Rational DOORS Microsoft Excel W Microsoft Word Plain Text	
PTC Windshill Requiry Siemens Polarion Siemens RV&S Siemens Polarion Siemens Teamcenter	
SRT VSDM Requirements	
Functional Behaviour	
Du Ubrary FMU Connector	
Logical Modeling	
Gameo Systems Capella Capella Enterprise Architect	
🔀 MagicDraw 🧭 Papyrus 😰 PowerPoint 🔞 Rhapsody	¥

FIGURE 37

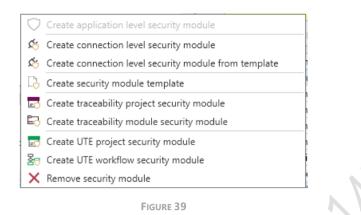
10. Click on the Configuration option on top and select the proper directory and file.

Adding new connection				-	
	Knowledge Type	Configuration	Module Settings	Security	Information
Search Directory:					
D:\TW					Q. 0
File Selector:					
			Search		~ ~
4 🗆 🖻 TW					
🗆 幅 [4.0] System Requirements.xlsm					
					File(s):
				ОК	Cancel
	FIGURE 38				

11. Click on the *Information* option on top to assign a name. Give it a proper name and save.

10.3 How to Create a Security Template

1. Go back to the **Security Management tab** and, using the top-left panel contextual menu, select **Create security module template**.

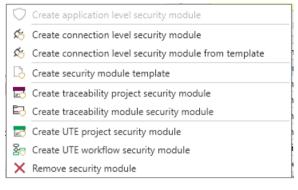


2. The new template is added. Notice that there is no *Custom-code* panel during its configuration because a template can be only used to configure *connection-level security modules. RQA Operations* should be selected in the middle panel. Now select *Add existing Role* in the contextual menu of the right panel. You will get the *SES Role Selection* window. Select *RQAAdmin* and click *OK*. Save the template.

User Description of the new Role Admin General administration role ROAAadmin ROA Administrator role Id Name Type Production Psoduction User X X X X Value Y Y X X X X Production Psoduction User X <	Name	Description						
RQAAadmin RQA Administrator role Id Name Type Production Psoduction User R 71 Administrator SE Suite Administrator RQAAadmin SE Suite Administrator R 72 SESAdministrator SE Suite Administrator	User	Description of the new Role	^	Use	ers	Active Directory Rules		
Production Psoduction User Production Version Psoduction User Production Psoduction User Production Psoduction User Psoduction Version Psoduction Version Psoduction Version Psoduction Version Versio	Admin	General administration role					_	_
A 72 SESAdministrator SE Suite Administrator	RQAAadmin	RQA Adminsitrator role						
	Production	Psoduction User			71	Administrator	SE Suite Administrator	
R 75 Paul SE Suite User				8	72	SESAdministrator	SE Suite Administrator	
				8	75	Paul	SE Suite User	

10.4 How to create a connection-level security module

1. Now we are *security template* in the *Security Configuration* again in the Security Manager area. Select the *Create connection security module from template* option right-clicking on the left panel.





2. You will a get a new Security Configuration window. Make it bigger to ease the operations.

figurations:	Selecte	ed Co	nfiguration:								
Name Description Type	Security r	module	e name		C	Operation group name		Role	name		
Security module to Security module to Security template	Security	modu	le template			RQA Operations		RQA	Admin		
o security module & security module & security amplete	Security r	module	e description			Operation group description		Role	description		
			le template	-		This group contains the execution op				le	
						···· , ··· ,					
					Ŧ		*				
	Tool oper	ration	groups and tool operations containe	d in the security module	R	Roles assigned to the selected tool op	eration g	Users	and active direct	tory rules inclu-	fed
	loor		Namo	Description							
		<u>A</u>	RQA Operations	This group contains the execution ope		30 Name Descripti		Use	Active Dire	ectory Rules	
		A	Generate report	Operation to generate report.	18	RQAAdi RQA Ad		100			
		A	Assess quality	Operation to asses quality.					ld Name	Type	
		A	Assess quality with scalability platform	Operation to assess quality with scala				8	71 Administr.		
	1 1		Author workproduct	Operation to author workproduct.				8	72 SESAdmi		
	• [Create snapshot	Operation to create snapshot.				8	75 Paul	SE Suite U	
		A	Show quality evolution	Operation to show quality evolution.							
	[Manage suggestions of the active use	Operation to manage suggestions of ti							
			Manage aggregated specifications	Operation to manage aggregated sper							
	[Manage correctness metrics	Operation to manage correctness met							
		A	Manage completeness metrics	Operation to manage completeness m							
	1		Manage consistency metrics	Operation to manage consistency met							
			Manage authoring patterns groups	Operation to manage authoring pattern							
			Manage project suggestions	Operation to manage project suggesti-							
			Manage project configuration	Operation to manage project configure							
			Manage custom code reports	Operation to manage custom code rep							
			Manage custom code metrics	Operation to manage custom code me							
			RQA Batch - Create custom report	Operation to create custom report as c							
			RQA Batch - Manage project credenti	Operation to set project credentials to							
			Manage module configuration loader	Operation to manage module configur							
			Manage metrics set baselines	Operation to manage metrics set base		1					
		A	Manage default magnitudes	Operation to manage default magnitus							

FIGURE 42

3. Select the Operations or Group of Operations for the Security Module, keeping it selected, using the checkboxes. Click *OK* when done to return to the main *Security Configuration* window.

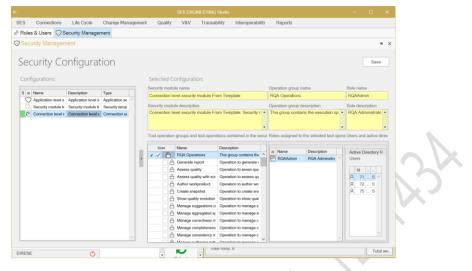
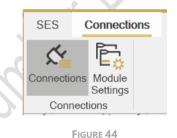


FIGURE 43

10.5 How to Create a Connection and use the Roles and Security Modules inside

1. Now we are creating a connection using the security roles already created. Click on the *Connections* tab and then Select the *Connections* button.



2. Edit the connection already created and go to the *Security* tab. Click on the *Select a specific configuration for the current connection configuration box* if it is not to access the different options. Check also that the RQA Operations group is selected.

Configuration Module Settings Security Information Select a specific security configuration for the current connection configuration. Configurations: Selected Configuration: Security Security module name Operation group na Role name © Name Operation levels RQA Adminis Security module from Template RQA Operations RQAAdministr Security module description Operation group conts RQA Administr Connection level security module Fri This group conts RQA Administr Tool operation groups and tool operatin to group Active Director Users Generation report Operation to as Active Director Users Assess quality Operation to as Security module roat RQAAdministr Security module security module from Template RQA Administr Id Tool operation groups and tool operation to as Security module roat RQAAdministr Security Conserve operation to as Security operation to as Id Id Store watery operation to as Security operation to as Id Id Id Security operation to as Secure report operation to as Id Id Id Id Store watery operation to as Secure report operation to as Id Id Id Id </th <th>Editing connection</th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>×</th>	Editing connection				-		×
Select a specific security configuration for the current connection configuration. Configurations: Selected Configuration: Security module name Operation group na Role name Connection level security module From Template ROA Operation ROA Administr Connection level security module From Template ROA Operation group conta ROA Administr Connection level security module From Template Tool operation groups and tool operation to secure Connection This group conta Connection to set Connection This group conta Connection to set Connection			Configuratio	n Module Settings	Security	Informa	tion
Configurations: Selected Configuration: Sx Neme Description Connection level s Connection level scurity module from Template ROA Operation ROA Admini Security module from Template ROA Operation group na Role name Connection level s Connection level scurity module from Template ROA Operation Operation group de Role description Connection level security module from Template ROA Administr Tool operation groups and tool operatic Roles assigned to th Users and active d Id Connection level security Operation to as Security Operation to as Assess quality Operation to as Id Id Assess quality Operation to as Id Id Show quality ev Operation to as ROA Admin module Show quality ev Operation to as ROA Admin ROA Ar <td>Security Configuration</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>	Security Configuration						•
S) to Name Description I Connection level s Connection level security module from Template RQA Operations RQAAdmin Security module description Operation group de Role description Operation group conta RQA Administr Connection level security module from Template RQA Administr Image: Connection level security module from Template RQA Administr Connection level security module from Template RQA Administr Image: Connection level security module from This group conta RQA Administr Tool operation groups and tool operatin Roles assigned to th Users and active d Image: Connection template RQA Administr Id Mame Description Image: Connection template RQA Administr Id Mame Description Image: Connection template RQA Administr Id Mame Description Image: Connection template RQA Administr Id Mather wedge: Operation to an Image: Connection template Roadad: ROA Ar Id Mather wedge: Operation to an Image: Connection template Roadad: ROA Ar Id Mather wedge: Operation to an Image: Connection template Roadad: ROA Ar <							
Connection level security module Fr * This group conts * RQA Administr * Tool operation groups and tool operatic Roles assigned to th Users and active d toon Name Description V @ RAA Operation This group cont. Active Director This group cont. Active Director Users Assess quality Operation to as Autor workpro Operation to as Brow quality or Operation to at C This area and the operation to at C This group cont. Active Director Users Active Director Users C This area and the operation to at C Thi				1 2 1			
A Crive Director Constant report A Constant report		Connection level se	curity module Fr *	This group conte	RQA Admi	nsitr 🔷	
		Create sn Show quality	attion This group cont. opport Operation to get slifty Operation to as: slifty Operation to cre type Operation to shi		Users Id 8 71 8 72		۲

FIGURE 45

10.6 Executing the Quality Management capability with permissions

1. Now you are not allowed to execute a quality analysis using the Quality Management capability. We are going to try doing it. Open the connection already created using the *Connections* button (Figure 44) and select the *Quality* view.

R Views - Views	<u>e</u> ª Shared		
	R <u>∎</u> QUALITY	∨ ∰ V&V	
\sim	Figur	e 46	

2. Using the contextual menu, select the *Complete authentication option* -> *Correctness* option.

🧶 Auti	hor workproduct		FC.	
Con	nplete specification assessment	•	Ē	CCC
🗿 Ass	sess correctness for selected requirements		H	Correctness
J Ope	en requirement in Excel			Completeness
Rep Sho	port prt report			Consistency
	ar all worksheet quality ar worksheet quality	•		💾 Save 📿 R
View	w text as paragraphs			
Sele	ect all ect none ert selection w search panel			
Res	store default Excel sorting			
Cop	ру	•	c	orrectness Score M., Co
主 Exp	port	•		
	FIGURE 4	7		

3. A message pop-up showing that SES Administrator does not belong to any role assigned to "Assess quality" and therefore has no execution permissions. The message also indicates Permission code: OG_0100_ETO_0015_AssessQuality, and Permission description: Operation to assess quality.

SES ENG	INEERING Studio	×
<u>^</u>	The user SESAdministrator does not belong to any role assigned to the operation "Assess quality" and therefore does not have execution permissions. Permission code: OG_0100_ETO_0015_AssessQuality Permission description: Operation to asses quality.	
	ОК	
	FIGURE 48	

- 4. That means that SESAdministrator is not included in the Role RQAAdmin, which is a Role with all the RQA operations execution permissions, so we are proceeding to assign SES Administrator to that role.
- 5. Let's go back to Roles & Users. On the right pane, right-click and select Add User to Role.

Us	ers	Active Directory Rules	Groups and Op	perations		
	ld	Name	Т	Гуре		
8	74	Dick	S	SE Suite U	ser	\sim
8	75	Paul	S	SE Suite U	ser	
		+ Add × Rem	User To Role ove User			
			FIGURE 4	49		

6. Now select the SESAdministrator user in the list and click OK.

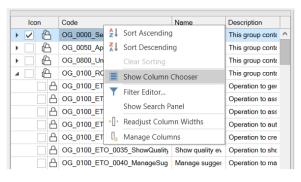
Database Users		-	
sers:			
Search			
Name	▲ Login	Role	
R Administrator	Admin	SE Suite Administrator	
R Dick	Dick	SE Suite User	
R Paul	Paul	SE Suite User	
R SESAdministrator	SESAdministrator	SE Suite Administrator	
Number of users: 4			
Number of users: 4			
Number of users: 4		ОК	Canc

7. Check that SESAdministrator is properly listed and *Save* the role view.

Save
s
5
User
User



8. To help the security manager(s), you can know the affected Code editing the columns of the operations in the Security Management to show the Code column, which is not shown by default. Right-click on the titles of the middle pane to get a menu. Select *Show Column Chooser*.





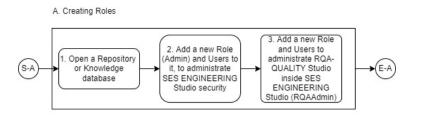
9. Click on the *Code* box to show the column.

	Column Chooser	×	
Sea	rch Columns		
\checkmark	Icon		
\checkmark	Code		
\checkmark	Name		
\checkmark	Description		
	FIGURE 53		

10. Now you should be able to execute the quality assessment. Follow the steps 1 to 3 of this section to perform it.

10.7 Summary

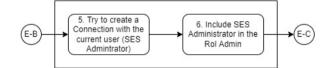
In the next figure it is represented a Summary of the previous exercise:



B. Assigning application-level permission to an existing Role



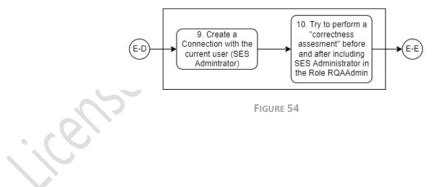
C. Assign application-level permission to existing Users



D. Create a Security template and a Security Module from it



E. Assign connection-permissions to existing Users



Annex 1: Security Permissions List

Security Management Operations		
OG_0000_SecurityManagementOperations	Security Management Operations	
OG_0000_ETO_0010_ManageSecurityModules	Manage security modules	
OG_0000_ETO_0020_ManageRoles	Manage roles	
OG_0000_ETO_0030_ManageUsers	Manage users	
OG_0000_ETO_0040_ManageActiveDirectoryRules	Manage active directory rules	
OG_0000_ETO_0050_AssignOrUnassignRole	Assign or unassign role	
OG_0000_ETO_0060_SaveSecurityModule	Save security module	

Application Execution Operations		
OG_0050_ApplicationExecutionOperations	Application Execution Operations	
OG_0050_ETO_0010_SESServerExecution	SES Server Execution	
OG_0050_ETO_0015_KMExecution	KM Execution	
OG_0050_ETO_0020_SESENGINEERINGStudioExecution	SES ENGINEERING Studio Execution	
OG_0050_ETO_0025_SESRQAQualityStudioExecution	SES RQA - Quality Studio Execution	
OG_0050_ETO_0030_SESTRACEABILITYStudioExecution	SES TRACEABILITY Studio Execution	
OG_0050_ETO_0035_SESVVStudioExecution	SES V&V Studio Execution	

RQA Operations		
OG_0100_RQAOperations	RQA Operations	
OG_0100_ETO_0010_GenerateReport	Generate report	
OG_0100_ETO_0015_AssessQuality	Assess quality	
OG_0100_ETO_0020_AssessQualityScalability	Assess quality with scalability platform	
OG_0100_ETO_0025_AuthorWorkproduct	Author workproduct	
OG_0100_ETO_0030_CreateSnapshot	Create snapshot	
OG_0100_ETO_0035_ShowQualityEvolution	Show quality evolution	
OG_0100_ETO_0040_ManageSuggestionsOfTheActiveUser	Manage suggestions of the active user	
OG_0100_ETO_0045_ManageAggregatedSpecifications	Manage aggregated specifications	
OG_0100_ETO_0050_ManageCorrectnessMetrics	Manage correctness metrics	
OG_0100_ETO_0055_ManageCompletenessMetrics	Manage completeness metrics	
OG_0100_ETO_0060_ManageConsistencyMetrics	Manage consistency metrics	
OG_0100_ETO_0065_ManageAuthoringPatternsGroups	Manage authoring patterns groups	
OG_0100_ETO_0070_ManageProjectSuggestions	Manage project suggestions	
OG_0100_ETO_0075_ManageProjectConfiguration	Manage project configuration	
OG_0100_ETO_0080_ManageCustomCodeReports	Manage custom code reports	
OG_0100_ETO_0085_ManageCustomCodeMetrics	Manage custom code metrics	
OG_0100_ETO_0090_RQABatchCreateCustomReport	RQA Batch - Create custom report	
OG_0100_ETO_0095_RQABatchProjectCredentials	RQA Batch - Manage project credentials	
OG_0100_ETO_0100_ManageModuleConfigurationLoader	Manage module configuration loader	
OG_0100_ETO_0105_ManageMetricsSetBaselines	Manage metrics set baselines	
OG_0100_ETO_0110_ManageDefaultMagnitudes	Manage default magnitudes	
OG_0100_ETO_0115_ManageSpecialSentences	Manage special sentences	
OG_0100_ETO_0120_ManageOntologyNouns	Manage ontology nouns	
OG_0100_ETO_0125_ManageOntologyVerbs	Manage ontology verbs	

OG_0100_ETO_0130_ManageWhitelistManager	Manage whitelist manager
OG_0100_ETO_0135_ManageBlacklistManager	Manage blacklist manager
OG_0100_ETO_0140_RecalculateDictionaries	Recalculate dictionaries
OG_0100_ETO_0145_ManageSpellcheckerSettings	Manage spellchecker settings

Lifecycle Management Operations		
OG_0200_LifeCycleManagementOperations	Lifecycle Management Operations	
OG_0200_ETO_0010_ShowProjectsList	Show projects list	
OG_0200_ETO_0020_OpenProject	Open project	
OG_0200_ETO_0030_ManageProject	Manage project	
OG_0200_ETO_0040_ShowGraphicalInformationInProject	Show graphical information	
OG_0200_ETO_0050_ViewLogInProject	View log	
OG_0200_ETO_0060_ManageConfigurationInProject	Manage configuration	
OG_0200_ETO_0070_ManageVersionInProject	Manage version	
OG_0200_ETO_0080_SaveProject	Save project	
OG_0200_ETO_0100_ManageActivityInProject	Manage activity	
OG_0200_ETO_0110_AssessInProject	AssessQuality	
OG_0200_ETO_0120_ManageProgressAndState	Manage progress and state	
OG_0200_ETO_0130_ManageGantt	Manage gantt	
OG_0200_ETO_0140_UpdateTechnicalManagementInProject	Update technical management	
OG_0200_ETO_0150_ShowTemplatesList	Show templates list	
OG_0200_ETO_0160_OpenTemplate	Open template	
OG_0200_ETO_0170_ManageTemplate	Manage template	
OG_0200_ETO_0180_SaveTemplate	Save template	
OG_0200_ETO_0190_FinishTemplate	Finish template	
OG_0200_ETO_0200_ShowGraphicalInformationInTemplate	Show graphical information	
OG_0200_ETO_0210_ManageVersionInTemplate	Manage version	
OG_0200_ETO_0220_ViewLogInTemplate	View log	
OG_0200_ETO_0240_ManageActivityInTemplate	Manage activity	

Risks & Alerts Operations		
OG_0300_RisksAndAlertsOperations	Risks & Alerts Operations	
OG_0300_ETO_0010_CanAddAlertPackages	Add Alert Packages from SES ENIGINEERING Studio	
OG_0300_ETO_0020_CanEditAlertPackages	Edit Alert Packages from SES ENIGINEERING Studio	
OG_0300_ETO_0030_CanRemoveAlertPackages	Remove Alert Packages from SES ENIGINEERING Studio	
OG_0300_ETO_0040_CanAddAlerts	Add Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0050_CanEditAlerts	Edit Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0060_CanRemoveAlerts	Remove Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0070_CanCheckAlerts	Check Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0060_CanRemoveAlerts	Remove Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0070_CanCheckAlerts	Check Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0050_CanEditAlerts	Edit Alerts from SES ENIGINEERING Studio	
OG_0300_ETO_0060_CanRemoveAlerts	Remove Alerts from SES ENIGINEERING Studio	

V&V Operations		
OG_0400_VVOperations	V&V Operations	
OG_0400_ETO_0010_OpenSystemVerificationTemplates	Open System Verification templates	
OG_0400_ETO_0015_ManageSystemVerificationTemplates	Manage System Verification templates	

OG_0400_ETO_0020_OpenSystemValidationTemplates	Open System Validation templates
OG_0400_ETO_0025_ManageSystemValidationTemplates	Manage System Validation templates
OG_0400_ETO_0030_OpenBlockVerificationTemplates	Open Block Verification templates
OG_0400_ETO_0035_ManageBlockVerificationTemplates	Manage Block Verification templates
OG_0400_ETO_0040_OpenBlockValidationTemplates	Open Block Validation templates
OG_0400_ETO_0045_ManageBlockValidationTemplates	Manage Block Validation templates
OG_0400_ETO_0050_OpenActionVerificationTemplates	Open Verification Action templates
OG_0400_ETO_0055_ManageActionVerificationTemplates	Manage Verification Action templates
OG_0400_ETO_0060_OpenActionValidationTemplates	Open Validation Action templates
OG_0400_ETO_0065_ManageActionValidationTemplates	Manage Validation Action templates
OG_0400_ETO_0070_OpenActionVerification	Open Verification Actions
OG_0400_ETO_0075_ManageActionVerification	Manage Verification Actions
OG_0400_ETO_0080_OpenActionValidation	Open Validation Actions
OG_0400_ETO_0085_ManageActionValidation	Manage Validation Actions
OG_0400_ETO_0090_EvaluateVerificationAccess	Evaluate Verification Access
OG_0400_ETO_0095_EvaluationValidationAccess	Evaluate Validation Access
OG_0400_ETO_0100_ReportDocumentVerificationAccess	Verification Reporting Access
OG_0400_ETO_0115_ReportDocumentValidationAccess	Validation Reporting Access
OG_0400_ETO_0120_ReportMatrixVerificationAccess	Verification RTVM Access
OG_0400_ETO_0125_ReportMatrixValidationAccess	Validation RTVM Access
OG_0400_ETO_0130_FormGenerationVerificationAccess	Verification Form Generation Access
OG_0400_ETO_0135_FormGenerationValidationAccess	Validation Form Generation Access
OG_0400_ETO_0140_FormImportingVerificationAccess	Verification Form Import Access
OG_0400_ETO_0145_FormImportingValidationAccess	Validation Form Import Access

Traceability Management Operations		
OG_0500_TraceabilityManagementOperations	Traceability Management Operations	
OG_0500_ETO_0010_OpenTraceabilityProject	Open traceability project	
OG_0500_ETO_0015_ManageTraceabilityProjects	Manage traceability projects	
OG_0500_ETO_0020_LoadUnloadTraceabilityModule	Load/Unload traceability module	
OG_0500_ETO_0025_OpenTraceabilityModule	Open traceability module	
OG_0500_ETO_0030_ManageTraceabilityModules	Manage traceability modules	
OG_0500_ETO_0035_ShowModuleMapPanel	Show module map panel	
OG_0500_ETO_0040_GenerateReport	Generate Report	
OG_0500_ETO_0045_ManageTraces	Traceability Management Operations	
OG_0500_ETO_0050_ShowTraceDetails	Open traceability project	
OG_0500_ETO_0055_ShowImpactAnalysis	Manage traceability projects	
OG_0500_ETO_0060_ChangeTraceState	Load/Unload traceability module	
OG_0500_ETO_0065_ShowTraceabilityMatrix	Open traceability module	

Content Manager Operations		
OG_0600_ContentManagerOperations	Content Manager Operations	
OG_0600_ETO_0010_ManageViews	Manage views	
OG_0600_ETO_0015_SaveContentManager	Save content manager	
OG_0600_ETO_0020_SaveAsContentManager	Save as content manager	
OG_0600_ETO_0025_ModifyGridVisualization	Modify grid visualization	
OG_0600_ETO_0030_ModifyAttributesValue	Modify attributes value	
OG_0600_ETO_0035_ShowMenuBar	Show menu bar	
OG_0600_ETO_0040_ShowDocumentPane	Show document pane	

OG_0600_ETO_0045_ShowContentPane	Show content pane		
OG_0600_ETO_0050_ManageInteroperability	Manage interoperability		
OG_0600_ETO_0055_ManageRowProperties	Manage row properties		
OG_0600_ETO_0060_ManageColumnsAndAttributes	Manage columns and attributes		

SES ENGINEERING Studio Operations							
OG_0700_EngineeringStudioOperations	SES ENIGINEERING Studio Operations						
OG_0700_ETO_0015_ManageRolesAndUsers	Manage roles and users						
OG_0700_ETO_0020_ManageSecurity	Manage security						
OG_0700_ETO_0025_ManageTraceability	Manage traceability						
OG_0700_ETO_0030_ManageReportTemplate	Manage report template						
OG_0700_ETO_0035_OpenConnection	Open connection						
OG_0700_ETO_0040_ManageConnection	Manage connection						
OG_0700_ETO_0045_ManageModuleConfiguratorLoader	Manage module configurator loader						
OG_0700_ETO_0050_CanAddRequirementEngineering	Add requirement from SES ENIGINEERING Studio						
OG_0700_ETO_0055_CanEditRequirementEngineering	Edit requirement from SES ENIGINEERING Studio						
OG_0700_ETO_0060_CanRemoveRequirementEngineering	Remove requirement from Engineering						
OG_0700_ETO_0061_CanShowModulesConfiguration	Show Modules Configuration						
OG_0700_ETO_0062_CanManageModuleConfiguration	Manage Module Configuration						
OG_0700_ETO_0065_CanManageFormalization	Manage Formalization						
OG_0700_ETO_0067_CanManageRolesInAccessLevel	Manage Roles In Access Level						
OG_0700_ETO_0071_CanManageUseChangeRequest	Manage Use Change Request						
OG_0700_ETO_0072_CanManageRolesInChangeRequest	Manage Roles In Change Request						
OG_0700_ETO_0075_CanManageVisualWorkproductID	Manage Visual Workproduct ID						
OG_0700_ETO_0079_CanManagePendingChangeRequests	Manage Pending Change Requests						
OG_0700_ETO_0080_CanShowChangeRequestsHistory	Show Change Requests History						
OG_0700_ETO_0082_CanManageRequestedChanges	Manage Requested Changes						
OG_0700_ETO_0083_CanManageResolution	Manage Resolution						
OG_0700_ETO_0084_CanManageExclusiveAccessLevel	Manage Exclusive Access Level						
OG_0700_ETO_0085_CanDeleteContentInRepository	Delete content in Repository						

Universal Report System Operations							
OG_0800_UniversalReportSystemOperations	Universal Report System Operations						
OG_0800_ETO_0010_CanAddNewDocumentTemplateOperation	Add new document template						
OG_0800_ETO_0015_CanEditDocumentTemplateOperation	Edit document template						
OG_0800_ETO_0020_CanRemoveDocumentTemplateOperation	Remove document template						
OG_0800_ETO_0025_CanViewTemplateOperation	View template						
OG_0800_ETO_0030_CanExportSelectedTemplatesOperation	Export selected templates						
OG_0800_ETO_0035_CanImportTemplatesOperation	Import templates						
OG_0800_ETO_0040_CanCreateReportFromTemplate	Create report from template						
OG_0800_ETO_0045_CanPersistReportAsME	Persist report as ME						
OG_0800_ETO_0050_CanSaveReportInLocal	Save report in local						

Annex 2: Minimum Security Configuration permissions

The SES Suite provides a series of different capabilities like generation of Roles (Bullet 1 in Figure 55**Error! Reference source not found.**) and Security Management (Bullet 2 in Figure 55).

These capabilities are defined inside SES Server application, managed by any Admin user. Based on this scope, the set of capabilities to analyze are the following:

- Application Execution Operations
 - SES Server Execution
 - o KM Execution
 - o SES ENGINEERING Studio Execution
 - SES RQA Quality Studio Execution
- RQA Operations
 - o Generate report
 - Assess quality
 - Show quality evolution
- Content Manager Operations
 - o Manage views
 - Save content manager
 - Save as content manager
 - Modify grid visualization
 - Modify attributes value
 - o Show menu bar
 - o Show document pane
 - o Show content pane
 - Manage interoperability
 - Manage row properties
 - Manage columns and attributes
 - Engineering Studio Operations
 - Open connection
 - Manage connection
 - Show Modules Configuration
 - o Show Change Requests History

The other sections shall remain unchecked.

	Systems Engineering Suite	Server		
Roles & User Management Ucensing 2 Synchronization 2 Synchronization 2 Synchronization 2 Synchronization	Repositories NLP Configurations Is Databases	Started SES Service		
Security Configuration				Save
Default functionality execution permission: (This option defines the default functionality execution p Not allow	permission in case there is no	security module in the	database)	
Configurations:	Selected Configuration:			
Name Description Type	Security module name		Operation name	Role name
Name Description Type	Application level security module		SES Server Execution	Admin
Application level s Application level s Applicati	Security module description		Operation description	Role description
	Application level security module		Operation to control the exec	Description of the new Role
	Tool operation groups and tool op	erations contained in the secu	rit Roles assigned to the selected to	o Users and active directory rules
(Name	Description	Icon Name escripti	Active Directory Rules
		nt C This group contains the n C This group contains the	Admin Descrip	Users
Allow custom code	▲ Application Execution			
Select the custom code types allowed	KM Execution	Operation to control the		ld Na Type
Custom code type	SES ENGINEERING	G St Operation to control the		A 73 Ad SE S 🔺
🚳 KNOWLEDGE Manager - Reasoning Rule 🛛 🖌	SES RQA - Quality	Stuc Operation to control the		A 74 SES SE S
🗐 RQA - Correctness Custom Code Metric 🛛 🔽	SES TRACEABILIT			
	SES V&V Studio Ex			
Delete all custom codes				· · · · · · · · · · · · · · · · · · ·
Delete all custom codes	RQA Operations Generate report	This group contains the Operation to generate re	-	_



This section provides the description of each feature, including the eventual dependencies between features (if any) and the columns corresponding to the abovementioned roles, indicating whether or not the feature shall be assigned to this role.

2

NOTE: this configuration of permissions is just a suggestion from The REUSE Company; the customer shall decide which is the proper configuration to be assigned.

Main Operation	Sub operation/Feature	Description	Dependencies	Admin	Onto Mngr	Quality Mngr	Project Mngr	Req Author
	SES Server Execution	Allows the execution of SES Server. You must have it, to connect to the different databases in SES Server		x	4	V.		
	KM Execution	Allows the execution of Knowledge Manager. You must have it, to connect to the different databases in KM		x	x	*		
Application Execution Operations	SES ENGINEERING Studio Execution	Allows the execution of SES ENGINEERING Studio. You must have it, to connect to the different databases	None	×		x	x	x
operations	SES RQA – Quality Studio Execution	Allows the execution of RQAStudio.exe as an independent application		x		x	x	x
	SES TARCEABILITY Studio Execution	Allows the execution of TRACEABILITYStudio.exe as an independent application						
	SES V&V Studio Execution	Allows the execution of V&VStudio.exe as an independent application						
RQA Operations	Generate report	Enables Short worksheet Quality Report and Full worksheet Quality Report tabs inside RQA Quality view	SES ENGINEERING Studio Execution			x	x	

56 SES ENGINEERING Studio: Security Management Basics

				Onto Mngr	Mngr	Mngr	Req Author
		Open Connection			SN SN	>	
Assess quality	Enables Assess Quality functionality inside RQA Quality view	SES ENGINEERING Studio Execution		S'	x	x	
		Open Connection					
Show Quality evolution	Enables Evolution Scoreboard option in the Quality Scoreboard Panel	SES ENGINEERING Studio Execution Open Connection	N	1	х	x	
Author workproduct	Operation to author workproduct	SES ENGINEERING Studio Execution	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		x	x	x
Create snapshot	Operation to create snapshot	SES ENGINEERING Studio Execution			x	x	
Show quality evolution	Operation to show quality evolution	SES ENGINEERING Studio Execution Open Connection			x	х	
Manage suggestions of the active user	Operation to manage suggestions of the active user	SES ENGINEERING Studio Execution Open Connection			x	x	
Manage aggregated specifications	Operation to manage aggregated specifications	SES ENGINEERING Studio Execution Open Connection			x	x	
Manage correctness metrics	Operation to manage correctness metrics	SES ENGINEERING Studio Execution			x	x	
	Show Quality evolution Author workproduct Create snapshot Show quality evolution Manage suggestions of the active user Manage aggregated specifications Manage	Assess qualityfunctionality inside RQA Quality viewShow Quality evolutionEnables Evolution Scoreboard option in the Quality Scoreboard PanelAuthor workproductOperation to author workproductCreate snapshotOperation to create snapshotShow quality evolutionOperation to create snapshotShow quality evolutionOperation to show quality evolutionManage suggestions of the active userOperation to manage suggestions of the active userManage aggregated specificationsOperation to manage aggregated specificationsManageOperation to manage aggregated specifications	Assess qualityfunctionality inside RQA Quality viewStudio ExecutionAssess qualityfunctionality inside RQA Quality viewOpen ConnectionShow Quality evolutionEnables Evolution Scoreboard option in the Quality Scoreboard PanelSES ENGINEERING Studio ExecutionAuthor workproductOperation to author workproductSES ENGINEERING Studio ExecutionAuthor workproductOperation to author workproductSES ENGINEERING Studio ExecutionCreate snapshotOperation to create snapshotSES ENGINEERING Studio ExecutionShow quality evolutionOperation to show quality evolutionSES ENGINEERING Studio ExecutionShow quality evolutionOperation to show quality evolutionSES ENGINEERING Studio ExecutionManage aggregated specificationsOperation to manage aggregated specificationsSES ENGINEERING Studio ExecutionManage ManageOperation to manage aggregated specificationsSES ENGINEERING Studio ExecutionManageOperation to manage aggregated specificationsSES ENGINEERING Studio Execution	Assess quality functionality inside RQA Quality Studio Execution Show Quality Enables Evolution Scoreboard option in the Quality SES ENGINEERING Show Quality Enables Evolution Scoreboard option in the Quality Studio Execution Author Operation to author workproduct SES ENGINEERING Author Operation to author workproduct SES ENGINEERING Create snapshot Operation to create snapshot SES ENGINEERING Show quality evolution Operation to show quality Studio Execution Show quality evolution Operation to show quality SES ENGINEERING Show quality evolution Operation to show quality SES ENGINEERING Show quality evolution Operation to show quality SES ENGINEERING Suggestions of the active user Open Connection SES ENGINEERING Manage aggregated specifications Operation to manage aggregated specifications SES ENGINEERING Manage Operation to manage aggregated specifications SES ENGINEERING Manage Operation to manage aggregated specifications SES ENGINEERING Manage Operation to manage aggregated specifications Open Connection Manage Operation	Assess quality functionality inside RQA Quality Studio Execution Show Quality Enables Evolution Scoreboard option in the Quality SES ENGINEERING Show Quality Enables Evolution Scoreboard option in the Quality SES ENGINEERING Author Operation to author workproduct Open Connection Author Operation to author workproduct SES ENGINEERING Create snapshot Operation to create snapshot SES ENGINEERING Show quality evolution Operation to show quality evolution SES ENGINEERING Show quality evolution Operation to show quality evolution SES ENGINEERING Show quality evolution Operation to show quality evolution SES ENGINEERING Show quality evolution Operation to show quality evolution SES ENGINEERING Sudio Execution Open Connection Open Connection Manage aggregated suggestions of the active user aggregated specifications SES ENGINEERING Studio Execution Manage aggregated specifications Operation to manage aggregated specifications SES ENGINEERING Studio Execution Manage correctness metrics Operation to manage correctness metrics SES ENGINEERING Studio Execution Manage correctness metric	Assess quality functionality inside RQA Quality Studio Execution x Show Quality Enables Evolution Scoreboard option in the Quality SES ENGINEERING x Show Quality Enables Evolution Scoreboard Panel SES ENGINEERING x Author Operation to author workproduct Oper Connection x Author Operation to author workproduct SES ENGINEERING x Create snapshot Operation to create snapshot SES ENGINEERING x Show quality evolution Operation to show quality evolution SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINEERING x Manage Operation to manage aggregated specifications SES ENGINE	Assess quality functionality inside RQA Quality Studio Execution x x Open Connection Open Connection x x Show Quality Enables Evolution Scoreboard option in the Quality SES ENGINEERING Studio Execution x x Author workproduct Operation to author workproduct SES ENGINEERING Studio Execution x x Create snapshot Operation to create snapshot SES ENGINEERING Studio Execution x x Show quality evolution Operation to create snapshot SES ENGINEERING Studio Execution x x Create snapshot Operation to show quality evolution SES ENGINEERING Studio Execution x x Show quality evolution Operation to show quality evolution SES ENGINEERING Studio Execution x x Manage suggestions of the active user Operation to manage suggestions of the active user SES ENGINEERING Studio Execution x x Manage aggregated gagregated specifications Operation to manage suggestion to manage aggregated specifications SES ENGINEERING Studio Execution x x Manage aggregated specifications Operation to manage aggregated specifications SES ENGINEERING Studio Execution x

Main Operation	Sub operation/Feature	Description	Dependencies	Admin	Onto Mngr	Quality Mngr	Project Mngr	Req Author
	Manage completeness	Operation to manage	SES ENGINEERING Studio Execution			x	x	
	metrics	completeness metrics	Open Connection					
	Manage consistency metrics	Operation to manage consistency metrics	SES ENGINEERING Studio Execution		5	x	x	
			Open Connection		NV.			
	Manage authoring	Operation to manage authoring	SES ENGINEERING Studio Execution	. /		x	x	
	patterns groups	patterns groups	Open Connection					
	Manage project	Operation to manage project	SES ENGINEERING Studio Execution	N.			x	
	suggestions	suggestions	Open Connection					
	Manage project configuration	Operation to manage project configuration	SES ENGINEERING Studio Execution				x	
			Open Connection					
RQA	Manage custom		SES ENGINEERING Studio Execution					
Operations	code reports		Open Connection					
	Manage custom		SES ENGINEERING Studio Execution					
	code metrics	code metrics	Open Connection					
	RQA Batch - Create	Operation to RQA batch -	SES ENGINEERING Studio Execution				x	
	custom report	create custom report	Open Connection				~	
	RQA Batch - Manage project	Operation to RQA batch -	SES ENGINEERING Studio Execution				x	
RQA	credentials	manage project credentials	Open Connection				~	
Operations		Operation to manage module configuration loader	SES ENGINEERING Studio Execution				х	

58 SES ENGINEERING Studio: Security Management Basics

Main Operation	Sub operation/Feature	Description	Dependencies	Admin	Onto Mngr	Quality Mngr	Project Mngr	Req Author
	Manage module configuration loader		Open Connection		4	3	>	
	Manage metrics set baselines	Operation to manage metrics set baselines	SES ENGINEERING Studio Execution			x	x	
	Manage default magnitudes	Operation to manage default magnitudes	Open Connection SES ENGINEERING Studio Execution			x	x	
	Manage special sentences	Operation to manage special sentences	Open Connection SES ENGINEERING Studio Execution Open Connection	OX	<u>¢</u>	x	x	
	Manage ontology nouns	Operation to manage ontology nouns	SES ENGINEERING Studio Execution Open Connection		x			
	Manage ontology verbs	Operation to manage ontology verbs	SES ENGINEERING Studio Execution Open Connection		x			
RQA Operations	Manage whitelist manager	Operation to manage whitelist manager	SES ENGINEERING Studio Execution Open Connection		x			
	Manage blacklist manager	Operation to manage blacklist manager	SES ENGINEERING Studio Execution Open Connection		x			
	Recalculate dictionaries	Operation to recalculate dictionaries	SES ENGINEERING Studio Execution Open Connection		х			
RQA Operations	Manage spellchecker settings	Operation to manage spellchecker settings	SES ENGINEERING Studio Execution Open Connection		x			

Main Operation	Sub operation/Feature	Description	Dependencies	Admin	Onto Mngr	Quality Mngr	Project Mngr	Req Author
	Manage views	Enables Manage views functionality inside a connection.	SES ENGINEERING Studio Execution	x	K	×	x	x
Content		Right click -> views -> Manage views	Open Connection		01			
Manager Operations	Save content	Enables Save views functionality inside a connection.	SES ENGINEERING Studio Execution	x		x	x	x
		Right click -> Save views	Open Connection					
	Save as content	Enables Save current view as new inside a connection.	SES ENGINEERING Studio Execution			x	x	x
	manager	Right click -> Save current view as new	Open Connection	X		~	^	~
	Modify grid visualization	Enables all Functionalities from Visualization Model folder inside a connection.	SES ENGINEERING Studio Execution	x		x	x	x
		Right click -> Visualization Model	Open Connection					
		Allows to modify attribute /	SES ENGINEERING Studio Execution					
Content		value property values inside a Open Connection	Open Connection	х		х	х	х
Manager Operations			Manage columns and attributes					
·	Show document	Enables panes functionality that Shows the documentary area inside a connection.	SES ENGINEERING Studio Execution	x		x	x	x
	pane	Right click -> panes-> Document pane	Open Connection					
	Show content pane	Enables panes functionality that displays the content zone inside a connection.	SES ENGINEERING Studio Execution	x		x	x	x
		Right click -> panes-> Content pane	Open Connection					

50 SES ENGINEERING Studio: Security Management Basics

Main Operation	Sub operation/Feature	Description	Dependencies	Admin	Onto Mngr	Quality Mngr	Project Mngr	Req Author
	Manage interoperability ¹	Enables start binding functionality to manage interoperability CRUD.	SES ENGINEERING Studio Execution	x	N	\mathcal{N}	x	
	Manage row	Right click -> Start Binding	Open Connection		01			
		Enables the functionality to manage the rows properties.	SES ENGINEERING Studio Execution	x		x	x	x
	properties	Right click -> Rows	Open Connection					
	Manage columns and attributes	Enables the functionality to manage CRUD functions on columns and on attributes / properties.	SES ENGINEERING Studio Execution	x		x	x	x
		Right click -> columns -> manage columns	Open Connection					
	Open connection	Allows to open a connection in SES ENGINEERING Studio	SES ENGINEERING Studio Execution	x	x	x	x	x
ENGINEERING Studio	Manage connection	Allows to manage a connection in SES ENGINEERING Studio (Add, Edit or Delete a connection)	SES ENGINEERING Studio Execution	x		x	x	
Operations	Show Modules Configuration	Enables Modules Settings option in the Connections tab	SES ENGINEERING Studio Execution	x	x	x	x	x
	Show Change Requests History	Allows view history window in the Change Management tab	SES ENGINEERING Studio Execution	x			x	
		Cense						

¹ This process requires an additional license for interoperability.

The REUSE Company

The REUSE Company is an organization specialized in the application of Semantic Representation and Analysis Technologies to a wide range of industries (Aerospace, Defense, Automotive, Naval, Health, ...). Our customers are usually (but not limited to) safety-oriented organizations.

Our focus is on System/Software Reuse, Traceability and Quality applied to all types of work-products throughout the whole SE lifecycle (requirements, SysML Models, physical models, tests cases, data results, manuals, natural language descriptions, fault trees, etc.). The integration of tools and technology from The REUSE Company facilitates the representation, analysis and exploitation of knowledge allowing for a knowledge-centric system engineering approach.

Our mission is to promote system/software and knowledge reuse within any organization, by offering processes, methods, tools and services that make it possible. We offer technology that is fully integrated within the organization's production chain.



