RUNA WFE. Administrator's Guide Version 2.1

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RUNA WFE is an open source end-user oriented system for enterprise business process management, fully implemented in Java. Designed for large and middle-size enterprises.

Security System

The security system consists of subjects, objects and permissions to perform actions. Subjects are granted permissions to perform actions with certain objects.

The types of subjects in the security system are as follows.

- Executors
 - Actors
 - Groups of actors

The types of objects in the security system are as follows:

- System
- Executors
 - \circ Actors

- Groups of actors
- Business process definitions
- Business process instances

Note. There is only one object of the "System" type in the security system. The number of objects of other types is not limited.

Note. Permissions to perform actions are added up for each subject. If an executor is a member of a group of actors, the permissions explicitly granted to this subject (its "own permissions") are added to the permissions granted to the group. The latter are called "inherited permissions". **Types of Permissions**

There are two types of permissions can be granted on any object:

- Read
- Update Permission

Permission on Objects by Object Type

"System" object:

- Login
- Create Executor
- Deploy Definition

"Process Definition" object

- Start Process
- Undeploy Definition
- Redeploy Definition

"Process Instance" object

Stop Process

"Executor" object:

- Update Executor
- If the executor is a group of actors, the following permissions can be granted:
- List Group
- Add to Group
- Remove from Group

Permission Type Descriptions and Default Values

The Administrators group is always present in the system. It cannot be deleted from the system, If the subject is Administrators group, its "own" permissions on the "Administrators Group" object cannot be changed. The Administrators group is always granted all possible permissions on every newly created Executor. This group also has all possible permissions on the "System" object.

An Administrator actor is a member of the Administrators group by default. An Administrator can be removed, but the system cannot operate normally with all its administrators deleted.

Only executors with the "Create Executor" on the "System" object can create new actors and groups of actors. A newly created Executor has a "Read" permission on itself, and if the executor is a group, it also has a "List Group" permission. The creator of an Executor and the Administrators are granted all possible permissions on the newly created Executor.

By default, a newly created Executor has no "Login" permission on the "System" object, which means that a newly created Executor cannot enter the system. For a newly created Executor to enter the system, it is necessary to grant the "Login" permission to this Executor and to set a password (or passwords for all members of the group).

Only an Executor with a "Read" permission on an object can read this object. Only an Executor with an "Update Permission" on an object can change permissions on this object. An actor with an "Update Executor" permission on an Executor can change the properties of this Executor or remove it altogether.

Note. To update an Executor, it is also necessary to have a "Read" permission on this Executor.

Only an actor with a "List Group" permission on a group can view the members of this group. Only an actor with a "Add to Group" permission on a group can add new members to this group. To remove an Executor from a group, a "Remove from Group" permission is required.

By default, a Process Definition Administrators group is present in the system. This group has privileges on business process definitions and instances. It cannot be removed, The members of the Process Definition Administrators are granted all possible permissions on newly created business process definitions and samples. By default the Administrators group is a member of the Process Definition Administrators group.

A business process definition can only be loaded into the system by an actor with a "Deploy definition" permission on the "System" object. The actor who loads a business process and the Process Definition Administrators group are granted all possible permissions on the business process loaded.

Working with Actors and Groups of Actors

How to Create a New Actor

In the Executors menu choose "Create Actor", and the Create Actor page will appear.

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Executors	Description							
System	Code							
	Apply							
Done								

On this page, fill in the fields and press "Apply". The "Name" field corresponds to the actor's login and is mandatory. The rest of the fields are optional. The "Code" field corresponds to the employee number.

Each newly created actor requires a password (see "How to Change the Parameters of an Actor") and permissions to enter the system (see "How to Grant Permissions on a System Object to an Executor").

How to Change the Parameters of an Actor

In the "Executors" menu, click the Actor whose parameters need to be changed. A page will appear, where with appropriate permissions you can change the actor's parameters and password.

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	Ok			

How to Create a New Group of Actors

In the Executors menu, choose "Create Group", and the Create Group page will appear.

On this page, fill in the fields and press "Apply".

How to Change the Parameters of a Group of Actors

In the "Executors" menu, click the Group of Actors whose parameters need to be changed. A page will appear, where with appropriate permissions you can change the parameters of the

Group of Actors.

How to Add an Actor to a Group of Actors

In the "Executors" menu click the Group of Actors to which you want to add a new Executor. In the Group Members table, choose "Add". In the form that appears, check the Executors to be added to the group and choose "Add" (in the lower part of the page).

How to Grant Permissions on a System Object to an Executor

Open the "Add" menu. If the Executor is not in the table add it using the "Add" command in the upper part of the table. In the Executor line check the necessary positions and press "Add". **How to Grant Permissions on an Executor to another Executor**

Open the "Executors" menu and click the Executor on whom you want to give permissions. If the Executor to whom permissions need to be given is not in the "Permission Owners" table on the page that appears, it is necessary to add this Executor using the "Add" command. Then in the Executor line check the necessary positions and press "Apply".

Working with Business Process Definitions

Yow to Deploy a New Business Process

Open the "Process Definitions" menu and choose "Deploy Definition". On the page that appears, select the process type from a list of existing types (or enter a new one), enter the path to the process definition file and click "Execute". If the process definition contains no errors, it will be loaded into the system.

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Task List Process Definitions Process Instances Executors System	Process type: Script or create new process su	ubtype:						
Done								

How to Undeploy a Business Process

In the "Process Definitions" menu check the processes to be undeployed and click "Undeploy". The marked processes will be removed from the system together with their instances.

How to Grant Permissions on a Process Definition to an Executor

In the "Process Definitions" menu select the line with the required business process and execute the "Properties command" there. On the page that appears click "Permission Owners". A page will appear with a table of permissions on the process definition.

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	Apply								
Done									

If the Executor to whom permissions need to be given is not in the table, add this Executor using the "Add" command. Then in the Executor line check the necessary positions and press "Add".

Note. The table of Executor permissions on the process definition has two fields that are not in the list of permissions on the "Process Definition" object (see "Security System"):

- Read Instance
- Cancel Instance

A checked box in this field means that by default this actor will be granted permissions on any newly created instance of this business process (Read Instance or Cancel Instance, as the case may be).

How to Redeploy a Business Process Definition

In the "Process Definitions" menu find the line with the appropriate business process definition and click "Properties" there. On the page that appears in the Redeploy Definition section, enter the path to the process definition file and click "Execute". If the process definition contains no errors it will be loaded into the system.



Note. All the existing instances of the business process will continue to run according to the old definition, but newly created instances will correspond to the new one.

Note. Permissions for the new process definition will be the same as for the old one.

Working with Business Process Instances

Viewing the State and Values of Business Process Variables

In the "Process Instances" menu find the line with the appropriate business process instance and click on this line.

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Menu	Process Instances								
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Process Definitions	1	_							
Process Instances					Total:6				
Executors	ld	Name	Started	Ended	Version				
System	32768044	Hello World	19.06.2008 21:30	19.06.2008 21:30	1				
	32768047	TimerDemo	19.06.2008 21:30	19.06.2008 21:31	1				
	32768052	Report	19.06.2008 21:30	19.06.2008 21:33	1				
	32768057	Overtime Work	19.06.2008 21:30	19.06.2008 21:33	1				
	32768065	Vacation	19.06.2008 21:31	19.06.2008 21:34	1				
	32768073	Businesstrip	19.06.2008 21:31		1				
					Total:6				
Dest									
Done									

A page will appear with the name of the Action being executed by the process, the values of all process variables, the swimlane table and a link to the table of permissions on the process instance ("Permission Owners").

How to Cancel a Business Process

In the "Process Instances" menu, find the line with the appropriate business process instance and click on this line. On the page that appears click "Stop".

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Process Instances Id		32768073				
Executors Version		1				
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haakkaapar		yaiua	ExecutorPul	ter Dublema Francisco (ha alle annon)		
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An example of System Setup

The same setup is used in the demo configuration.

Enter the system as Administrator. (By default the password at initial install is "wf".)

On the page corresponding to the "Executors" menu item create the following groups:

- manager
- human resource
- bookkeeper
- staff
- all

Create the following actors:

- julius
- nero
- cleopatra
- octavia

- tiberius
- marcus
- gaiua
- attila
- caligula

Set passwords for all demo logins – 123 $\,$

The final configuration should look as follows.

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Process Definitions (Creat	e Actor Create Group		
Executors				Total:17
System		Name	Full Name	Description
	Г	Administrator		Default System Administrator
	Г	Administrators		Default Group For System Administrators
		Process Definition Administrators		Executors that have all rights on all process definition
	Г	manag er		group for managers
	Г	human resource		group for human resource department
	Г	bookkeeper		group for bookkeepers
	Г	staff		group for main work personal
	Г	all		group for all employees
	Г	julius	Gaius Julius Caesar	
	Г	nero	Nero Claudius Caesar	
	Г	cleopatra	Cleopatra VII The Daughter of the Pharaoh	
	Г	octavia	Octavia Minor	
	Г	tiberius	Tiberius Claudius Drusus	
	Г	marcus	Marcus Aurelius Antoninus	
	Г	gaiua	Gaiua Flavius Valerius Constantinus	
	Г	attila	Attila the King of Huns	
	Г	caligula	Gaius Iulius Germanicus	
				Total:17
				Remove
-				
Done				

Group	Group Members
manager	 julius
	■ nero
human resource	 cleopatra
	 octavia
bookkeeper	 tiberius
	 caligula
staff	 marcus
	 gaiua
	 attila
all	 julius
	 nero
	 cleopatra
	 octavia
	 tiberius
	 caligula
	 marcus
	 gaiua
	 attila

Enter actors into the following groups:

For the group "all" you should get the following:

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On the page of the "System" menu item give the login permission to the group "all".

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Give the members of the "all" group a "Read" permission and a "List Group" permission on the "staff", "manager", "human resource" and "bookkeeper" groups.

Give the members of the "all" group a "Read" permission on every actor.

An example for actor "julius":

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Menu	Executor Details					
Task List Process Definitions					Permission Owners	
Process Instances	Name	julius				
Executors	Full Name	Gaius Juli	us Caesar			
System	Description					
	Code	-11				
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On the page of the "Process Definitions" menu item load test business processes on the system engine. Files:

- Hello World.par
- TimerDemo.par
- Report.par
- Overtime Work.par
- Vacation.par
- Businesstrip.par

Open the properties of "Hello World", "TimerDemo", "Vacation" processes and give the members of the "all" group the following permissions on these processes: "Read", "Read Instance" and "Start Process". For the "Report", "Overtime Work", "Businesstrip" processes, give the "Read" and "Read Instance" permissions to the group "all" and the "Start Process" permission to "manager".

Example: Permissions on the "TimerDemo" process:



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The configuration is ready for work.