

# ]HackingTeam[

## RCS 9

*The hacking suite for governmental interception*

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### Administrator's Guide



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# Glossary

The terms and their definitions used in this manual are provided below.

## A

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### **Accounting**

Console section that manages RCS access.

### **acquisition sequence**

Group of complex events, actions and acquisition modules that make up the advanced agent configuration.

### **Administrator**

The person who enables user access to the system, creates work groups and defines operations, targets and the type of data to be collected.

### **Agent**

Software probes installed on devices to monitor. They are designed to collect evidence and communicate it to the Collector.

### **alert rules**

Rules that create alerts when new evidence is stored or agents communicate back for the first time.

### **Alerting**

Console section that manages new evidence alerts.

### **alerting group**

Group of users who receive notifications via mail whenever a system alarm is triggered (for example, when the database exceeds available free space limits). Normally this group is not linked to an operation.

### **Analyst**

Person in charge of analyzing the data collected during operations.

### **Anonymizer**

(optional) Protects the server against external attacks and permits anonymity during investigations. Transfers agent data to Collectors.

**Audit**

Console section that reports all users' and system actions. Used to monitor abuse of RCS.

**B**

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**back end**

Environment designed to decrypt and save collected information. In distributed architecture, it includes Master Node and Shard databases.

**BRAS**

(Broadband Remote Access Server) routes traffic to/from DSLAM to the ISP network and provides authentication to the ISP subscribers.

**BSSID**

(Basic Service Set Identifier) Access Point and its client identifier.

**C**

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**Carrier**

Collector Service: sends data received from Anonymizers to shards or the Master Node.

**Collector**

Collector Service: receives data sent by agents, via the Anonymizer chain.

**console**

Computer on which the RCS Console is installed. It directly accesses the RCS Server or Master Node.

**D**

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**Dashboard**

Console section used by the Analyst. Used to have a quick overview of the status of the most important operations, targets and agents.

**DSLAM**

(Digital Subscriber Line Access Multiplexer) network device, often located in the telephone exchanges of the telecommunications operators. It connects multiple cus-

tomter digital subscriber line (DSL) interfaces to a high-speed digital communications channel using multiplexing techniques.

## **E**

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### **Elite agent**

Agent installed on secure devices. Lets you collect all types of available evidence.

### **entity**

Group of intelligence information linked to the target and people and places involved in the investigation.

### **ESSID**

(Extended Service Set Identifier) Known as SSID, identifies the WiFi network.

### **evidence**

Collected data evidence. The format depends on the type of evidence (i.e.: image).

### **evidence alerts**

Alerts, usually in the form of emails, sent to analysts when new evidence matches the set rule.

### **Exploit**

Code which, exploiting a bug or vulnerability, runs an unforeseen code. Used to infect target devices.

## **F**

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### **factory**

A template for agent configuration and compiling.

### **front end**

Environment designed to communicate with agents to collect information and set their configurations. In distributed architecture, it includes the Collector and Network Controller.

## **G**

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### **Group**

Intelligence entity that groups several entities.



## I

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### **injection rules**

Settings that define how to identify HTTP traffic, what resource should be injected and what method is to be used for the injection.

## M

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### **Monitor**

Console section that monitors components and license status.

## N

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### **Network Controller**

Collector Service: checks Network Injector and Anonymizer status and sends them new configurations and software updates.

### **Network Injector**

Hardware component that monitors the target's network traffic and injects an agent into selected Web resources. It comes in two versions, Appliance or Tactical: the former is for deployment at the ISP, the latter for use on the field.

### **Network Injector Appliance**

Rackable version of the Network Injector, for installation at ISP. See: Tactical Network Injector.

## O

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### **operation**

Investigation aimed at one or more targets, whose devices will be recipients for agents.

## P

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### **Person**

Intelligence entity that represents a person involved in the investigation.

### **Position**

Intelligence entity that represents a place involved in the investigation.

## R

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### **RCS**

(Remote Control System) the product documented hereto.

### **RCS Console**

Software designed to interact with the RCS Server.

### **RCS Server**

One or more computers, based on the installation architecture, where essential RCS components are installed: Shard databases, Network Controllers and Collector.

## S

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### **Scout agent**

Replaces the agent sent to the device to check the security level before installing actual agents (elite or soldier).

### **Soldier agent**

Agent installed on not fully secure devices. Only lets you collect some types of evidence.

### **SSH**

(Secure SHell) a network protocol for secure data communication, remote shell services or command execution.

### **System**

Console section that manages the system.

### **System administrator**

The person who installs the servers and consoles, updates software and restores data in case of faults.

## T

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### **Tactical Network Injector**

The portable version of Network Injector, for tactical use. See: Network Injector Appliance.

**TAP**

(Test Access Port) a hardware device installed in a network that passively monitors the transmitted data flow.

**target**

The physical person under investigation. It is represented by the Target entity in the intelligence section.

**Technician**

The person assigned by the Administrator to create and manage agents.

**V**

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**Virtual**

Intelligence entity that represents a virtual location (i.e.: website) involved in the investigation.

**VPS**

(Virtual Private Server) a remote server where the Anonymizer is installed. Commonly available for rent.

**W**

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**WPA**

(WiFi Protected Access) WiFi network protection.

**WPA 2**

(WiFi Protected Access) WiFi network protection.

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# Guide introduction

## Presentation

### Manual goals

This manual is a guide for the *Administrator* on how to use the RCS Console to:

- create users and workgroups
- open and close investigations
- monitor RCS users
- monitor the system

Information on how to consult the manual is provided below.

### Content

This section includes the following topics:

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<b>New guide features</b> .....	<b>2</b>
<b>Supplied documentation</b> .....	<b>2</b>
<b>Print concepts for notes</b> .....	<b>3</b>
<b>Print concepts for format</b> .....	<b>3</b>
<b>Product and guide addressees</b> .....	<b>4</b>
<b>Software author identification data</b> .....	<b>4</b>

## New guide features

List of release notes and updates to this online help.

<b>Release date</b>	<b>Code</b>	<b>Software version.</b>	<b>Description</b>
19 February 2014	Administrator's Guide -	9.2	No documentation update.
30 September 2013	Administrator's Guide 1.4 SEP - 2013	9	Updated documentation due to improvements to the user interface. Improved the contents.
8 July 2013	Administrator's Guide -	8.4	No documentation update.
15 March 2013	Administrator's Guide 1.3 MAR-2013	8.3	Added user authorization management. See " <a href="#">Privilege data</a> " on page 25 .
15 October 2012	Administrator's Guide 1.2 OCT-2012	8.2	Added description of wizards in the homepage. See " <a href="#">Wizards in the homepage</a> " on page 11
30 June 2012	Administrator's Guide 1.1 JUN 2012	8.1	Close operation and target button. See " <a href="#">Operation management</a> " on page 32 . Load license button. See " <a href="#">System monitoring (Monitor)</a> " on page 47 .
16 April 2012	Administrator's Guide 1.0 APR-2012	8.0	First publication

## Supplied documentation

The following manuals are supplied with RCS software:

<b>Manual</b>	<b>Addressees</b>	<b>Code</b>	<b>Distribution format</b>
<b>System Administrator's Guide</b>	System administrator	<i>System Administrator's Guide</i> 1.5 FEB-2014	PDF

<i>Manual</i>	<i>Addressees</i>	<i>Code</i>	<i>Distribution format</i>
<b>Administrator's Guide (this manual)</b>	Administrators	<i>Administrator's Guide 1.5 FEB-2014</i>	PDF
<b>Technician's Guide</b>	Technicians	<i>Technician's Guide 1.6 FEB-2014</i>	PDF
<b>Analyst's Guide</b>	Analysts	<i>Analyst's Guide 1.5 FEB-2014</i>	PDF

## Print concepts for notes

Notes foreseen in this document are listed below (Microsoft Manual of Style):



**WARNING:** indicates a risky situation which, if not avoided, could cause user injury or equipment damages.



**CAUTION:** indicates a risky situation which, if not avoided, can cause data to be lost.



**IMPORTANT:** offers the indications required to complete the task. While notes can be neglected and do not influence task completion, important indications should not be neglected.



**NOTE:** neutral and positive information that emphasize or add information to the main text. They provide information that can only be applied in special cases.



**Tip:** suggestion for the application of techniques and procedures described in the text according to special needs. It may suggest an alternative method and is not essential to text comprehension.



**Service call:** the operation may only be completed with the help of technical service.

## Print concepts for format


A key to print concepts is provided below:

<i>Example</i>	<i>Style</i>	<i>Description</i>
See " <i>User data</i> "	<i>italic</i>	this indicates a chapter, section, sub-section, paragraph, table or illustration heading in this manual or other publication of reference.

<i>Example</i>	<i>Style</i>	<i>Description</i>
<ddmmyyy>	<aaa>	indicates text that must be specified by the user according to a certain syntax. In the example <ddmmyyy> is a date and could be "14072011".
Select one of the listed servers <b>[2]</b> .	<b>[x]</b>	indicates the object specified in the text that appears in the adjacent image.
Click <b>Add</b> . Select the <b>File menu, Save data</b> .	<b>bold</b>	indicates text on the operator interface, a graphic element (i.e.: table, tab) or screen button (i.e.: display).
Press ENTER	UPPER CASE	indicates the name of keyboard keys.
See: Network Injector Appliance.	-	suggests you compare the definition of a word in the glossary or content with another word or content.

## Product and guide addressees

Following is the list of professionals that interact with RCS.

<i>Addressee</i>	<i>Activity</i>	<i>Skills</i>
<b>System administrator</b>	Follows the HackingTeam's instructions provided during the contract phase. Installs and updates RCS servers, Network Injectors and RCS Consoles. Schedules and manages backups. Restores backups if servers are replaced.   <b>WARNING:</b> the system administrator must have the required necessary skills. The HackingTeam is not liable for equipment malfunctions or damages due to unprofessional installation.	<i>Expert network technician</i>
<b>Administrator</b>	Creates authorized accounts and groups. Creates operations and target. Monitors system and license status.	<i>Investigation manager</i>
<b>Technician</b>	Creates and sets up agents. Sets Network Injector rules	<i>Tapping specialist technician</i>
<b>Analyst</b>	Analyzes and exports evidence.	<i>Operative</i>

## Software author identification data

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# RCS (Remote Control System)

## Presentation

### Introduction

RCS (Remote Control System) is a solution that supports investigations by actively and passively tapping data and information from the devices targeted by the investigations. In fact, RCS anonymously creates, sets and installs software agents that collect data and information, sending the results to the central database to be decrypted and saved.

### Content

This section includes the following topics:

---

<b>Differences between RCS 8.0 and RCS 7.6 versions .....</b>	<b>7</b>
---	----------

## Differences between RCS 8.0 and RCS 7.6 versions

Differences with the RCS 7.6 version are described below

### Glossary

<i>RCS v. 7.6</i>	<i>RCS 8.0 and higher</i>
Activity	Operation
Agent	Module
Anonymizer chain	Anonymizing chain
Backdoor	Agent
Backdoor Class	Factory
Collection Node (ASP)	Collector
Injection Proxy Appliance (IPA)	Network Injector Appliance
Log Repository (RCSDB)	Master Node and additional Shard
Mobile Collection Node (RSSM)	Collector
RCSAnon	Anonymizer

---

# RCS Console for the Administrator

## Presentation

### The Administrator's role

The *Administrator's* role is:

- to manage system access by assigning users the various roles foreseen by the application
- to create and close investigations
- to define the involved targets
- to inform the *Technician* user of the types of evidence to be tapped
- to monitor actions run by users
- to monitor licenses available for RCS components

### Functions enabled for the Administrator

To complete his/her activities, the Administrator has access to the following functions:

- **Accounting**
- **Operation**
- **Audit**
- **Monitor**

## Content

This section includes the following topics:

---

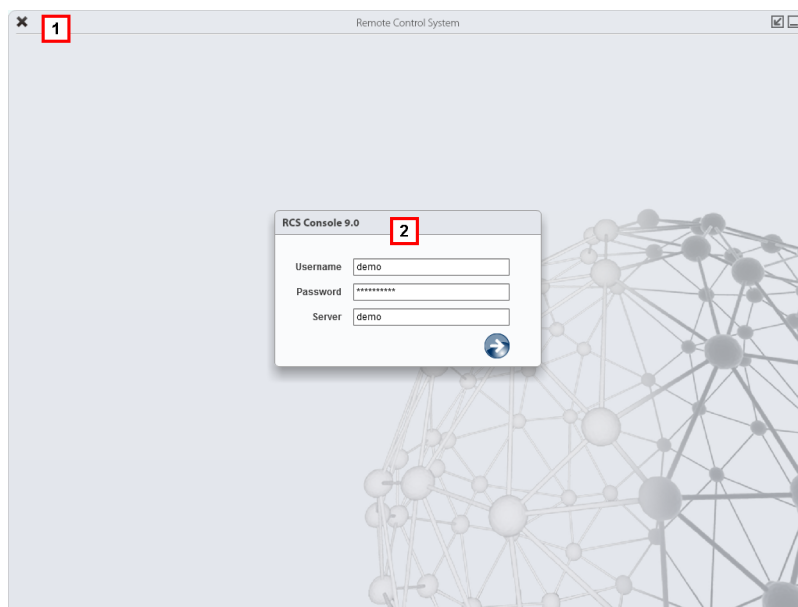
<b>Starting the RCS Console</b> .....	<b>9</b>
<b>Homepage description</b> .....	<b>10</b>
<b>Wizards in the homepage</b> .....	<b>11</b>
<b>Shared interface elements and actions</b> .....	<b>12</b>
<b>Administrator's procedures</b> .....	<b>16</b>

## Starting the RCS Console

When started, RCS Console asks you to enter your credentials previously set by the Administrator.

### What the login page looks like

This is what the login page looks like:



#### **Area** Description

---

- 1 Title bar with command buttons:
  - ✕ Close RCS Console.
  - 🔍 Expand window button.
  - 📏 Shrink window button.
- 2 Login dialog window.

### Open RCS Console


To open RCS Console functions:

#### **Step** Action

---

- 1 In **Username** and **Password**, enter the credentials as assigned by the Administrator.
- 2 In **Server**, enter the name of the machine or server address to connect to.

## Step Action

- 3 Click  : the homepage appears with the menus enabled according to your account privileges. See "[Homepage description](#)" below .

## Homepage description

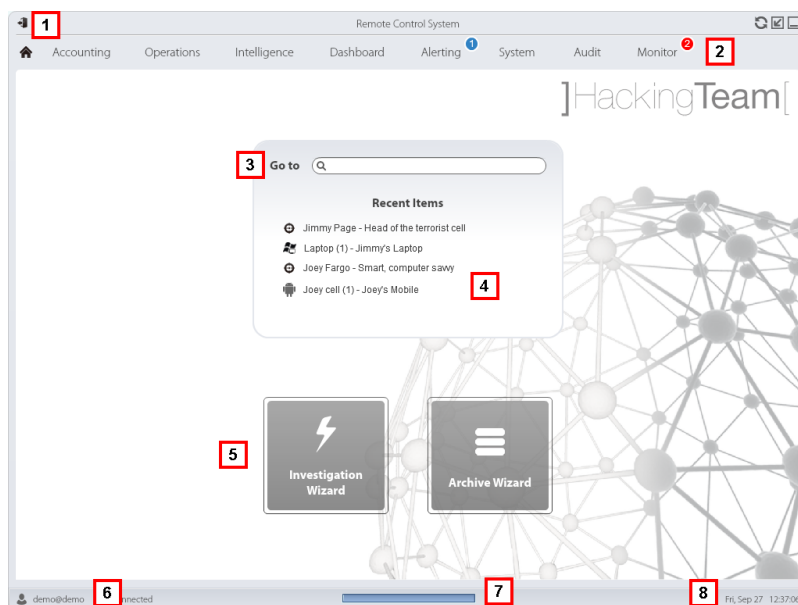
To view the homepage:  click 

### Introduction

The homepage is displayed when the RCS Console is started, and is the same for all users. Enabled menus depend on the privileges assigned to the account.

### What it looks like

This is what the homepage looks like, with recently opened items saved. For details on shared elements and actions:



### Area Description

- 1 Title bar with command buttons.
- 2 RCS menu with functions enabled for the user.
- 3 Search box to search operations, targets, agents and entities, by name or description.

### **Area Description**

---

- 4 Links to the last five elements opened (operation in the Operations section, operation in the Intelligence section, target, agent and entity).
- 5 Wizard buttons.
- 6 Logged in user with possibility of changing the language and password.
- 7 Download area with ability to view progress during export or compiling.
- 8 Current date and time with possibility of changing the time zone.

## **Wizards in the homepage**

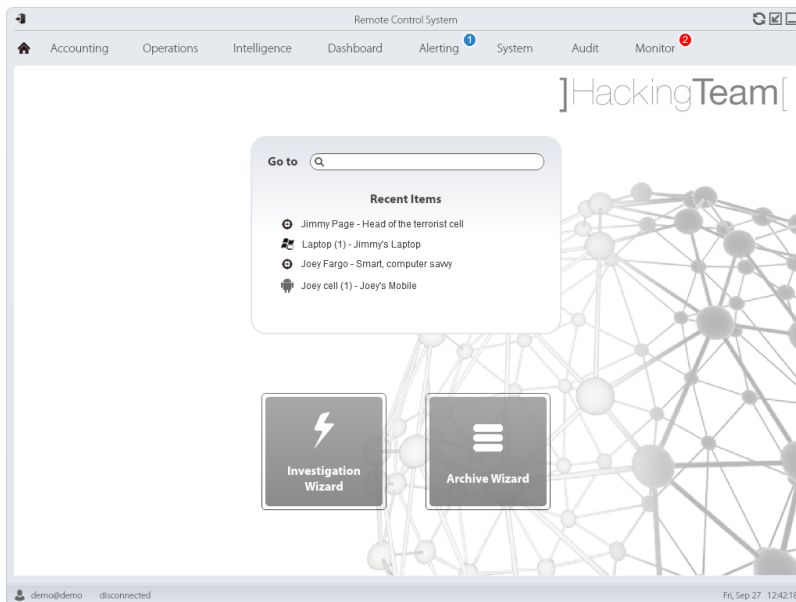
To view the homepage: | • click 

### **Introduction**

For users with certain privileges, RCS Console displays buttons that run wizards.

### **What it looks like**

This is how the homepage is displayed with enabled wizards:



Button	Function
--------	----------



Open the wizard to quickly create an agent.



NOTE: the button is only enabled for users with Administrator and Technician privileges.



Open the wizard to quickly save operation and target data.



NOTE: the button is only enabled for users with Administrator and System Administrator privileges.

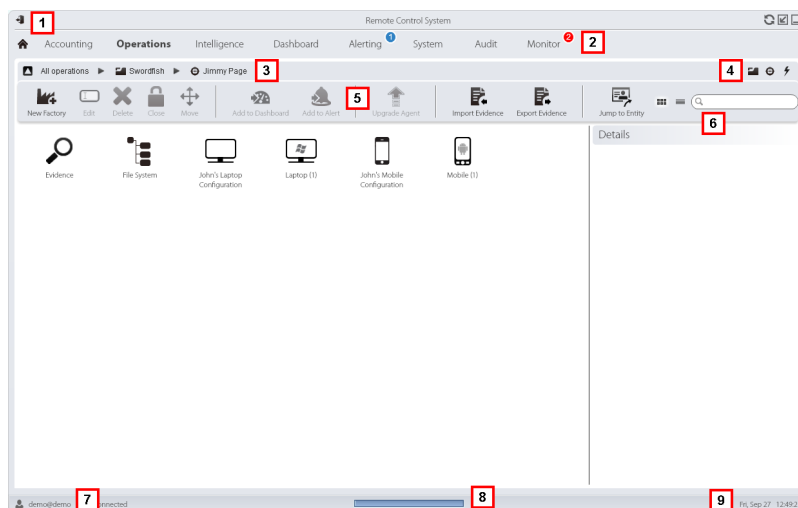
## Shared interface elements and actions

Each program page uses shared elements and allows similar actions to be run.

For easier manual comprehension, elements and actions shared by some functions are described in this chapter.

### What the RCS Console looks like






This is what a typical RCS Console page looks like. A target page is displayed in this example:



---

**Area Description**









---

- 1 Title bar with command buttons:
  -  Logout from RCS.
  -  Page refresh button.
  -  Expand window button.
  -  Shrink window button.
- 2
  -  Return to homepage button
  - RCS menu with functions enabled for the user.
- 3 Operation scroll bar. Descriptions are provided below:

---

**Icon Description**






---

-  Back to higher level.
  -  Show the operation page (Operations section).
  -  Show the target page.
  -  Show the factory page.
  -  Show the agent page.
  -  Show the operation page (Intelligence section).
  -  Show the entity page.
- 4 Buttons to display all elements regardless of their group membership. Descriptions are provided below:

---




**Icon Description**


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-  Show all operations.
  -  Show all targets.
  -  Show all agents.
  -  Show all entities.
- 5 Window toolbar.



**Area Description****6** Search buttons and box:

<i>Object</i>	<i>Description</i>
	Search box. Enter part of the name to display a list of elements that contain the entered letters.
	Display elements in a table.
	Display elements as icons.

**7** Logged in user with possibility of changing the language and password.**8** Download area with ability to view progress during export or compiling. Files are downloaded to the desktop in RCS Download folder.

- top bar: percent generation on server
- bottom bar: percent download from server to RCS Console.

**9** Current date and time with possibility of changing the time zone.**Actions always available on the interface****Change interface language or password**

To change the interface language or password:

**Step Action**

- 1** Click **[7]** to display a dialog window with the user's data.
- 2** Change the language or password and click **Save** to confirm and exit.

**Converting the RCS Console date-time to the actual time zone**

To convert all dates-times to the actual time zone:

**Step Action**

- 1** Click **[9]** to display a dialog window with the current date-time:
  - UTC time:** Greenwich mean time (GMT)
  - Local Time:** date-time where the RCS server is installed
  - Console time:** date-time of the console used and which can be converted.
- 2** Change the time zone and click **Save** to confirm and exit: all displayed dates-times are converted as requested.

## Table actions

The RCS Console displays various data in tables. Tables let you:

- sort data by column in increasing/decreasing order
- filter data by column

<i>Action</i>	<i>Description</i>
<b>Sort by column</b>	Click on the column heading to sort that column in increasing or decreasing order.

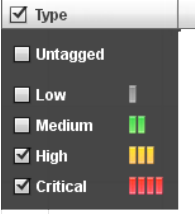
Event	Path
SYNC	Swordfish
INSTANCE	Swordfish > J
EVIDENCE	*

**Filter a text** Enter part of the text you are searching for: only elements that contain the entered text appear.

The example shows elements with descriptions like:

- "my**boss**"
- "**boss**anova"

**Filter based on an option** Select an option: the elements that match the selected option appear.

<i>Action</i>	<i>Description</i>
<b>Filter based on several options</b>	Select one or more options: the elements that match all selected options appear. 
<b>Change the column size</b>	Select the edge of the column and drag it.

## Administrator's procedures

### Introduction

Procedures typically performed by the Administrator are indicated below with references to their pertinent chapters.

### Procedures

#### Preparing the RCS for use by other users

Following are the procedures typically performed to prepare RCS for use by others:

##### *Step Action*

- 1** In the **Accounting** section, **Users** set the people who will have access to RCS.  
See "[User management](#)" on page 20
- 2** In the **Accounting section, Groups** create the user group (usually composed of system administrators and not linked to any operation) that will receive the system alarm e-mail notifications  
See "[Group management](#)" on page 26
- 3** In the **Monitor** section, select the group that will receive the system alarm e-mail notifications.  
See "[System monitoring \(Monitor\)](#)" on page 47

#### Opening an investigation

Procedures typically performed to open an investigation are indicated below:

**Step Action**

---

- 1** In the **Accounting** section, **Users** set the people who will belong to the investigation team and their roles.  
See "[User management](#)" on page 20
- 2** In the **Accounting** section, **Groups** set the team enabled to view investigation data and receive system alarms.  
See "[Group management](#)" on page 26
- 3** In the **Operations** section, open the investigation and link one or more groups.  
See "[Operation management](#)" on page 32 and "[Operation page](#)" on page 36
- 4** Inform the RCS Technician of the types of evidence to be collected.
- 5** In the **Audit** section, monitor system access by the team and check their actions.  
See "[User monitoring \(Audit\)](#)" on page 42

### Closing an investigation

The typical procedure performed to close an investigation is indicated below:

**Step Action**

---

- 1** In the **Operations** section, close the investigation.  
See "[Operation management](#)"
- 2** If necessary, ask the System administrator to save evidence in a Backup file.

### Monitoring the system

The typical procedures performed to monitor RCS use are indicated below:

**Step Action**

---

- 1** In the **Monitor** section, monitor system messages and licenses used.  
See "[System monitoring \(Monitor\)](#)" on page 47
- 2** In the **Audit** section, monitor actions performed by Technicians, Analysts and other Administrators.  
See "[User monitoring \(Audit\)](#)" on page 42

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# Managing RCS login

## Presentation

### Introduction

Managing users and groups is essential to guarantee data confidentiality and security.

### Content

This section includes the following topics:

---

<b>What you should know about users and groups</b> .....	<b>19</b>
<b>User management</b> .....	<b>20</b>
<b>User data</b> .....	<b>24</b>
<b>Privilege data</b> .....	<b>25</b>
<b>Group management</b> .....	<b>26</b>

# What you should know about users and groups





## Introduction

To guarantee maximum data confidentiality and security, RCS provides the Administrator the opportunity of assigning login privileges to each user and grouping users in workgroups for specific operations. The structure adapts to both situations where tasks are highly fragmented and situations where all tasks are performed by a few people.

By managing users, the Administrator can also quickly disconnect a suspected user and temporarily disable his/her RCS login.

## Login privileges

RCS was designed to guarantee maximum server and collected data security. To achieve this goal, four distinct roles were defined that usually refer to the professionals who can login to the system:

-  System administrator: exclusively in charge of hardware and software installation and backups
-  Administrator: in charge of all system login, investigations and investigation goals
-  Technician: in charge of setting up and installing tapping agents
-  Analyst: in charge of data analysis



Tip: several roles can be assigned to the same user, for example, an Administrator can also have Technician privileges.

## Functions enabled by single role

Following is the list of RCS functions reserved to users in a specific role:

<i>Role</i>	<i>Enabled functions</i>
<b>System administrator</b>	<ul style="list-style-type: none"><li>• System</li><li>• Monitor</li></ul>
<b>Administrator</b>	<ul style="list-style-type: none"><li>• Accounting</li><li>• Operation</li><li>• Audit</li><li>• Monitor</li></ul>
<b>Technician</b>	<ul style="list-style-type: none"><li>• Operation</li><li>• System</li></ul>

<i>Role</i>	<i>Enabled functions</i>
<b>Analyst</b>	<ul style="list-style-type: none"> <li>• Operation</li> <li>• Intelligence</li> <li>• Dashboard</li> <li>• Alerting</li> </ul>

## User groups per operation

Groups allow users to be grouped to assign them specific operations. This way, several operations can be managed simultaneously, guaranteeing maximum data confidentiality amongst workgroups.

See "[Operation management](#)" on page 32



**IMPORTANT: operation assignments to a workgroup will be effective the next time the user in that group logs in.**

## User groups for system alarm alerts

A group of users exclusively intended to receive an e-mail in the event of system alarm can be created.

This way, fast System administrator intervention can be guaranteed in the event of serious faults.

See "[System monitoring \(Monitor\)](#)" on page 47

## User management

To manage users:

- Accounting section, Users

### Purpose

This function lets you:

- register a user and allow him/her access to certain RCS functions. Once registered, the user can login and view functions based on assigned roles
- temporarily disable user login, for example, in the event of prolonged absence
- immediately disconnect the user from RCS, for example, in the event of alleged illegal access to RCS
- monitor the date-time and IP address of the user's last connection to RCS and other pertinent data



Tip: to block a user and prevent any access to RCS, we suggest you immediately disconnect him/her (if connected) and disable him/her.



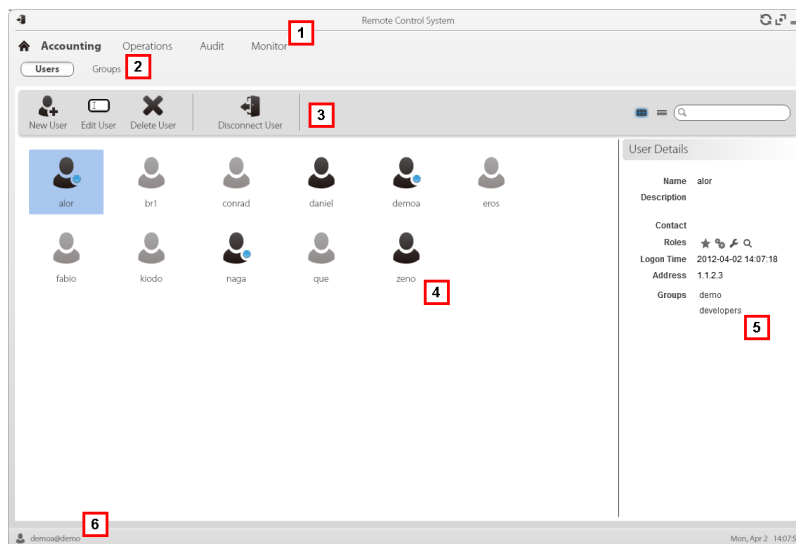
NOTE: the function is only enabled if the user has **User and group management** authorization.

## Next steps

Several users can be linked to a workgroup, to assign them specific operations or send system alarms. See "[Group management](#)" on page 26 .

## What the function looks like

This is what the page looks like:



### Area Description

- 1 RCS menu.
- 2 **Accounting** menu.



---


**Area Description**



---


**3** Window toolbar. Descriptions are provided below:

<b>Icon</b>	<b>Description</b>
	Add a user
	Edit the selected user.
	Delete the selected user.
	Disconnect the selected user.

**4** Main work area with list of registered users:

 Registered user currently logged into RCS.

 Registered user but not currently logged into RCS.

 Registered user but not enabled to login. The user cannot have access to RCS.

**5** Selected user data.

**6** RCS status bar.

## To learn more

For interface element descriptions See "[Shared interface elements and actions](#)" on page 12 .

For a description of the data in this window see "[User data](#)" on page 24 .

For more information on users and groups see "[What you should know about users and groups](#)" on page 19 .

## Registering and enabling a user for RCS

To register a new user:


**Step Action**


---

- 1 Click **New user**: data entry fields appear.

**Step Action**

---



- 2 Enter the required data and make sure the **Enabled** box is selected if you want the user to login to RCS.
- 3 Click **Save**: the new user with the  icon appears in the main work area.

**Enabling/Disabling a user**

To enable or disable a user to login to RCS:

**Step Action**

---

- 1 Double-click a user: his/her data appear.
- 2 Click **Enabled** to enable or disable.
- 3 Click **Save**: the new user appears in the main work area with icon  (enabled) or  (disabled).





**IMPORTANT: if the user is logged in, she/he will continue to work but the next login will be denied. To immediately disconnect a user see "[Immediately disconnecting a user](#)" below .**

**Immediately disconnecting a user**

To immediately disconnect a logged in user:

**Step Action**

---

- 1 Click on a user  and click **Disconnect user**: the user appears with icon  in the main work area.



**IMPORTANT: if the user is logged in, she/he will immediately be disconnected. The next login will be permitted unless the user is disabled. To disable the user see "[Enabling/Disabling a user](#)" above .**

**Editing user data**






To edit user data:

**Step Action**

- 1 Double-click a user: his/her data appear.
- 2 Edit data and click **Save**: data is considered from the next login or next alert messages.

## User data


Selected user data is described below:

<i>Data</i>	<i>Description</i>
<b>Enabled</b>	Select to enable user login to RCS. Do not select to leave the user registered but deny login to RCS.
<b>Name</b>	Name used to login to RCS.
<b>Description</b>	User's description
<b>Contact</b>	user's e-mail.  <b>IMPORTANT:</b> if the user has Analyst privileges, evidence alerts will be sent to this address. The e-mail cannot be changed by the user.
<b>Password</b>	User's password. The user can change it later from the status bar.
<b>Roles</b>	Privileges assigned to the user: <ul style="list-style-type: none"> <li> System administrator</li> <li> Administrator</li> <li> Technician</li> <li> Analyst</li> </ul> For a detailed description of privileges see " <a href="#">Privilege data</a> " on the next page
<b>Advanced permissions</b>	Opens the window to assign authorizations for each privilege. For a detailed description of authorizations see " <a href="#">Privilege data</a> " on the next page
<b>Language</b>	RCS Console interface language. The user can change it later from the status bar.
<b>Console Timezone</b>	Time zone used by the RCS Console to display time.
<b>Groups</b>	User's groups. The user can only see the operations assigned to the group.

## Privilege data

### Administrator authorizations

Following is a description of the authorizations assigned to Administrators:

<i>Data</i>	<i>Description</i>
<b>User and group management</b>	Enables the <b>Accounting</b> section.  NOTE: users with this authorization can naturally change their own and others' authorizations.
<b>Operations management</b>	Enables Operations management.
<b>Target management</b>	Enables target management.
<b>System auditing</b>	Enables the <b>Audit</b> section.
<b>License modification</b>	Allows the license to be updated.

### System administrator authorizations

Following is a description of the authorizations assigned to System Administrators:

<i>Data</i>	<i>Description</i>
<b>Frontend management</b>	Enables the <b>System, Frontend</b> section.
<b>Backend management</b>	Enables the <b>System, Backend</b> section.
<b>System Backup &amp; Restore</b>	Enables the <b>System, Backup</b> section.
<b>Injector management</b>	Enables the <b>System, Network Injector</b> section.
<b>Connectors management</b>	Enables the <b>Connectors</b> section.

### Technician authorizations


Following is a description of the authorizations assigned to Technicians:

<i>Data</i>	<i>Description</i>
<b>Factory creation</b>	Allows factories to be created and set.
<b>Installation vector creation</b>	Allows installation vectors to be compiled.

<i>Data</i>	<i>Description</i>
<b>Agent configuration</b>	Allows agent configurations to be edited.
<b>Command execution on agents</b>	Allows commands to be run on agents.
<b>Upload files to agent</b>	Allows files to be sent to agent.
<b>Import evidence</b>	Allows evidence to be imported.
<b>Injector rules management</b>	Allows rules to be added for Network Injectors.

## Analyst authorizations

Following is a description of the authorizations assigned to Analysts

<i>Data</i>	<i>Description</i>
<b>Alerts creation</b>	Allows alert rules to be created.
<b>File system browsing on agents</b>	Allows the agent's file system to be browsed.
<b>Evidence editing</b>	Allows priorities to be assigned to evidence and notes added.
<b>Evidence deletion</b>	Allows evidence to be deleted.
	 NOTE: this authorization is never enabled by default since it requires a user license.
<b>Evidence export</b>	Allows evidence to be exported
<b>Entity management</b>	Allows intelligence entities to be managed.

## Group management

To manage groups:

- Accounting section, Groups

### Purpose

This function lets you:

- organize users in work groups to assign specific operations
- create an alerting group to receive system alarm e-mails



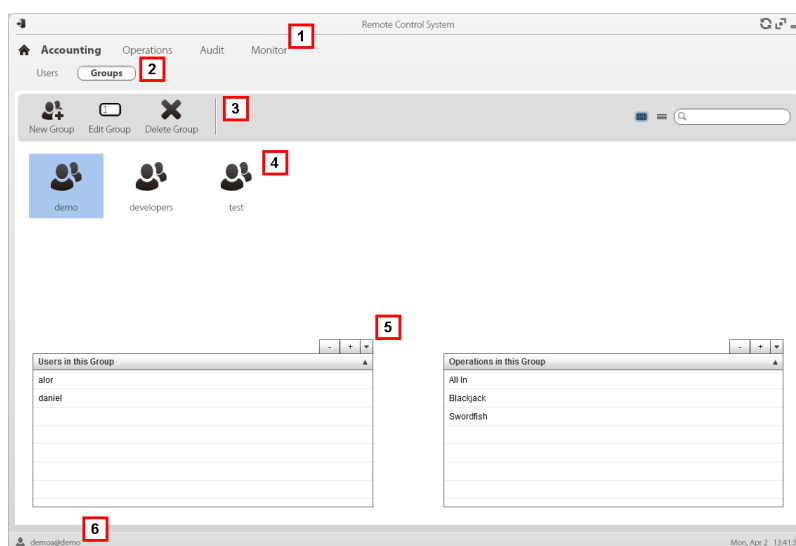
Tip: to more simply and quickly group and manage users intended to receive RCS alarms, create an "alerting" group without linking it to an operation but containing all the users to be alerted in the event of alarm. See "[User management](#)" on page 20



NOTE: the function is only enabled if the user has **User and group management** authorization.

## What the function looks like

This is what the page looks like:



### Area Description

- 1 RCS menu.
- 2 **Accounting** menu.
- 3 Window toolbar. Descriptions are provided below:

#### Icon Description



Add a group.



Edit the selected group.



Delete the selected group.

**Area Description**

---

- 4 Group list.
- 5 Users and operation assigned to the selected group.
- 6 RCS status bar.

**To learn more**

For interface element descriptions See "[Shared interface elements and actions](#)" on page 12 .



For more information on groups and users see "[What you should know about users and groups](#)".

**Creating a group and linking users and operations**

To create a new group:

**Step Action**

---

- 1 Click **New group**: enter a name to be assigned to the group.
- 2 Enter the required data and click **Save**: the new group is displayed in the main work area.
- 3 In the **Users in this Group** table, click  to add users to the group.
- 4 In the **Operations in this Group** table, click  to add operations to the group: the next time group users login, they will see the added operation.




**IMPORTANT: if an operation is linked to a user who is currently logged in, the user will only be able to view the operation the next time she/he logs in.**

**Editing group data and removing users and operations**

To edit group data:


**Step Action**

---

- 1 Double-click a group.
- 2 Edit the name and click **Save**.
- 3 In the **Users in this Group** table, click  to remove users from the group.

**Step Action**

---

- 4 In the **Operations in this Group** table, click  to remove operations from the group: the next time group users login, they will no longer see the operations in the list.



**IMPORTANT: if an operation is removed from a user who is currently logged in, the user will no longer view the operation the next time she/he logs in.**



---

# Operation and target

## Presentation

### Introduction

Managing operations sets the targets to be tapped.

### Content

This section includes the following topics:

---

<b>What you should know about operations</b> .....	<b>31</b>
<b>What you should know about targets</b> .....	<b>31</b>
<b>Operation management</b> .....	<b>32</b>
<b>Operation data</b> .....	<b>36</b>
<b>Operation page</b> .....	<b>36</b>
<b>Operation page data</b> .....	<b>39</b>

## What you should know about operations

### What is an operation

An operation is an investigation to be conducted. An operation contains one or more targets meaning the physical individuals to be tapped. The Technician assigns one or more agents, *desktop* or *mobile*, to the target. Thus the agent can be installed on a computer or mobile phone.

### Assigning the operation to a user group

To guarantee maximum data confidentiality, we recommend you only link an operation to the RCS users assigned to the investigation. Users not linked to the operation will not see any operation data or collected evidence. For this reason, the person who creates the operation must be part of at least one of the groups linked to the operation when created.

### What happens when a new operation is created

When an operation is created it is already declared open thus operation targets can be created and the Technician can generate and install agents. When the operation is open, agents begin to collect data and send it to RCS.

### What happens when an operation is closed

The operation must be closed when the investigation is closed, and it is certain that all agents have already transmitted all the collected evidence to the Backend.

Closing the operation automatically closes the targets and agents. When an agent is closed, uninstallation occurs at the first synchronization, leaving the device clean.

A closed operation cannot be re-opened. Only the operation data and collected evidence are left in the database.



**CAUTION:** *for infrequent synchronizations, for example, every four days, wait for the last planned synchronization before closing the operation.*

## What you should know about targets

### What is a target

A target is the physical person to be investigated. The Technician assigns one or more agents, *desktop* or *mobile*, to the target. Thus the agent can be installed on a computer or mobile phone.

### Administrator tasks

The Administrator manages targets on the general organizational level; the Technician sets and works on targets according to the Administrator's instructions.

The Administrator is in charge of:

- creating a new target within an operation
- instruct the Technician on activation schedules and the types of evidence to be collected through a certain target's agents, based on the instructions received from legal authorities
- monitoring correct instruction application through Audits
- closing a target

## What happens when a target is created

When a target is created it is already declared *open* and thus the Technician can be asked to generate and install agents.

## What happens when a target is closed

A target can be closed, for example, when closing investigations for that target.

Closing a target automatically closes its agents. When an agent is closed, uninstallation occurs at the first synchronization, leaving the device clean.

A closed target cannot be re-opened. Only the target data and those sent by agents are left in the database.



**CAUTION:** *when a target is closed, all linked agents are automatically uninstalled. Only close a target when certain to have all the required data.*



**CAUTION:** *for infrequent synchronizations, for example, every four days, wait for the last planned synchronization before closing the target.*



**Tip:** only close the target when you are sure that agents have downloaded all the required information.

## Opening and closing an operation

When an operation is closed, all of its targets are irreversibly closed and all their agents are uninstalled. See "[What you should know about operations](#)" on the previous page .

## Operation management

To manage operations:

- Operations section

### Purpose

This function lets you:

- create a new operation
- assign the operation to a user group



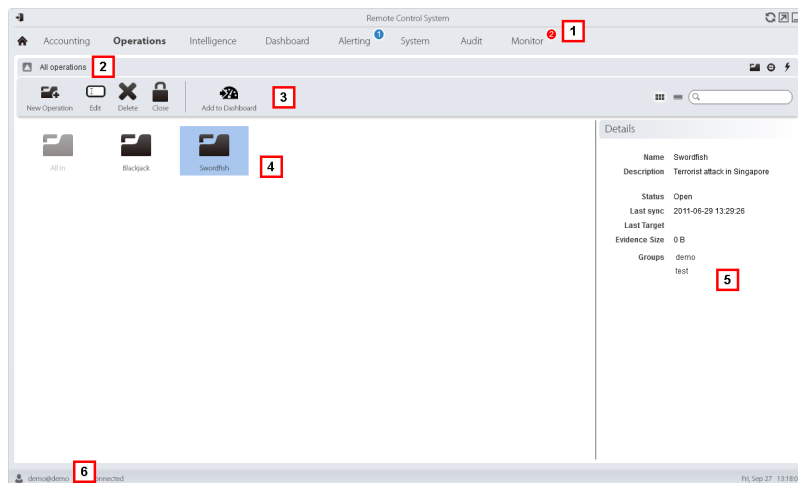
NOTE: the function is only enabled if the user has **Operation management** authorization.

## Next steps

One or more targets must be linked to the operation. See "[Operation page](#)" on page 36 .

## What the function looks like

This is what the page looks like:



### Area Description

- 1 RCS menu.
- 2 Scroll bar

---

**Area Description**


---

- 3** Window toolbar.  
Descriptions are provided below:

---

**Icon Description**


---



Add an operation.



Edit the selected operation.



Delete the selected operation.



Close the operation.

- 4** List of created operations:



Open operation. If targets were set and agents correctly installed, collected evidence is received.



Closed operation. All targets are closed and agents uninstalled. All its targets and evidence can still be viewed.

- 5** Selected operation data.  
**6** RCS status bar.

## To learn more

For interface element descriptions See "[Shared interface elements and actions](#)" on page 12 .

For a description of the data in this window see "[Operation data](#)" on page 36 .

For more information on operations see "[What you should know about operations](#)" on page 31 .

## Creating an operation

To create a new operation:

---


**Step Action**


---

- 1** Click **New Operation**: data entry fields appear.

**Step Action**

---

- 2 Select the group (or groups) to be assigned to the operation.  
 NOTE: the user who is creating the operation must belong to at least one of the linked groups.
- 3 Enter the required data and click **Save**: the new operation appears in the main work area in Open status.

**Editing operation data**

To edit operation data:

**Step Action**

---

- 1 Select an operation and click **Edit**: its data appears.
- 2 Edit data and click **Save**.

**Closing an operation**

To close an operation and begin uninstalling agents on all targets:

**Step Action**

---

- 1 Select an operation and click **Close**.
- 2 Confirm close: all targets are closed and agent uninstall is requested. Data is left available on the database.



**CAUTION:** closing an operation is irreversible see "[What you should know about operations](#)" on page 31

**Deleting an operation**

To delete an operation:

**Step Action**

---

- 1 Select an operation and click **Delete**.

**Step Action**


- 2 Confirm the action by clicking **OK**: operation data, targets, agents and all evidence is deleted from databases.



**CAUTION: deleting an action is irreversible and all data linked to that operation is lost.**

## Operation data

Selected operation data is described below:

<b>Data</b>	<b>Description</b>
<b>Name</b>	Operation name.
<b>Description</b>	User's description
<b>Contact</b>	Descriptive field used to define, for example, the name of a contact person (Judge, Attorney, etc.).
<b>Status</b>	<p>Operation status and close command:</p> <p><b>OPEN</b>: the operation is open. If targets were set and agents correctly installed, the RCS receives the collected evidence.</p> <p><b>CLOSED</b>: the operation is closed and can not be re-opened. Agents no longer send data but evidence already received can still be viewed.</p> <p> <b>CAUTION: closing an operation is irreversible. See "<a href="#">What you should know about operations</a>" on page 31</b></p>
<b>Groups</b>	<p>Groups that can see the operation.</p> <p>See "<a href="#">Group management</a>" on page 26</p>

## Operation page

To view an operation: | • **Operation** section, double-click an operation

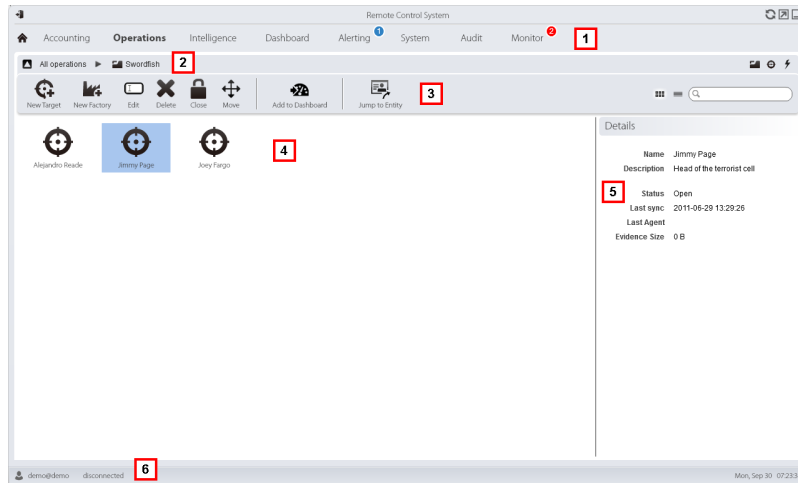
### Purpose

This function lets you:

- create one or more targets to be monitored during an operation
- manage target activation/deactivation.

### What the function looks like

This is what the page looks like:



**Area Description**

- 1 RCS menu.
- 2 Scroll bar.
- 3 Window toolbar. Descriptions are provided below:

**Icon Function**



Add a target.



NOTE: the function is only enabled if the user has **Target management** authorization.



Edit the selected target.



Delete the selected target.



Close the target.



Move the target to another operation.

- 4 Target list:



Open target



Closed target



**Area Description**

---

- 5 Selected target data.
- 6 RCS status bar.

**To learn more**

For interface element descriptions See "[Shared interface elements and actions](#)" on page 12 .

For more information on operations see "[What you should know about operations](#)" on page 31 .

For a description of the data in this window see "[Operation page data](#)" on the next page .

**Creating a target**

To create a new target:

**Step Action**

---

- 1 Click **New Target**: data entry fields appear.
- 2 Enter the required data and click **Save**: the new target appears in the main work area in Open status, meaning it is ready to be used by a Technician.

**Closing a target**

To close a target and begin uninstalling its agents:

**Step Action**

---

- 1 Select a target and click **Close**.
- 2 Confirm close: the target is closed and agent uninstallation is automatically launched. Data is left available on the database.



**CAUTION: closing a target is irreversible see "[What you should know about targets](#)" on page 31**

**Editing target data**

To edit target data:

**Step Action**

---

- 1 Select a target and click **Edit**: its data appears.
- 2 Edit data and click **Save**.

**Deleting a target**

To delete a target:

**Step Action**

---



- 1 Select a target and click **Delete**.
- 2 Confirm the action by clicking **OK**: target data, its agents and all evidence is deleted from databases.



**CAUTION: deleting a target is irreversible and all data linked to that target will be lost.**

## Operation page data

Selected target data is described below:

<i>Data</i>	<i>Description</i>
<b>Name</b>	Target name.
<b>Description</b>	User's description
<b>Status</b>	Defines the target's status:  Open. If the Technician correctly installs agents, RCS receives the collected evidence.  Closed, it can no longer be opened.

---

# Monitoring users

## Presentation

### Introduction

Monitoring RCS users guarantees correct investigations and the observance of rules and indications issued by any authority that requested the investigations.

### Content

This section includes the following topics:

---

<b>What you should know about user monitoring (Audit)</b> .....	<b>41</b>
<b>User monitoring (Audit)</b> .....	<b>42</b>
<b>User monitoring data (Audit)</b> .....	<b>44</b>

## What you should know about user monitoring (Audit)

### What is user monitoring

The Audit is a list of actions taken by all Administrator, Technician and Analyst users in RCS. Its purpose is to guarantee correct investigations and the observance of rules and indications issued by any authority that requested the investigations.

This way, the Administrator can monitor system access by enabled users and trace special actions over time such as, for example, target creation.

### How signaled actions are read

The Audit records all actions run on the system by each single user in a table.

Four pieces of information are always included in each action:

- action date-time,
- user that performed the action,
- action type,
- description of the action

The other fields are only populated according to the type of action. For example, if a user logs into the system, the Audit records the user's name in **Actor** and the "login" action type in **Action**.

If a Technician creates agents, an action appears in the list for each agent with the name of the user, the "target.create" type of action, the operation name, target name and agent's name.



NOTE: : audit records are not localized and only available in English.

### Selecting specific actions using filters

The function normally displays actions performed in the last 24 hours. The filter on the **Date** column is thus the only filter that is always set by default but can be changed as needed. For this reason, the corresponding combo box is always selected.

A filter can be set for all other columns to refine the search. If the combo box next to the heading is selected, the filter on that column is active.

Each heading thus allows you to select which data should be displayed.

Only the **Description** column lets you enter part of the text to be searched, for example, if "log" is entered, all actions whose descriptions contain the text "log" will be displayed. For example:

- "User 'xxx' **logged** in"
- "**Log** file created"

### Exportable data

RCS lets you export recorded actions for Administrators, Technicians and Analysts. The file will be downloaded to the RCS Download folder on the desktop.

## User monitoring (Audit)

To monitor users:

- Audit section

### Purpose

This function lets you monitor Administrator, Technician and Analyst actions in RCS. For example, you can monitor correct operation progress, target activation/deactivation schedules and the Technician's correct application of the types of agents authorized for a specific operation.

### What you can do

You can select only the actions run in a certain period and apply filters to search, for example, for detailed information on specific operations or users. In the event of need, actions can always be exported in CSV format files.



**IMPORTANT:** if the page is kept open, it must be refreshed to view the most recent actions. See "[Homepage description](#)" on page 10



**NOTE:** the function is only enabled if the user has **System auditing** authorization.

### What the function looks like



This is what the page looks like:

Date	Actor	Action	User	Group	Operation	Target	Agent	Description
2012-04-02 13:10:16	admin	user.update						Updated 'privs' to [ADMIN, TECH, VIEW] for user 'test'
2012-04-02 13:10:16	admin	user.update						Updated 'desc' to 'This is a test user' for user 'test'
2012-04-02 13:10:16	alor	login						User 'alor' logged in
2012-04-02 13:10:16	admin	user.update						Updated 'desc' to 'This is a test user' for user 'test'
2012-04-02 13:10:16	admin	user.update						Updated 'contact' to 'ask@me.it' for user 'test'
2012-04-02 13:10:16	alor	user.create						Created a new user 'disgruntled'
2012-04-02 13:10:16	admin	user.update						Changed password for user 'test'
2012-04-02 13:10:16	admin	user.update						Updated 'privs' to [ADMIN, TECH] for user 'admin'
2012-04-02 13:10:16	alor	logout						User 'alor' logged out

---

## Area Description

- 1 RCS menu.
- 2 Window toolbar. Descriptions are provided below:

Icon	Description
	Export displayed actions to a CSV format file (can be imported in Excel).
	Remove all filters applied to table data.

- 3 List of actions run by RCS users.
- 4 RCS status bar.

## To learn more

For interface element descriptions See "[Shared interface elements and actions](#)" on page 12 .

For a description of the data in this window see "[User monitoring data \(Audit\)](#)"

For more information on the audit see "[What you should know about user monitoring \(Audit\)](#)" on page 41 .

## Selecting actions in a time range

To only view actions in a certain time range:

### Step Action

- 1 Click on the **Date** column heading.
- 2 Click on the required time range.



NOTE: the date filter is always on, set on actions in the last 24 hours. Only the criteria can be changed.

## Selecting actions based on proposed data

To increase result accuracy:

**Step Action**

- 1 Click on one or more column headings: a search field appears where you can enter data.
- 2 Enter the word to be searched and press **Enter**. Information in the column will be filtered and ordered according to the entered search word.

**Removing one or more filters**

To remove a filter and display all data:

**If you want to remove... Then...**

**a single filter** unselect the combo box in the column heading.

**all filters simultaneously** click **Reset filters**.



NOTE: the date filter is always on, set on actions in the last 24 hours. Only the time criteria can be changed.

**Exporting displayed actions**

To export displayed actions:

**Step Action**

- 1 Click **Export**: data entry fields appear.
- 2 Enter the name of the file to be exported and click **OK** : a progress bar indicates operation progress. To check progress, click on the bar.

**User monitoring data (Audit)**

Audit table columns are described below:

<b>Column</b>	<b>Description</b>
<b>Date</b>	Action date-time.
<b>Actor</b>	Name of the logged in user that caused the action.
<b>Action</b>	Type of action run by the logged in user. The action is displayed as <i>individual.action</i> . For example "user.update" means that a user was updated. This makes selecting the same types of actions easier.

<b>Column</b>	<b>Description</b>
<b>User</b>	User concerned by the action, for example, created by an Administrator. It should not be confused with the name in Actor which is the user who caused the action.
<b>Group</b>	Group concerned by the action, for example, the group linked to an operation.
<b>Operation</b>	Operation concerned by the action, for example, the operation closed by an Administrator.
<b>Target</b>	Target concerned by the action, for example, the target closed by an Administrator.
<b>Agent</b>	Agent concerned by the action, for example, agent created by a Technician.
<b>Description</b>	Brief description of the action.



NOTE: all actions are displayed in English.



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# System monitoring

## Presentation

### Introduction

System monitoring guarantees constant control of component status and license usage.

### Content

This section includes the following topics:

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## System monitoring (Monitor)

To monitor the system:

- Monitor section

### Purpose

This function lets you:

- monitor system status in both hardware and software terms
- monitor license used compared to those purchased
- define the alerting group and alert e-mail addressee in the event of system alarms



*Service call: Contact your HackingTeam Account Manager if additional licenses are required.*

### What the function looks like

This is what the page looks like:

Type	Name	Address	Last contact	Status	CPU Proc	CPU Host	Disk Free
	Network Controller	5.6.7.8	2013-09-27 13:04:03	Houston we have a problem!	90%	85%	70%
	Anonymizer	9.10.11.12	2013-09-27 13:04:03	Houston we have a problem!	90%	70%	70%
	Database	127.0.0.1	2013-09-27 13:04:03	Pay attention	70%	15%	20%
	Collector	1.2.3.4	2013-09-27 13:04:03	Status for component...	30%	15%	10%

### Area Description

- 1 RCS menu.

**Monitor** (1): indicates the current number of system alarms triggered.

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**Area Description**


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- 2** Window toolbar.  
Descriptions are provided below:

---

**Icon Description**


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Defines the alerting group.



NOTE: the function is only enabled if the user has **User and group management** authorization.



Loads a new license file.



NOTE: the function is only enabled if the user has **License modification** authorization.

- 3** List of RCS components and their status:



Alarm (generates an e-mail sent to the alerting group)



Warning



Component running

- 4** License status.

- 5** RCS status bar.

## To learn more

For interface element descriptions See "[Shared interface elements and actions](#)" on page 12 .

For a description of the data in this window see "[System monitoring data \(Monitor\)](#)" on the next page .

## Define the alerting group or temporarily enable/disable it

To select the alerting group:

---

**Step Action**


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- 1** Click **Set System Alert**.

**Step Action**

- 2
  - To turn off e-mail notifications, select **None** .

or

  - To turn on group e-mail notifications, select **Select a group to be alerted via email** and the alerting group from the drop down menu. Each time a system alarm is triggered, the selected group will receive an e-mail with its description.
- 3 Click **Save**.











Tip: to more simply and quickly group and manage users intended to receive RCS alarms, create an "alerting" group without linking it to an operation but containing all the users to be alerted in the event of alarm. See "[User management](#)" on page 20

## System monitoring data (Monitor)

### System component monitoring data

System monitoring data is described below:

<i>Data</i>	<i>Description</i>
<b>Type</b>	Monitored component type and name:
<b>Name</b>	 Anonymizer  Carrier  Collector  Database  Network Controller
<b>Address</b>	Component's IP address.
<b>Last contact</b>	Last synchronization date-time.


<i>Data</i>	<i>Description</i>
<b>Status</b>	Component status at last synchronization:  Alarm: the component is not running, contact the alerting group for immediate service.  Warning: the component signals a risky situation, contact the system administrator for necessary checks.  Component running.
<b>CPU</b>	% CPU use by the single process.
<b>CPU Total</b>	% CPU use by server.
<b>Disk Free</b>	% free disk space.

## License monitoring data

License monitoring data is described below: For restricted licenses, the format is "x/y" where x is the amount of licenses currently used by the system and y the maximum amount of licenses.



**CAUTION: if all the licenses are in use, any new agents will be put in queue until a license is freed or new ones purchased.**

<i>Data</i>	<i>Description</i>
<b>License type</b>	Type of license currently in use for agents. <b>reusable:</b> an agent's license can be reused after it is uninstalled. <b>oneshot:</b> an agent's license is only valid for one installation.  NOTE: the license can only be updated if the user has <b>License modification</b> authorization.
<b>Users</b>	Amount of users currently used by the system and maximum admitted quantity.
<b>Agents</b>	Amount of agents currently used by the system and maximum admitted quantity.
<b>Desktop Mobile</b>	Amount of desktop and mobile agents currently used by the system and maximum admitted quantities respectively.
<b>Distributed server</b>	Amount of database currently used by the system and maximum admitted quantity.
<b>Collectors</b>	Amount of Collectors currently used by the system and maximum admitted quantity.

<i>Data</i>	<i>Description</i>
<b>Anonymizers</b>	Amount of Anonymizers currently used by the system and maximum admitted quantity.

# ]HackingTeam[

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