

iSecurity Compliance Evaluator

User Guide
Version 1.35

www.razlee.com

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About this Manual

This user guide is intended for system administrators and security administrators responsible for the implementation and management of security on IBM i systems. However, any user with basic knowledge of IBM i operations will be able to make full use of this product after reading this book.

Raz-Lee takes customer satisfaction seriously. Our products are designed for ease of use by personnel at all skill levels, especially those with minimal IBM i experience. The documentation package includes a variety of materials to get you familiar with this software quickly and effectively.

This user guide, together with the iSecurity Installation Guide, is the only printed documentation necessary for understanding this product. It is available in HTML form as well as in user-friendly PDF format, which may be displayed or printed using Adobe Acrobat Reader version 6.0 or higher. If you do not have Acrobat Reader, you can download it from the Adobe website: <http://www.adobe.com/>. You can also read and print pages from the manual using any modern web browser.

This manual contains concise explanations of the various product features as well as step-by-step instructions for using and configuring the product.

Raz-Lee's iSecurity is an integrated, state-of-the-art security solution for all System i servers, providing cutting-edge tools for managing all aspects of network access, data, and audit security. Its individual components work together transparently, providing comprehensive "out-of-the-box" security. To learn more about the iSecurity Suite, visit our website at <http://www.razlee.com/>.

Intended Audience

The Compliance Evaluator User Guide document was developed for users, system administrators and security administrators responsible for the implementation and management of security on IBM® AS/400 systems. However, any user with a basic knowledge of System i operations is able to make full use of this document following study of this User Guide.

NOTE: Deviations from IBM® standards are employed in certain circumstances in order to enhance clarity or when standard IBM® terminology conflicts with generally accepted industry conventions.

This document may also serve for new versions' upgrade approval by management.

Conventions Used in the Document

Menu options, field names, and function key names are written in **Courier New Bold**.

Links (internal or external) are emphasized with underline and blue color as follows: "About this Manual" on page 5.

Commands and system messages of IBM i® (OS/400®), are written in ***Bold Italic***.

Key combinations are in Bold and separated by a dash, for example: **Enter, Shift-Tab**.

Emphasis is written in **Bold**.

A sequence of operations entered via the keyboard is marked as

STRACT > 81 > 32

meaning: Syslog definitions activated by typing ***STRACT*** and selecting option: **81** then option: **32**.

Data Entry Screens

Data entry screens include many convenient features such as:

- Pop-up selection windows
- Convenient option prompts
- Easy-to-read descriptions and explanatory text for all parameters and options
- Search and filtering with generic text support

The following describes the different data entry screens.

- To enter data in a field, type the desired text and then press Enter or Field Exit
- To move from one field to another without changing the contents press Tab
- To view options for a data field together with an explanation, press F4
- To accept the data displayed on the screen and continue, press Enter

The following function keys may appear on data entry screens.

- **F1: Help** Display context-sensitive help
- **F3: Exit** End the current task and return to the screen or menu from which the task was initiated
- **F4: Prompt** Display a list of valid options for the current field or command. For certain data items, a pop-up selection window appears
- **F6: Add New** Create a new record or data item
- **F8: Print** Print the current report or data item
- **F9: Retrieve** Retrieve the previously-entered command
- **F12: Cancel** Return to the previous screen or menu without updating

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Overview

What is Compliance Evaluator?

Compliance Evaluator enables companies to easily obtain a quick, concise picture of the compliance status of their System i servers.

By providing compliance scores for individual servers, **Compliance Evaluator** is the ideal product for top and middle-level IT management.

Compliance Evaluator executes a focused set of pre-packaged and site-defined compliance reports, enabling the report output to be viewed either on a PC via the iSecurity™ GUI interface or as Excel email attachments.

What are the components of Compliance Evaluator?

Compliance Evaluator consists of three major components:

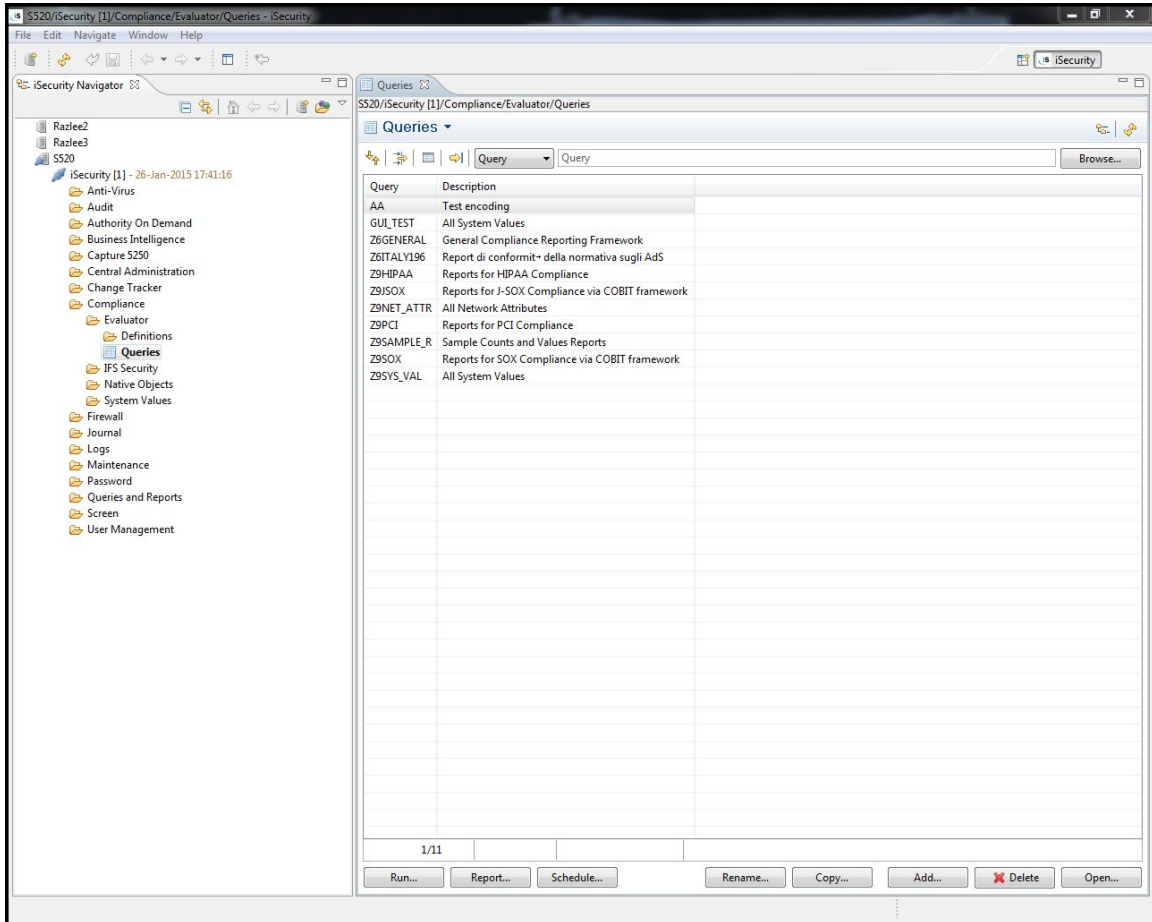
1. **Compliance Report Checks.** These checks are defined via the **Compliance Evaluator** user interface accessible via the iSecurity GUI. A number of pre-defined Compliance Report Checks are supplied with the product. These reports focus on the major compliance regulations such as PCI, SOX and HIPAA.
2. **Network Attributes and System Values definitions.** Each site can easily define scores for each of the Network Attributes and System Values, as well as unique scores for particular systems (for example a set of scores for a Production system, another set for a Test system, and so on).
3. **Excel Report Templates.** Technical users of **Compliance Evaluator**, for example system administrators, can define Excel-format report templates which will be used to automatically generate the requested reports in an Excel format compatible with site standards. It is recommended that at the outset the site use the product-supplied Excel report templates.

Implementing Compliance Evaluator

Compliance Evaluator is shipped with a number of pre-defined compliance checks. Each Check consists of a set of Detail and/or Counts reports which will execute when the **Run** button on the bottom left of the main product window is clicked.

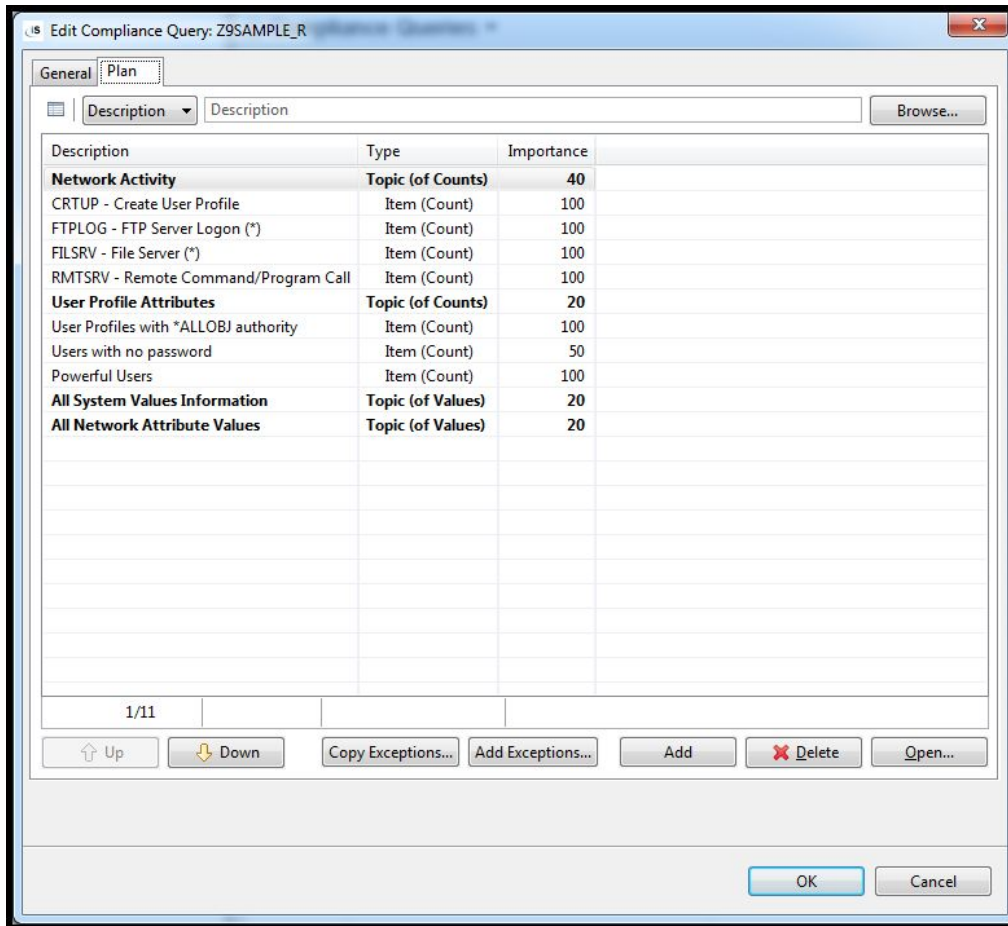
Define or Edit a Compliance Check

1. Open the **Compliance** node on the GUI tree, click **Evaluator** and then double-click **Queries**. The **Queries** window appears.



Compliance Evaluator Checks

2. This manual will focus on explaining how Z9SAMPLE_R is defined; double-click on Z9SAMPLE_R or select Z9SAMPLE_R and click **Open**. Note that checks can also be deleted, copied, renamed, and so on.
3. The **Edit Compliance Query** dialog for Z9SAMPLE_R appears.



Edit Compliance Query

The above report **Z9SAMPLE_R** has 4 sections (lines appear in **bold**) which are weighted 40-20-20-20 correspondingly, totaling 100%. Note that had we assigned 100 to each of the 4 sections, Compliance Evaluator automatically normalizes these values so that the relative weights in the final report will be 25 for each of these sections.

Relative weights can also be assigned to the Item (Count) reports which as a whole make up the Topic (of Counts) section of the Compliance Check. In the screen above, the **User Profiles with *ALLOBJ authority** report and the **Users with no Password** report each contribute (after normalization) 33.3% of the relative importance of the output section named **User Profile Attributes**.

Topic (of Values) reports are either \$S=System Values or \$T=Network Attributes **Audit** reports which produce multiple lines of output. These reports DO NOT need to be preceded by a Topic (of Counts) line.

All other **Firewall** and **Audit** reports produce a single numerical output which is a Count of the subject of the report (for example, the number of **Users with no Password**). These reports produce a single line of output in the final report; a set of such Item (Count) lines must be preceded by a single Topic (of Counts) line.

Edit Item (Count) reports

1. Select an Item (Count) type report and double-click it or click the **Open** button to edit. Recall that Item (Count) reports consist of a single numerical output which is, in this case, the number of **User Profiles with *ALLOBJ authority**.

Dialog box: Edit User Profiles with *ALLOBJ authority

Options:

- Topic (of Values)
- Topic (of Counts)
- Item (Count)
- Audit query
- Firewall query

Description: User Profiles with *ALLOBJ authority

Importance: 100

Query name: ZSA_ALLOBJ [Browse...]

[Advanced...]

Score	Value
100	0-100
50	101-150

Value can be one of the following:
- a number or a range of numbers (e.g. 10-25)

[OK] [Cancel]

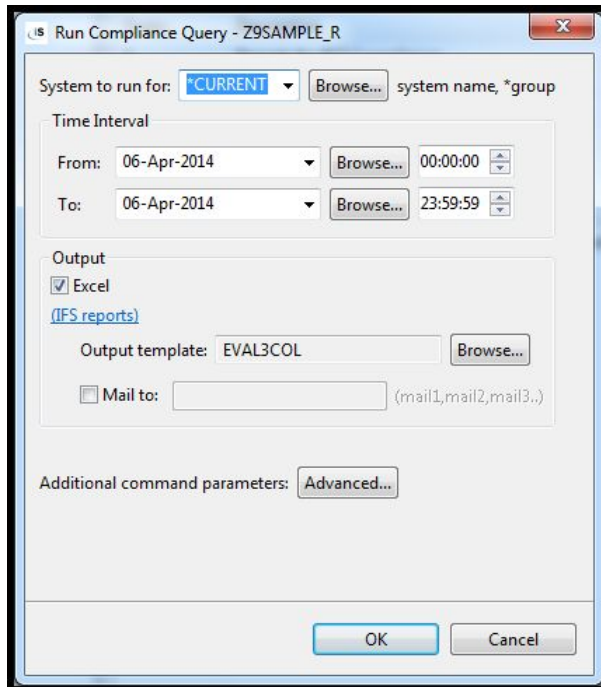
Edit Item(Count) reports

2. Define an importance rating for this particular report, which will be used to define the relative weight of this report within the Topic (of Counts).
3. Define ranges of values and a score for each value or range of values. This score represents the weight of this particular report within Topic (of counts). For example, if 105 users have *ALLOBJ authority, the score for this report is 50.

Running Reports

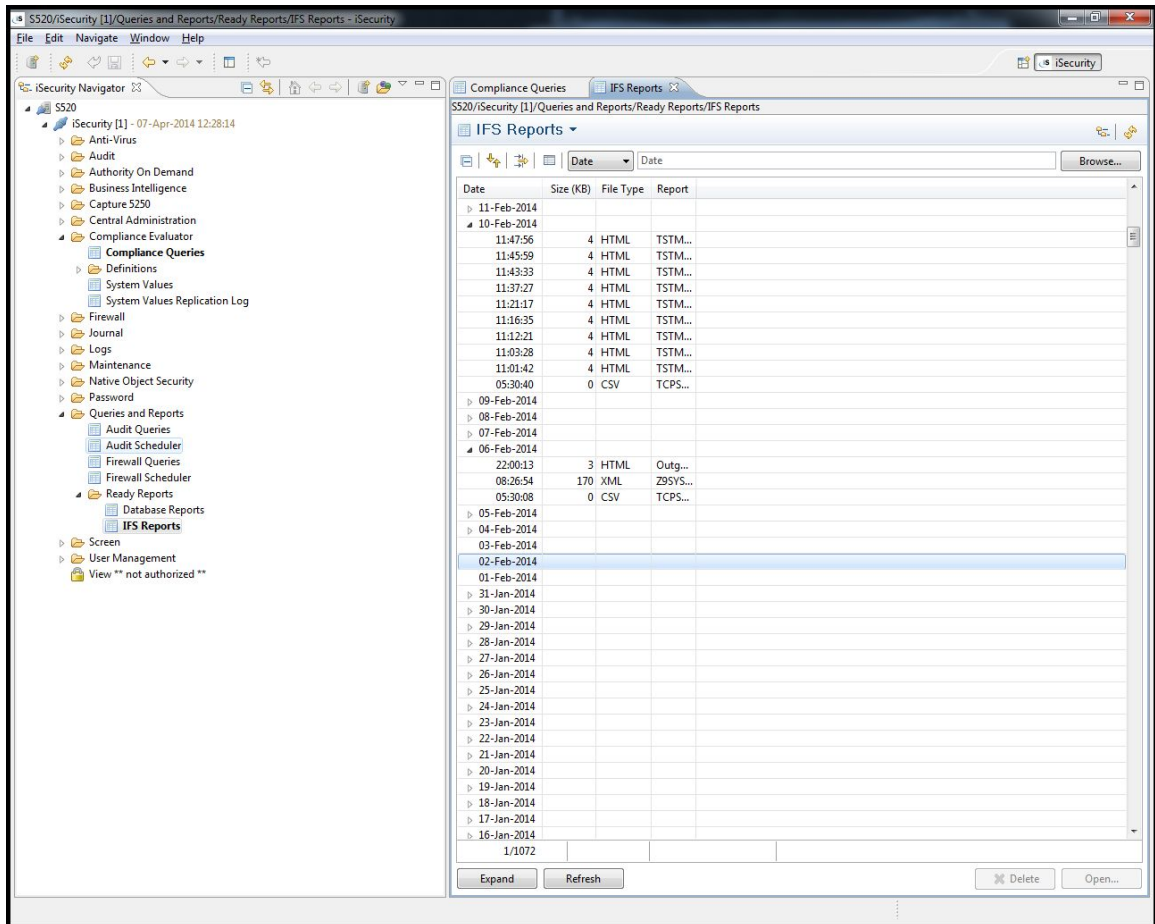
1. In order for the reports to run correctly you should:
 - a. Review the query definitions, checking that the filter conditions specified are appropriate for your site. Query definition names will be similar to Z\$A_DEFPW; that is they begin with “Z”, are followed by the audit type, in this case \$A, and following the “_” have up to 6 characters. To edit the filter conditions in the GUI, simple edit the query from “Queries and Reports” → “Audit Queries”.
 - b. The libraries listed below appear in some of the filter conditions and should be updated with information specific to your site. Use Option 32. General Groups from the main **Audit** menu, or Audit → “General Groups” to update the lists of libraries:
 1. LIBRARIES/PRODLIB- list of production libraries at your site.
 2. LIBRARIES/SYSTLIB- list of system libraries at your site.
 3. LIBRARIES/KEYSLIB- list of libraries containing key encryption codes at your site.
 4. USERS/PRODUSER- list of authorized users with access to production systems at your site.
 5. USERS/KEYSUSER- list of users who are authorized to access the list of encryption keys

Run the Compliance query by clicking **Run** and defining the time interval, the system to collect data from and the output format.

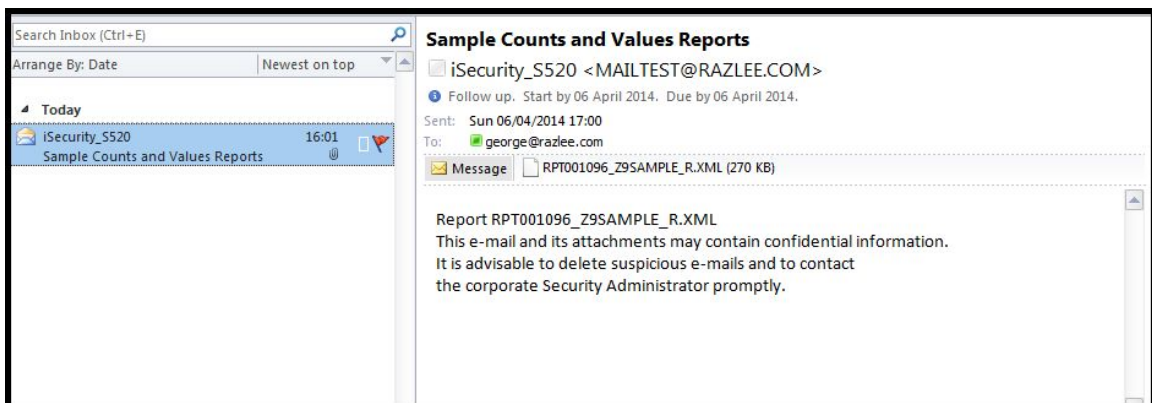


Collect Compliance Check

2. When selecting Excel output (with or without an e-mail address), the report is stored in your system's IFS area. The report can be viewed directly from the GUI by going to **Queries and Reports → Ready Reports → IFS Reports**).

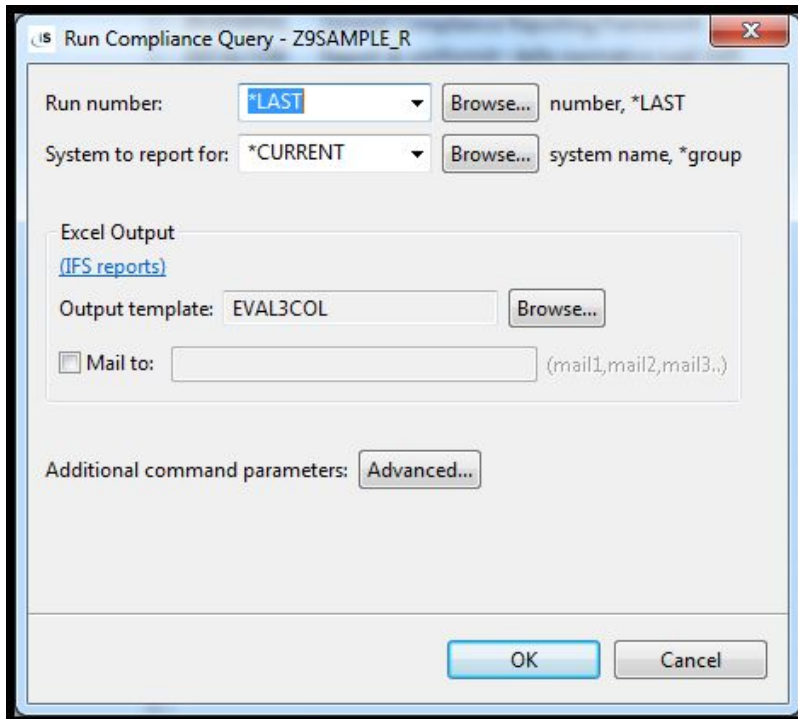


View IFS Reports from the GUI



Excel Report Sent to Email

- To view the Compliance query, click **Report**. Select Run number by ID or date, system to report for, output parameters and click **OK** to confirm.



Run Compliance Check

- The report will be displayed as an Excel spreadsheet on your PC. The report can be manipulated, saved to the PC's hard disk, and so on.

Monday, October 26, 2009

Report Filter: T..... Summary (NonBlanks) Exceptions T..... Summary (NonBlanks) Exceptions

iSecurity Compliance Evaluator
Sample PCI Compliance Report

System: **S720** **SPROD**
 Compliance Rating: **65%** **89%**

Item	Topic	Name	Relative Importance	Current Value	Optimal Value	Rank for Topic	Current Value	Optimal Value	Rank for Topic
User Profile Attributes			44%			40%			94%
User Profiles with *ALLOBJ authority				7	0-5		5	0-5	
Users with no password				4	0-10		2	0-10	
Powerful Users				12	0-10		12	0-10	
All System Values Information			35%			68%			73%
Previous end of system indicator	*SYSCTL	QABNORMSW		0	1		0	1	
Allow object restore option	*SEC	QALWDBJRSST		*ALL	*ALL		*ALL	*ALL	
Require digit in password	*SEC	QPWDRQDDGT		0	1		1	1	
Minimum Password Length	*SEC	QPWDMINLEN		5	6-128		0	6-128	
Network Activity			21%			88%			83%
FTP Requests to Production Libraries				4	0-4		2	0-3	
FTPLDG - FTP Server Login (*)				12	0-10		4	0-5	
FILESRV - File Server (*)				2	0-10		4	0-3	
Native Access to Production Libraries				2	0-5		2	0-3	

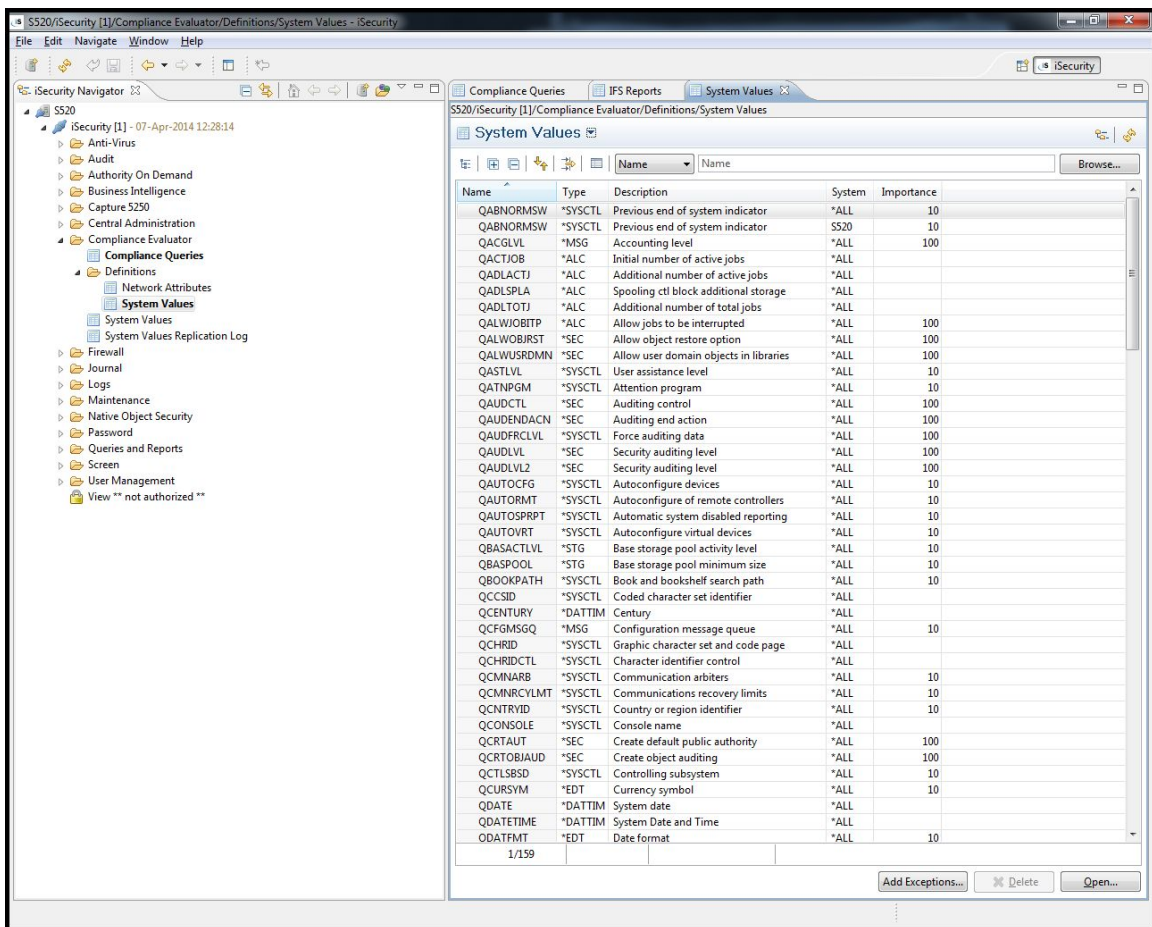
Excel Report

Network Attributes and System Values

Clicking the **Network Attributes** or the **System Values** tree nodes will list the appropriate information, including a short description, the relevant systems and the value's importance.

The list can be manipulated like any iSecurity GUI table, including sorting by any of the columns, filtering, and so on.

In the screenshot below, the definition for QABNORMSW appears twice, once for system S520 and once for all other systems. This means that the scoring for System Value QABNORMSW has been defined differently for S520 (which could be our TEST system).



System Values

Edit Network Attributes/System Values

Importance and score can be edited according to the site's policies and auditor's requirements.

To edit, select a Network Attribute or System Value and double-click it or click **Open**.

Name: QABNORMSW
Description: Previous end of system indicator
System: *ALL
Type: *SYSCTL

Importance: 10

Score	Value	Description
100	0	Previous end of system was normal.
	1	Previous end of system was abnormal.

Value can be one of the following:

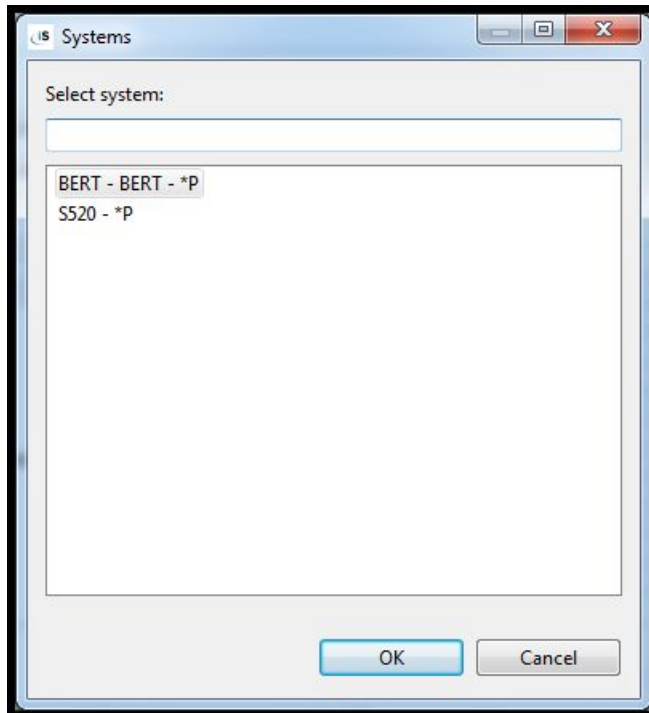
- a number or a range of numbers (e.g. 10-25)
- a character value.
- a string containing '?', where each character that appears is checked in its position, and '?' is checked to be not a blank (e.g.MX?P)

OK Cancel

Edit a particular System Value

Add Exceptions

1. To add score exceptions for a specific Network Attribute or System Value, select its definition (in the line where system is *ALL) and click **Add Exceptions**.
2. Click **Browse...** to select the exception system.



Add Exceptions

3. Select a System, and edit the score as required. Click **OK** to confirm.

