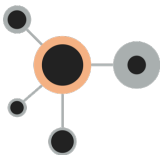

RAVAS

RAVAS Integration Software

Operations Guide

Version: 2.1.9

May 2020

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About This Guide

This guide provides operational instructions for the RAVAS Integration Server. The first part of the guide describes all non-administrative tasks a user can perform. The second part of the guide describes the administrative tasks an administrator can perform.

Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
ThinFont	Identifies storage locations, like the location where to install the software.
UPPERCASE	Identifies keyboard keys.
Italic	Identifies variables for which you must enter a value.
`Monospace font`	Identifies messages displayed by the system.
`{}`	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the {} symbols
`|`	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the | symbol.
`[]`	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
…	Indicates that you can type multiple options pf the same type. Type only the information/ Do not type the ellipsis (…).

Online Information

RAVAS RIS/RIS Forum

You can find Frequently Asked Questions, Manuals and Videos Material and even the possibility to report Incidents & Bugs, see https://www.esense-it.nl/forums/forumdisplay.php?fid=1

General Overview RAVAS Integration Server

The RAVAS Integration Server service provides a RESTful API (default on port 4444) that provides access to local RAVAS Scale resources via Wi-Fi. A RAVAS Scale resource is identified through a configured alias for the IP-address and port number of the scale in the network. The RAVAS Scale must be configured with a static IP-address

Happy Flow

Figure 1 describes the complete message flow from any application running on a mobile device that has implemented the RAVAS Restful API.

The RAVAS Scale and the RAVAS Integration Server (RIS) are connected via a network. The RAVAS Scale has a wireless connection via Wi-Fi and the RIS has either a cable connection or a wireless connection to the network.

The computer hosting the RAVAS Integration Server (RIS) and the RAVAS Scale must be configured with a static IP-address and/or a DNS name.

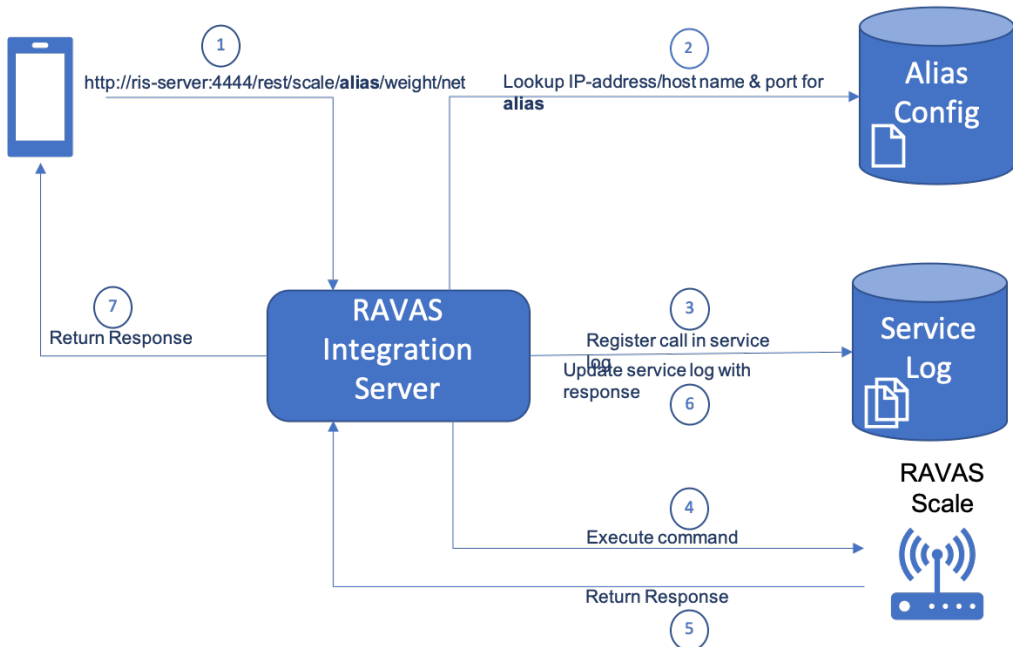

Figure 1 Process flow for successful WDR message transmission

The RIS is listening for incoming RESTful API calls, by default this is port 4444.

Process steps:

1. The mobile device is configured with the IP-address or DNS name of the RIS server and queries the RIS for all configured Scale aliases. From the list of configured Scales aliases, the scale that must be queried for weight information is selected. The mobile device then invokes the RESTful API to interact with the RAVAS Scale.

2. The RIS queries the required network parameters from the database for accessing the RAVAS Scale using the specified Scale alias, see *Scales Management*
3. The requested action is logged into the service log, see *Service Log*
4. The requested action is sent to the RAVAS Scale where it will be executed, for example getting the net weight.
5. The RAVAS Scale then returns the response to the RIS.
6. The RIS updates the previous registration (step 3) with the received response.
7. The RIS returns the response to the mobile device.

Error scenario's

In everyday use of the RAVAS Integration Server exceptions will occur. The following kinds of exceptions can occur:

- *ScaleNotExistException*, this exception occurs in the case that the provided Scale alias in the URL is not configured on the RIS. This can be prevented if the mobile queries first a list of configured aliases and the operator of the device selects an alias from this list.
  The Scale alias can be configured if needed via the RIS Console, see *Scales Management*
- *GetWeightException*, this exception is thrown when an error occurs on the RAVAS Scale:
  - Underload AD Convertor
  - Overload AD Convertor
  - Error is shown on display of scale
  - Unknown Error
- *CommunicationFailureException*, this exception is the result of communication problems between the mobile device using the RESTful API of the RIS and the RIS which communicates with the RAVAS Scale as a result of for example a bad Wi-Fi signal. When these errors occur then it's the responsibility of the mobile device to reinvoke the operation of the RESTful API that failed.
- *NotSupportedByLicenseException*, this exception occurs when the RESTful API of the RAVAS Integration Server is used and the RIS license is not activated. To resolve the issue, log on to the RIS Console and activate the license, see *License Management*

Operational Tasks

This section describes the following operational controls of the RAVAS Integration Server:

- ❑ **Dashboard**
- ❑ **Service Log**
- ❑ **User Profile**
- ❑ **Change Language**
- ❑ **Help**

Dashboard

The moment a user logs into the RIS Console the Dashboard is shown, see Figure 2. The RIS Dashboard provides an overview of the status of the RAVAS Integration Server (RIS). The following status information is shown on the dashboard:

- **Ports**, RESTful API is accessible through a port, see *General Overview RAVAS Integration Server*;
- **Scales**, RESTful API queries RAVAS scales;
- **License Notifications**, if the software license for the RIS needs attention, then the notification messages are shown on this page. See *License Management* for more information.

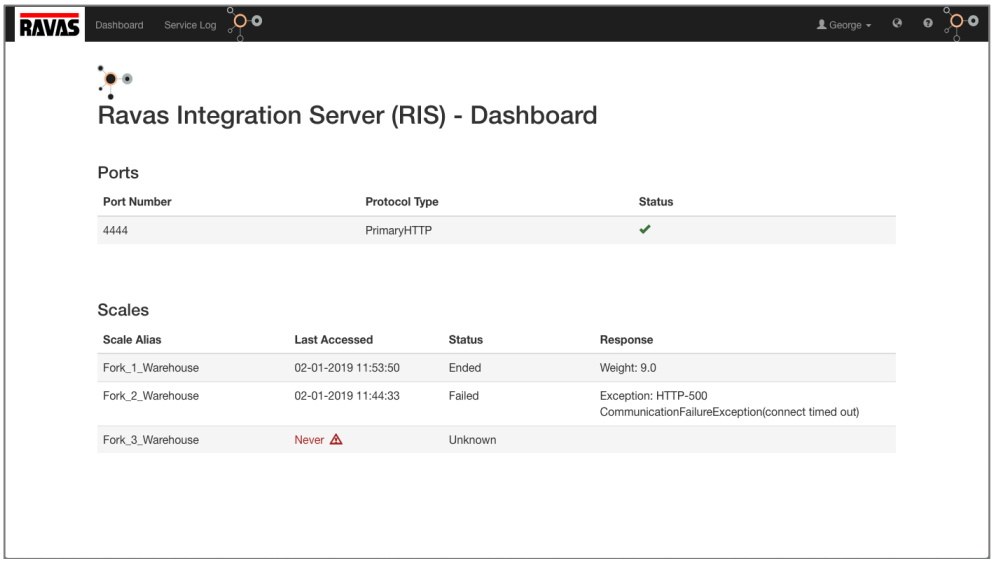

Figure 2 RIS Dashboard

Ports

The RESTful API for interacting with the RAVAS Scales is accessible through the PrimaryHTTP port of the RIS. The port number of the PrimaryHTTP port can be changed, the default is port 4444.

Scales

Each RAVAS Scale is configured with a unique logical name which is used to identify the RAVAS Scale when using the RESTful API.

The RIS Dashboard displays the timestamp of the last usage of the RESTful API per configured RAVAS Scale together with the status of that call and response returned by the RIS. According to Figure 2 the RAVAS Scale *Fork 1 Warehouse* **Last Accessed** the RIS at the *2nd of January 2019 at 11:53:50* the RESTful API call was successful (*Ended*) and returned a measured weight of *9*.

License Notifications

The RIS Dashboard displays every License notification that requires an action, for example Figure 3 indicates that there is no license configured. The *Administrator* of the RIS needs to enter the license information, see *License Management*.

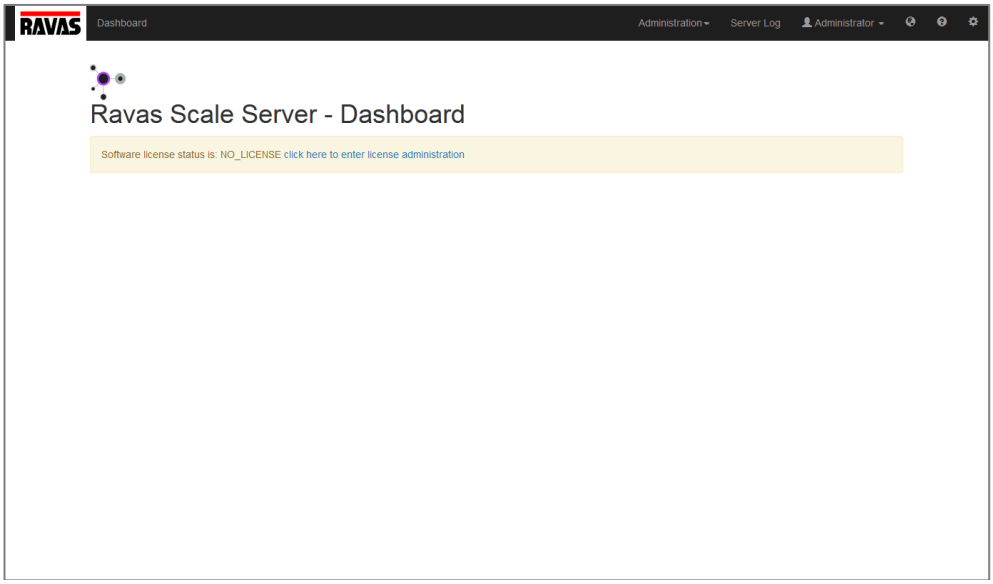

Figure 3 Dashboard with a License Notification

Service Log

The service log contains the service execution status of the services being executed by the RAVAS Scale Server in either RDC or RIS mode.

To consult the service log, perform the following steps:

- Click the **Service Log** menu (Figure 4)
- Click the pagination buttons to scroll through the service log (they appear when there is more than one page to show).

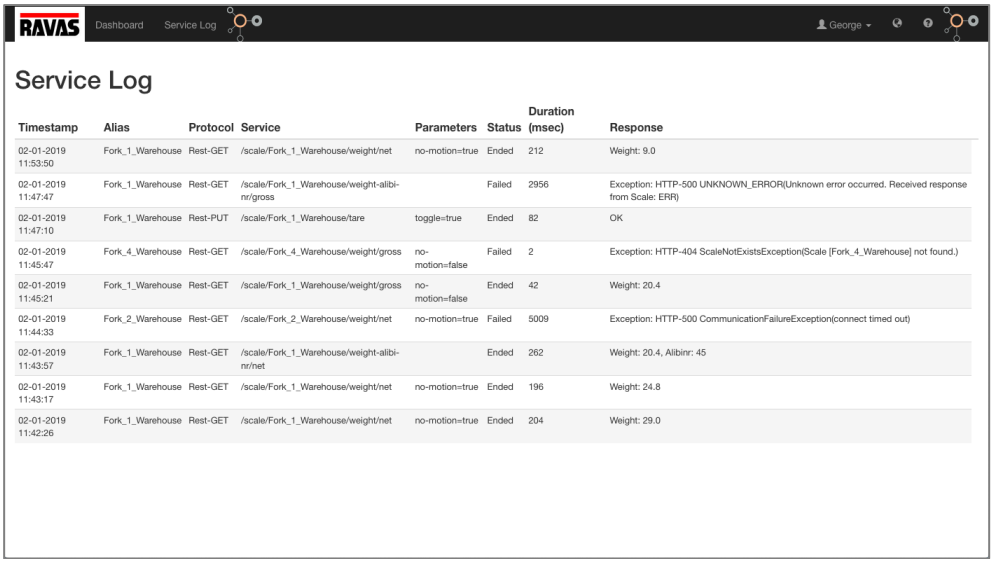

Figure 4 Service Log

The Service Log resides in the database and grows when the RIS is accepting messages from RAVAS Scales.

The RAVAS Scale server automatically executes a service log archive job according to the schedule specified by the parameter *rss.archive.servicelog.scheduler*.

The following data is persisted in the service log for the execution of each service:

- **Timestamp**, the timestamp of the RESTful API call.
- **Scale Alias**, a logical name describing which RAVAS Scale is involved in the RESTful API call. How to configure an alias is described in *Scales Management*.
- **Protocol**, the protocol being used. The protocol is defined as a combination of the message and transport protocol, e.g. Rest-GET specifies the REST protocol using a HTTP-GET.
- **Service**, the service being called, for the REST protocol this is the URI.
- **Parameters**, besides the URI additional parameters can be provided.
- **Status**, possible values are *Started*, *Ended* and *Failure*.
    - *Started* means that the service is invoked but the end (failure or success) is not registered.
    - *Ended* means that the service ended successfully.
    - *Failed* means that the service ended with a failure.
- **Duration (msec)**, shows the duration of the service execution in milliseconds.
- **Response**, the response returned to the mobile device that invoked the service.

User Profile

To access RIS Console you need to login with a **Username** and **Password.**

The default administrator **Username** is *Administrator* and the **Password** is *manage*.

Logout

Through the **User** menu a user can **Logout** when he is logged in.

Change Password

To change your password.

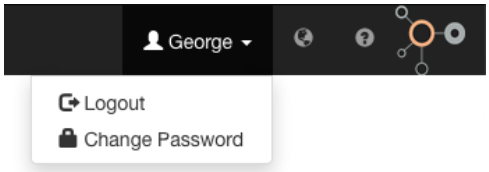

Figure 5 Regular User Profile

Change Language

The default language of the RIS Console is English. You can change the default language by clicking the language menu and selecting one of the following languages, see Figure 6

- *English*
- *Dutch*
- *German*
- *French*

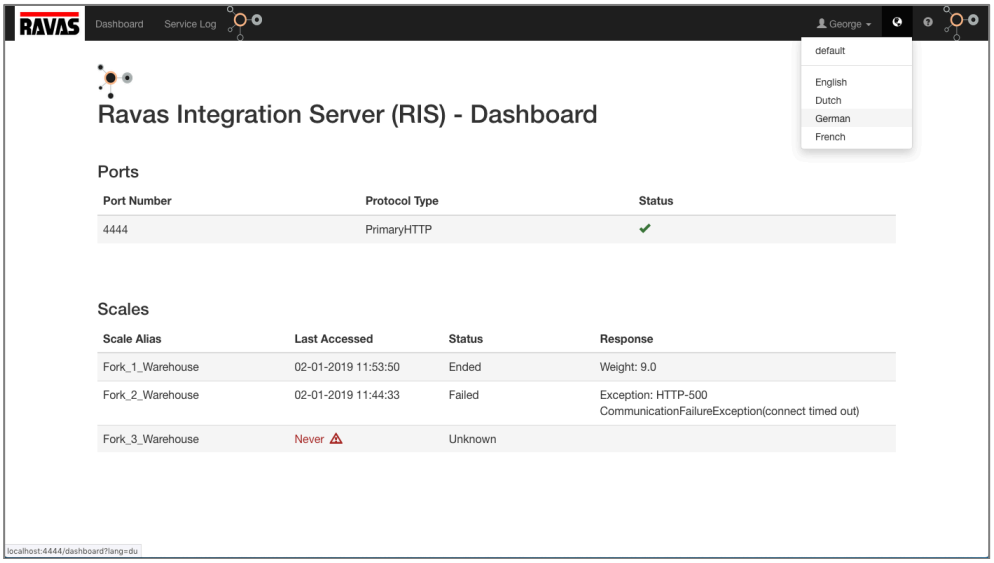

Figure 6 Change language menu

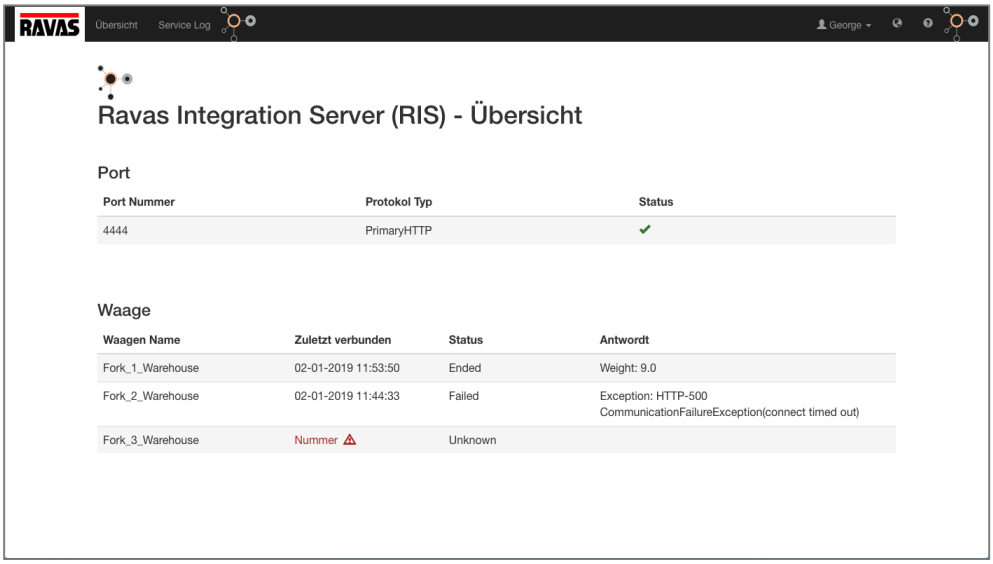

Figure 7 Changed language from English to German

Help

The help menu provides access to several resources that provide information on how to use the RAVAS Integration Server.

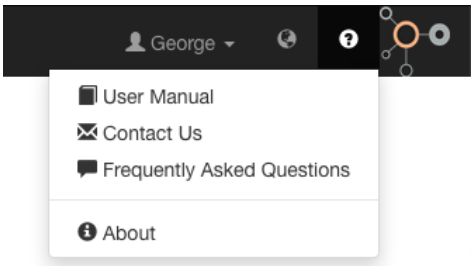

Figure 8 Help Menu

User Manual

This manual can be accessed through the **User Manual** menu item of the help menu.

Contact Us

Through the **Contact Us** menu item you can sent an email to the RAVAS Integration Server Support team.

Frequently Asked Questions

The **Frequently Asked Questions** menu provides a link to the RAVAS RDC/RIS Forum. On this forum one can:

- Access the **Frequently Asked Questions** to read questions and answers from other RIS users or even post your own question.
- Access the **Manuals and Video Material** to download a published document on the RIS and even video material demonstrating different functions of the RIS.
- Report **Incidents & Bugs** to the RIS development team. They will respond as soon as possible to you to provide you help you out.
- Report **Suggestions** to improve the RAVAS Integration Server so that it will better suit your needs.

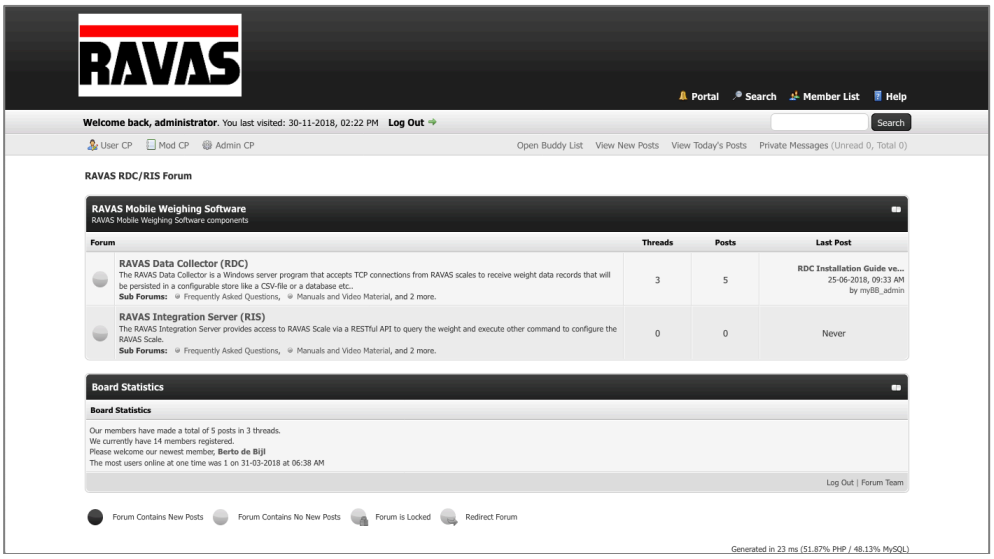

Figure 9 The RAVAS RIS/RIS Forum

If you do NOT have a user-id to access the forum, you can register yourself at the forum and a login and password will be sent to you.

About

The about page displays the version of the installed RAVAS Integration Server.

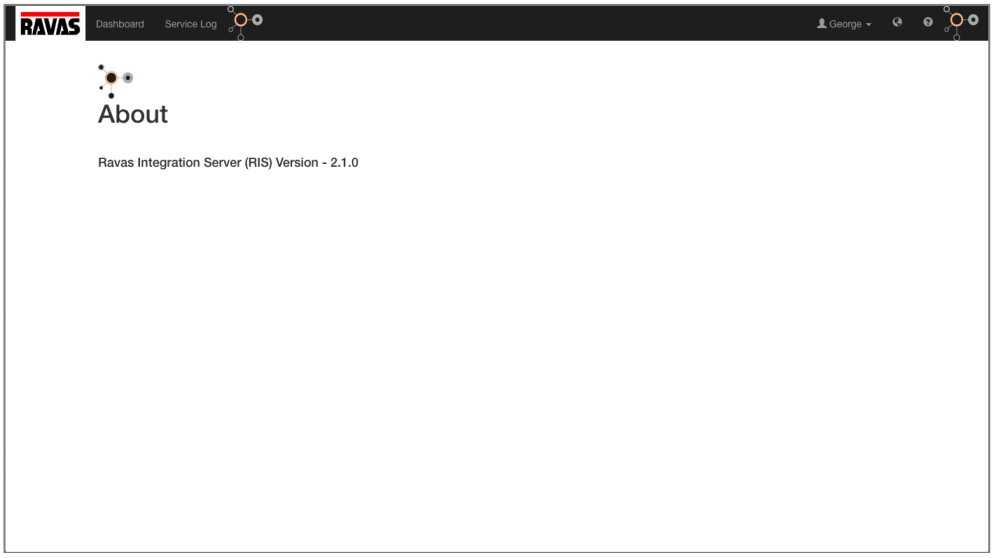

Figure 10 RIS About Page

Administrative Tasks

This section describes the following Administrative tasks for the RAVAS Integration Server:

- ❑ **User Management**
- ❑ **License Management**
- ❑ **Scales Management**
- ❑ **Test Communication**
- ❑ **Ports Management**
- ❑ **Server Parameters**
- ❑ **Clean-up Service Log**
- ❑ **Consult Server Log**
- ❑ **Change Logging Level Server Log**
- ❑ **Restart/Stop Server**

*To perform an Administrative task, you need to be logged in to the RIS as **Administrator**.*

User Management

As an Administrator you can create new users for using the RIS Console.

User Management provides the following functionality:

- Show Registered Users
- Create User
- Update User
- Delete User

The different functions are described in the following sections.

Show Registered Users

To see which users are registered, perform the following step:

- Click the **Administration/User Management** menu (Figure 11)

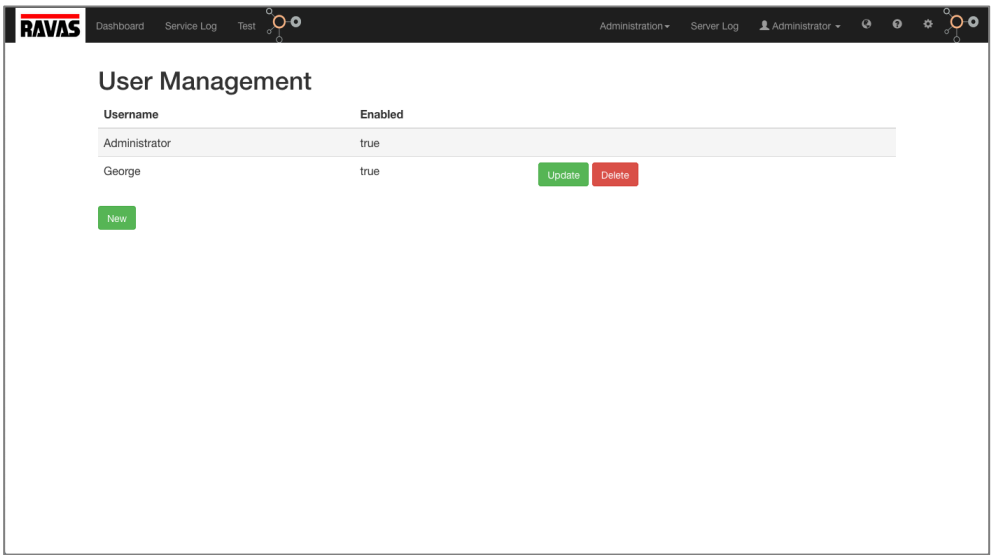

Figure 11 User Management - Registered Users Overview

Add User

To add a new user, perform the following steps:

- Click the **Administration/User Management** menu (Figure 11)
- Click NEW, see Figure 12

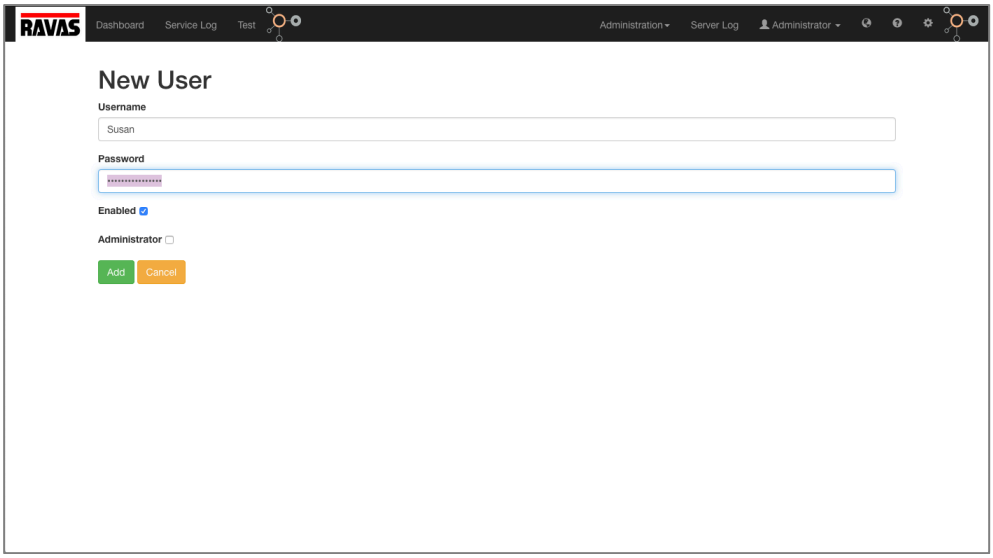

Figure 12 New User

- Enter the necessary user data:

  - **Username**, the username has to be unique.
  - **Password**, there are no restrictions on the length and/or content of the password.
  - **Enabled**, should the user be enabled for logging in to the RIS Console or not (yet). Checked is yes
  - **Administrator**, should the user have Administrator privileges. Checked is yes
- Click ADD

Update User

The following attributes can be updated for any user except for the *Administrator.*

> *It's not possible to update any attribute of or disable the **Administrator** user!*

To update an existing user, perform the following steps:

- Click the **Administration/User Management** menu (Figure 11)
- Click UPDATE for the user see Figure 13

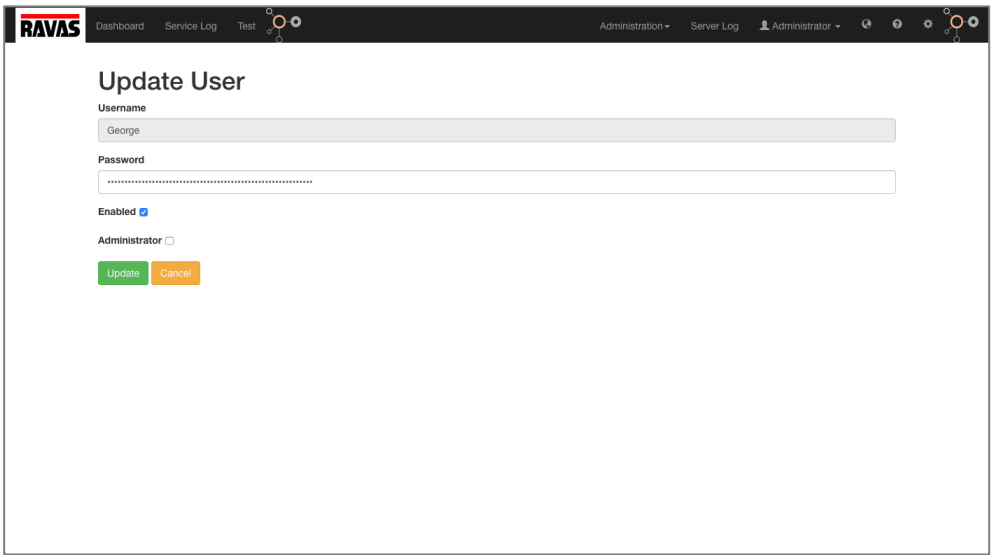

Figure 13 Update User

- Update user data:
  - **Password**, there are no restrictions on the length and/or content of the password.
  - **Enabled**, should the user be enabled for logging in to the RIS Console or not (yet). Checked is yes
  - **Administrator**, should the user have Administrator privileges. Checked is yes
- Click UPDATE

Delete User

> *It's not possible to delete the **Administrator** user!*

To delete a user, perform the following steps:

- Click the **Administration/User Management** menu (Figure 11)
- Click DELETE for the user you would like to delete, see Figure 14

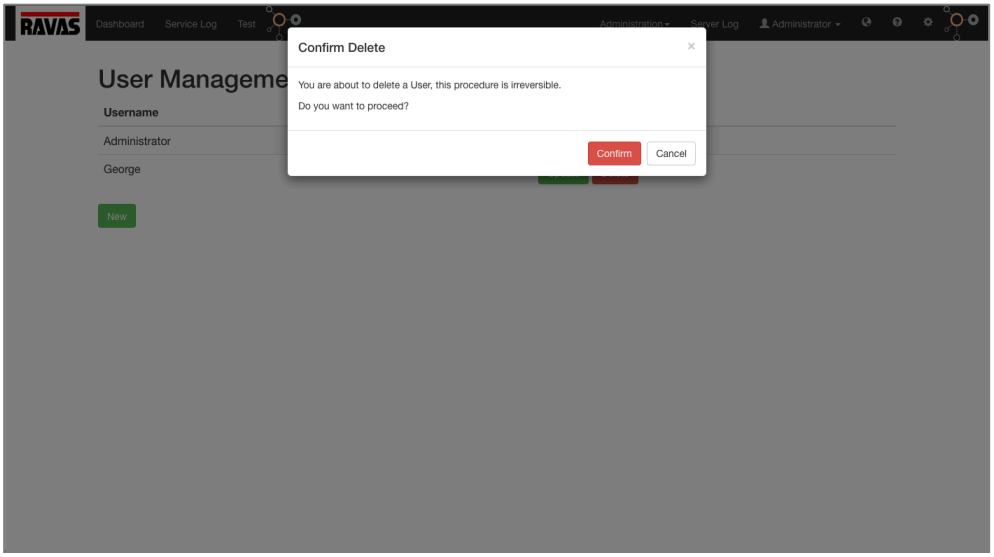

Figure 14 Delete User

- Click CONFIRM if you want to proceed with the delete, see Figure 14 or click CANCEL to return to the overview (Figure 11)

License Management

The RAVAS Integration Server requires a valid license for using the RESTful API to interact with the RAVAS Scales. This license is sent to you by your RAVAS Sales Representative.

License Management consists of the following functionality:

- Show license information
- Activate license by RIS software over internet
- Manual license activation

Show License Information

To show information about the current activated license perform the following steps:

- Click **Administration/License Management**
- The License Administration page is shown, see Figure 15

Figure 15 License information

Activate License by RIS software over Internet

The RIS license can be activated from the RAVAS Scale Server software if the pc/server has access to the internet, by performing the following steps:

- Click **Administration/License Management**
- The License Administration page is shown, see Figure 15
- Click **Activate License**
- The license activation page is shown, see Figure 16

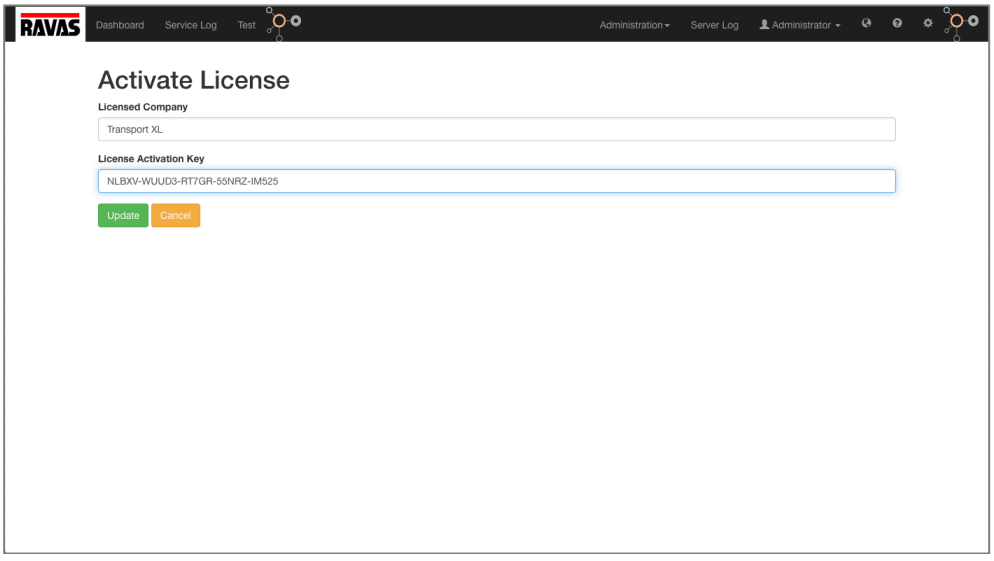

Figure 16 License Activation page

- Enter the following information:
  - **Licensed Company** – *your company name*
  - **License Activation Key** – *the activation key*

  The license activation key is contained in a file provided to you by your RAVAS Sales representative with the following file naming syntax: *license number*.l4j

- Click UPDATE
- The License Administration page is shown, see *Show License* Information

Manual License Activation

The RIS license can be activated manually from any pc/server having internet access and a browser, by performing the following steps:

- Start Browser
- Type in the URL: http://*server-ip-address*:4444/login
- Click **Administration/License Management**
- The License Administration page is shown, see Figure 15
- Click **Manual License Activation**
- The manual license activation page is shown, see Figure 17

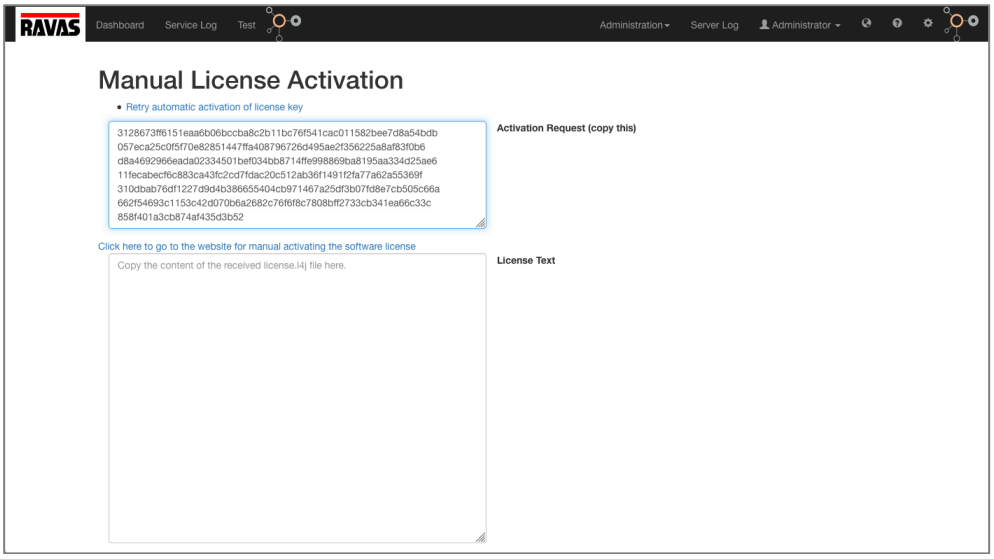

Figure 17 Manual License Activation page

- Copy the content of **Activation Request (copy this);**
- Click CLICK HERE TO GO TO THE WEBSITE FOR MANUAL ACTIVATING THE RIS LICENSE, see Figure 18. On this website (http://online.license4j.com/e/manualactivation), you must paste the copied data in the **License Activation Request Text:** field
- Click SUBMIT

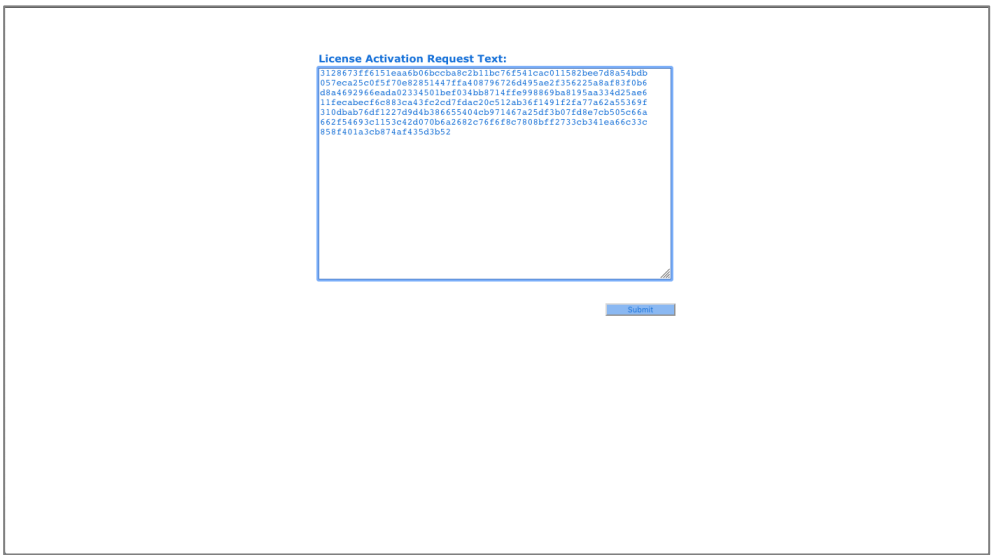

Figure 18 Website for manual activation of RIS License

- A file is created License.l4j
- The content of this file is needs to be copied into the **License Text** field of the Manual License Activation page, see Figure 19

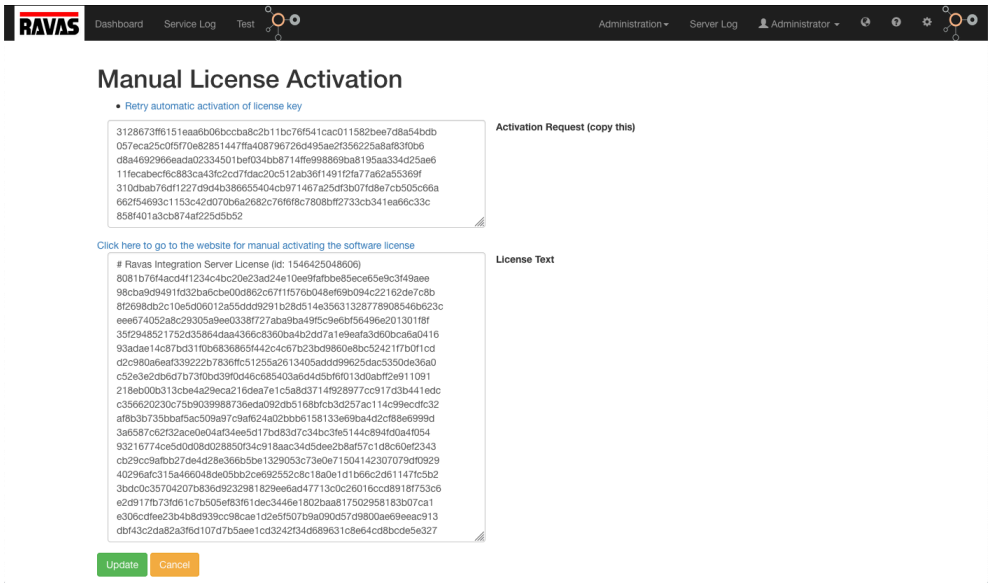

Figure 19 Manual License Activation Page - Enter License Text

The RIS is now able to accept calls to the RESTful API.

Scales Management

Scales Management enables the registration of RAVAS Scale aliases so that the RIS Console can refer to a RAVAS Scale by using a **Scale Alias** instead of a hardcoded **IP-address**.

Scales Management provides the following functionality:

- Show Registered Scale Aliases
- Create Scale
- Update Scale
- Delete Scale

The different functions are described in the following sections.

Show Registered Scale Aliases

To see all registered scales aliases, perform the following steps:

- Click the **Administration/Scales** menu (Figure 20)

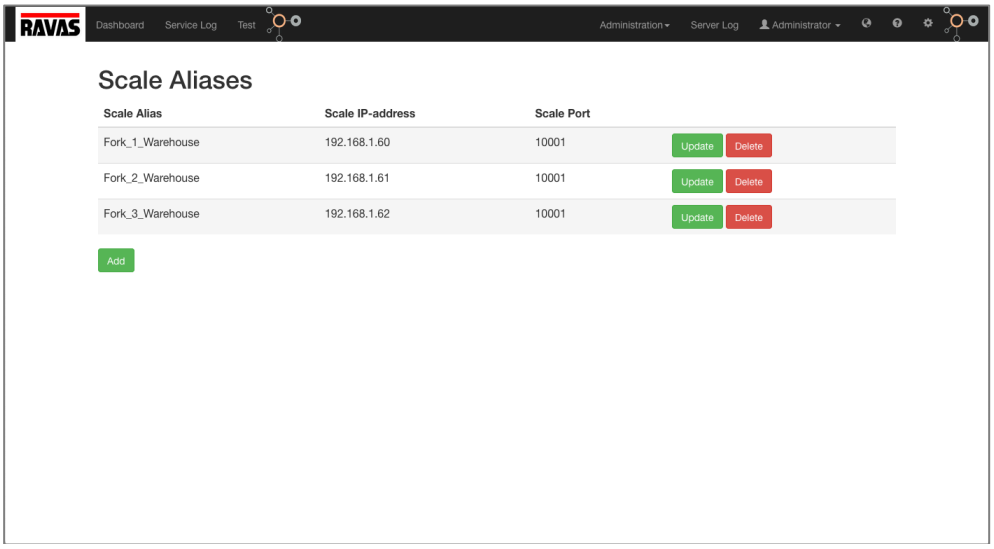

Figure 20 Overview Registered Scale Aliases

Create Scale

The regular way to register a new scale is to perform the following steps:

- Click the **Administration/Scales** menu (Figure 20)
- Click ADD, see Figure 21

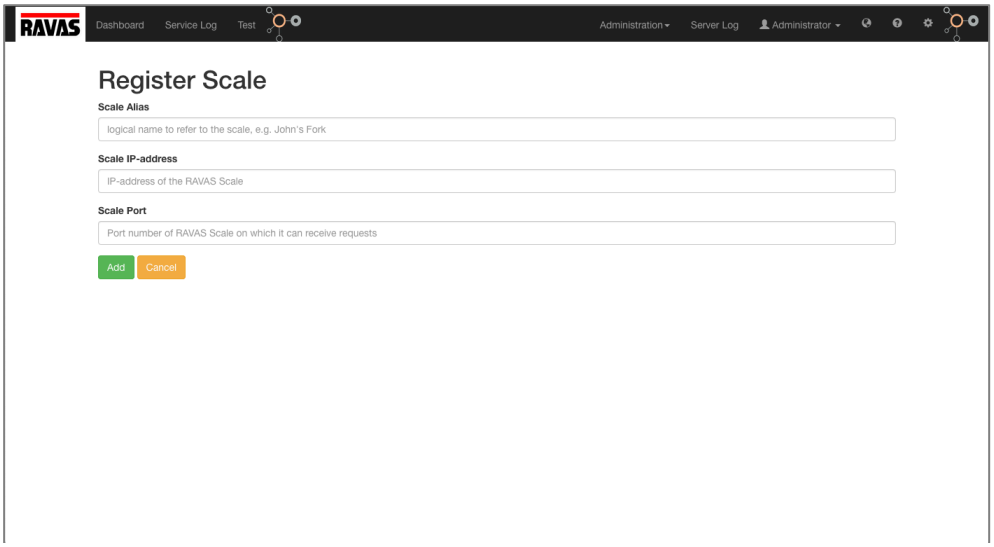

Figure 21 Register Scale

- Enter the following necessary data:
  - **Scale Alias**, any logical name that refers to the RAVAS Scale.
  - **Scale IP-Address**, the static IP-address of the RAVAS Scale. This is used by the RIS to address the RAVAS Scale.
  - **Scale Port**, the scale port is the configured port number on the RAVAS Scale on which it's listening for incoming requests .
- Click ADD.

Update Scale

To update a scale, perform the following steps:

- Click the **Administration/Scales** menu (Figure 20)
- Click UPDATE for the scale that needs to be updated, see Figure 21

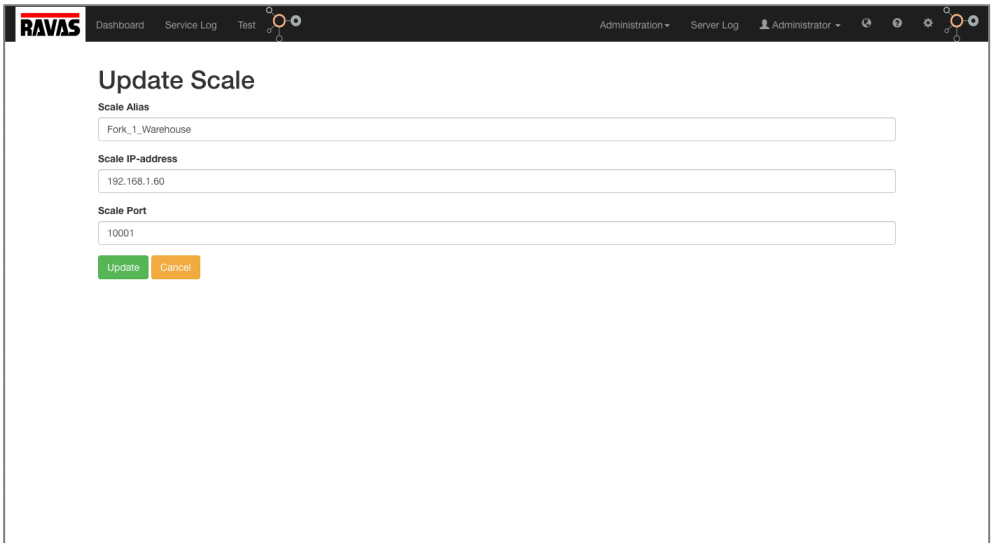

Figure 22 Update Scale

- Update the following data:
  - **Scale Alias**, any logical name that refers to the RAVAS Scale.
  - **Scale IP-Address**, the static IP-address of the RAVAS Scale. This is used by the RIS to address the RAVAS Scale.
  - **Scale Port**, the scale port is the configured port number on the RAVAS Scale on which it's listening for incoming requests .
- Click UPDATE.

Delete Scale

To delete a scale, perform the following steps:

- Click the **Administration/Scales** menu (Figure 20)
- Click DELETE for the scale you would like to delete, see Figure 23

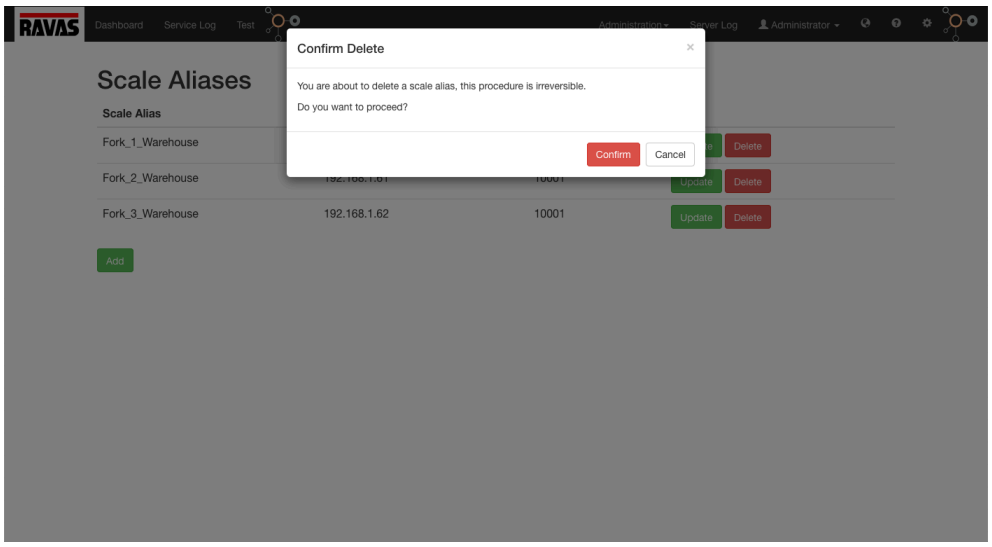

Figure 23 Delete Scale

- Click CONFIRM if you want to proceed with the delete, see Figure 23 or click CANCEL to return to the overview (Figure 20)

Test Communication

The communication between the RIS and a RAVAS Scale can be tested through the **Test** page by invoking the actual command on the RAVAS Scale as the RESTful API implementation would do.

To test if the RAVAS Scale is correctly configured, perform the following steps:

- Click the **Test** menu

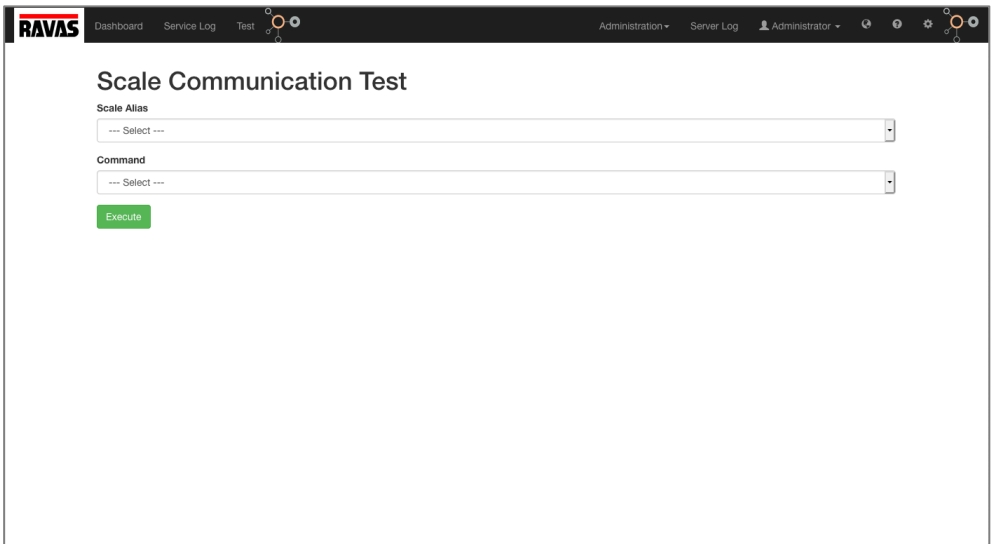

Figure 24 Test Communication between RIS and RAVAS Scale

- Select a configured scale from the **Scale Alias**, dropdown list

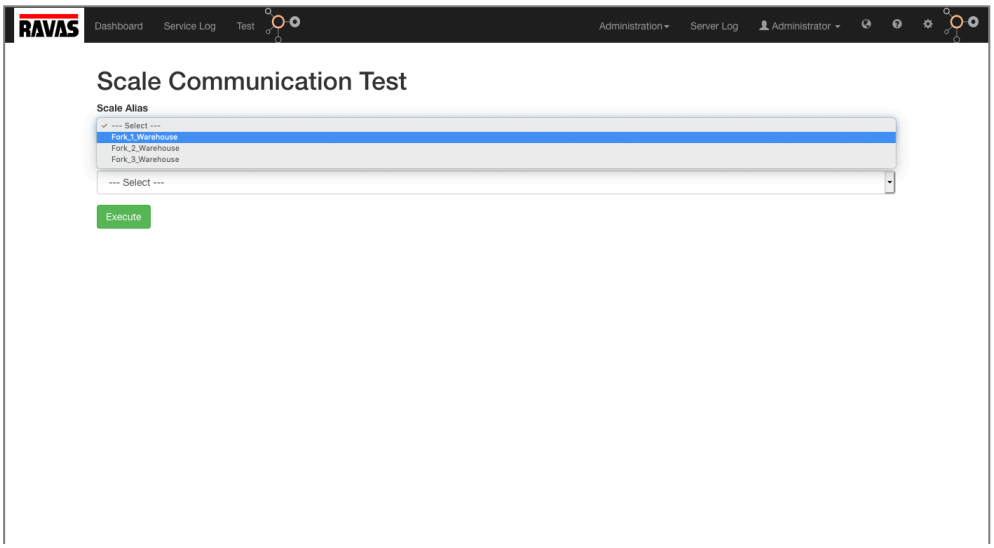

Figure 25 Select Scale Alias to test

- Select a command to execute from the **Command** dropdown list

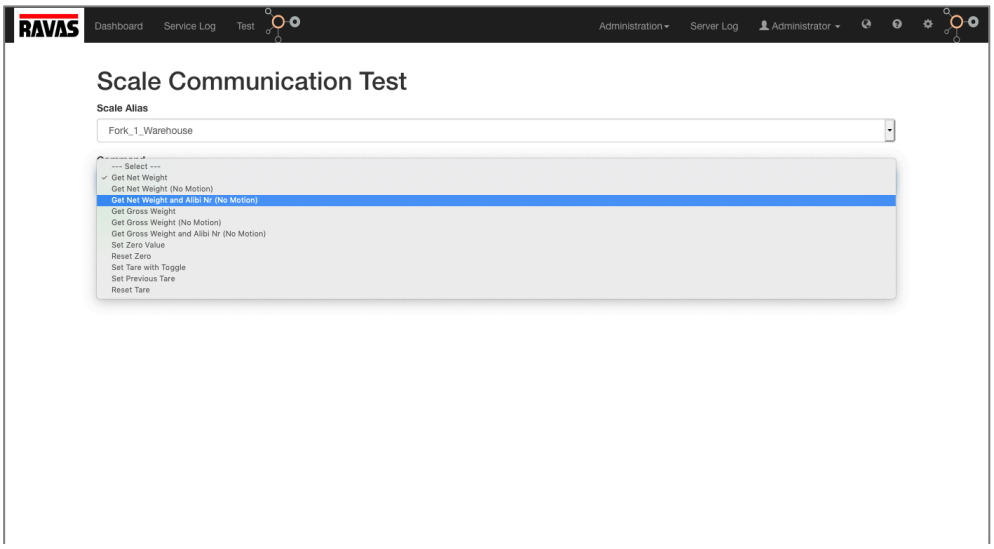

Figure 26 Select a command to execute

- Click EXECUTE

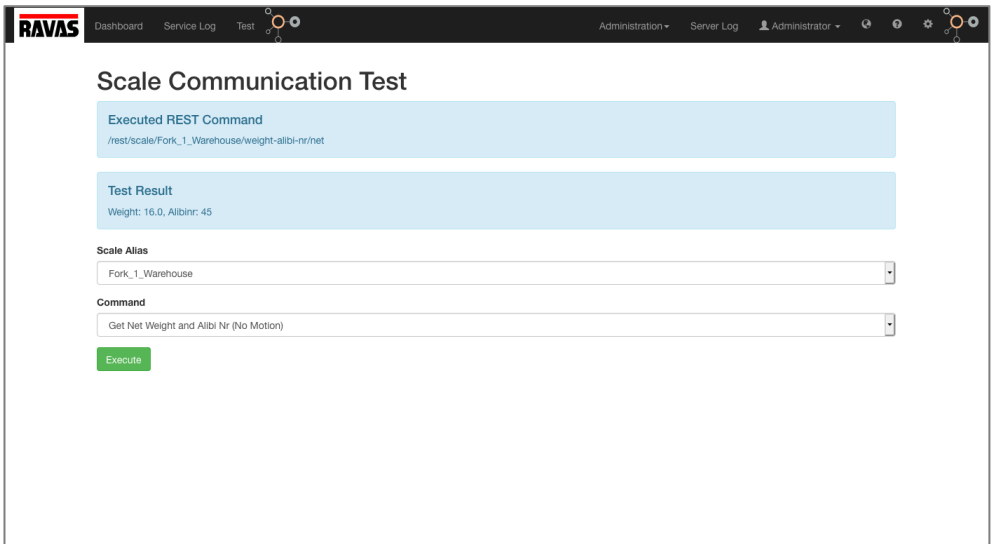

Figure 27 Executed command result

Ports Management

Ports Management supports the configuration of the primary port.

The primary port is the port being used to access the RESTful API and to access the IS Console.

Ports Management provides the following functionality:

- Show Configured Ports
- Update Port

The different functions are described in the following sections.

Show Configured Ports

To see all registered ports, perform the following steps:

- Click the **Administration/Ports** menu (Figure 28)

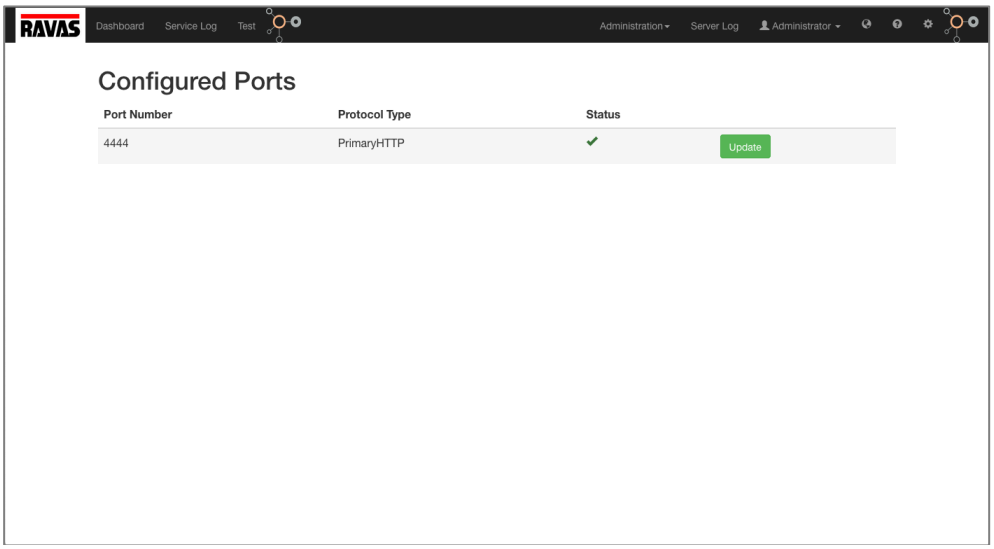

Figure 28 Ports Management Overview

Update Port

The PrimaryHTTP port cannot be deleted. The port number can be changed but requires a restart of the RIS, see *Restart/Stop Server*

To update the PrimaryHTTP port, perform the following steps:

- Click the **Administration/Ports** menu (Figure 28)
- Click UPDATE for the, see **Fout! Verwijzingsbron niet gevonden.**

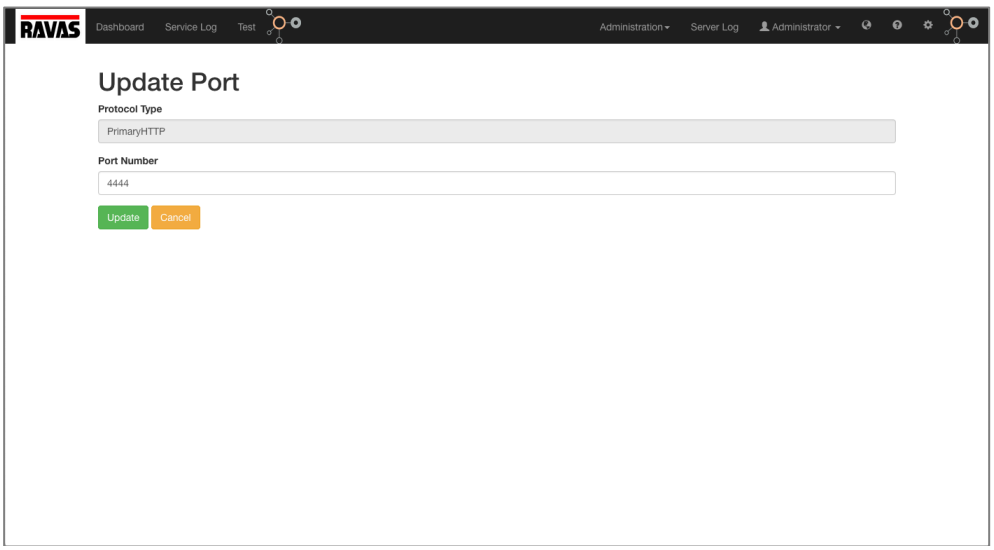

Figure 29 Update PrimaryHTTP port

- Update the required parameter:
    - **Port Number**, the port used to access the RIS web application and to deliver weight data records from the RAVAS App.

IMPORTANT: *if the PrimaryHTTP port is changed, then do verify if the firewall allows communication through this port.*

IMPORTANT: *Changing the PrimaryHTTP port requires a restart of the server to effectuate the change.*

Server Parameters

Some of the behaviour of the RSS/RIS server can be controlled through parameters which are defined in the file ./config/rss.properties. The parameter values can be changed through the RIS Console **Administration/Parameters** (Figure 30).

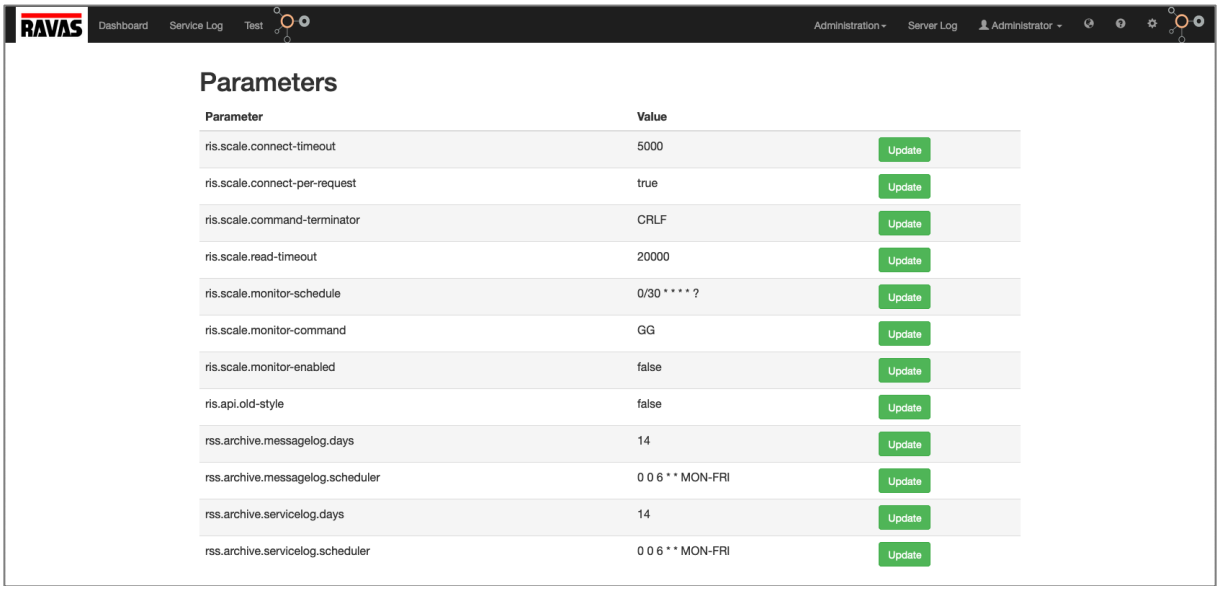

Figure 30 RSS Parameters

ris.scale.connect-timeout

The parameter **ris.scale.connect-timeout** is a numeric parameter that sets the number of milliseconds that the RSS will wait on establishing a successful connection with a RAVAS scale when running in the RAVAS Integration Server (RIS) mode before it raises an exception and registers the failure in the service log.

ris.scale.connect-per-request

The parameter **ris.scale.connect-per-request** is a boolean parameter (*true* | *false*) that specifies whether or not for each request a new connection should be established. Default value is *true*

If the parameter is set to *true* a new connection is established to the scale, next the command is executed and then the connection is closed.

If the parameter is set to *false* a new connection is only established if the connection is lost or closed, next the command is executed. The connection is not closed.

ris.scale.command-terminator

The parameter **ris.scale.command-terminator** is an alphanumeric parameter that specifies the termination string for each command send to a scale. Default value is *CRLF* (Carriage Return Line Feed).

ris.scale.read-timeout

The parameter **ris.scale.read-timeout** is a numeric parameter that sets the number of milliseconds that the RSS will wait receiving data from a RAVAS scale when running in the RAVAS Integration Server (RIS) mode before it raises an exception and registers the failure in the service log.

ris.scale.monitor.schedule

The parameter **ris.scale.monitor.schedule** specifies a *cron* configuration for the monitoring service of the RIS connections to the connected/configured indicators (Aliases) when running in the RAVAS Integration Server (RIS).Cron is a time-based job scheduler software utility. The default **cron** configuration for the monitoring is *0/30 * * * * ?* which means that every 30 seconds the monitoring service will send the configured PC-protocol command, see parameter *ris.scale.monitor-command*.

ris.scale.monitor-command

The parameter **ris.scale.monitor-command** specifies the indicator PC-protocol command that the RIS executes whenever it monitors the connection of the RIS to the connected/configured indicators, see *ris.scale.monitor.schedule*.

ris.scale.monitor-enabled

The parameter **ris.scale.monitor-enabled** is used to enable or disable the monitoring of the connected/configured indicators, see *ris.scale.monitor.schedule*. This parameter should only be used when parameter *ris.scale.connect-per-request* is set to *true.*

ris.api.old-style

The parameter **ris.api.old-style** is used to support backwards compatibility for those who have an existing implementation consuming the RIS API up to version 2.1.6. Error response codes have been renamed and some new ones have been introduced, see RIS API documentation. Your application consuming the API service must be adapted to support the new API. Too overcome the time needed to adapt your application and between the moment of installing the RIS version 2.1.9 and above, this parameter can be used by setting it to *true*. The default value of this parameter is *false.*

rss.archive.messagelog.days

The parameter **rss.archive.messagelog.days** specifies after how many days a message log record after creation is archived. The service for archiving is scheduled automatically using the schedule as defined by parameter *rss.archive.messagelog.scheduler*.

rss.archive.messagelog.scheduler

The parameter **rss.archive.messagelog.scheduler** specifies a *cron* configuration for the message log archive job. Cron is a time-based job scheduler software utility. The default **cron** configuration for the message log archive job is *0 0 6 * * MON-FRI* which means that every Monday till Friday the job will run at 6:00 AM and zero seconds.

rss.archive.servicelog.days

The parameter **rss.archive.servicelog.days** specifies after how many days a service log record after creation is archived. The service for archiving is scheduled automatically using the schedule as defined by parameter *rss.archive.servicelog.scheduler*.

rss.archive.servicelog.scheduler

The parameter **rss.archive.servicelog.scheduler** specifies a *cron* configuration for the service log archive job. Cron is a time-based job scheduler software utility. The default **cron** configuration for the service log archive job is *0 0 6 * * MON-FRI* which means that every Monday till Friday the job will run at 6:00 AM and zero seconds.

Clean-up Service Log

The Service Log will grow when the RIS is executing services that are triggered through the RESTful API. This will consume disk space and may result in consuming all available disk space if the message log is not cleaned up.

To prevent this the RAVAS Scale server automatically executes a service log archive job according to the schedule specified by the parameter *rss.archive.servicelog.scheduler*.

The clean-up can also be executed manually to free up allocated diskspace.

To clean-up the service log manually, perform the following steps:

- Click the **Administration/Service Log** menu (Figure 31)

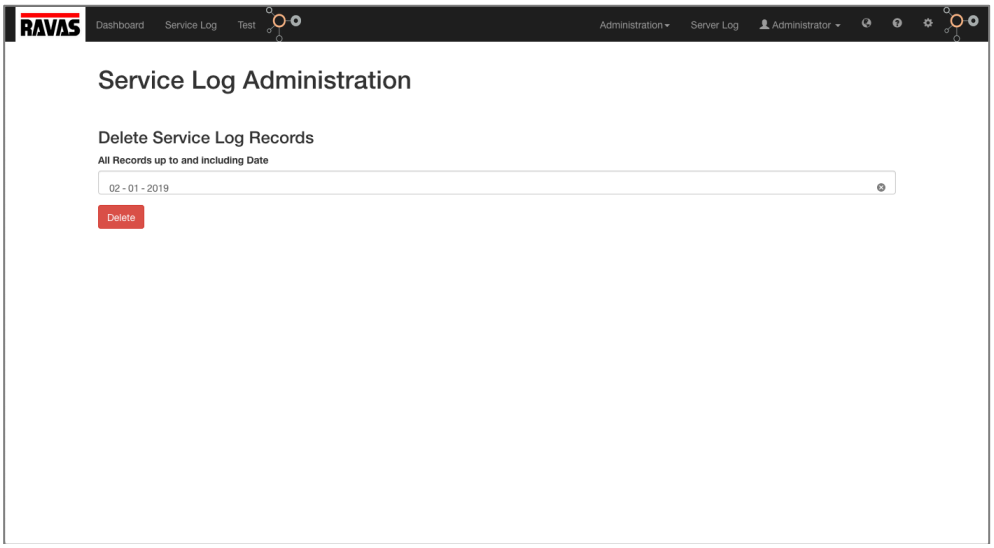

Figure 31 Service Log Administration

- Specify the **All Records From Date** and use the format *dd-mm-yyyy* or use the date picker, see Figure 32.

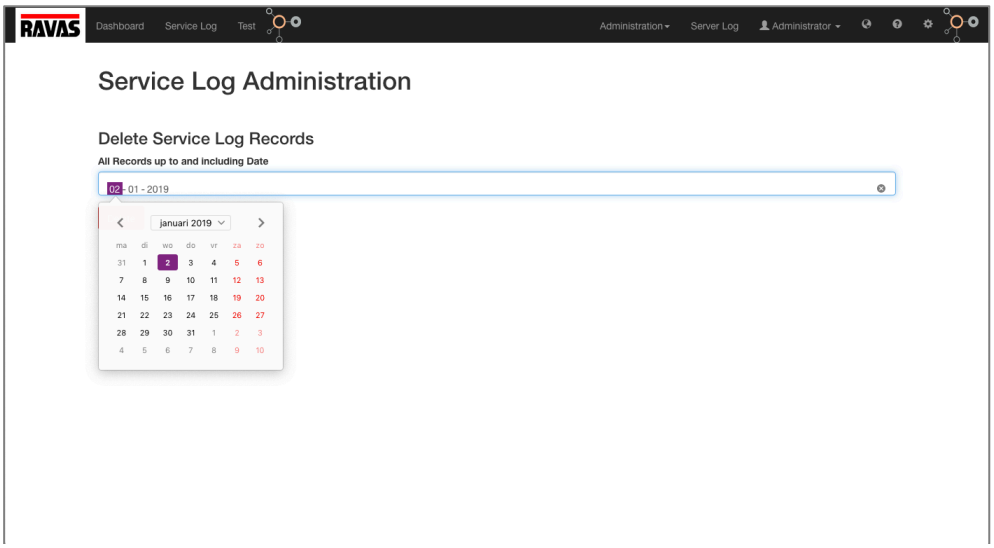

Figure 32 Clean-up Service Log - Specify date

- Click DELETE and all records older than or equal to the specified date are being deleted from the Service Log. Undoing this operation is not possible.

Consult Server Log

The server log contains all RIS system messages, both information and errors. If the RAVAS Integration Server is not behaving in the expected way, then consult the Server Log to see if there is any error or other information that may help you in solving the issue.

To consult the server log, perform the following steps:

- Click the **Server Log** menu (Figure 33)
- Click the pagination buttons to scroll through the server log (they appear when there is more than one page to show).

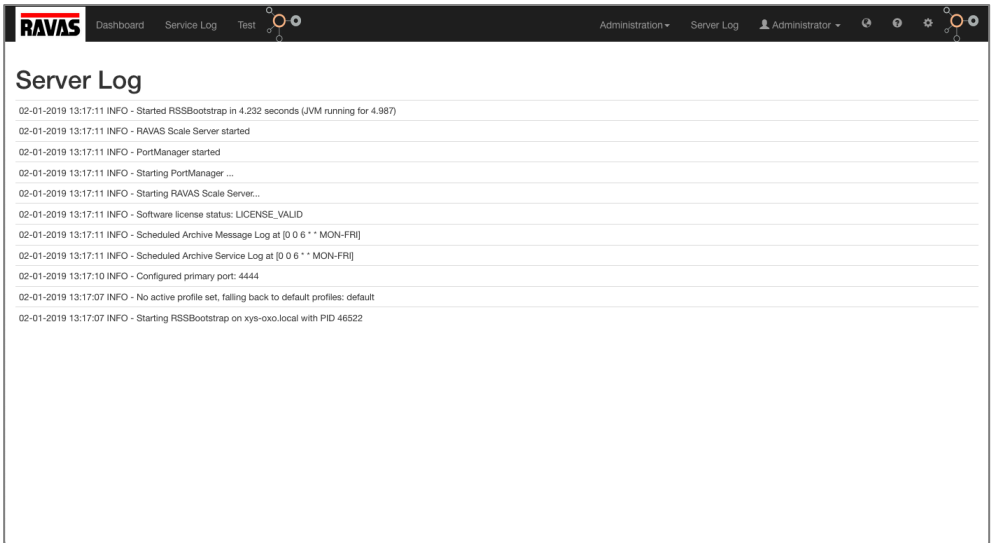

Figure 33 Server Log

The server log resides in the *logs* folder in the folder where the RIS is installed (default: *C:\Program Files (x86)\RAVAS Europe BV\Ravas Scale Server*).

Each day a new server log file is created. The log files are kept for five days, then will be discarded.

Change Logging Level Server Log

The amount of information logged in the server log is depending on the configured logging level of the RIS. The default configuration of the logging level for the RIS is suitable for regular use of the RIS.

In the case of problems regarding the operation of the RIS, the logging level can be adjusted to produce more detailed logging information. The following logging levels are supported:

- ERROR, only log errors that occur
- WARN, log warnings and error messages
- INFO, log informational, warning and error messages
- DEBUG, log more detailed, informational, warning and error messages
- TRACE, log all messages that the RIS can write to the log.

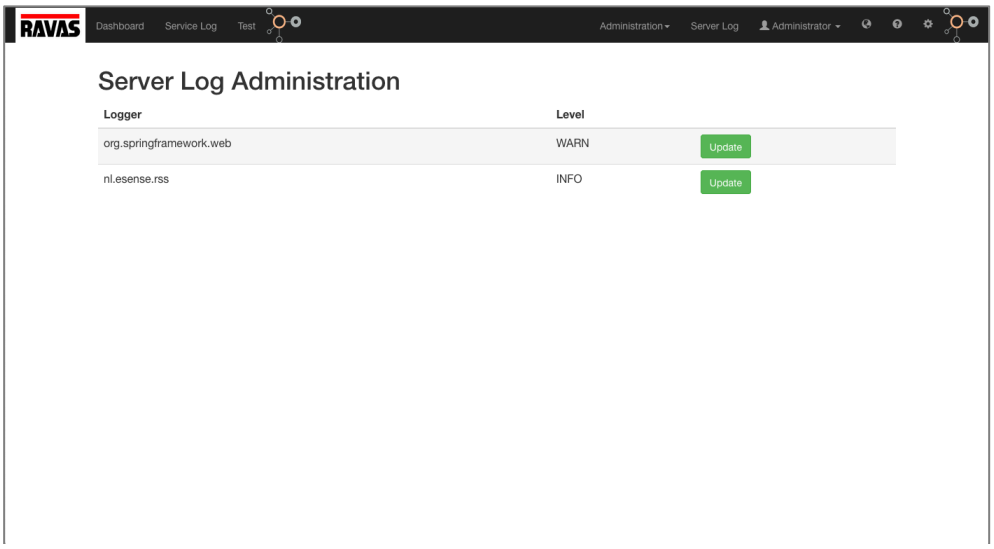

Figure 34 Server Log Logging Level

To clean-up the logging level of the RIS perform the following steps:

- Click the **Administration/Server Log** menu (Figure 34)
- Click the UPDATE button of the **Logger** who's logging level must be adapted.

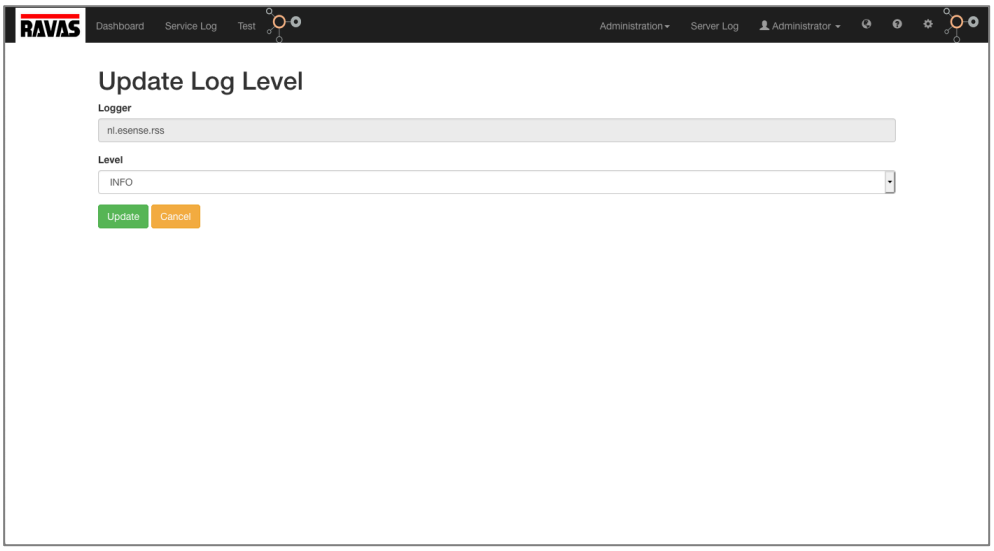

Figure 35 Update Log Level

- Change the logging **Level**.
- Click UPDATE to confirm the change or CANCEL to return without changing the logging level.

Restart/Stop Server

As an Administrator you can restart or stop the RAVAS Integration Server from the RIS Console.

A restart is typically done after a configuration change of for example the primary port of the RIS Server or after the activation of a new license key.

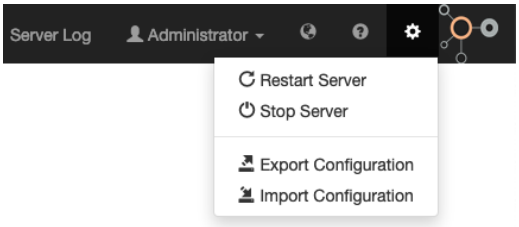

Figure 36 Restart/Stop RIS Server

Before the server is stopped or restarted a confirmation of the requested operation is asked, see Figure 37.

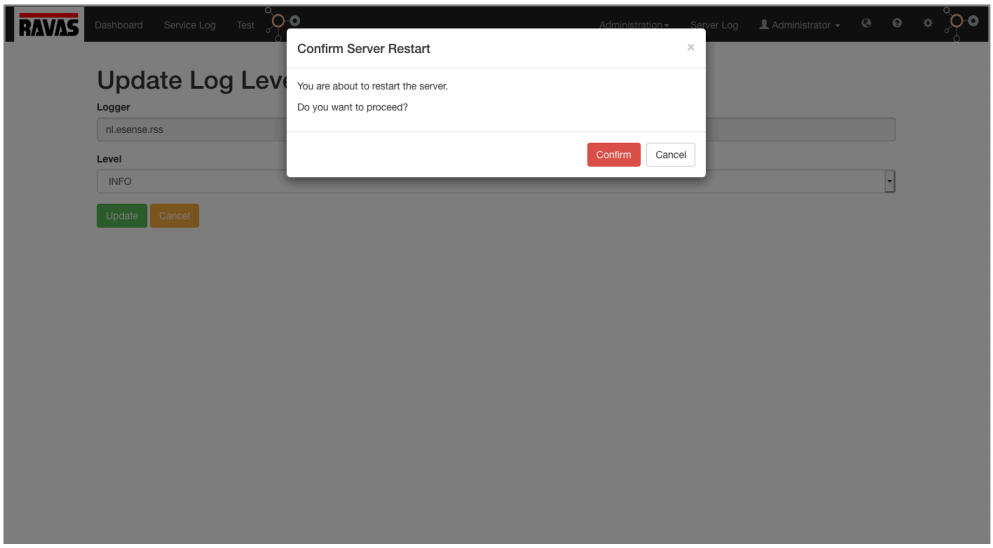

Figure 37 Confirm restart/stop server operation

Export/Import Server Configuration and Message Log

As an Administrator you can export the following configuration items of the server to a text file:

- Defined Users
- License Information
- Scales
- Parameters
- Ports

Besides the configuration of the server the content of the **Message Log** is also exported.

The export results in the creation of the file *RSS_DataExport.dat* that is written to the *export* folder in the directory where the RIS is installed (default: *C:\Program Files (x86)\RAVAS Europe BV\Ravas Scale Server*).

Creating a configuration export file is useful when you need to install an upgrade of the RIS and you do not want to reconfigure the RIS or you simply want to create a backup of the configuration in the case that the configuration needs to be reset.

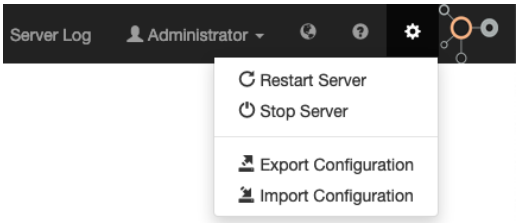

Figure 38 Export/Import Server Configuration and Message Log

Before the server configuration and message log is exported or imported a confirmation of the requested operation is asked, see Figure 37.

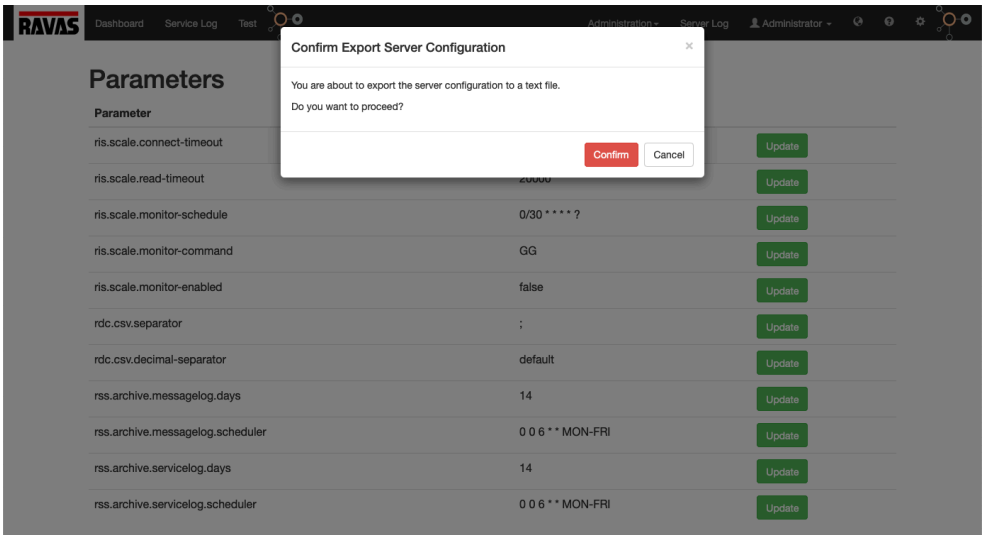

Figure 39 Confirm export/import server configuration