How to automatically email a device meter reading report

Automatic emailing of reports are scheduled tasks that are executed by the PDServer. Before configuring a Report Export, ensure that you have set up an Email Account.

Create a Report Export

1. Open Resource Manager.
2. Navigate to **Scheduled Tasks** > **Report Exports**.
3. In the right hand pane, click **Add**.
4. Enter a descriptive name for the Report Export in the **Report Export Name** textbox (e.g. Monthly meter readings).
5. Choose the PDServer on which the scheduled task will execute from the **Execute on PDServer** dropdown.
6. In the **Export format** frame, choose the file format in which the report will be exported.
7. In the **Destination** frame, choose the **Email** option.
8. Choose the Email Account that will be used to send the emails from the **Account** dropdown.
9. In the **To…** textbox, enter the email address to which the Report Export will be sent (enter multiple recipients separated by a **;**).
10. Enter a Cc and Bcc if required.
11. Enter a subject for the email. Make use of the run-time auto-replace tags. These tags will be replaced with run-time information such as the **'Run' date** or the **Report name**. Place the cursor at the position in the text box where the tag should appear and then click the button representing the tag.
12. Enter a message for the email. The auto-replace tags can also be used here.
13. Enter a **File name** for the attachment (auto-replace tags can used here).
14. Click **Next**.
15. In the **Schedule Range** frame, choose the **Start date** (normally it is left as the default – today). The scheduled task will begin execution on the start date if it adheres to the Schedule Pattern.
16. Choose the **Execute time**. This is the time of day the report will be executed on the days governed by the Schedule Pattern.
17. In the **Schedule Pattern** frame, choose whether the Report Export will be emailed **Hourly, Daily, Weekly, Monthly** or **Annually.** Enter the relevant parameters in the frame to the right.
18. Click **Next**.
19. Navigate to **Device Readings** > **Counter Values**.
20. Click **Next**.
21. In the **Report Type** frame, choose from the following options:
    - **Show every reading for each device**. Readings are taken every hour by default. This setting will show every reading taken between the **From** and **To** dates.
    - **Show the last reading for each device.** Shows the most recent meter reading prior to the **To** date.
    - **Only show the difference in counter totals between the first and last readings.** Takes the most recent reading prior to the **To** date, and subtracts the reading just after the **From** date to show the difference.
22. In the **Time Period** frame, we define the parameters to determine the Start Date, which is the earliest date from which data will be included. The End Date is set as the date of execution. Specify the number of hours, days, weeks, or months before the execution date to establish the Start Date.

23. If you would like only a subset of devices included in the report, click the **Filter Devices** tab. Tick the **Filter devices** checkbox and then tick the devices that must be included in the report.
24. Click **Finish**.

Test the Report Export email by forcing it to execute now

Instead of waiting for the first execution according to the schedule, we can force it to execute now to confirm that all our settings are correct.

1. Navigate to **Scheduled Tasks** > **Report Exports**.
2. Right click on the newly created Report Export in the right and choose **Execute on next refresh**.
3. The window that opens will ask if you want to set a "Date To" date other than the current date & time. This date is used to calculate the data range. For example, if the current date is the 15th of March, but you want data for the month of February, you would choose **Set to specific date and time** and choose **01/03/20xx 00:00:01** from the date picker. Provided the Time Period is set to 1 Month in the Report Export, the report will contain data for the month of February only.
4. Now that we have specified that this Report Export must execute on the next refresh of the PDServer, we must refresh the PDServer. Click the **PD Servers** node on the left.
5. Right click the PDServer on which the Report Export is set to execute and choose **Refresh**.
6. Wait a minute or two, then go back to **Scheduled Tasks** > **Report Exports**. Check the **Last Run** column. If it shows a date that occurred in the last few minutes then we know it executed successfully.

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