HEXAGON

Q-DAS Q-DM

Upload settings

WEB - Applications

FAQ
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HxGN
Quality Assurance

Information about this document

Parts of this document may be automatically translated.

Document History

Version	Date	Author(s)	Modifications / Remarks
1.0	2021-01-01	GA	Initial release (Q-DAS1473/13.0.2.1)
1.1	2022-05-13	GA	Release version 13.0.5.1 (Q-DAS1473/13.0.5.1)
1.0	2022-06-03	GA	Rework (Q-DAS1689/14.0.1.1)
1.1	2022-10-10	GA	Rework (Q-DAS1689/14.0.2.2)
	2023-09-29	BA	Release version 14.0.4.1 (updated QDas-1689)

CONTENTS

1 Start upload application for RTM/PLV

To create the required RTM/PLV upload or reporting jobs, the "Q-DAS-WEB Launcher-Client-DEFAULT" must be started on the server. PLV / RTM can only be purchased together with Q-DM Datamanagement (Q-DM). If Q-DM is opened and the installed PLV license is recognized, the corresponding reporting job can be created in Q-DM in addition to the upload.

The required Q-DM application is then available via launcher:

This documentation is created for version 14.0.4.1 and higher. The variant of data compression up to version 14.0.1.4 is no longer discussed. Chapter 6 addresses the restructuring of services for this purpose

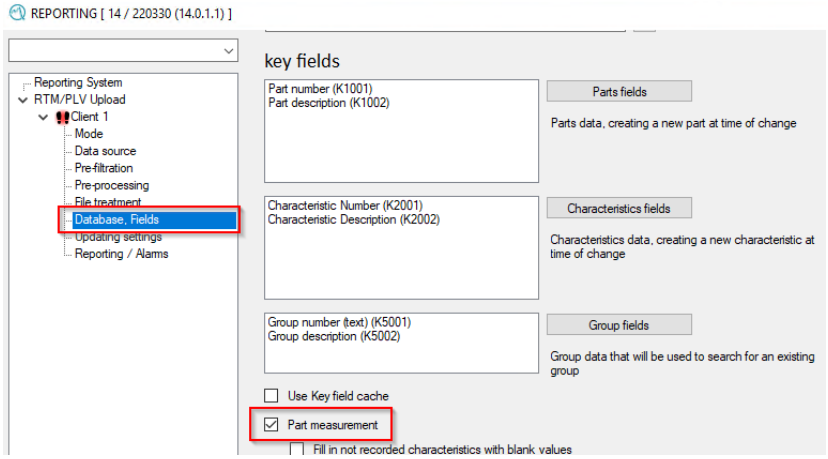
2 Create RTM/PLV Upload

The required RTM/PLV upload must be configured accordingly, like all other Q-DM uploads. For example, a database must be stored, etc. A detailed description of this can be found in a separate FAQ.

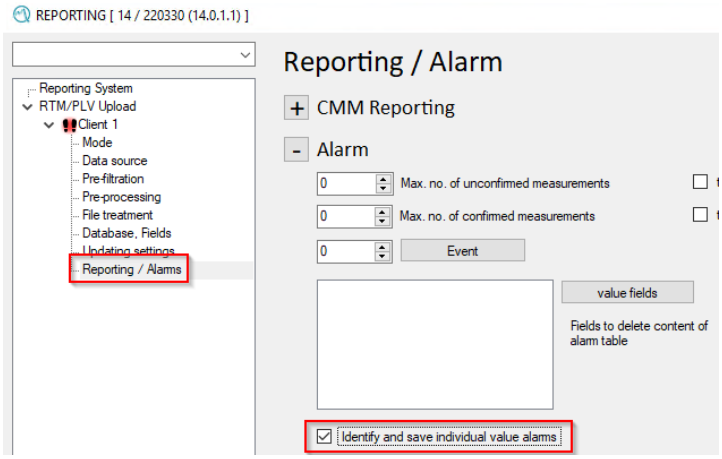
2.1 General upload settings for RTM / PLV

The following options must be set in the upload for the web applications:

2.1.1 Part measurement



2.1.2 Identify and save individual value alarms

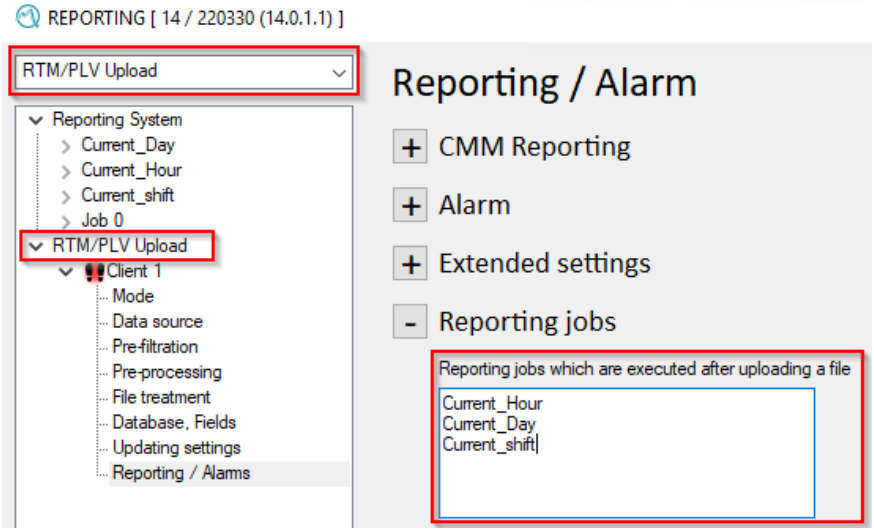


The RTM / PLV application checks whether there are new entries in the stored single value alarms for the selected machine. In this case, the corresponding data set with the last X measured values is loaded. The RTM / PLV application visualizes data of a specific additional data field (K0010/machine). The prerequisite for this is that the catalogue is necessarily drawn from the database.

Since version 14.0.1.x, selections or parts from the DB can also be loaded in the RTM

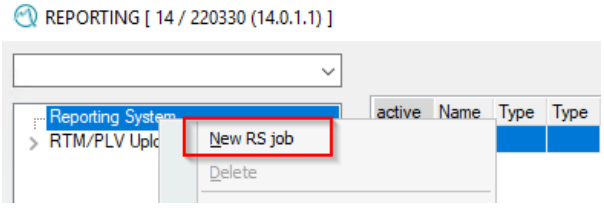
2.2 Add PLV compression jobs in upload

To ensure that all relevant measured values for the PLV WEB application are compacted, the three PLV compression jobs (see chapter 3) must be stored in the corresponding upload. The jobs stored here are executed after uploading a file.

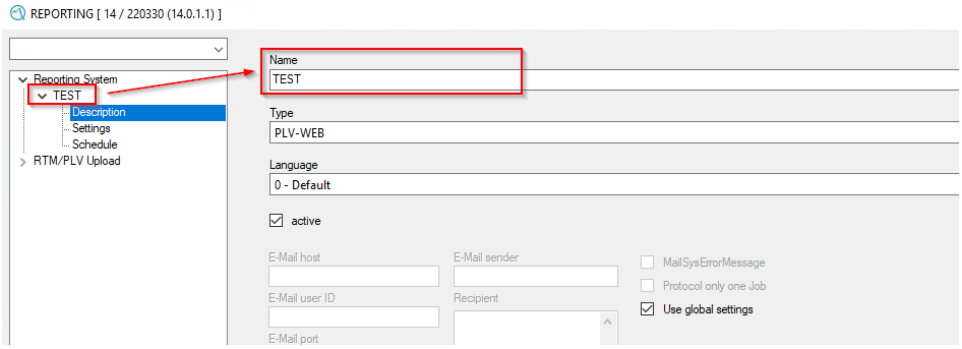


3 Create PLV compression Jobs

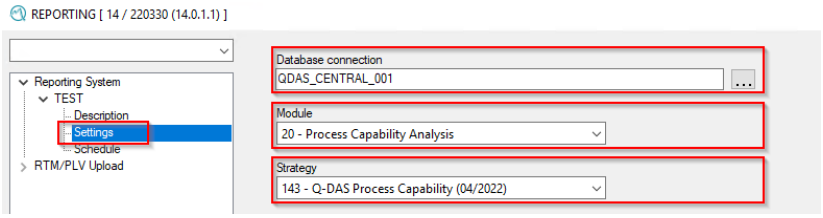
Via right click on "Reporting System" a new reporting job can be created.



Now the reporting job name is assigned, which must then be added to the PLV upload as a summarization job.



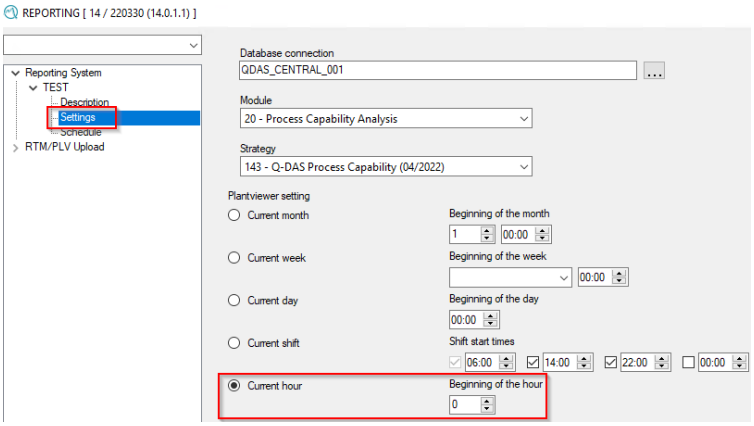
Among the settings, the database connection, the module and the evaluation strategy (the exact same as for the RTM / PLV upload itself) are required.



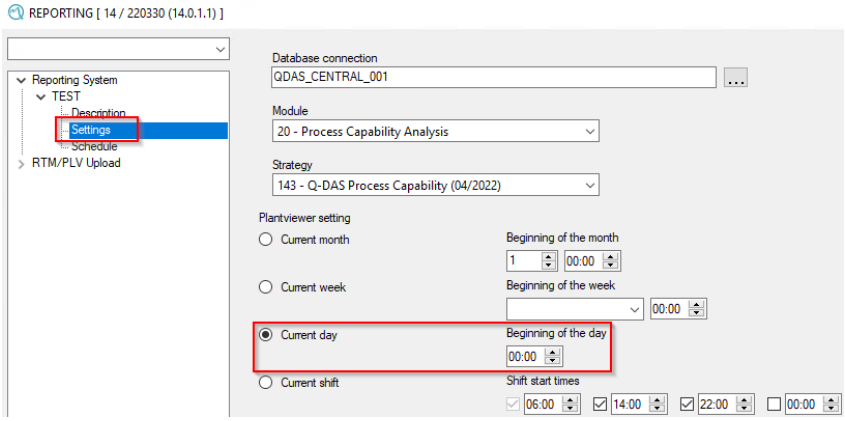
3.1 Periods to be added for PLV summarization jobs

To ensure that all time periods available in the PLV are taken into account, three reporting jobs must be available and stored in the corresponding PLV upload.

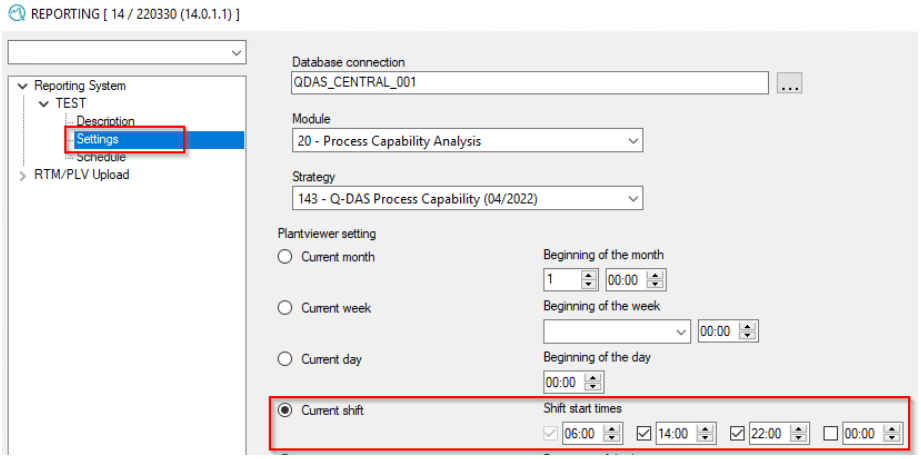
3.1.1 Current hour



3.1.2 Current day

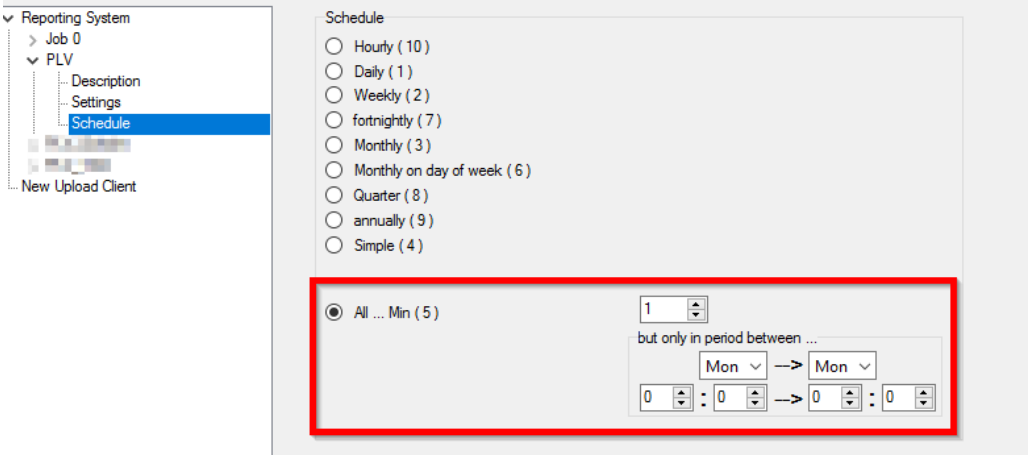


3.1.3 Current shift



3.2 Time schedule PLV compaction jobs

Under "Schedule", select the smallest time unit for all three PLV compaction jobs: "Every 1 minute":



3.3 Cleaning up the already condensed alarms

As of version 14.0.2.1, 2 services are created for the PLV. One is the service for the upload, which writes into a new table in the database which measurements are to be compressed for the PLV for which job. A second service processes this table and moves the tasks into another table. To ensure that this table does not overflow and thus cause possible memory problems, the processed tasks must be cleaned up cyclically.

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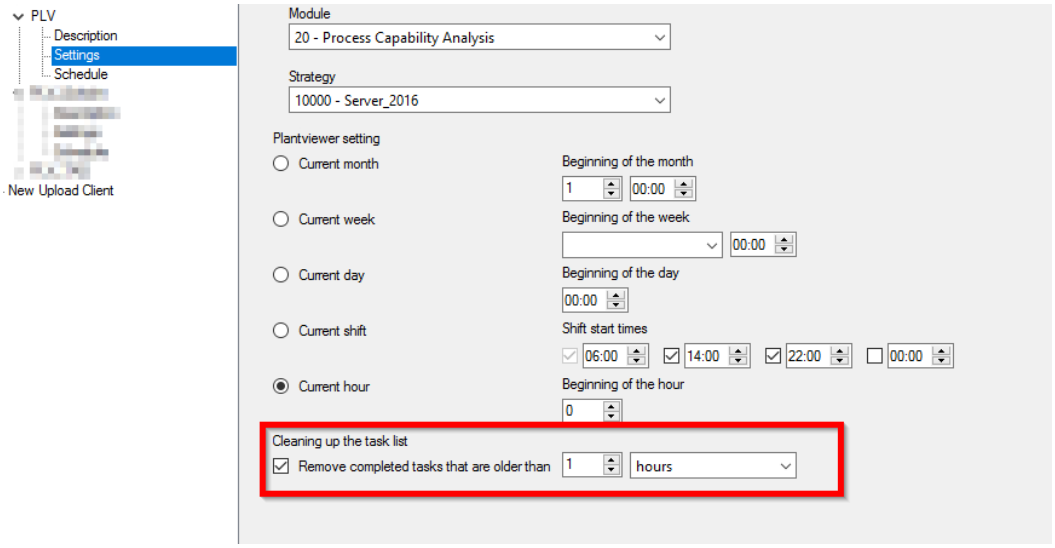
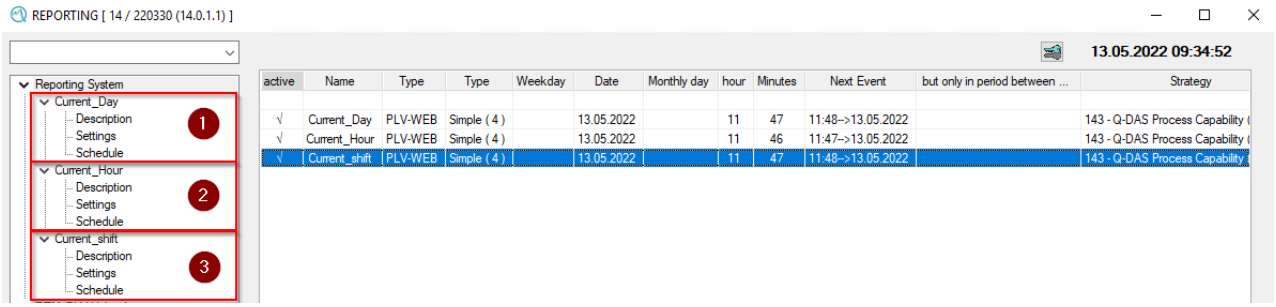


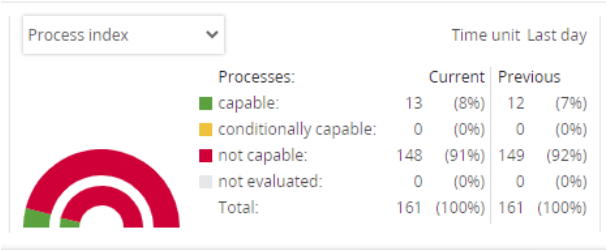
3.4 PLV Compaction Jobs Overview

To ensure that all available time intervals are correctly used in the PLV-WEB, three PLV summarization jobs must be available.



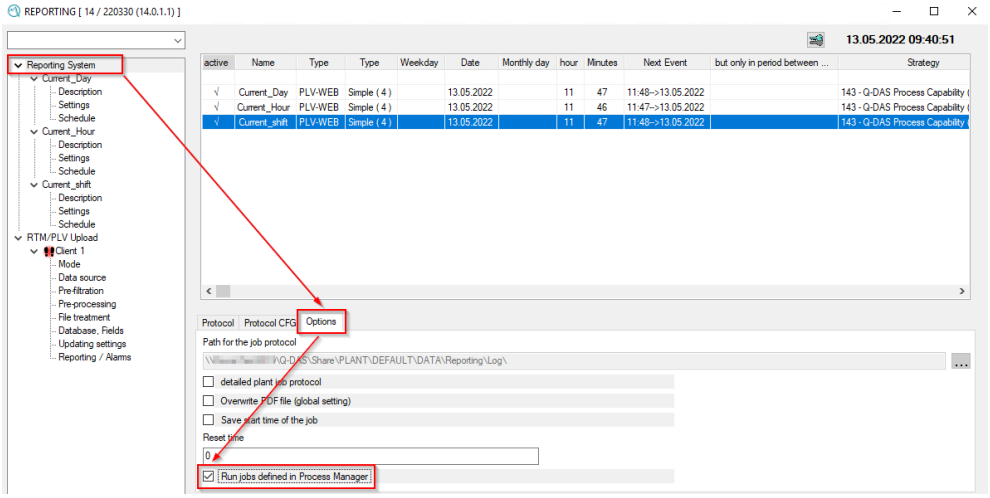
4 Reporting job for the process index in PLV

In the PLV WEB application on the levels plants / departments / workshops the key figure "Process index" can be displayed.

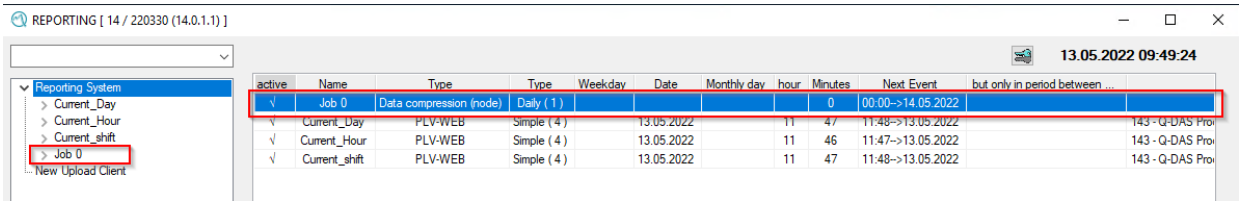


For the respective selected level, it is shown here how many processes (characteristics) were calculated on the **last day** of the machines belonging to this level and how many of them were defined as capable / conditionally capable / not capable / not evaluated.

When using multiple uploads to the database, only ONE upload may be set up for this job. For this purpose, the corresponding upload is started, in the reporting area, the "Options" tab is switched to. Here the option "Run Jobs defined in Process Manager" must be enabled.



In case the required reporting job does not yet exist in the values database, it will be created automatically after setting the option and saving. The automatically created reporting job will be displayed only after restarting the Q-DM application.



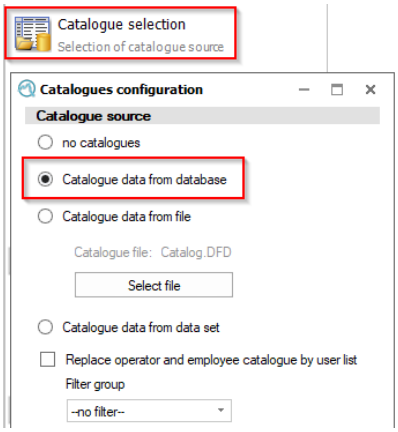
The reporting job is fixed to load the measured values of the last day of the machines. The start time is fixed to 02:00 am.

The activation of this reporting job is saved in the V14_Datamanagement.INI. Therefore, when using multiple uploads, it is mandatory to make sure that each upload runs with its own V14_Datamanagement.INI (renamed).

5 Catalogue from database

The catalogue data must come from the database. The RTM / PLV web application cannot interact with catalogues from file (*. dfd). The corresponding option can be defined for the user via the desktop application on the server.

Q-DAS RTM Q-DAS PLV



6 Upload and aggregation as separate services

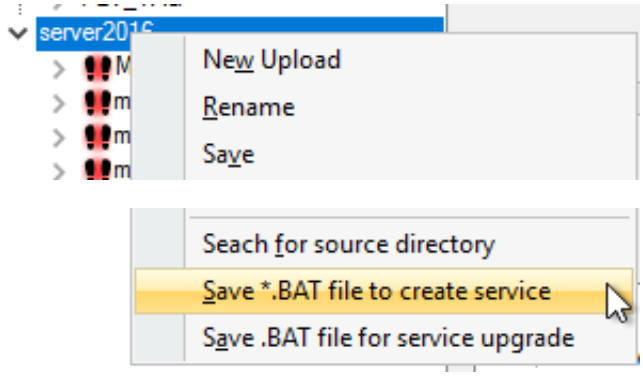
A general recommendation is to create and configure the upload and the PLV reporting jobs it contains in the upload that can be found in the WEB client launcher. For this reason, the WEB client is the only client in which an upload (Q-DM) is also provided.

Reason for this: If Q-DM identifies the licence of the PLV in the licence database, the "reporting system" is also available in the upload, restricted to the PLV jobs. However, since these are basically "reporting jobs", the jobs are created in the configuration database with reference to the Q-Datamanegement.ini (the RS_STATION_GUID entry contained therein). This allows a clean separation of the services in order to let the actual (if available) M-QIS reporting system run on its own for the report creation.

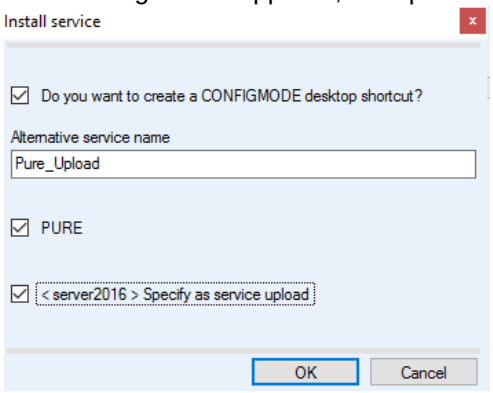
This chapter explains how then upload and PLV compacts are created as 2 separate services.

6.1 Upload-Service

To create the upload as a service, right-click on the name of the upload and select the option to save the *.BAT for service creation:



In the dialogue that appears, the option "PURE" is selected next to an alternative service name:

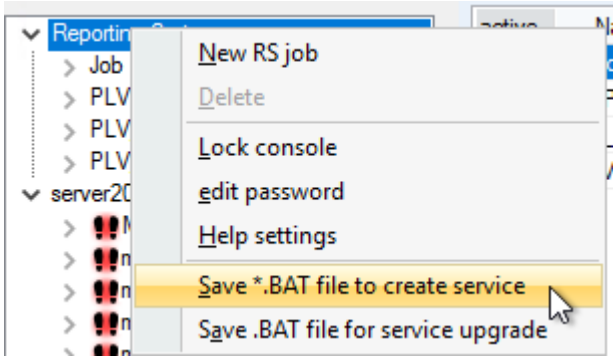


A *.BAT file is created, which is executed as administrator to create the service. It contains the parameter -pure=u, which indicates that this service runs exclusively as an upload.

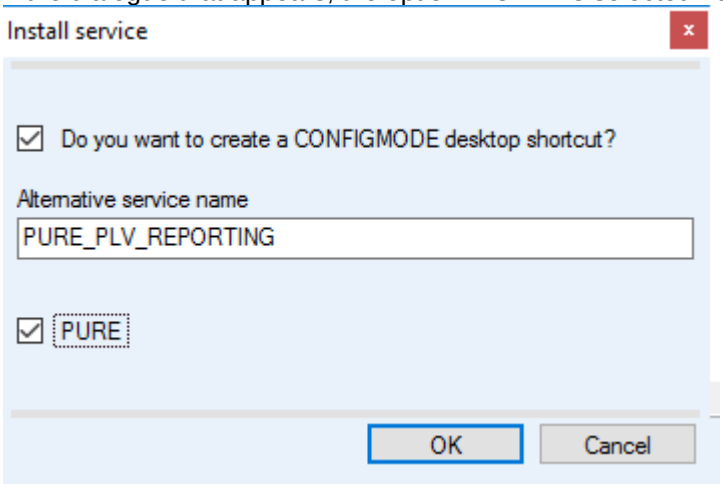
```
echo register the Windows-Service
\\[redacted]\Q-DAS\Share\BIN32\V_14\14_0_1_1\UploadReporting.exe -i=\\[redacted]\Q-DAS
-RUN_AS_SERVICE -altservicename=PURE_UPLOAD -s=1 -u=server2016 -PURE=u -install
echo set start mode to Automatic(Delayed)
sc config PURE_UPLOAD start= delayed-auto
echo update registry
REG ADD "HKLM\SYSTEM\CurrentControlSet\Services\PURE_UPLOAD" /v ImagePath /f /t REG_EXPAND_S
"\\[redacted]\Q-DAS\Share\BIN32\V_14\14_0_1_1\UploadReporting.exe -i=\\[redacted]\Q-DA
-RUN_AS_SERVICE -altservicename=PURE_UPLOAD -s=1 -u=server2016 -PURE=u"
REG ADD "HKLM\SYSTEM\CurrentControlSet\Services\PURE_UPLOAD" /v FailureActions /f /t REG_BIN
000000000000000000000000300000014000000010000060ea00000100000060ea00000100000060ea0000
REG ADD "HKLM\SYSTEM\CurrentControlSet\Services\PURE_UPLOAD" /v FailureActionsOnNonCrashFail
echo Reminder: Please set the Serviceuser as user for the Service!
Pause
```

6.2 Data aggregation-Service

To create the PLV jobs as a service, right-click on "Reporting jobs" and select the option to save the *.BAT for service creation.



In the dialogue that appears, the option "PURE" is selected next to an alternative service name:



As with the upload, the service is extended with the parameter "-pure=r" so that this service exclusively carries out the reporting jobs for the alarm information determined by the upload.

6.3 General service-settings

As explained in the manual of the services, the executing users must be subsequently specified in the services. Information on this can be found in the FAQ on service installation.

6.4 Service-Update from 14.0.1.x to 14.0.4.x

When changing from version 14.0.1.x to version 14.0.4.x, the old service, if any, should be deactivated after updating the entire system and the structural update of the databases. Then create the 2 new services separately for PLV and upload as described.