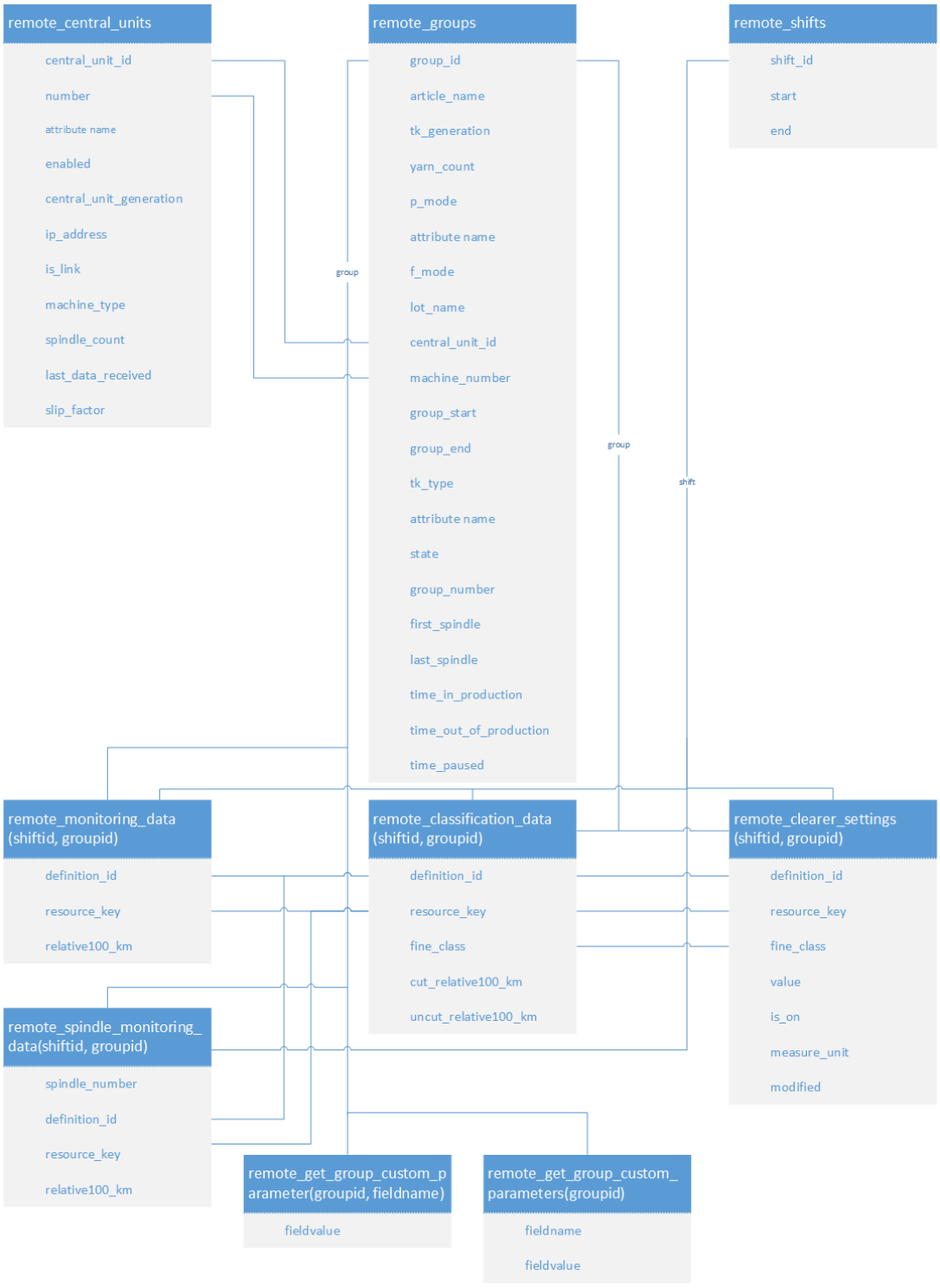
# 1 Database Interface Access

## 1.1 Overview

This application serves to extract production data directly from the PostgreSQL database independent of the MillMaster TOP Client. Data can be retrieved using Excel or PostgreSQL and then evaluated in an ERP system.



## 1.1.1 Views

### remote_central_units

This view allows access to data from the LZE central units. Each LZE has an ID. For each central unit, users can also see whether the unit is activated, what kind of central unit it is (LZE-V, LZE-III, Informator, etc.), its IP address, whether it is a network link machine, the machine type, how many spindles it has, and the exact time when data was last received.

| | |
|---|---|
| Central_unit_id | Database identifier for the central unit. This value can be used to display only certain specific rows from remote_groups. |
| Number | The number of the central unit |
| Enabled | Indicates central units that have been activated or deactivated by the user. |
| Central_unit_generation | The central unit's generation, e.g. Informator, LZE-II/III, LZE-V |
| Ip_address | The central unit's IP address |
| Is_link | Indicates whether this central unit is a network link machine. |
| Machine_type | Machine type, e.g. Murata 21 C |
| Spindle_count | Number of spindles available on this machine. |
| Last_data_received | Time when data was last received by this machine. |
| Slip_factor | The slip factor is specified in the machine settings. |

## remote_groups

This view allows access to data for the active groups. The groups are uniquely assigned through the ID. The data include the article name and the name of the group that is processing the article, as well as the type of sensing head (“TK type”) and the yarn count. The remote_groups display information about the group’s P and F operating modes. The p_mode field is a Boolean flag that indicates whether P mode is activated. The f_mode field shows the status of F mode, which can have various values when activated. The lot name can also be displayed, as well as the ID of the LZE and machine to which the group belongs. Other information available here includes the group’s start and end dates, the group number, the group’s current status, the sensing head type, and the first and last spindle that are part of a group.

| | |
|---|---|
| Group_id | Database identifier for the group. This value can be used to query “monitoring”, “classification” and “clearer setting data”. |
| Article_name | Name of the article for this group. |
| Tk_generation | Sensing head type, e.g. Spectra, Zenit, Zenit+ |
| Yarn_count | Yarn count for this group |
| P_mode | Indicates whether P is activated. |
| F_mode | F mode, e.g. dark, bright - on/off |
| Lot_name | Name of the lot |
| Central_unit_id | Database identifier for the central unit. See remote_central_units. |
| Machine_number | Machine number of the central unit |
| Group_start | Group start date |
| Group_end | Group end date or the date 12/31/9999 if the group is still in production. |
| Tk_type | Sensing head type, e.g. Spectra 830 |
| State | Group status, e.g. in production, started, stopped, paused |
| Group_number | Group number |
| First_spindle | First spindle in the group |
| Last_spindle | Last spindle in the group |
| Production_time | Total time the group has spent in production and winding since its start date. |
| Time_out_of_production | Total time the group has spent out of production since its start date. |
| Time_paused | Total time the group has spent in production, but not winding, since its start date. |

## remote_shifts

This view shows all shifts that are still stored in the database as shifts. These include active shifts as well as completed shifts that are not yet old enough to be marked as deleted and grouped into weeks. For each shift, the ID and the start and end time are displayed.

| | |
|---|---|
| Shift_id | Database identifier for the shift. This value can be used to query “monitoring”, “classification” and “clearer setting data”. |
| Start | Shift start time |
| End | Shift end time |

## remote_articles

This view shows all available information about the articles that have been opened in MillMaster TOP.

| | |
|---|---|
| Article_id | Database identifier for the article. |
| Name | Name of the article as displayed in MillMaster TOP. |
| Yarn_count | Yarn count of the article |
| carded | |
| combed | |
| Material | |
| blend | |
| Fiber_type | |
| Staple_length | |
| Twist | |
| Twist_direction | |
| enabled | Indicates whether an article is visible or not visible in MillMaster TOP. |
| created | Time stamp indicating when the user opened the article in MillMaster TOP. |
| Bobbin_length | |
| Cone_length | |
| Cone_type | |
| waxed | |
| yarn_count_display_unit | |
| Warp | |
| Knitting | |

## 1.1.2 Functions

### remote_classification_data(shiftid, groupid)

This function requires a shift ID and a group ID. The data include the cut and uncut events per 100 km, as well as the fine class in which the event occurred. The resource key can be used to adapt an event to a D-, DSplice- or F-matrix, e.g. for a column that displays the resource key “ClassificationD”, the other columns will then show a fine class from the D-matrix. The data are displayed in the matrix in the Data/Quality main menu.

### shiftid

Database identifier for the shift. The value is displayed when a shift is selected in the remote_shifts view.

### groupid

Data of groups is only displayed when the selected views were in production.

Database identifier for the group. The value is displayed when a group is selected in the remote_groups view.

| | |
|---|---|
| Definition_id | Database identifier for the definition |
| Resource_key | Resource key for the matrix definition |
| Fine_class | Fine class of the matrix in which the event occurred, e.g. N0.1 |
| Cut_relative100_km | Number of cuts in this fine class per 100 km |
| Uncut_relative100_km | Number of uncuts in this fine class per 100 km |

### remote_clearer_settings(shiftid, groupid)

This function requires a shift ID and a group ID. The data show the clearer settings that can be edited. The resource key is used to show the data for each row that are currently stored for clearer setting/ classification. This makes it possible to read off the status of all clearer settings for all classification types, including the values, whether they are switched on or off, and the unit of measurement. In addition, each fine class for each classification is shown in its own data row with a corresponding resource key so that the user can see which classification contains which fine classes.

### shiftid

Database identifier for the shift. The value is displayed when a shift is selected in the remote_shifts view.

### groupid

Data of groups is only displayed when the selected views were in production.

Database identifier for the group. The value is displayed when a group is selected in the remote_groups view.

| | |
|---|---|
| Resource_key | Resource key for the definition; can be a DoubleSettingDefinition, StringSettingDefinition or ClassificationDefinition |
| Fine_class | Fine class of the matrix (only for classification resources; otherwise NULL) |
| Value | Setting value<br>Clearing mode values for classification resources:<br>■ None = no clearing<br>■ Full = full clearing<br>■ Upper = clearing of upper half<br>■ Lower = clearing of lower half<br>■ Cluster = cluster clearing |
| Is_on | Displays the setting value. (1 = on \| 0 = off) |
| Measure_unit | Associated unit of measurement |
| modified | Time stamp indicating the last time the value was changed |

## remote_monitoring_data(shiftid, groupid)

This function requires a shift ID and a group ID. Each monitoring value has its own data row. The IPI values are included if IPI values are available and active. The data are displayed in the Data/Monitoring or Quality main menu.

## shiftid

Database identifier for the shift. The value is displayed when a shift is selected in the remote_shifts view.

## groupid

Data of groups is only displayed when the selected views were in production.

Database identifier for the group. The value is displayed when a group is selected in the remote_groups view.

| | |
|---|---|
| Definition_id | Database identifier for the definition |
| Resource_key | Resource key for the definition |
| Relative_100km | Monitoring value per 100 km |

## remote_spindle_monitoring_data(shiftid, groupid)

This function requires a shift ID and a group ID. Each monitoring value has its own data row. The IPI values are included if IPI values are available and active. The data are displayed in the Analysis/Trend main menu.

Because spindle data are only stored for a certain period of time, older data may not be available.

## shiftid

Database identifier for the shift. The value is displayed when a shift is selected in the remote_shifts view.

## groupid

Data of groups is only displayed when the selected views were in production.

Database identifier for the group. The value is displayed when a group is selected in the remote_groups view.

| | |
|---|---|
| Spindle_number | Spindle number |
| Definition_id | Database identifier for the definition |
| Resource_key | Resource key for the definition |
| Relative_100km | Monitoring value per 100 km |

## remote_get_group_custom_parameter(groupid, fieldname)

An entry is required for the field value; otherwise no data can be displayed.

This function requires an active group ID and the field name. The field value is shown for the specified field name. The data are also displayed in the “Lot/Edit lot” or “Add lot” main menu

## groupid

The group must have user-defined values, otherwise no data can be displayed.

Observe the following conditions for the entry:

- No empty string
- No line break
- No spaces

Database identifier for the active group. The value is displayed when an active group is selected in the remote_groups view.

## fieldname

An entry is required for the fieldname (name), otherwise no data can be displayed.

Name of the user-defined field. The data are also displayed in the “Settings/Custom field settings” menu.

| | |
|---|---|
| fieldvalue | Value of the user-defined field |

## remote_get_group_custom_parameters(groupid)

An entry is required for the field value; otherwise no data can be displayed.

This function requires an active group ID. The field name is displayed. Each field name has its own value. The data are displayed in the main menu under “Settings/Custom field settings” and “Lot/Edit lot” or “Add lot”.

## groupid

The group must have user-defined values, otherwise no data can be displayed.

Observe the following conditions for the entry:

- No empty string
- No line break
- No spaces

Database identifier for the active group. The value is displayed when an active group is selected in the remote_groups view.

| | |
|---|---|
| fieldname | Name of the user-defined field |
| fieldvalue | Value of the user-defined field |

## 1.2 System Requirements

- 64 bit operating system with Windows 10 installed.
- MillMaster TOP Version 4.4 or higher installed.
- Option Database Interface is activated in menu ***System/Settings***.
- IP address of Database Server known.
- Unrestricted access to port 5432 is set in the network when the connection from a workstation to the Database Server is to be used. Firewall settings are to be adjusted at the same time.

The user defines whether the Excel data on the Database Server are to be processed directly with the PostgeSQL database or separately on a workstation. In this case, install Excel previously in the respective environment. A connection to the Database Server must be installed in order to use a workstation.

## 1.3 Installing the PostgreSQL ODBC 32/64 Bit Driver

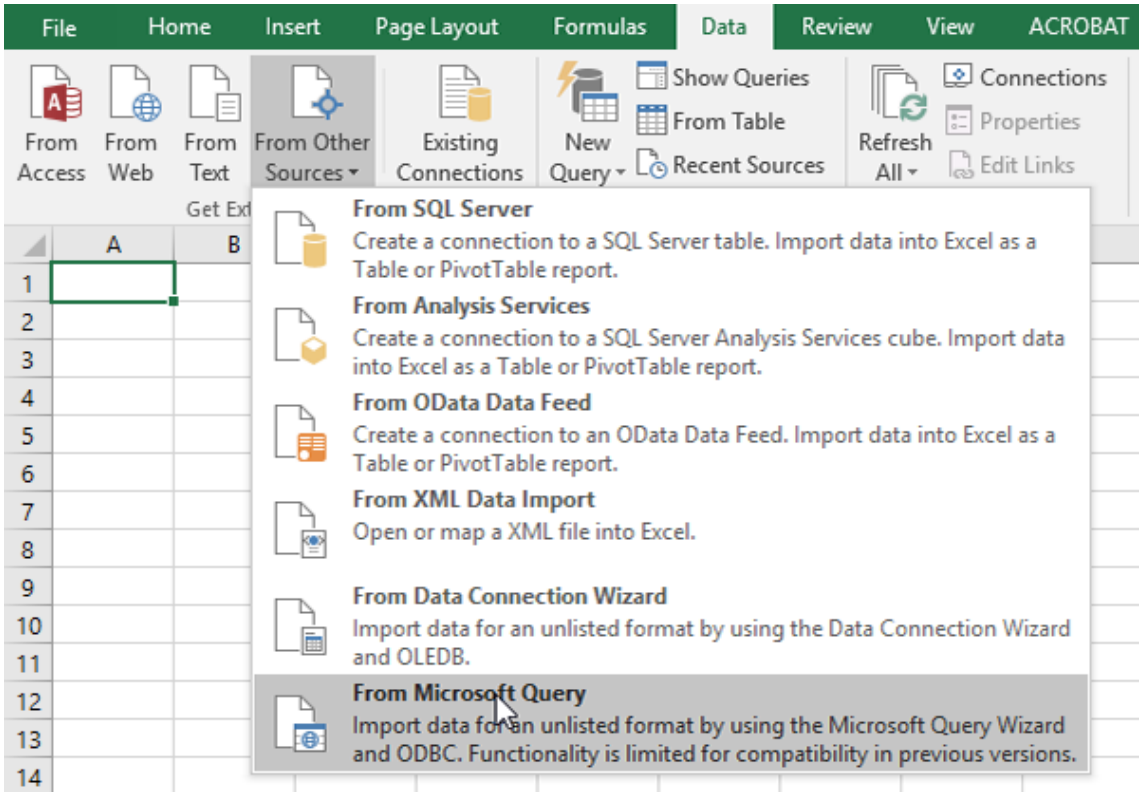
The driver can be downloaded from the PostgreSQL website.

✓ The PC is connected to the Internet.

1. Open a web browser, e.g. Internet Explorer.
2. Enter ***https://www.postgresql.org/ftp/odbc/versions/msi/*** in the address bar.
3. Search for the ZIP file, e.g. psqlodbc.
4. Download the most recent version, e.g. psqlodbc_11_XX_XXXX.zip.
5. Extract the ZIP file.
6. Read the license terms and conditions in the Readme file.
7. Install the file.

## 1.4 Creating Data Source LoepfeBde for the Connection

1. Start Excel.
2. Open an empty worksheet.
3. Select tab **«Data»**.
4. Select menu ***From Other Sources/From Microsoft Query***.




⇨ Window **«Choose Data Source»** opens.

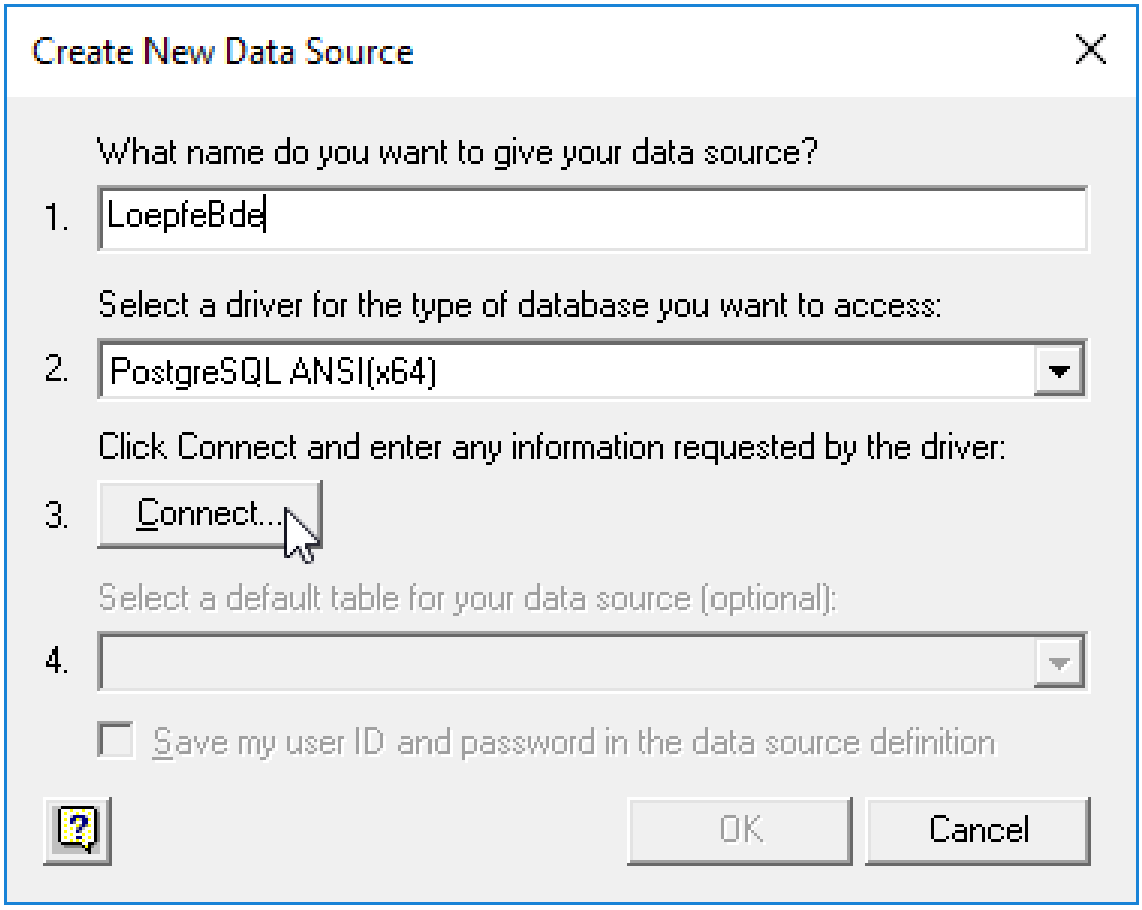
5. Select tab **«Databases»**.
6. Select **«New Data Source»**.
7. Confirm with **«OK»**.

⇨ Window **«Create New Data Source»** opens.

8. In field 1, enter LoepfeBde.
9. In field 2, select, e.g., driver PostgreSQL Unicode(x64).

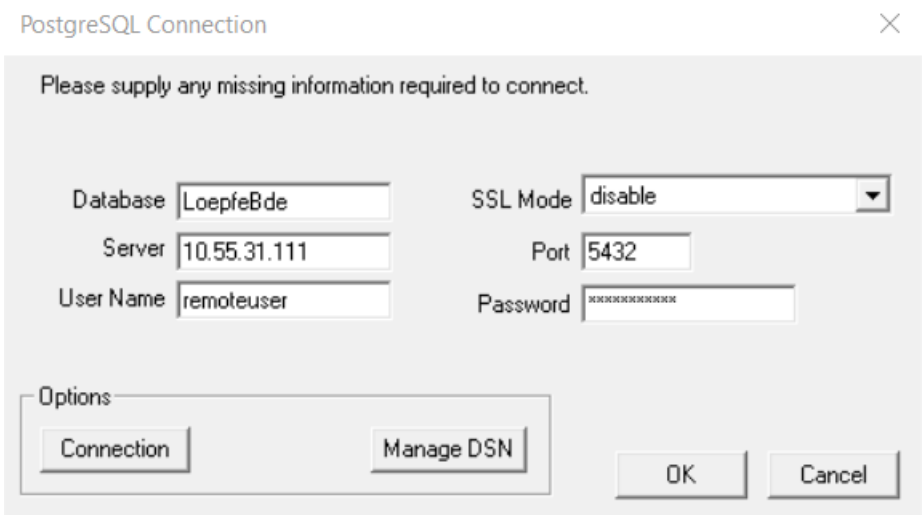
⇨ Check the driver installation when the driver cannot be selected.

10. In field 3, click **«Connect...»**.




⇨ Window **«PostgreSQL Connection»** opens.

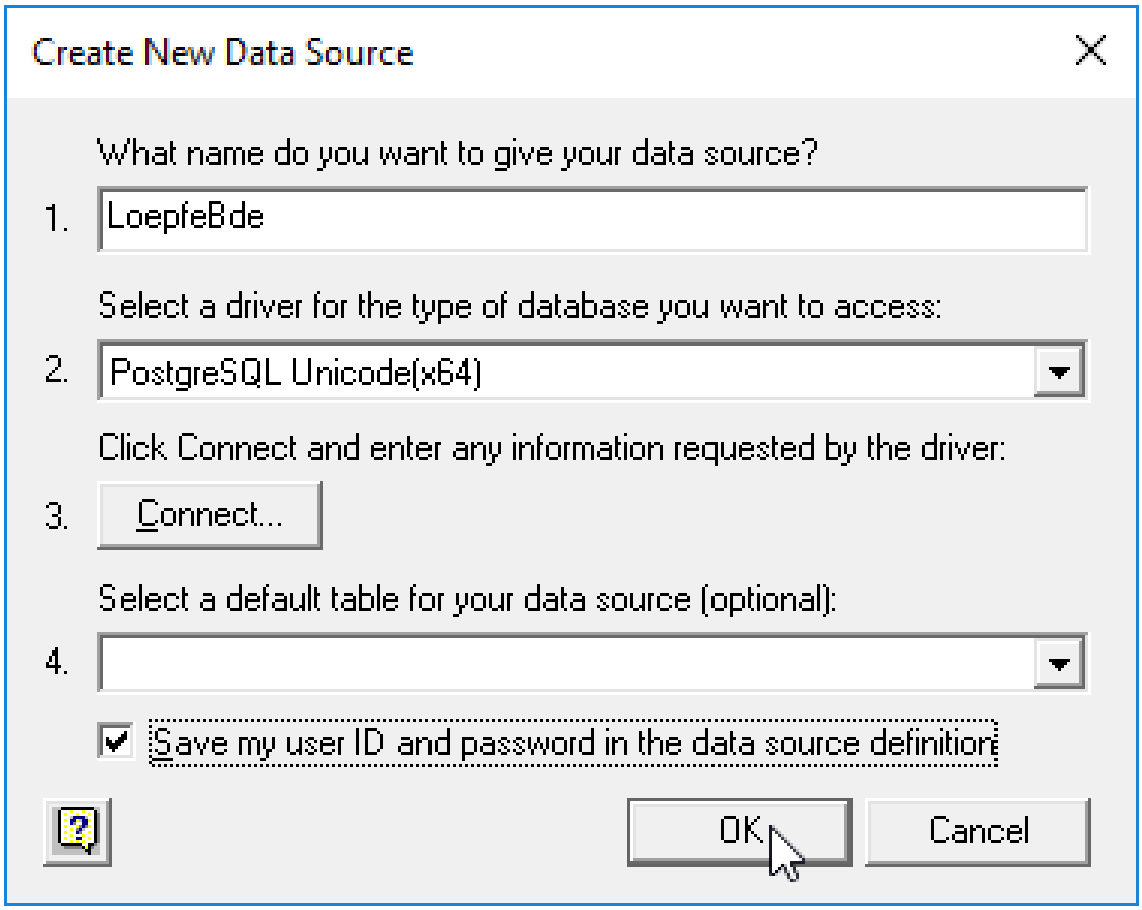
11. Database (Name): Enter LoepfeBde.
12. Server: Enter the IP address of the local Database Server.
13. Enter user name: remoteuser.
14. Select SSL mode: disable.
15. Port: Enter 5432.
16. Password: Enter Remoteuser1.




17. Confirm with **«OK»**.

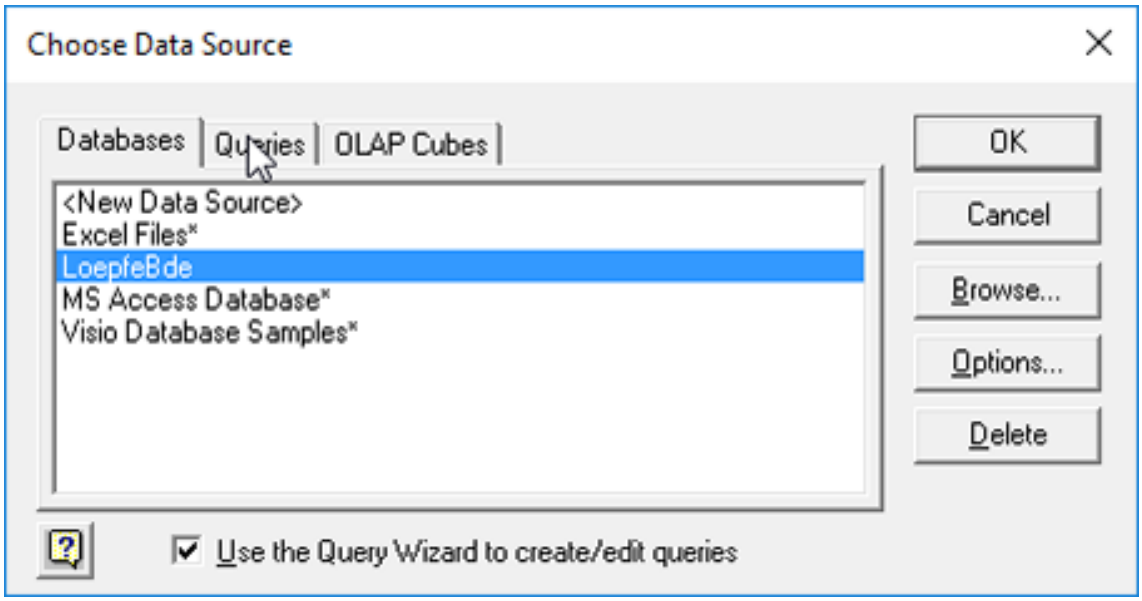
⇨ The window closes.

18. In field 4, select Standard Table optional.
19. Click the check box to save the user ID and password.




20. Confirm with «**OK**».

⇨ Data source **LoepfeBde** is created in Excel.

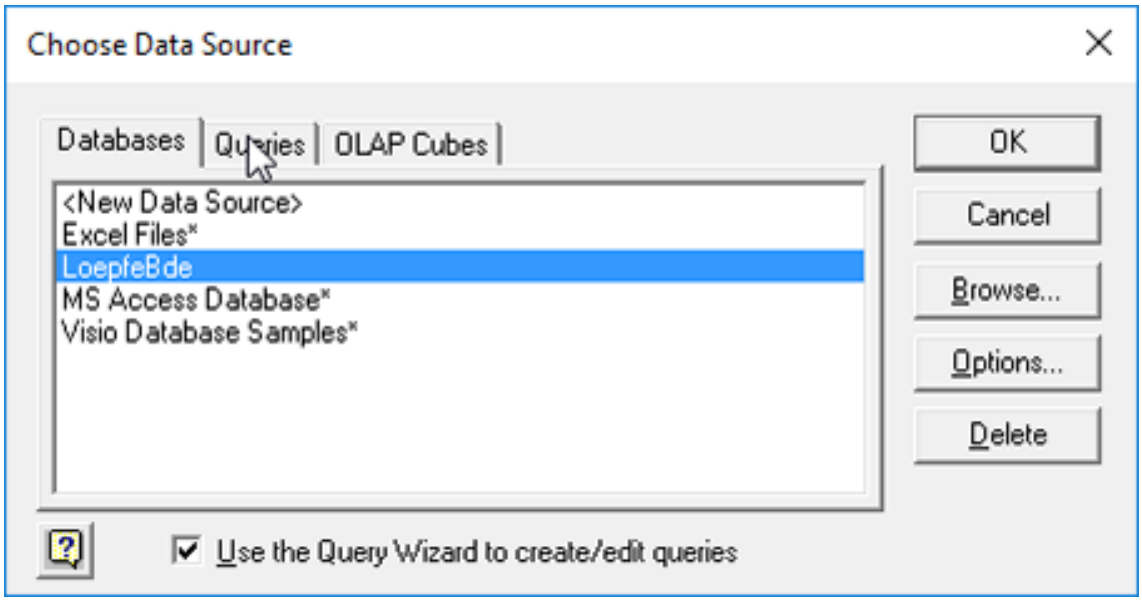


## 1.5 Importing Data Sources

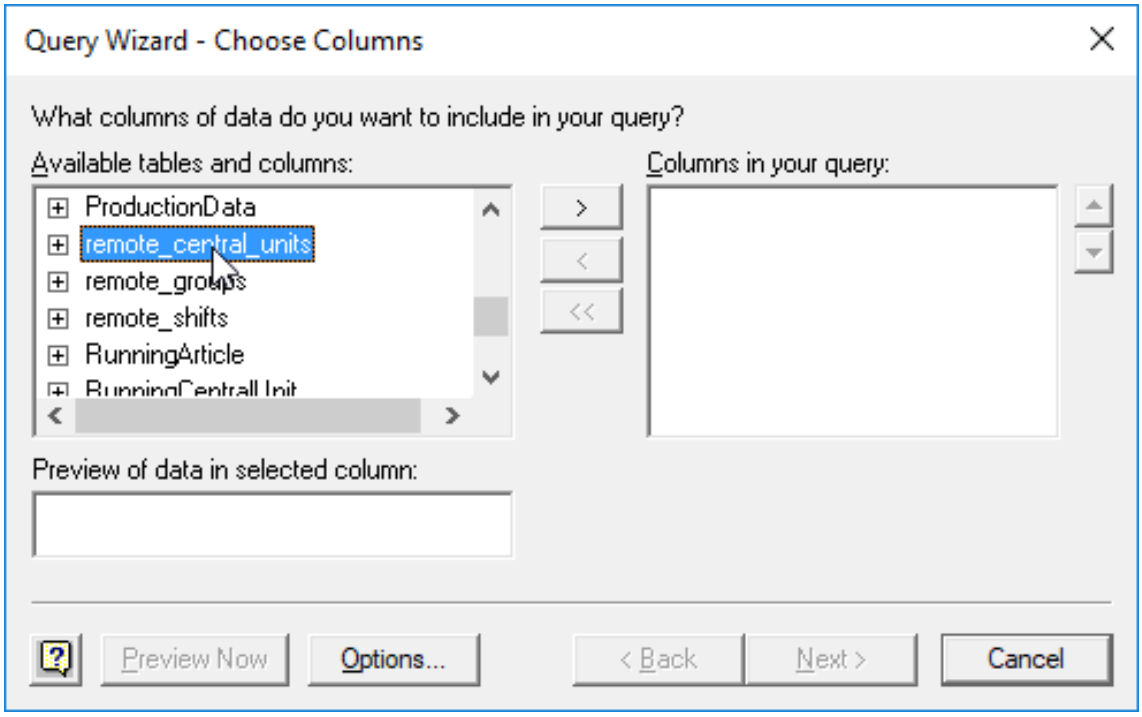
The following data sources are available and are imported from the Tables.

- `remote_central_units`: Directory of all machines connected with MillMaster TOP
- `remote_groups`: Directory of all spindle groups
- `remote_shifts`: Directory of all shift periods since the first start of MillMaster TOP

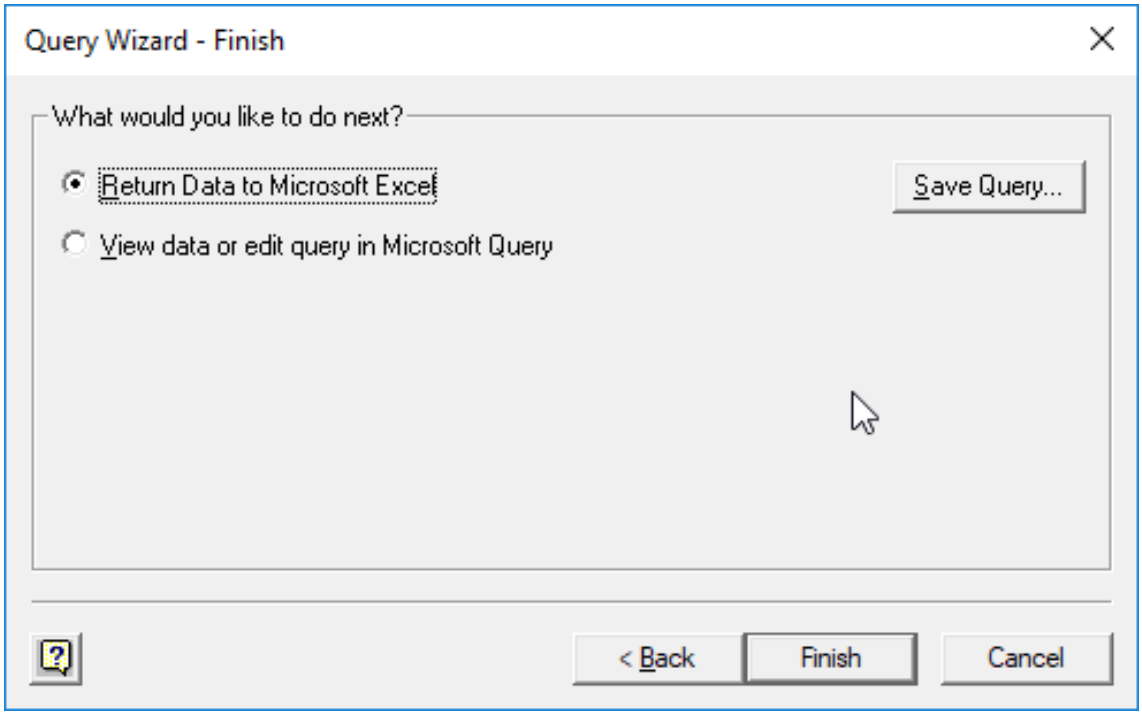
1. Start Excel.
2. Open an empty worksheet.
3. Select tab **«Data»**.
4. Select menu ***From Other Sources/From Microsoft Query***.
   ⇨ Window **«Create New Data Source»** opens.
5. Select tab **«Databases»**.
6. Select data source **LoepfeBde**.
7. Click the check box to use the Query Wizard.




8. Confirm with **«OK»**.
   ⇨ Window **«Query Wizard»** opens.
9. Select Table `remote_central_units`.
10. Click > to determine Table columns.

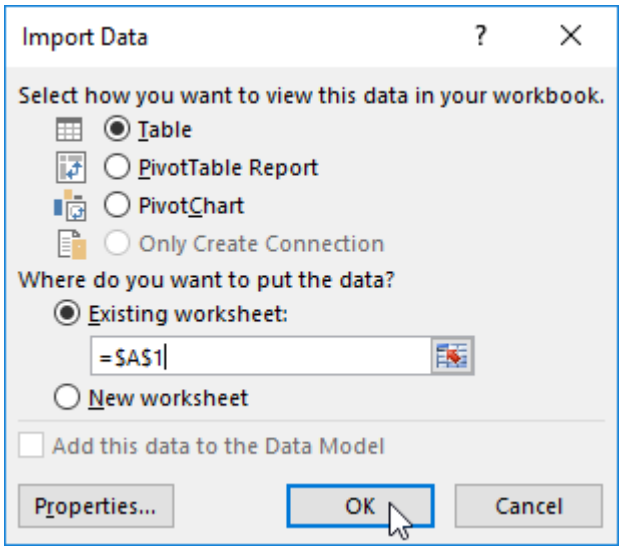



11. Click **«Next»**.
    ⇨ Window **«Query Wizard»** opens.
12. Filter data when desired.
13. Click **«Next»**.
14. Sort data when desired.
15. Click **«Next»**.
16. If desired, click **«Save Query...»**.
17. Click **«Finish»**.




⇨ Window **«Import Data»** opens.

18. Select **«Table»**.
19. Select **«Existing worksheet:»**.




20. Confirm with **«OK»**.

⇨ Table `remote_central_units` is displayed.

| central_unit_id | number | enabled | central_unit_generation | ip_address | is_link | machine_type | spindle_count | last_data_received |
|---|---|---|---|---|---|---|---|---|
| 7 | 7 | 1 | LZEIII | 10.55.31.108 | 0 | Murata 21C | 4 | 18.07.2017 10:30 |
| 1 | 1 | 1 | LZEV | 10.55.31.101 | 0 | Schlafhorst ACX5/AC6 | 10 | 18.07.2017 10:30 |
| 6 | 6 | 1 | LZEV | 10.55.31.107 | 0 | Murata 21C | 5 | 18.07.2017 10:30 |
| 4 | 4 | 1 | LZEV | 10.55.31.104 | 0 | Schlafhorst AC338 | 10 | 18.07.2017 10:30 |
| 5 | 5 | 1 | LZEV | 10.55.31.105 | 0 | Savio Orion/Polar | 8 | 13.07.2017 15:30 |
| 9 | 9 | 1 | LZEV | 10.55.31.110 | 0 | Savio PulsarS | 1 | 08.06.2017 14:20 |
| 10 | 10 | 1 | LZEV | 10.55.31.113 | 0 | Buero CSS | 128 | 23.06.2017 14:55 |
| 8 | 8 | 1 | LZEIII | 10.55.31.109 | 0 | Savio Espero | 8 | 18.07.2017 10:30 |
| 2 | 2 | 1 | Informator | 10.55.31.102 | 0 | Schlafhorst ACX5/AC6 | 10 | 18.07.2017 10:30 |
| 3 | 3 | 1 | LZEIII | 10.55.31.103 | 0 | Schlafhorst AC238 | 10 | 18.07.2017 10:30 |

*Section: remote_central_units*

Then import Tables `remote_groups` and `remote_shifts` with steps 2-20.

| group_id | article_name | tk_generation | yarn_count | p_mode | f_mode | lot_name |
|---|---|---|---|---|---|---|
| 58 | 4-4 | Zenit | 50.8 | 0 | Dark | andi |
| 62 | tianxian J40K | Zenit | 50.8 | 0 | Dark | andi |
| 16 | ARTICLE1 | ZenitPlus | 50.8 | 0 | Both | DefaultLot |
| 24 | ARTICLE1 | ZenitPlus | 50.8 | 1 | Dark | DefaultLot |
| 13 | ARTICLE1 | ZenitPlus | 50.8 | 1 | Dark | DefaultLot |
| 14 | CO NE30 TOP16 | ZenitPlus | 50.8 | 0 | Off | DefaultLot |
| 9 | DefaultArticle | Zenit | 1 | 0 | Dark | DefaultLot |
| 10 | KABEL J.K | Zenit | 1 | 0 | Both | PAKISTAN |
| 23 | MIKE TEST 2017 | ZenitPlus | 101.6 | 0 | Off | MIKE TEST 2017 |

*Section: remote_groups*

| shift_id | start | end |
|---|---|---|
| 3 | 29.05.2017 14:00 | 29.05.2017 22:00 |
| 5 | 02.06.2017 06:00 | 02.06.2017 14:00 |
| 7 | 08.06.2017 14:00 | 08.06.2017 22:00 |
| 8 | 09.06.2017 06:00 | 09.06.2017 14:00 |
| 114 | 12.07.2017 06:00 | 12.07.2017 14:00 |
| 12 | 12.06.2017 06:00 | 12.06.2017 14:00 |
| 14 | 13.06.2017 06:00 | 13.06.2017 14:00 |
| 16 | 13.06.2017 14:00 | 13.06.2017 22:00 |
| 210 | 14.08.2017 06:00 | 14.08.2017 14:00 |
| 214 | 16.08.2017 06:00 | 16.08.2017 14:00 |
| 19 | 14.06.2017 06:00 | 14.06.2017 14:00 |
| 118 | 13.07.2017 06:00 | 13.07.2017 14:00 |

*Section: remote_shifts*

## 1.6 Importing Data

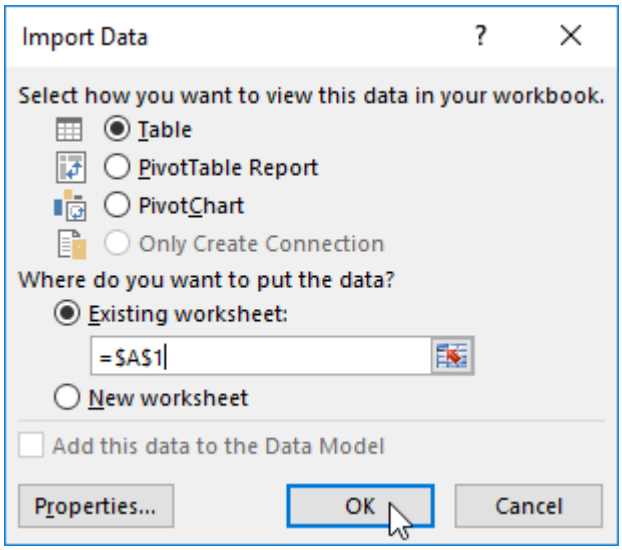
The following data can be imported:

- Classification: `remote_classification_data` (shift_id, group_id)
- Settings: `remote_clearer_settings` (shift_id, group_id)
- Monitoring: `remote_monitoring_data` (shift_id, group_id)
- Monitoring: `remote_spindle_monitoring_data` (shift_id, group_id)
- Custom parameters: `remote_get_group_custom_parameter`(groupid, fieldname) or `remote_get_group_custom_parameters`(groupid)

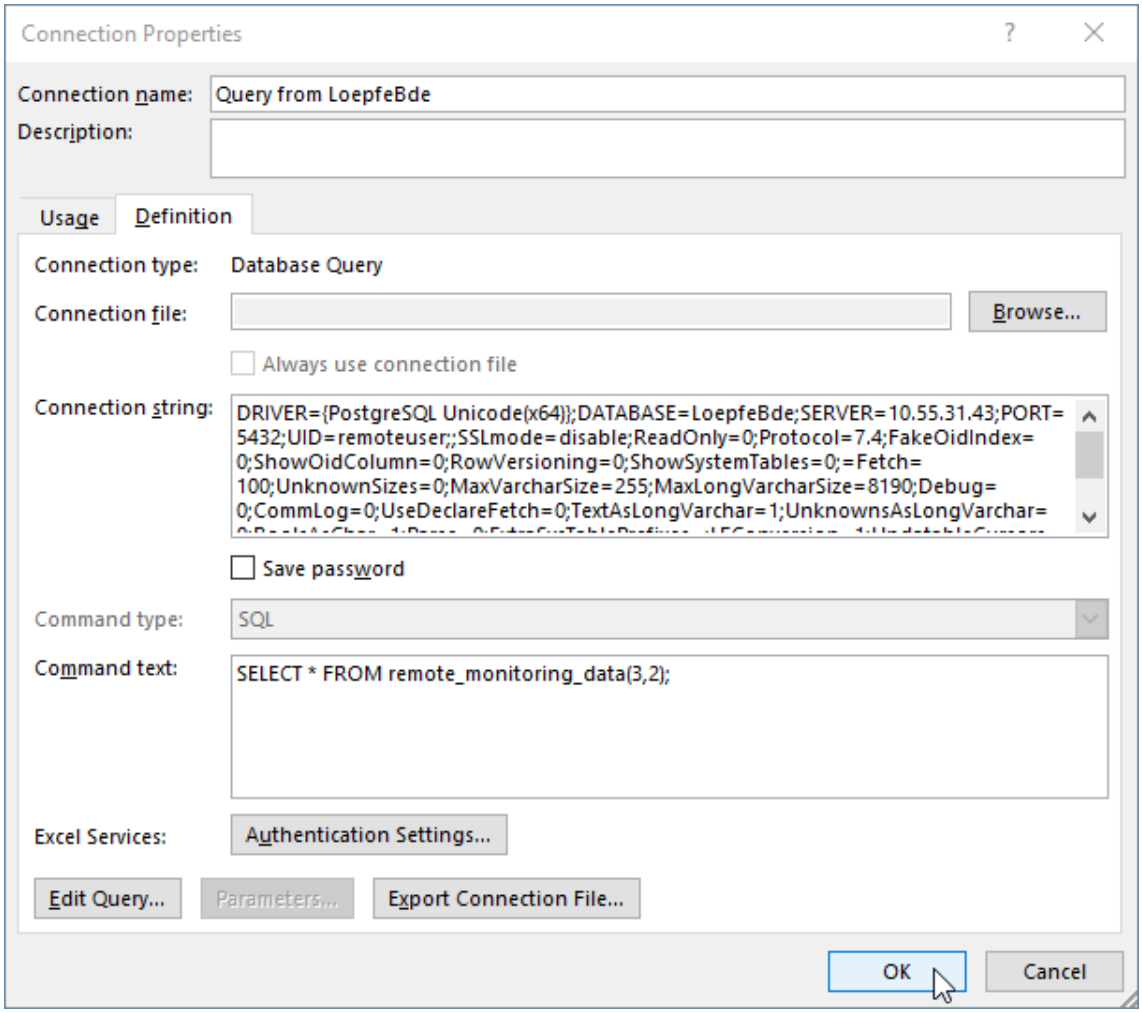
Take the parameters for shift_id and group_id from the respective columns of Tables `remote_shifts` and `remote_groups`.

Example for monitoring data:

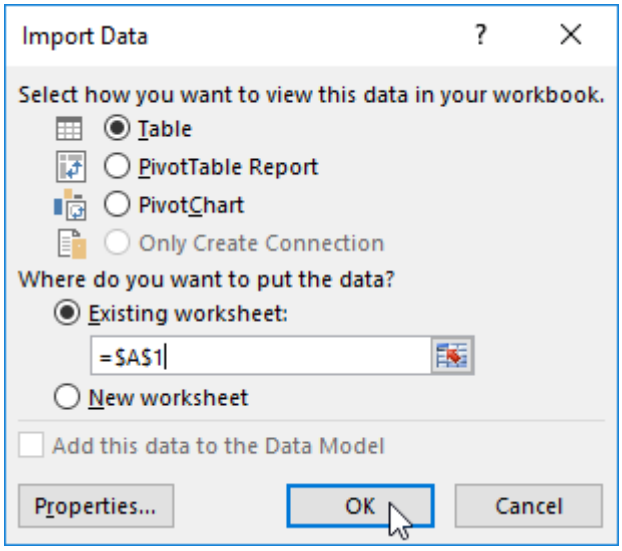
1. Start Excel.
2. Open an empty workbook.
3. Select the **«Data»** tab.
4. Select the ***From Other Sources / From Microsoft Query*** menu item.
   ⇨ The **«Choose Data Source»** window opens.
5. Select the **LoepfeBde** data source.
6. Tick the checkbox to use the query wizard.
7. Confirm with **«OK»**.
   ⇨ The **«Query Wizard»** window opens.
8. Select a table, e.g. `remote_groups`.
9. Press the > button.
   ⇨ The selected columns are displayed in **«Columns in your query»**.
10. Press **«Next»**.
11. Press **«Save query...»** if desired.
12. Press **«Finish»**.
    ⇨ The **«Import Data»** window opens.



13. Press **«Properties...»**
    ⇨ The **«Connection Properties»** window opens.
14. Select the **«Definition»** tab.
15. Enter text in the “Command text” field, e.g. SELECT * FROM remote_monitoring_data(3,2)
    (Example for custom parameters: SELECT * FROM remote_get_group_custom_parameter(groupid, “fieldname”))




16. Confirm with **«OK»**.
    ⇨ The **«Import Data»** window opens.




17. Confirm with **«OK»**.
18. Enter the password.
19. Confirm with **«OK»**.

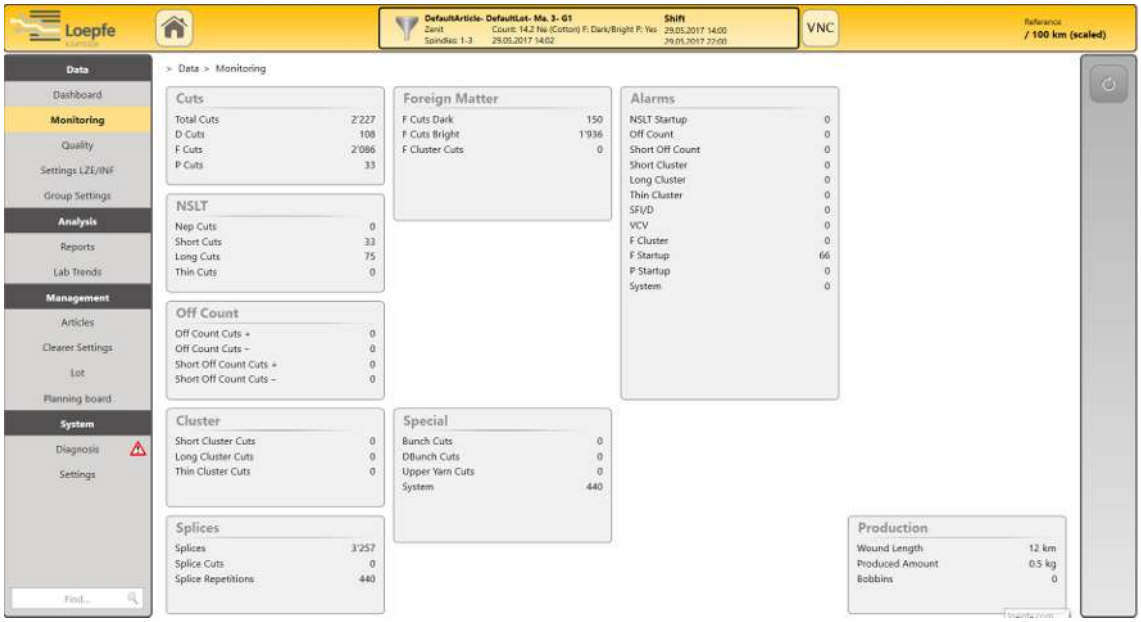
⇨ The `remote_monitoring_data(3,2)` table is displayed. The table contains all monitoring entries for machine 3, group 1, from the shift of May 29, 2017, from 2:00 to 10:00 p.m.

| definition_id | resource_key | relative100_km |
|---|---|---|
| 12001 | MonitoringCutSummaryTotalCuts | 268 |
| 12002 | MonitoringCutSummaryDCuts | 13 |
| 12003 | MonitoringCutSummaryFCuts | 251 |
| 12004 | MonitoringCutSummaryPCuts | 4 |
| 12005 | MonitoringNsltNepCuts | 0 |
| 12006 | MonitoringNsltShortCuts | 4 |
| 12007 | MonitoringNsltLongCuts | 9 |
| 12008 | MonitoringNsltThinCuts | 0 |
| 12009 | MonitoringDSpliceSplices | 392 |
| 12010 | MonitoringDSpliceSpliceCuts | 0 |

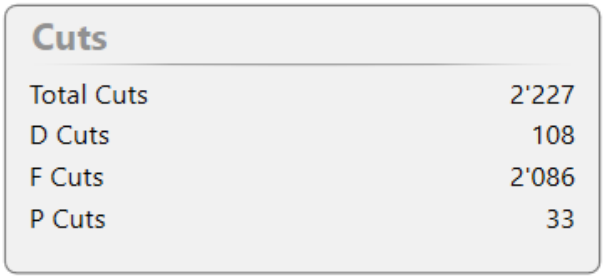
*Excerpt: remote_monitoring_data*

Notes on the monitoring data example:

- The data reflects the information from MillMaster TOP.
- With the Monitoring view for the selected shift.
- The data in the resource_key column correspond to the Monitoring view.




- The Monitoring view in MillMaster TOP is set to “per 100 km”.
  In the example, about 12 km are wound, and the following conversions are made:
  Total Cuts 2227/(100/12) = 267.33 (rounded to 268)
  D Cuts 108/(100/12) = 12.96 (rounded to 13)
  F Cuts 2086/(100/12) = 250.32 (rounded to 251)
  P Cuts 33/(100/12) = 3.96 (rounded to 4)



# 1.7 Application pgAdmin4

The pgAdmin4 application from PostgreSQL can be used to access the database directly. Excel is not required for this application.

The following data sources are available and are imported.

- `remote_central_units`: Directory of all machines connected with MillMaster TOP
- `remote_groups`: Directory of all spindle groups
- `remote_shifts`: Directory of all shift periods since MillMaster TIP was first started

The following data can be imported:

- Classification: `remote_classification_data` (shift_id, group_id)
- Settings: `remote_clearer_settings` (shift_id, group_id)
- Monitoring: `remote_monitoring_data` (shift_id, group_id)
- Monitoring: `remote_spindle_monitoring_data` (shift_id, group_id)

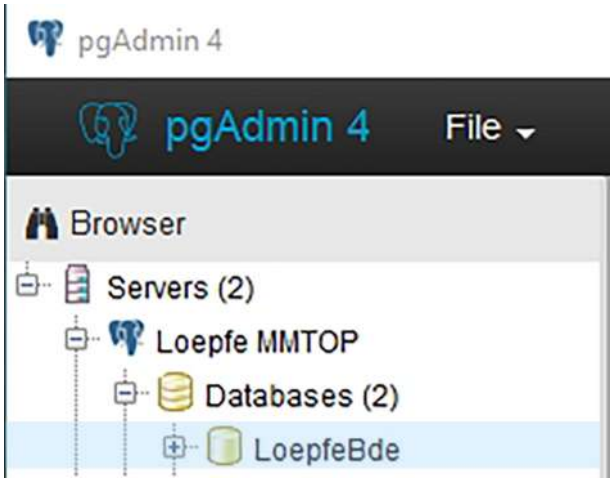
## Downloading and installing the pgAdmin4 application

✓ The PC is connected to the Internet.

1. Open a web browser.
2. Enter ***https://www.postgresql.org/ftp/pgadmin/pgadmin4/*** in the address bar.
3. Download the current version of pgadmin4 for Windows.
4. Install the file, following the instructions in the wizard.
5. Finish the installation.

## Using the pgAdmin4 application

1. Start the pgadmin4v1 application, with the Windows Start button or in Windows Explorer: ***c:\program files (x86)\pgAdmin 4\v1\runtime\pgAdmin4.exe***
   ⇨ The application opens.
2. In the ***Quick Links*** menu, select **«Add New Server»** or select Object\Create\Server... from the menu bar.
3. Select the **«General»** tab.
4. Enter the name, e.g. Loepfe MMTOP.
5. Select the “Servers” server group.
6. Connect now? Tick the checkbox to establish a connection right away.
7. Select the **«Connection»** tab.
8. Enter the host name for MillMaster Server, e.g. TOP customer name01.
9. Enter “5432” for the port.
10. Enter “LoepfeBde” for the maintenance database.
11. Enter “remoteuser” for the username.
12. Enter “Remoteuser1” for the password.
13. If necessary, tick the checkbox to save your settings.
14. Do not edit the Role field!
15. For “SSL mode”, select “disable”.
16. Select the **«Advanced»** tab.
17. Enter the MillMaster Server IP address for the host address, e.g. 192.168.7.1.
18. Confirm your changes with **«Save»**.
    ⇨ The application’s directory structure appears, e.g. ***Servers/Name/Databases/LoepfeBde***.




19. Mark “LoepfeBde” in the browser.
20. Right-click to open **«Query Tool...»**
21. In the **«LoepfeBde on remoteuser@loepfeBde»** menu, enter text on line 1, e.g. ***Select * From remote_central_units***.
22. Confirm by pressing **«F5»**.
    ⇨ The list of machines is displayed on the **«Data Output»** tab.

## 1.8 FAQ

Question: Is Excel mandatory to read out the data?

Reply: No, Open Office or a product compatible with the PostgreSQL ODBC is sufficient.

Question: Can the data be read and used on a PC on which MillMaster TOP is not installed?

Reply: Yes, a database and a MillMaster TOP Client are not required on the PC but a connection to the Database Server must be present.

Question: Where are the data of the database Tables from MillMaster TOP stored?

Reply: The entries in the Table lines are assigned to various MillMaster TOP menus and can be viewed in various views.

Question: Where are the article, lot or plan data stored in the database?

Reply: The data are stored in MillMaster TOP in the data in Monitoring, Quality and Settings. The Database interface access option does not replace the MillMaster TOP client.

Question: Can the Database access replace MillMaster TOP?

Reply: No, The Database interface access option does not replace the MillMaster TOP client.

Question: Can the effort required in Sections 3 and 4 be reduced?

Reply: Yes, when the Excel Macro function and programming are used, the effort can be reduced to just a few mouse clicks and the data created exported to ERP systems or other databases.

Question: If the connection between PostgreSQL ODBC Driver and the MillMasterPro database cannot be created?

Reply: There can be many reasons for this and these depend on the existing IT infrastructure and the configuration of the PC or Server used. Request support from the IT Administrator.
The following error messages can be displayed:


*MS Query error message*

- Check the activation of the Database interface option in MillMaster TOP
- Check the data in the Connection window
- Check the IP address of the PC with the MillMaster TOP database
- It must be possible to “ping” the database Server, both as IP address and PC name
- An entry may be necessary in the Host file (\Windows\System32\drivers\etc)

```
# localhost name resolution is handled within DNS itself.
#       127.0.0.1       localhost
#       ::1             localhost

[IP Adresse des Servers] [Name des Servers]
```

*localhost*

- Check the Firewall settings
- Make sure Port 5432 is available unrestricted and exclusive in both directions
- An entry may possibly be required in the file pg_hba.conf in the PostgreSQL Server directory


*host entry*

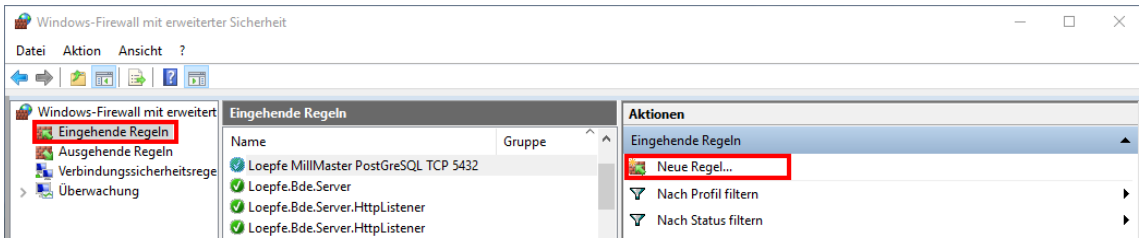
Question: Can changes be made directly in the database?

Reply: No, database access is Read only. Changes damage the database and make it unusable.

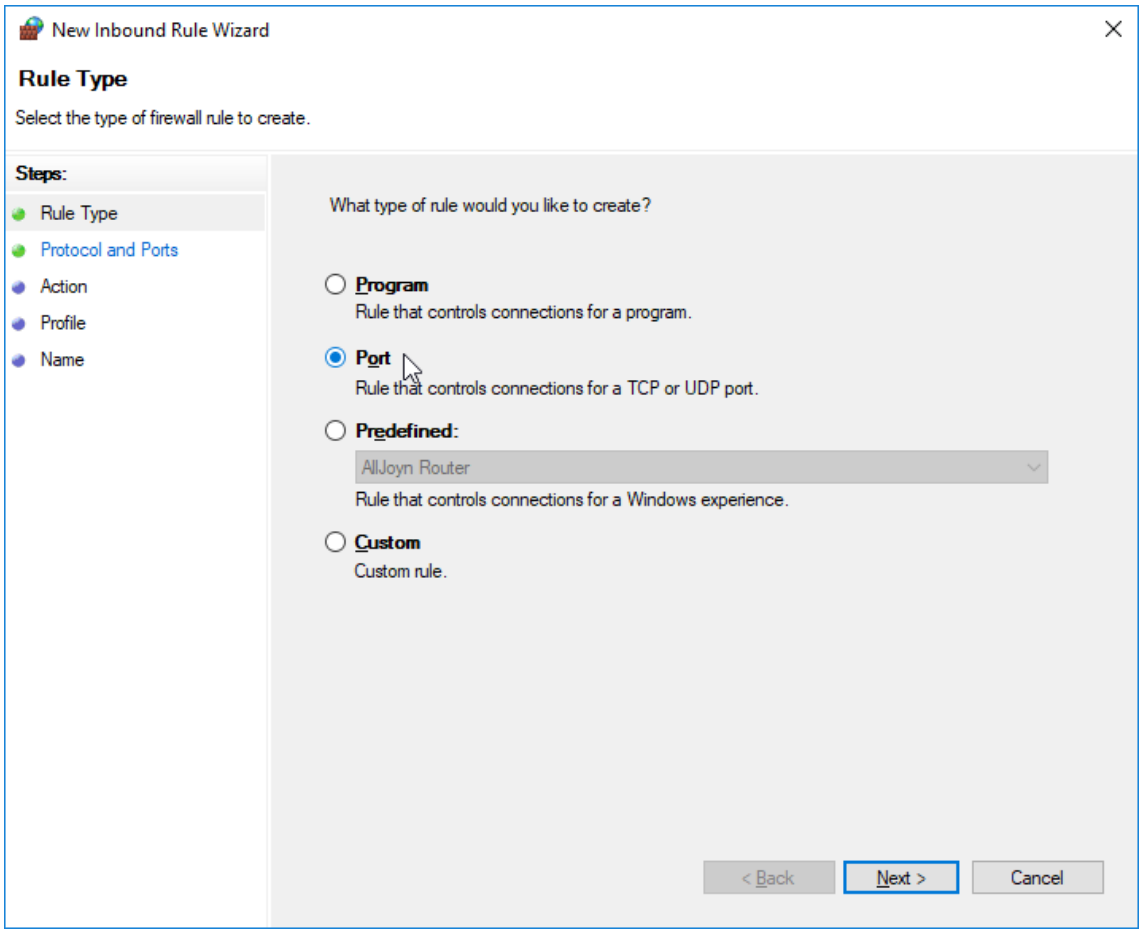
## Setting up Port 5432

Create Port 5432 in the **«Firewall with advanced security»**.

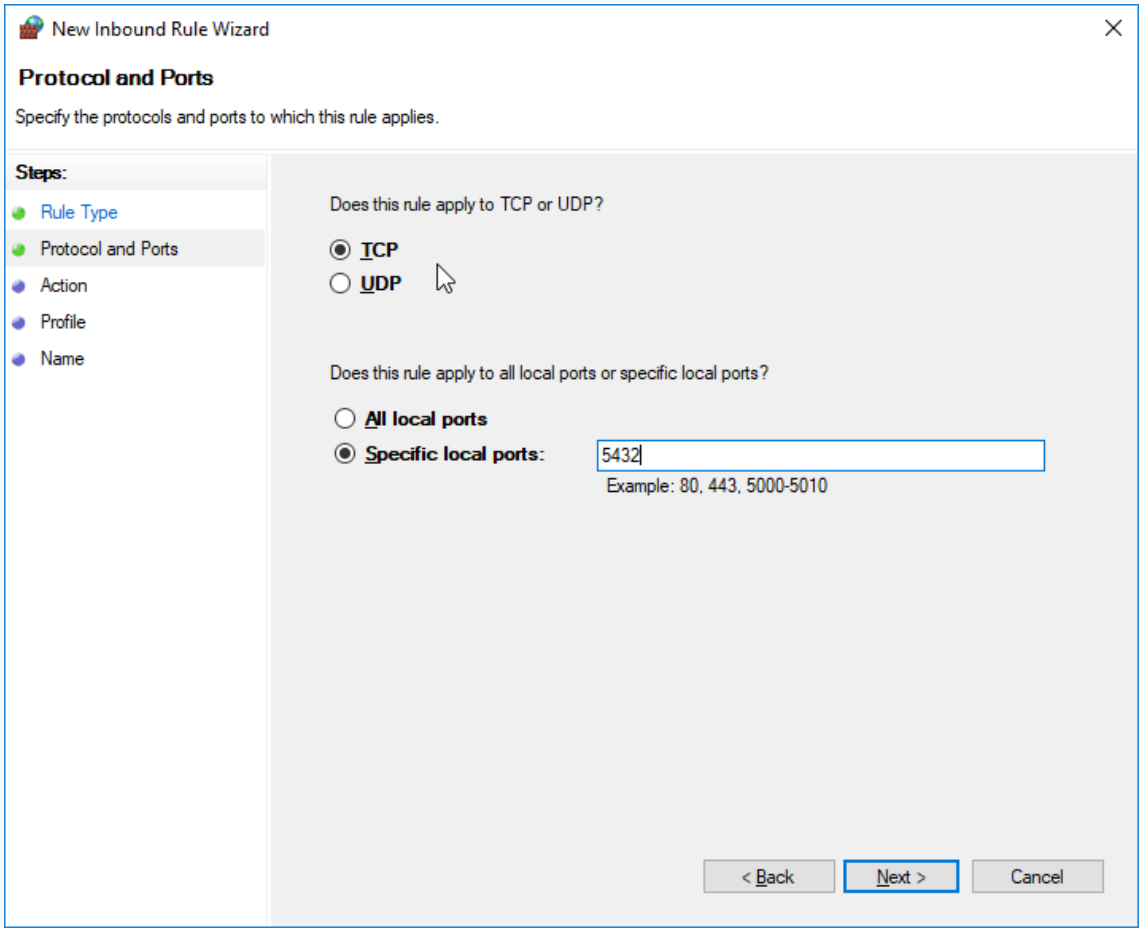
1. Select New Rule....



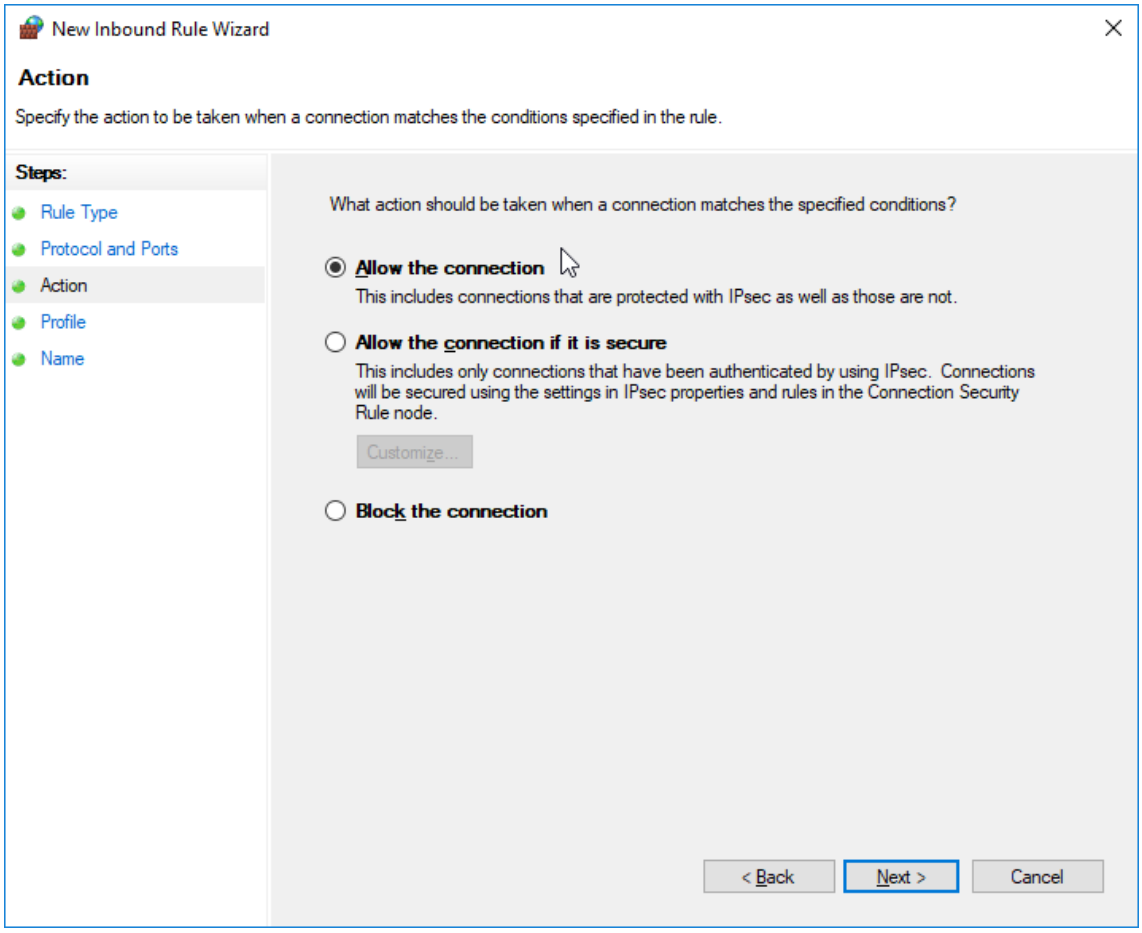

2. Select Rule Type.



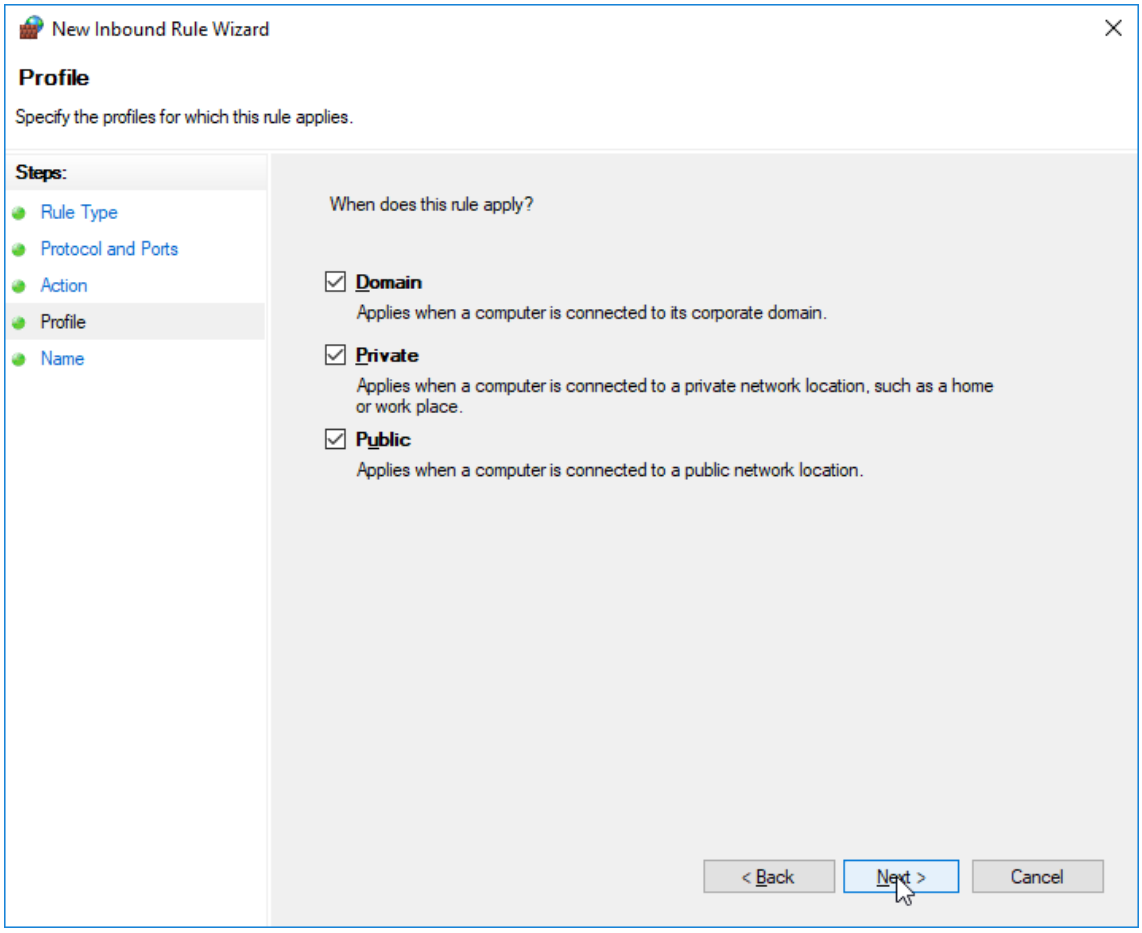
3. Select Protocols and Ports.



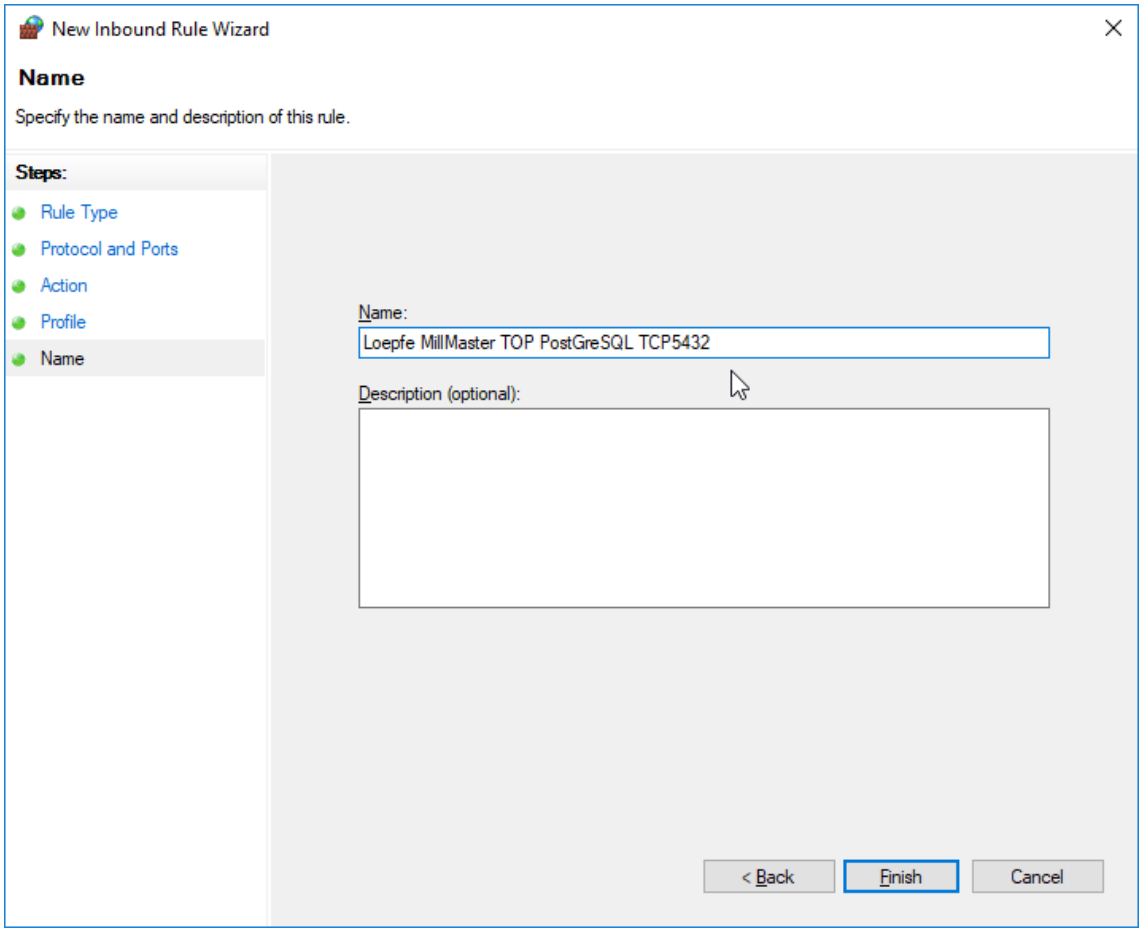
4. Select Action.



5. Select Profile.



6. Enter the name.




7. Confirm with Finish.

Question: Who provides support for further questions?

Reply: Loepfe Customer Support and Services Team is available via E-Mail service@loepfe.com for MillMaster TOP and the data structure. For the postgreSQL OBDC Driver under www.postgresql.org.

# 1.9 Annex

## Classification Definitions

| ID | Resource Key | Name |
|---|---|---|
| 11001<br>11004<br>11007 | ClassificationD | D Matrix |
| 11002<br>11005 | ClassificationDSplice | D Splice Matrix |
| 11003<br>11006<br>11008 | ClassificationF | F Matrix |
| 11009 | ClassificationP | P Matrix |

## Monitoring Definitions

| ID | Resource Key | Name |
|---|---|---|
| 12001 | MonitoringCutSummaryTotalCuts | TotalCuts |
| 12002 | MonitoringCutSummaryDCuts | D Cuts |
| 12003 | MonitoringCutSummaryFCuts | F Cuts |
| 12004 | MonitoringCutSummaryPCuts | P Cuts |
| 12005 | MonitoringNsltNepCuts | Nep Cuts |
| 12006 | MonitoringNsltShortCuts | Short Cuts |
| 12007 | MonitoringNsltLongCuts | Long Cuts |
| 12008 | MonitoringNsltThinCuts | Thin Cuts |
| 12009 | MonitoringDSpliceSplices | Splices |
| 12010 | MonitoringDSpliceSpliceCuts | Splice Cuts |
| 12011 | MonitoringDSpliceSpliceRepetitions | Splice Rep. |
| 12012 | MonitoringOffCountOffCountCutsPlus | OffCount Cuts + |
| 12013 | MonitoringOffCountOffCountCutsMinus | OffCount Cuts - |
| 12014 | MonitoringOffCountShortOffCountCutsPlus | Short OffCount Cuts + |
| 12015 | MonitoringOffCountShortOffCountCutsMinus | Short OffCount Cuts - |
| 12016 | MonitoringClusterShortClusterCuts | Short Cluster Cuts |
| 12017 | MonitoringClusterLongClusterCuts | Long Cluster Cuts |
| 12018 | MonitoringClusterThinClusterCuts | Thin Cluster Cuts |
| 12019 | MonitoringFCutsDark | F Cuts Dark |
| 12020 | MonitoringFCutsBright | F Cuts Bright |
| 12021 | MonitoringFClusterCutsDark | F Cluster Cuts Dark |
| 12022 | MonitoringFClusterCutsBright | F Cluster Cuts Bright |
| 12023 | MonitoringFDarkEvents Monitoring | F Dark Events |
| 12024 | MonitoringFBrightEvents Monitoring | F Bright Events |
| 12025 | MonitoringLabPackSfidCutsPlus | SFI/D Cuts + |
| 12026 | MonitoringLabPackSfidCutsMinus | SFI/D Cuts – |
| 12027 | MonitoringLabPackVcvCutsPlus | VCV Cuts + |
| 12028 | MonitoringLabPackVcvCutsMinus | VCV Cuts - |

| ID | Resource Key | Name |
|---|---|---|
| 12029 | MonitoringLabPackDifferenceSfi | Difference SFI/D |
| 12030 | MonitoringLabPackDifferenceVcv | Difference VCV |
| 12031 | MonitoringLabPackVarianceLike | Variance Like |
| 12032 | MonitoringSpecialBunchCuts | Bunch Cuts |
| 12033 | MonitoringSpecialUpperYarnCuts | Upper Yarn Cuts |
| 12034 | MonitoringPSetsSet1 | P Set 1 |
| 12035 | MonitoringPSetsSet2 | P Set 2 |
| 12036 | MonitoringPSetsSet3 | P Set 3 |
| 12037 | MonitoringPSetsSet4 | P Set 4 |
| 12038 | MonitoringPSetsSet5 | P Set 5 |
| 12039 | MonitoringPSetsSet6 | P Set 6 |
| 12040 | MonitoringPSetsSet7 | P Set 7 |
| 12041 | MonitoringPSetsSet8 | P Set 8 |
| 12042 | MonitoringPSetsSet9 | P Set 9 |
| 12043 | MonitoringAlarmsNsltStartup | NSLT |
| 12044 | MonitoringAlarmsOffCount | OffCount |
| 12045 | MonitoringAlarmsShortOffCount | Short OffCount |
| 12046 | MonitoringAlarmsShortCluster | Short Cluster |
| 12047 | MonitoringAlarmsLongCluster | Long Cluster |
| 12048 | MonitoringAlarmsThinCluster | Thin Cluster |
| 12049 | MonitoringAlarmsSfid | SFI/D |
| 12050 | MonitoringAlarmsVcv | VCV |
| 12051 | MonitoringAlarmsFCluster | F Cluster |
| 12052 | MonitoringAlarmsFStartup | F |
| 12053 | MonitoringAlarmsPStartup | P |
| 12054 | MonitoringPClassTotalCuts | Total Cuts |
| 12055 | MonitoringTextileOffLimitsTotalNumber | Total |
| 12056 | MonitoringTextileOffLimitsThreshold1 | Threshold 1 |
| 12057 | MonitoringTextileOffLimitsThreshold2 | Threshold 2 |
| 12058 | MonitoringTextileOffLimitsThreshold3 | Threshold 3 |

| ID | Resource Key | Name |
|---|---|---|
| 12059 | MonitoringTextileOffLimitsThreshold4 | Threshold 4 |
| 12060 | MonitoringTextileOffLimitsThreshold5 | Threshold 5 |
| 12061 | MonitoringClassAlertTotalNumber | Total |
| 12062 | MonitoringClassAlertThreshold1 | Threshold 1 |
| 12063 | MonitoringClassAlertThreshold2 | Threshold 2 |
| 12064 | MonitoringClassAlertThreshold3 | Threshold 3 |
| 12065 | MonitoringClassAlertThreshold4 | Threshold 4 |
| 12066 | MonitoringClassAlertThreshold5 | Threshold 5 |
| 12067 | MonitoringClassAlertThreshold6 | Threshold 6 |
| 12068 | MonitoringClassAlertThreshold7 | Threshold 7 |
| 12069 | MonitoringClassAlertThreshold8 | Threshold 8 |
| 12070 | MonitoringIpiAlarmTotalNumber | Total |
| 12071 | MonitoringIpiAlarmNeps | Neps |
| 12072 | MonitoringIpiAlarmThick | Thick |
| 12073 | MonitoringIpiAlarmThin | Thin |
| 12074 | MonitoringIpiAlarmSmall | Small |
| 12075 | MonitoringIpiAlarm2Minus4cm | 2 – 4 |
| 12076 | MonitoringIpiAlarm4Minus8cm | 4 – 8 |
| 12077 | MonitoringIpiAlarm8Minus20cm | 8 – 20 |
| 12078 | MonitoringIpiAlarm20Minus70cm | 20 – 70 |
| 12079 | MonitoringIpiSurveyedLength | Monitoring IPI Length |
| 12080 | MonitoringIpiDiameterNeps Neps | Neps |
| 12081 | MonitoringIpiDiameterThick | Thick |
| 12082 | MonitoringIpiDiameterThin | Thin |
| 12083 | MonitoringIpiDiameterSmall | Small |

| ID | Resource Key | Name |
|---|---|---|
| 12084 | MonitoringIpiLength2Minus4cm | 2 – 4 |
| 12085 | MonitoringIpiLength4Minus8cm | 4 – 8 |
| 12086 | MonitoringIpiLength8Minus20cm | 8 – 20 |
| 12087 | MonitoringIpiLength20Minus70cm | 20 – 70 |
| 12088 | MonitoringLengthWoundLength | Wound Length |
| 12089 | MonitoringSfiD | SFI/D |
| 12090 | MonitoringVcv | VCV |
| 12091 | MonitoringSfi | SFI |
| 12092 | MonitoringDClassTotalCuts | Total D Class Cuts |
| 12093 | MonitoringDSpliceClassTotalCuts | Total D Splice Class Cuts |
| 12094 | MonitoringFClassTotalCuts | Total F Class Cuts |
| 12097 | MonitoringSystemAlarms | System |
| 12098 | MonitoringSystemCuts | System |
| 12099 | MonitoringDClassTotalNotClassifiedCuts | Unclassified |
| 12100 | MonitoringDSpliceClassTotalNotClassifiedCuts | Total Cuts (unclassified) |
| 12101 | MonitoringDClassTotalClassifiedCuts | Classified |
| 12102 | MonitoringDSpliceClassTotalClassifiedCuts | Total Cuts (classified) |
| 120103 | MonitoringProducedAmount | Produced Amount |

## Double Setting Definitions

| ID | Resource Key | Name |
|---|---|---|
| 4002 | DoubleSettingClearerSettings AcceptedPilotsNumber | |
| 4003 | DoubleSettingClearerSettingsAdjustState | |
| 8002 | DoubleSettingClearerSettings ClassAlarmA1Active | A1 |
| 8003 | DoubleSettingClearerSettings ClassAlarmA1EventLimit | A1 Limit |
| 8004 | DoubleSettingClearerSettings ClassAlarmA1ThresholdId | |
| 8005 | DoubleSettingClearerSettings ClassAlarmA2Active | A2 |
| 8006 | DoubleSettingClearerSettings ClassAlarmA2EventLimit | A2 Limit |
| 8007 | DoubleSettingClearerSettings ClassAlarmA2ThresholdId | |
| 8008 | DoubleSettingClearerSettings ClassAlarmA3Active | A3 |
| 8009 | DoubleSettingClearerSettings ClassAlarmA3EventLimit | A3 Limit |
| 8010 | DoubleSettingClearerSettings ClassAlarmA3ThresholdId | |
| 8011 | DoubleSettingClearerSettings ClassAlarmA4Active | A4 |
| 8012 | DoubleSettingClearerSettings ClassAlarmA4EventLimit | A4 Limit |
| 8013 | DoubleSettingClearerSettings ClassAlarmA4ThresholdId | |
| 8001 | DoubleSettingClearerSettings ClassAlarmAction | Action |
| 8014 | DoubleSettingClearerSettings ClassAlarmB1Active | B1 |
| 8015 | DoubleSettingClearerSettings ClassAlarmB1EventLimit | B1 Limit |
| 8016 | DoubleSettingClearerSettings ClassAlarmB1ThresholdId | |
| 8017 | DoubleSettingClearerSettings ClassAlarmB2Active | B2 |
| 8018 | DoubleSettingClearerSettings ClassAlarmB2EventLimit | B2 Limit |
| 8019 | DoubleSettingClearerSettings ClassAlarmB2ThresholdId | |
| 8020 | DoubleSettingClearerSettings ClassAlarmB3Active | B3 |
| 8021 | DoubleSettingClearerSettings ClassAlarmB3EventLimit | B3 Limit |
| 8022 | DoubleSettingClearerSettings ClassAlarmB3ThresholdId | |
| 8023 | DoubleSettingClearerSettings ClassAlarmB4Active | B4 |
| 8024 | DoubleSettingClearerSettings ClassAlarmB4EventLimit | B4 Limit |
| 8025 | DoubleSettingClearerSettings ClassAlarmB4ThresholdId | |
| 8026 | DoubleSettingClearerSettings ClassAlarmC1Active | C1 |

| ID | Resource Key | Name |
|---|---|---|
| 8027 | DoubleSettingClearerSettings ClassAlarmC1EventLimit | C1 Limit |
| 8028 | DoubleSettingClearerSettings ClassAlarmC1ThresholdId | |
| 8029 | DoubleSettingClearerSettings ClassAlarmC2Active | C2 |
| 8030 | DoubleSettingClearerSettings ClassAlarmC2EventLimit | C2 Limit |
| 8031 | DoubleSettingClearerSettings ClassAlarmC2ThresholdId | |
| 8032 | DoubleSettingClearerSettings ClassAlarmC3Active | C3 |
| 8033 | DoubleSettingClearerSettings ClassAlarmC3EventLimit | C3 Limit |
| 8034 | DoubleSettingClearerSettings ClassAlarmC3ThresholdId | |
| 8035 | DoubleSettingClearerSettings ClassAlarmC4Active | C4 |
| 8036 | DoubleSettingClearerSettings ClassAlarmC4EventLimit | C4 Limit |
| 8037 | DoubleSettingClearerSettings ClassAlarmC4ThresholdId | |
| 8038 | DoubleSettingClearerSettings ClassAlarmD1Active | D1 |
| 8039 | DoubleSettingClearerSettings ClassAlarmD1EventLimit | D1 Limit |
| 8040 | DoubleSettingClearerSettings ClassAlarmD1ThresholdId | |
| 8041 | DoubleSettingClearerSettings ClassAlarmD2Active | D2 |
| 8042 | DoubleSettingClearerSettings ClassAlarmD2EventLimit | D2 Limit |
| 8043 | DoubleSettingClearerSettings ClassAlarmD2ThresholdId | |
| 8044 | DoubleSettingClearerSettings ClassAlarmD3Active | D3 |
| 8045 | DoubleSettingClearerSettings ClassAlarmD3EventLimit | D3 Limit |
| 8046 | DoubleSettingClearerSettings ClassAlarmD3ThresholdId | |
| 8047 | DoubleSettingClearerSettings ClassAlarmD4Active | D4 |
| 8048 | DoubleSettingClearerSettings ClassAlarmD4EventLimit | D4 Limit |
| 8049 | DoubleSettingClearerSettings ClassAlarmD4ThresholdId | |
| 8050 | DoubleSettingClearerSettings ClassAlarmEActive | E |
| 8051 | DoubleSettingClearerSettings ClassAlarmEEventLimit | E Limit |
| 8052 | DoubleSettingClearerSettingsClassAlarmEThresholdId | |
| 8053 | DoubleSettingClearerSettings ClassAlarmFActive | F |
| 8054 | DoubleSettingClearerSettings ClassAlarmFEventLimit | F Limit |
| 8055 | DoubleSettingClearerSettings ClassAlarmFThresholdId | |

| ID | Resource Key | Name |
|---|---|---|
| 8056 | DoubleSettingClearerSettings ClassAlarmGActive | G |
| 8057 | DoubleSettingClearerSettings ClassAlarmGEventLimit | G Limit |
| 8058 | DoubleSettingClearerSettings ClassAlarmGThresholdId | |
| 8059 | DoubleSettingClearerSettings ClassAlarmH1Active | H1 |
| 8060 | DoubleSettingClearerSettings ClassAlarmH1EventLimit | H1 Limit |
| 8061 | DoubleSettingClearerSettings ClassAlarmH1ThresholdId | |
| 8062 | DoubleSettingClearerSettings ClassAlarmH2Active | H2 |
| 8063 | DoubleSettingClearerSettings ClassAlarmH2EventLimit | H2 Limit |
| 8064 | DoubleSettingClearerSettings ClassAlarmH2ThresholdId | |
| 8065 | DoubleSettingClearerSettings ClassAlarmI1Active I1 | I1 |
| 8066 | DoubleSettingClearerSettings ClassAlarmI1EventLimit | I1 Limit |
| 8067 | DoubleSettingClearerSettings ClassAlarmI1ThresholdId | |
| 8068 | DoubleSettingClearerSettings ClassAlarmI2Active | I2 |
| 8069 | DoubleSettingClearerSettings ClassAlarmI2EventLimit | I2 Limit |
| 8070 | DoubleSettingClearerSettings ClassAlarmI2ThresholdId | |
| 4004 | DoubleSettingClearerSettings DAbsBase | |
| 2003 | DoubleSettingClearerSettings DChannelClearing | Clearing |
| 2007 | DoubleSettingClearerSettings DChannelDL | DL |
| 2005 | DoubleSettingClearerSettings DChannelDS | DS |
| 2008 | DoubleSettingClearerSettings DChannelLL | |
| 2006 | DoubleSettingClearerSettings DChannelLS | LS |
| 2009 | DoubleSettingClearerSettings DChannelMinusD | -D |
| 2010 | DoubleSettingClearerSettings DChannelMinusL | -L |
| 2004 | DoubleSettingClearerSettings DChannelN | N |
| 2120 | DoubleSettingClearerSettings DChannelNsltStartupAlarmLimit | Alarm Limit |
| 2011 | DoubleSettingClearerSettings DChannelNsltStartupRepetitions | Rep. NSLT Startup |

| ID | Resource Key | Name |
|---|---|---|
| 2012 | DoubleSettingClearerSettings DClassClearing | Clearing |
| 2129 | DoubleSettingClearerSettings FClusterBrightAlarmLimit | Alarm Limit |
| 2079 | DoubleSettingClearerSettings FClusterBrightClearing | Clearing |
| 2081 | DoubleSettingClearerSettings FClusterBrightFaults | Faults |
| 2080 | DoubleSettingClearerSettings FClusterBrightObsLength | Obs. Length |
| 2082 | DoubleSettingClearerSettings FClusterBrightRepetitions | Repetitions |
| 2128 | DoubleSettingClearerSettings FClusterDarkAlarmLimit | Alarm Limit |
| 2075 | DoubleSettingClearerSettings FClusterDarkClearing | Clearing |
| 2077 | DoubleSettingClearerSettings FClusterDarkFaults | Faults |
| 2076 | DoubleSettingClearerSettings FClusterDarkObsLength | Obs. Length |
| 2078 | DoubleSettingClearerSettings FClusterDarkRepetitions | Repetitions |
| 7001 | DoubleSettingClearerSettings FClusterRepetitions | Rep. F Cluster |
| 2071 | DoubleSettingClearerSettings FConfigurationBrightClearing | Clearing Bright |
| 2070 | DoubleSettingClearerSettings FConfigurationDarkClearing | Clearing Dark |
| 2073 | DoubleSettingClearerSettings FConfigurationFOrganicFilter | Organic Filter |
| 2131 | DoubleSettingClearerSettings FConfigurationFStartupAlarmLimit | Alarm Limit |
| 2072 | DoubleSettingClearerSettings FConfigurationFStartupRep | Rep. F Startup |
| 4005 | DoubleSettingClearerSettings Ff1BasBase | |
| 4006 | DoubleSettingClearerSettings Ff2BasBase | |
| 4007 | DoubleSettingClearerSettings FfCoefficientBright | |
| 4008 | DoubleSettingClearerSettings FfCoefficientDark | |
| 2139 | DoubleSettingClearerSettings FOffColorAlarmLimit | Alarm Limit |
| 2137 | DoubleSettingClearerSettings FOffColorBrightLimit | Bright Limit |
| 2135 | DoubleSettingClearerSettingsFOffColorClearing | Clearing |
| 2136 | DoubleSettingClearerSettings FOffColorDarkLimit | Dark Limit |
| 2138 | DoubleSettingClearerSettings FOffColorObsLength | Obs. Length |
| 6026 | DoubleSettingClearerSettings IpiAlarm20Minus70cmDifferenceMinus | Length 20 - 70 cm |

| ID | Resource Key | Name |
|---|---|---|
| 6025 | DoubleSettingClearerSettings IpiAlarm20Minus70cmDifferencePlus | Length 20 - 70 cm |
| 6024 | DoubleSettingClearerSettings IpiAlarm20Minus70cmThreshold | Length 20 - 70 cm |
| 6017 | DoubleSettingClearerSettings IpiAlarm2Minus4cmDifferenceMinus | Length 2 - 4 cm |
| 6016 | DoubleSettingClearerSettings IpiAlarm2Minus4cmDifferencePlus | Length 2 - 4 cm |
| 6015 | DoubleSettingClearerSettings IpiAlarm2Minus4cmThreshold | Length 2 - 4 cm |
| 6020 | DoubleSettingClearerSettings IpiAlarm4Minus8cmDifferenceMinus | Length 4 - 8 cm |
| 6019 | DoubleSettingClearerSettings IpiAlarm4Minus8cmDifferencePlus | Length 4 - 8 cm |
| 6018 | DoubleSettingClearerSettings IpiAlarm4Minus8cmThreshold | Length 4 - 8 cm |
| 6023 | DoubleSettingClearerSettings IpiAlarm8Minus20cmDifferenceMinus | Length 8 - 20 cm |
| 6022 | DoubleSettingClearerSettings IpiAlarm8Minus20cmDifferencePlus | Length 8 - 20 cm |
| 6021 | DoubleSettingClearerSettings IpiAlarm8Minus20cmThreshold | Length 8 - 20 cm |
| 6001 | DoubleSettingClearerSettings IpiAlarmGroupAction | Action |
| 6005 | DoubleSettingClearerSettings IpiAlarmNepsDifferenceMinus | Neps |
| 6004 | DoubleSettingClearerSettings IpiAlarmNepsDifferencePlus | Neps |
| 6003 | DoubleSettingClearerSettings IpiAlarmNepsThreshold | Neps |
| 6014 | DoubleSettingClearerSettings IpiAlarmSmallDifferenceMinus | Small |
| 6013 | DoubleSettingClearerSettings IpiAlarmSmallDifferencePlus | Small |
| 6012 | DoubleSettingClearerSettings IpiAlarmSmallThreshold | Small |
| 6002 | DoubleSettingClearerSettings IpiAlarmSpindleAction | Action |
| 6008 | DoubleSettingClearerSettings IpiAlarmThickDifferenceMinus | Thick |
| 6007 | DoubleSettingClearerSettings IpiAlarmThickDifferencePlus | Thick |
| 6006 | DoubleSettingClearerSettings IpiAlarmThickThreshold | Thick |
| 6011 | DoubleSettingClearerSettings IpiAlarmThinDifferenceMinus | Thin |
| 6010 | DoubleSettingClearerSettings IpiAlarmThinDifferencePlus | Thin |
| 6009 | DoubleSettingClearerSettings IpiAlarmThinThreshold | Thin |
| 2124 | DoubleSettingClearerSettings LongClusterAlarmLimit | Alarm Limit |
| 2045 | DoubleSettingClearerSettings LongClusterClearing | Clearing |
| 2046 | DoubleSettingClearerSettings LongClusterDiameter | Diameter |
| 2049 | DoubleSettingClearerSettings LongClusterFaults | Faults |

| ID | Resource Key | Name |
|---|---|---|
| 2047 | DoubleSettingClearerSettings LongClusterLength | Length |
| 2048 | DoubleSettingClearerSettings LongClusterObsLength | Obs. Length |
| 2050 | DoubleSettingClearerSettings LongClusterRepetitions | Repetitions |
| 2130 | DoubleSettingClearerSettings NepClusterAlarmLimit | Alarm Limit |
| 2115 | DoubleSettingClearerSettings NepClusterClearing | Clearing |
| 2116 | DoubleSettingClearerSettings NepClusterDiameter | Diameter |
| 2118 | DoubleSettingClearerSettings NepClusterFaults | Faults |
| 2117 | DoubleSettingClearerSettings NepClusterObsLength | Obs. Length |
| 2119 | DoubleSettingClearerSettings NepClusterRepetitions | Repetitions |
| 2121 | DoubleSettingClearerSettings OffCountAlarmLimit | Alarm Limit |
| 2025 | DoubleSettingClearerSettings OffCountClearing | Clearing |
| 2028 | DoubleSettingClearerSettings OffCountCoarse | Coarse |
| 2029 | DoubleSettingClearerSettings OffCountFine | Fine |
| 2027 | DoubleSettingClearerSettings OffCountMinusDiaDiff | - DiaDiff |
| 2030 | DoubleSettingClearerSettings OffCountObsLength | Obs. Length |
| 2026 | DoubleSettingClearerSettings OffCountPlusDiaDiff | + DiaDiff |
| 2031 | DoubleSettingClearerSettings OffCountRepetitions | Repetitions |
| 2026 | DoubleSettingClearerSettings OffLimitsAlarmAction | Action |
| 2031 | DoubleSettingClearerSettings OffLimitsAlarmSet1Active | Active |
| 5003 | DoubleSettingClearerSettings OffLimitsAlarmSet1Definition | Monitoring |
| 5017 | DoubleSettingClearerSettingsOffLimitsAlarmSet1LowerThreshold | Lower Limit |
| 5004 | DoubleSettingClearerSettings OffLimitsAlarmSet1Threshold | Limit |
| 5005 | DoubleSettingClearerSettings OffLimitsAlarmSet2Active | Active |
| 5006 | DoubleSettingClearerSettings OffLimitsAlarmSet2Definition | Monitoring |
| 5018 | DoubleSettingClearerSettings OffLimitsAlarmSet2LowerThreshold | Lower Limit |
| 5007 | DoubleSettingClearerSettings OffLimitsAlarmSet2Threshold | Limit |
| 5008 | DoubleSettingClearerSettings OffLimitsAlarmSet3Active | Active |
| 5009 | DoubleSettingClearerSettings OffLimitsAlarmSet3Definition | Monitoring |
| 5019 | DoubleSettingClearerSettings OffLimitsAlarmSet3LowerThreshold | Lower Limit |
| 5010 | DoubleSettingClearerSettings OffLimitsAlarmSet3Threshold | Limit |

| ID | Resource Key | Name |
|---|---|---|
| 5011 | DoubleSettingClearerSettings OffLimitsAlarmSet4Active | Active |
| 5012 | DoubleSettingClearerSettings OffLimitsAlarmSet4Definition | Monitoring |
| 5020 | DoubleSettingClearerSettings OffLimitsAlarmSet4LowerThreshold | Lower Limit |
| 5013 | DoubleSettingClearerSettings OffLimitsAlarmSet4Threshold | Limit |
| 5014 | DoubleSettingClearerSettings OffLimitsAlarmSet5Active | Active |
| 5015 | DoubleSettingClearerSettings OffLimitsAlarmSet5Definition | Monitoring |
| 5021 | DoubleSettingClearerSettings OffLimitsAlarmSet5LowerThreshold | Lower Limit |
| 5016 | DoubleSettingClearerSettings OffLimitsAlarmSet5Threshold | Limit |
| 2134 | DoubleSettingClearerSettings OffStandardBobbinLimitTextile CutA-larmLimit | Limit |
| 2133 | DoubleSettingClearerSettings OffStandard BobbinLimitYarn-BreaksInProcent | Average Yarn Breaks |
| 2084 | DoubleSettingClearerSettings PConfigurationClearing | Clearing |
| 2113 | DoubleSettingClearerSettings PConfigurationLimit | Limit |
| 2132 | DoubleSettingClearerSettings PConfigurationPStartupAlarmLimit | Alarm Limit |
| 2085 | DoubleSettingClearerSettings PConfigurationPStartupRep | Rep. P Startup |
| 2114 | DoubleSettingClearerSettings PConfigurationRefLength | Ref. Length |
| 2150 | DoubleSettingClearerSettings PCurve_Point0 | 0 cm |
| 2151 | DoubleSettingClearerSettings PCurve_Point0p5 | 0.5 cm |
| 2152 | DoubleSettingClearerSettings PCurve_Point1 | 1 cm |
| 2153 | DoubleSettingClearerSettings PCurve_Point1p5 | 1.5 cm |
| 2154 | DoubleSettingClearerSettings PCurve_Point2 | 2 cm |
| 2155 | DoubleSettingClearerSettings PCurve_Point3 | 3 cm |
| 2156 | DoubleSettingClearerSettings PCurve_Point4 | 4 cm |
| 2157 | DoubleSettingClearerSettings PCurve_Point6 | 7 cm |
| 2158 | DoubleSettingClearerSettings PCurve_Point8 | 8 cm |
| 4001 | DoubleSettingClearerSettings PilotsNumber | |
| 2126 | DoubleSettingClearerSettings SfidAlarmLimit | Alarm Limit |
| 2057 | DoubleSettingClearerSettings SfidClearing | Clearing |
| 2061 | DoubleSettingClearerSettings SfidMinusLimit | - Limit |
| 2062 | DoubleSettingClearerSettings SfidObsLength | Obs. Length |

| ID | Resource Key | Name |
|---|---|---|
| 2060 | DoubleSettingClearerSettings SfidPlusLimit | + Limit |
| 2058 | DoubleSettingClearerSettings SfidReference | Reference |
| 2063 | DoubleSettingClearerSettings SfidRepetitions | Repetitions |
| 2123 | DoubleSettingClearerSettings ShortClusterAlarmLimit | Alarm Limit |
| 2039 | DoubleSettingClearerSettings ShortClusterClearing | Clearing |
| 2040 | DoubleSettingClearerSettings ShortClusterDiameter | Diameter |
| 2043 | DoubleSettingClearerSettings ShortClusterFaults | Faults |
| 2041 | DoubleSettingClearerSettings ShortClusterLength | Length |
| 2042 | DoubleSettingClearerSettings ShortClusterObsLength | Obs. Length |
| 2044 | DoubleSettingClearerSettings ShortClusterRepetitions | Repetitions |
| 2122 | DoubleSettingClearerSettings ShortOffCountAlarmLimit | Alarm Limit |
| 2032 | DoubleSettingClearerSettings ShortOffCountClearing | Clearing |
| 2035 | DoubleSettingClearerSettings ShortOffCountCoarse | Coarse |
| 2036 | DoubleSettingClearerSettingsShortOffCountFine | Fine |
| 2034 | DoubleSettingClearerSettings ShortOffCountMinusDiaDiff | - DiaDiff |
| 2037 | DoubleSettingClearerSettings ShortOffCountObsLength | Obs. Length |
| 2033 | DoubleSettingClearerSettings ShortOffCountPlusDiaDiff | + DiaDiff |
| 2038 | DoubleSettingClearerSettings ShortOffCountRepetitions | Repetitions |
| 2021 | DoubleSettingClearerSettings SpliceChannelCheckLength | Check Length |
| 2013 | DoubleSettingClearerSettings SpliceChannelClearing | Clearing |
| 2017 | DoubleSettingClearerSettings SpliceChannelDL | DL |
| 2015 | DoubleSettingClearerSettings SpliceChannelDS | DS |
| 2018 | DoubleSettingClearerSettings SpliceChannelLL | LL |
| 2016 | DoubleSettingClearerSettings SpliceChannelLS | LS |
| 2019 | DoubleSettingClearerSettings SpliceChannelMinusD | -D |
| 2020 | DoubleSettingClearerSettings SpliceChannelMinusL | -L |
| 2014 | DoubleSettingClearerSettings SpliceChannelN | N |
| 2022 | DoubleSettingClearerSettings SpliceClassClearing | Clearing |
| 2051 | DoubleSettingClearerSettings ThinClusterAlarmLimit | Alarm Limit |
| 2052 | DoubleSettingClearerSettings ThinClusterClearing | Clearing |

| ID | Resource Key | Name |
|---|---|---|
| 2055 | DoubleSettingClearerSettings ThinClusterDiameter | Diameter |
| 2053 | DoubleSettingClearerSettings ThinClusterFaults | Faults |
| 2054 | DoubleSettingClearerSettings ThinClusterLength | Length |
| 2056 | DoubleSettingClearerSettings ThinClusterObsLength | Obs. Length |
| 2056 | DoubleSettingClearerSettings ThinClusterRepetitions | Repetitions |
| 2024 | DoubleSettingClearerSettings UpperYarnLimit | Limit |
| 2023 | DoubleSettingClearerSettings UpperYarnMonitoring | Monitoring |
| 2127 | DoubleSettingClearerSettings VcvAlarmLimit | Alarm Limit |
| 2064 | DoubleSettingClearerSettings VcvClearing | Clearing |
| 2066 | DoubleSettingClearerSettings VcvMinusLimit | - Limit |
| 2067 | DoubleSettingClearerSettings VcvObsLength | Obs. Length |
| 2065 | DoubleSettingClearerSettings VcvPlusLimit | + Limit |
| 2068 | DoubleSettingClearerSettings VcvRepetitions | Reference |
| 3001 | DoubleSettingClearerSettings YarnCount | Repetitions |
| 3003 | DoubleSettingClearerSettings YarnCountThreadCount | SFI/D |
| 3002 | DoubleSettingClearerSettings YarnCountUnit | Yarn Count |

## String Setting Definitions

| ID | Resource Key | Name |
|---|---|---|
| 2001 | StringSettingClearerSettingsPropertiesName | Article Name |
| 2002 | StringSettingClearerSettingsDescription | Description |
| 9001 | StringSettingClearerSettingsMaterial | Material |

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