



Staging Tables and Scheduling

PredictMate™ receives data from staging tables populated by SCADA or other sources. Add data to PredictMate simply by adding rows to the "ODBC Import" staging tables.

SCADA → ODBC Import → PredictMate

ODBC Import runs either on demand from the menu or as a SCADA Scheduled task, usually every hour. If PredictMate receives data more often than every hour, the latest record is updated during that hour. PredictMate can receive a maximum of about 14 million readings (28 million to the network version) before archival is necessary, but any more than a few million readings at a site indicates more than enough data. To archive readings select the Equipment Readings menu Actions, Export, Archive.

Staging tables allow a common ground between SCADA and the CMMS. The SCADA vendor does not need to install drivers and other connection requirements for PredictMate. PredictMate does not connect with the databases for SCADA. Otherwise it might attempt SQL statements that cause too much traffic in the SCADA databases or violate security issues. PredictMate accepts only valid rows from the staging tables according to simple rules.

Staging Tables

ODBC Import creates a schema with the following tables in any of these DBMS: MS Access, SQL Server, SyBase, MySQL, Oracle.

In PredictMate select File > ODBC Import > Create in DSN. Then SCADA can add rows.

ImptEquip - Equipment to PredictMate and Davison CMMS

Adding rows to ImptEquip is not needed if equipment is already added to PredictMate or Davison CMMS. Import is also possible from the Equipment menu Actions, Import, Add.

Predictive readings need related values only in the columns EQ\_CODE, EQ\_DESC.

Columns	Type	Length	** Indicates required value. Other columns can be empty.
EQ_CODE	Text	70	** Equipment unit code. Must be a unique code.
EQ_DESC	Text	80	** Equipment unit description
SRVLASTUPD	Text	16	** Date and time that equipment is added to this table. (ccyyymmddhhmmss)

Optional Equipment Columns, values not required for PredictMate

To NOT include these columns, select "Predictive only" when prompted in Create in DSN.

NOTINSERVC	Text	1	Leave blank for units that are in service.
LMT_READ	Numb	11,2	Equipment reading - not used with PredictMate
COMP_CODE	Text	10	Component code not used with PredictMate
COMP_DESC	Text	80	Not used with PredictMate
LOCA_CODE	Text	10	Location code - not required.
LOCA_DESC	Text	45	Needed only if Loca_Code is filled and is a new location.
NOTES	Memo	10	Notes and nameplate data not used with PredictMate

Impt\_PdM - Predictive readings

EQ_CODE	Text	70	** Equipment unit code. Must relate to Equipment.
READ_TYPE	Text	20	** Type of reading (Vibration, Hours, Cycles, Amperage, others)
READ_POS	Text	3	Not required. Indicates where the reading is taken.
DATM_READ	Text	16	Date, time of reading. If empty, current date and time (or SRVLASTUPD if configured)
READ_VAL	Numb	11,4	** Numeric value of reading. Maximum 6 integers, 4 decimals (999999.9999)
SRVLASTUPD	Text	16	** Date and time that reading is added to this table (ccyyymmddhhmmss)

Scheduling

SCADA adds rows to the staging tables continuously, usually at the top of every hour.

ODBC Import usually runs from a scheduler every hour soon after the staging tables are filled by SCADA. Run C:\DMSsystem\ImportRun.exe from the scheduler.