How to work with RS Production Standard SQL-table integration

Two way order integration

The following tables are the interfaces between the external system and RSProduction.

Production plan, from ERP to RSProduction

[**ID**] [int] IDENTITY(1,1) NOT NULL	Auto incremented ID provided by MSSQL
[**OrderNumber**] [nvarchar](128) NOT NULL	
[**OperationNumber**] [int] NULL	If the same order is available on more than one machine an operation number may be handy
[**OrderedQuantity**] [float] NOT NULL	
[**OrderStatus**] [int] NULL	The status of the order. We only have one status at the moment: 99 99 means that the order is aborted and should not be visible to the operators anymore.
[**PlannedStartDate**] [datetime] NULL	Visible to the operators
[**PlannedFinishedDate**] [datetime] NULL	Visible to the operators
[**PlanningGroup**] [nvarchar](128) NOT NULL	The group that the order should be available on. A planning group could be one or more machines. The configuration of which machine that belongs to a planning group is done in RS Production.
[**Priority**] [float] NULL	Orders are sorted by this number in the Operator UI if available.
[**ReportNumber**] [nvarchar](128) NULL	When a report is created in RS Production this number will be added to that report when it's saved to the database.
[**ArticleNumber**] [nvarchar](128) NOT NULL	
[**ArticleName**] [nvarchar](128) NOT NULL	
[**ArticleInstruction**] [nvarchar](128) NULL	
[**ArticleType**] [nvarchar](128) NULL	
[**PreviousOperationStatus**] [nvarchar](128) NULL	This field is not used by the integration yet.
[**IncomingMaterialStatus**] [nvarchar](128) NULL	This field is not used by the integration yet.
[**AllocatedSetupTime**] [float] NULL	
[**OptimalCycleTime**] [float] NULL	The optimal cycle time is the time it should take for the machine to produce one unit * UnitFactor. This will override the settings made in RS Production. If it's not provided we will use the settings in RS Production.
[**UnitFactor**] [float] NULL	Factor for calculating produced amount from number of captured machine cycles. If not provided 1 will be used as default

All article fields will be combined to form an article object in RS Production. If the article number already exists a new one will not be created, but the existing will be updated.

If there are more than one row with the same article number but different article names, instructions or type, the data in RSProduction may change every read, so avoid it.

All fields with NOT NULL except ID will have to be Provided by the integrator.
If there is need for an update of the information on an order, edit the row, don't add a new one.
The integration will read from the table once every 10 minutes by default but can be changed if needed.

Report integration, from RSProduction to ERP

The following table is the interface between RSProduction and the external system.

[**ID**] [int] IDENTITY(1,1) NOT NULL	
[**CreateDate**] [datetime] NOT NULL	
[**OrderNumber**] [nvarchar](128) NOT NULL	
[**Operator**] [nvarchar](128) NULL	The name or login code (depending on a setting in RS Production) of the operator that was logged in to the machine at the time.
[**StartReport**] [bit] NULL	If this report is to signal that the report is started in RS Production. Can be sent first time an order is started or every time an order is started depending on a setting in RS Production.
[**PartReport**] [bit] NULL	A part report can be done while an order is ongoing to report the amount that is produced up to that point.
[**PauseReport**] [bit] NULL	The order is paused in RS Production.
[**FinalReport**] [bit] NULL	The order is completed in RS Production.
[**ReportedAmount**] [float] NULL	This report's reported amount.
[**ScrappedAmount**] [float] NULL	This report's scrapped amount.
[**PrintFlag**] [bit] NULL	Can be set by the operator if enabled. Is used by some erp systems to print a slip for the order when it's done.
[**PrintFlagQuantity**] [float] NULL	The amount to be set on the print flag
[**Executed**] [bit] NOT NULL	Should be updated to true by the retrieving end. So that it's possible to check in RSProduction if a report is retrieved by the ERP System.
[**ExecutionDate**] [datetime] NULL	Should be updated by the retrieving end. So that it's possible to check in RSProduction if a report is retrieved by the ERP System.
[**ExecutionMessage**] [nvarchar](max) NULL	Should be updated by the retrieving end if there is an error or any special information about the report. So that it's possible to check in RSProduction if a report is retrieved by the ERP System.
[**ReportNumber**] [nvarchar](128) NULL	Exists if it's provided by the OrderIntegration
[**SetupTime**] [float] NULL	The orders total setup time up until this report (in seconds).
[**ProductionTime**] [float] NULL	The orders total production time up until this report (in seconds).

Reports will be added to this table when they are done in RS Production.

If field is changed in this table the information will be synced back into RS Production