

# 18. Importer

Produmex Manufacturing offers importers for the following:

- Manufacturing Operation
- Bill of Materials
- Production Order

The importer processes a CSV file and adds a valid element/document to the company database.

## 18.1. Using the importer

### 18.1.1. Create import file

Create the CSV file. For more information about the file structure please see:

- Bills of Materials: [Bills of Materials import file](#)
- Manufacturing Operations: [Manufacturing Operations import file](#)
- Production orders: [Production order import file](#)

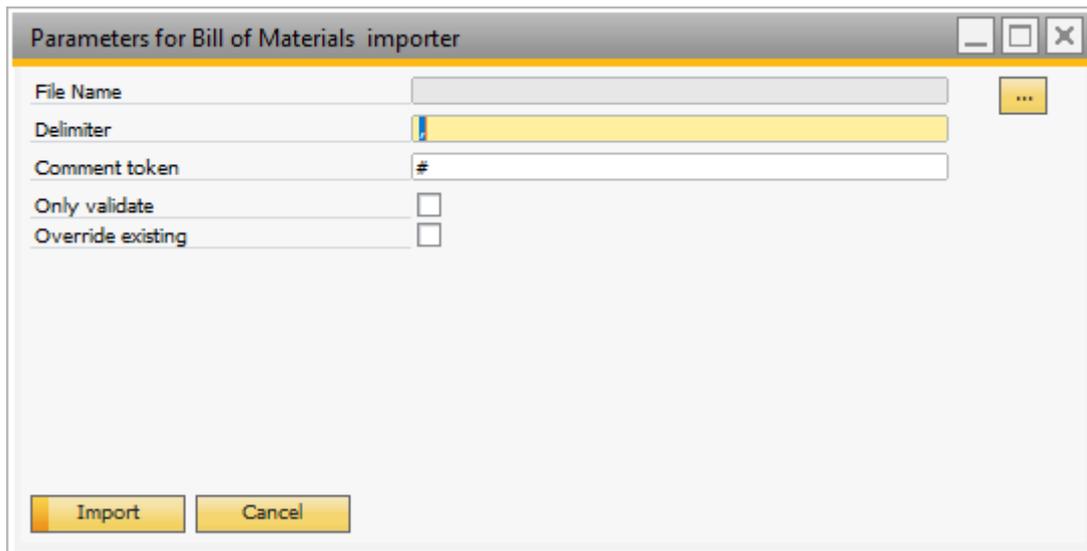
### 18.1.2. Open importer

Open the importer via the following path: Tools > Produmex Manufacturing > Produmex Data Management >

- To import Bills of Materials, click on: *Import Bills of Materials*
- To import Manufacturing Operations, click on: *Import Manufacturing Operations*
- To import Production orders, click on: *Import Production order*

### 18.1.3. Specify parameters

On the parameters form click on the '...' button and browse the CSV file.



Specify the importing parameters.

#### *Delimiter*

Specify the separator character that was used on the CSV file on the Delimiter field. The default delimiter is ','.

#### *Comment Token*

A Comment Token can be defined. Every row that begins with the comment token will be skipped. By default the comment token is '#'.

Please note: If you leave it empty, each line in the file will be processed.

#### *Override existing*

When importing a Bill of Materials or a Manufacturing operation, an additional 'Override existing' checkbox will be displayed. This parameter determines what the importer does when the Bill of Materials/Manufacturing Operation already exists.

- If it is checked, the existing document is deleted and replaced with the new one from CSV file. If there are many BoMs/Manufacturing Operations for the same product in the file, the last valid one will be loaded.
- If it is not checked, the existing documents remain intact, an error message is generated for the one in CSV file. If there are many BoMs/Manufacturing Operations for the same product in the file, the first valid one will be loaded.

Please note: Whenever a production order is imported, a new production order is added. The importer will not override existing production orders.

### **18.1.4. Validate**

Before starting the import, validate the CSV file.

Check the 'Only validate' box. If this box is checked, the document will only be validated but will not be imported to the company database. Click on the 'Import' button to start the validation.

For more information about the validation steps please see: [Validation](#)

The results of the validation will be displayed on the result form.



On the header the path to the import file and the importing parameters are displayed.

Elements/documents included in the selected import file will be divided into three tabs:

- Documents/elements proven to be valid are listed on the '*Successfully loaded*' tab.
- Documents/elements proven to be invalid due format errors are listed on the '*Format error*' tab.
- Documents/elements proven to be invalid due content errors are listed on the '*Content error*' tab.

The number of the grid elements is displayed next to the tab title.

When importing Bill of Materials or Production orders, the *Product Number* is the item code of the main product. When importing Manufacturing operations, the *Product Number* is the item code of the validated manufacturing operation.

The *Line Reference* is the number of the source line in the CSV file.

On the *Message* field further information are displayed about the entry.

### 18.1.5. Import

After every line of the import file is proven to be valid, start the import. It is recommended to only start the import after every line of the import file is proven to be valid. Make sure that the 'Only validation' checkbox is not checked.

Set the import parameters as described above and click on the 'Import' button to start the import. Please note: The system will always validate the file before the import, regardless of whether it was validated before or not.

The results of the import will be displayed on the results form.

- When importing a Bill of Materials, a link to the imported Bill of Material is added to the *Product Number* field.
- When importing a Manufacturing Operation, a link to the imported Manufacturing Operation is added to the *Product Number* field.
- When importing a Production Order, a link to the Bill of Material of the main product is added on the *Product Number* field. An additional *Document Number* field is displayed. The document number and a link to the generated production order is displayed on the field. All generated production orders will be in 'Planned' status, and their type will be 'Special'. The production order will always be created based on the imported data, regardless whether its main product has a production BoM or not.



## 18.2. File structure

Element names/codes are case sensitive.

### 18.2.1. Manufacturing operation

Download an example CSV file from here: [Manufacturing operation importer file example](#)

No.	Name	Mandatory	Possible types/values	Description
1	Item Series		Numeric	If left empty, the value will be 'Manual'.
2	Operation Code	✓	Text	The code of the operation. Please note: If it is the code of an existing operation, the following can happen: If the 'override existing' checkbox is checked, the operation will be overridden. If the override existing checkbox is not checked, a content error will be generated and the manufacturing operation will not be imported.
3	Operation Name		Text	
4	Is Outsourcable		Y/N	N - No Y - Yes If left empty, the value will be 'N'.
5	Item Group		Number	The item group code. You can find the Item Group codes in the OITB table. If left empty, the system will use the item group set on the 'Item Group for Operation' field of the Master Data tab of the Produmex Manufacturing settings.
6	Before Time		Number	Importer converts it to a base time using the <i>Operation Time UoM</i> from the row.
7	Safety Time		Number	
8	Setup Time		Number	
9	Job Time	✓	Number	
10	Teardown Time		Number	
11	After Time		Number	
12	Time Base		Number	
13	Operation Break		Integer between 0 and 5	0 - 3 - Allowed 1 - Denied 2 - Allowed WC 4 - Allowed NBP 5 - Allowed WCNBP If left empty, the value will be '3'.
14	Operation Time UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*

No.	Name	Mandatory	Possible types/values	Description
15	Is parallel operation		Y/N	N - No Y - Yes If left empty, the value will be 'N'.
16	Max Parallel Operations		Integer	
17	Allocation window		Number	The importer converts it to a base time using Allocation Window UoM from actual row.
18	Allocation window UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
19	Min. Job Quantity		Number	
20	Feature	✓	Text	Must be an existing work center feature.
21	Is Mandatory Work Center		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
22	Preferred Work Center		Text	Must be an existing work center feature. If the 'Is Mandatory Work Center' value is Y, this field must be filled.

\* In order to use Produmex Manufacturing integrated with Produmex WMS. the UoM must exist in the Units of Measure - Setup (OUOM) standard SBO table as well.

If there is a value beyond 21th column, the row is invalid. A format error message is generated, and the manufacturing operation is not processed.

### 18.2.2. Bills of Materials

The first character of a row defines the row type and drives the processing of the row. If a comment token was defined, all rows beginning with the given character are skipped.

The following row types are supported:

- H - Header row
- I - Item row
- S - Supplier row
- R - Resource row
- T - Text row

Every other first character, except the comment token, generates an error message.

Download an example CSV file from here: [Bills of Materials importer file example](#)

#### Header row type

It represents the header of the Bill of Materials.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	H	
2	Product No.	✓	Text	Item code of the product/sub-assembly. Must be a valid item code.
3	Planned Average Production Size		Number	
4	Quantity		Number	If left empty, the value will be 1.
5	Warehouse (To)		Text	Must be a valid code of a warehouse.
6	Price List		Integer	Must be a valid code of a price list.
7	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
8	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
9	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
10	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
11	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
12	Project		Text	Must be a valid identifier of a project.
13	Calculation Base Quantity		Number	
14	Custom Code		Text	
15	Is Auto Roll		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
16	Milestone type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends on Begin 3 - Depends on Every 4 - Depends on End If left empty, the value will be '0'.
17	Operation Granularity		Number	
18	Recipe Version		Number	<i>No validation</i>
19	Rejected Warehouse		Text	Must be a valid code of a warehouse.
20	Timestamp		Text	<i>No validation</i>

If there is a value beyond 20th column, the row is invalid. A format error message is generated, and BoM is not processed.

### Item row type

It represents a row on the grid of the Bill of Materials. The BoM row type is defined by the row sub type (second column) in the import file.

The first 15 column is the same for every-sub type. If the sub type of the row is operation, operation

specific information can be added on the 16-39 columns.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	I	
2	Row sub-type	✓	Integer between 1 and 8	1 - Material 2 - Operation 3 - Unfinished Material 4 - Supplier Material 5 - By-Product 6 - Unfinished Product 7 - Cost 8 - Phantom
3	Item Code	✓	Text	Define an item with the given sub-type. Must be a valid item code. <i>The row sub-type is not validated.</i>
4	Quantity	✓	Number	This field should be empty for operations. The importer automatically calculates the quantity and updates this field with the calculated quantity.
5	Warehouse		Text	Must be a valid code of a warehouse.
6	Issue Method		M/B	M - Manual B - Backflush If left empty, the value will be 'B'.
7	Milestone type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends on Begin 3 - Depends on Every 4 - Depends on End If left empty, the value will be '0'.
8	Price List		Integer	Must be a valid code of a price list.
9	Comments		Text	
10	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
11	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
12	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
13	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
14	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
15	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.
16	Consignation Size		Number	
17	Drawing Position Number		Integer	
18	Profit Center		Text	
19	Rejected Warehouse		Text	Must be a valid code of a warehouse.

If the sub-type of the row is not operation, and there is a value beyond 19th column, the row is

invalid. A format error message is generated, and BoM is not processed.

**Operation row sub-type**

No.	Name	Mandatory	Possible types/values	Description
20	Before Time		Number	The importer converts it to a base time using the Operation Time UoM from actual row of CSV or from Manufacturing Operation.
21	Safety Time		Number	
22	Setup Time		Number	
23	Job Time		Number	
24	Teardown Time		Number	
25	After Time		Number	
26	Time Base		Number	
27	Operation Break		Integer between 0 and 5	0 - 3 - Allowed 1 - Denied 2 - Allowed WC 4 - Allowed NBP 5 - Allowed WCNBP If left empty, the system will copy the value from the manufacturing operation.
28	Operation Time UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
29	Is parallel operation		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
30	Is overlapping operation		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
31	Max Parallel Operations		Integer	
32	Overlapping Quantity		Number	
33	Allocation Window		Number	The importer converts it to a base time using Allocation Window UoM from actual row of CSV or from Manufacturing Operation.
34	Allocation Window UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
35	Min Job Quantity		Number	
36	Feature		Text	Must be an existing work center feature.
37	Is Mandatory Work Center		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.

No.	Name	Mandatory	Possible types/values	Description
38	Preferred Work Center		Text	Must be an existing Work Center which supports selected Work Center Feature (from CSV or from Manufacturing Operation)
39	Outsourced		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
40	In House Quantity		Number	
41	Outsourcing Lead Time		Number	If the Outsourced flag is set to Y, the importer converts it to a base time using Outsourcing UoM from actual row of CSV or from Manufacturing Operation. If the Outsourced flag is set to N, this field must be empty.
42	Outsourcing UoM		Number	If the Outsourced flag is set to Y, the value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.* If the Outsourced flag is set to N, this field must be empty.
43	Items per Outsourcing Unit		Number	If the Outsourced flag is set to N, this field must be empty.

\* In order to use Produmex Manufacturing integrated with Produmex WMS. the UoM must exist in the Units of Measure - Setup (OUOM) standard SBO table as well.

If the row is an operation row, and there is a value beyond 43th column, the row is invalid. A format error message is generated, and BoM is not processed.

### Supplier row type

It represents information about outsourcing partners. It can follow only an operation row or another supplier row, otherwise a format error message is generated and BoM is not processed.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	S	
2	Supplier Code	✓	Text	Must be a valid supplier code.
3	Planned Quantity	✓	Number	

If there is a value beyond 3rd column, the row is invalid. A format error message is generated, and BoM is not processed.

### Resource row type

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	R	
2	Resource Code	✓	Text	Must be a valid resource code.

No.	Name	Mandatory	Possible types/values	Description
3	Quantity	✓	Number	
4	Warehouse		Text	Must be a valid code of a warehouse.
5	Issue Method		M/B	M - Manual B - Backflush If left empty, the value will be 'B'.
6	Unit price		Number	
7	Comments		Text	
8	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
9	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
10	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
11	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
12	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
13	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.

If there is a value beyond 13th column, the row is invalid. A format error message is generated, and the BoM is not processed.

### Text row type

No.	Name	Mandatory	Possible types/values
1	Row type	✓	T
2	Text	✓	Text

If there is a value beyond 2th column, the row is invalid. A format error message is generated, and the production order is not processed.

### 18.2.3. Production order

The first character of a row defines the row type and drives the processing of the row. If a comment token was defined, all rows beginning with the given character are skipped.

The following row types are supported:

- H - Header row
- I - Item row
- S - Supplier row
- R - Resource row

- T - Text row

Every other first character, except the comment token, generates an error message.

Download an example CSV file from here: [Production order importer file example](#)

### Header row type

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	H	
2	Product No.	✓	Text	Item code of the product/sub-assembly. Must be a valid item code.
3	Planned quantity		If left empty, the value will be 1.	
4	Warehouse (To)		Text	Must be a valid code of a warehouse.
5	Series		Integer	
6	Due Date		Date	Format: YYYYMMDD. If left empty, the due date will be the current date.
7	Sales Order		Text	Add the DocEntry of the sales order.
8	Customer		Text	Must be an existing customer.
9	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
10	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
11	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
12	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
13	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
14	Project		Text	Must be a valid identifier of a project.
15	Allocation Strategy	✓	Integer between 0 and 3	0 - 1 - Back from due date 2 - Forward from earliest date 3 - Forward from preferred date
16	Due Time		Date	Format: hh:mm
17	Milestone Type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends On Begin 3 - Depends On Every 4 - Depends On End
18	Operation Granularity		Number	
19	Rejected warehouse	✓	Text	Must be a valid code of a warehouse.
20	Is Auto Roll	✓	N/Y	N - No Y - Yes
21	Force Reallocation	✓	N/Y	N - No Y - Yes
22	Custom Code		Text	

If there is a value beyond 22th column, the row is invalid. A format error message is generated, and the production order is not processed.

### Item row type

Belongs to the production order defined by the previous header. The Row SubType determines the interpretation of the rest of the row.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	I	
2	Row sub-type	✓	Integer between 1 and 8	1-Material 2-Operation 3-Unfinished Material 4-Supplier Material 5-By-Product 6-Unfinished Product 7-Cost 8-Phantom
3	Item Code	✓		
4	Quantity	✓	Number	This value will be saved as the Base quantity. The Planned quantity will be calculated based on the Base quantity and the Quantity on the header. Only mandatory for Material rows.
5	Warehouse		Text	Must be a valid code of a warehouse.
6	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
7	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
8	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
9	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
10	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
11	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.
12	Consignation Size		Number	
13	Drawing Position Number		Integer	
14	Due Date		Date	Format: YYYYMMDD. If left empty, the due date will be the current date.
15	Due Time		Date	Format: hh:mm
16	Manual Planning	✓	Y/N	N - No Y - Yes

No.	Name	Mandatory	Possible types/values	Description
17	Issue Method	✓	B/M	M - Manual B - Backflush Mandatory for materials only. If left empty for other row sub-types, the value will be 'B'.
18	Milestone Type		Integer between 0 and 4	0 - 1 - Milestone 2 - Depends On Begin 3 - Depends On Every 4 - Depends On End If left empty, the value will be '0'.
19	Profit Center		Text	
20	Rejected Warehouse		Text	Must be a valid code of a warehouse.
21	Comment		Text	

If the sub-type of the row is not operation, and there is a value beyond 21th column, the row is invalid. A format error message is generated, and the production order is not processed.

**Operation row sub-type**

If the row sub-type is operation, additional operation specific data can be imported as well.

No.	Name	Mandatory	Possible types/values	Description
22	Before Time		Number	The importer converts it to a base time using the Operation Time UoM from actual row.
23	Safety Time		Number	
24	Setup Time		Number	
25	Job Time	✓	Number	
26	Teardown Time		Number	
27	After Time		Number	
28	Time Base		Number	
29	Operation Break		Integer between 0 and 5	0 - 3 - Allowed 1 - Denied 2 - Allowed WC 4 - Allowed NBP 5 - Allowed WCNBP If left empty, the value will be '3'.
30	Operation Time UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
31	Is parallel operation		N/Y	N - No Y - Yes If left empty, the value will be 'N'.
32	Is overlapping operation		N/Y	N - No Y - Yes If left empty, the value will be 'N'.

No.	Name	Mandatory	Possible types/values	Description
33	Max Parallel Operations		Integer	
34	Overlapping Quantity		Number	
35	Allocation Window		Number	The importer converts it to a base time using Allocation Window UoM from actual row.
36	Allocation Window UoM		Text	The value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.*
37	Min Job Quantity		Number	
38	Feature	✓	Text	Must be an existing work center feature.
39	Is Mandatory Work Center		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
40	Preferred Work Center		Text	Must be an existing Work Center which supports selected Work Center Feature.
41	Outsourced		N/Y	N - No Y - Yes If left empty, the system will copy the value from the manufacturing operation.
42	In House Quantity		Number	
43	Outsourcing Lead Time		Number	If the Outsourced flag is set to Y, the importer converts it to a base time using Outsourcing UoM from actual row. If the Outsourced flag is set to N, this field must be empty.
44	Outsourcing UoM		Number	If the Outsourced flag is set to Y, the value must be a valid time code defined on the TimeUnits (BXPTIMEUNITS) user table.* If the Outsourced flag is set to N, this field must be empty.
45	Items per Outsourcing Unit		Number	If the Outsourced flag is set to N, this field must be empty.

\* In order to use Produmex Manufacturing integrated with Produmex WMS. the UoM must exist in the Units of Measure - Setup (OUOM) standard SBO table as well.

If the row is an operation row, and there is a value beyond 45th column, the row is invalid. A format error message is generated, and the production order is not processed.

### Supplier row type

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	S	
2	Supplier Code	✓	Text	Must be a valid supplier code.

No.	Name	Mandatory	Possible types/values	Description
3	Planned Quantity	✓	Number	

If there is a value beyond 3th column, the row is invalid. A format error message is generated, and the production order is not processed.

### Resource row type

Belongs to the previous operation. It can be used only after a row with Operation sub-type, otherwise a content error will be generated.

No.	Name	Mandatory	Possible types/values	Description
1	Row type	✓	R	
2	Resource Code	✓	Text	Must be a valid resource code.
3	Quantity	✓	Number	
4	Warehouse		Text	Must be a valid code of a warehouse.
5	Issue Method		M/B	M - Manual B - Backflush If left empty, the value will be 'B'.
6	Comment		Text	
7	Distribution Rule 1		Text	The Distribution rule for Dimension 1. Must be a valid identifier of a distribution rule.
8	Distribution Rule 2		Text	The Distribution rule for Dimension 2. Must be a valid identifier of a distribution rule.
9	Distribution Rule 3		Text	The Distribution rule for Dimension 3. Must be a valid identifier of a distribution rule.
10	Distribution Rule 4		Text	The Distribution rule for Dimension 4. Must be a valid identifier of a distribution rule.
11	Distribution Rule 5		Text	The Distribution rule for Dimension 5. Must be a valid identifier of a distribution rule.
12	WIP Account		Text	The internal reference of a WIP Account. The internal reference code can be found in the OACT.ACCTCODE field.

If there is a value beyond 12th column, the row is invalid. A format error message is generated, and the production order is not processed.

### Text row type

No.	Name	Mandatory	Possible types/values
1	Row type	✓	T
2	Text	✓	Text

If there is a value beyond 2th column, the row is invalid. A format error message is generated, and the production order is not processed.

## 18.3. Validation

Before the import the system validates the import file. The validation is split into two phases.

### 18.3.1. Format validation

In the first phase the system checks the file for format errors.

Possible issues:

- Row type is not valid
- Row sub-type is not valid
- Mandatory field is not given
- Given value doesn't match to the type of the field (for example alphabetical character in numeric field etc.)
- Surplus value is given
- Invalid row order (for example a header row follows another header row)

### 18.3.2. Content validation

In the second phase the document/element is validated with the company database in order to detect content errors.

## Manufacturing Operations

Possible issues:

- Invalid value when range is defined (Operation Break)
- Code cannot be found in SAP Business One (Item Group Code, Feature, Work Center)
- Invalid UoM (Operation Times, Allocation Window)
- Mandatory value is missing:
  - Mandatory Work Center is required, but Preferred Work Center is missing

## Bills of Materials

Possible issues:

- Invalid value when range is defined (Issue Method, Milestone Type, Operation Break Type)
- Code cannot be found in SAP Business One (Item, Feature, Work Center, Supplier, Warehouse etc.)
- Invalid UoM (Operation Times, Allocation Window, Outsourcing)
- Rules of using Issue Method and Milestone Type are violated
- Required correspondences between rows are violated (unfinished product must precede unfinished material etc.)

- Work Center does not support the Work Center Feature
- Mandatory value is missing:
  - Mandatory Work Center is required, but Preferred Work Center is missing
  - Operation is marked as outsourced, but no valid supplier is given
- Operation is not marked as outsourced, but a supplier row is given
- Sum of planned quantities exceeds quantity in header
- SAP Business One validates the following: Distribution Rule, Distribution Rule Dimensions, Price List

## Production Order

### Possible issues:

- Invalid value when range is defined (Issue Method, Milestone Type, Operation Break Type)
- Code cannot be found in SAP Business One (Item, Feature, Work Center, Supplier, Warehouse, Sales order, etc.)
- Invalid UoM (Operation Times, Allocation Window, Outsourcing)
- Rules of using Issue Method and Milestone Type are violated
- Required correspondences between rows are violated (unfinished product must precede unfinished material etc.)
- Work Center does not support the Work Center Feature
- Mandatory value is missing:
  - Mandatory Work Center is required, but Preferred Work Center is missing
  - Operation is marked as outsourced, but no valid supplier is given
- Operation is not marked as outsourced, but a supplier row is given
- Sum of planned quantities exceeds quantity in header
- SAP Business One validates the following: Distribution Rule, Distribution Rule Dimensions, Price List, WIP Code, Project

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