

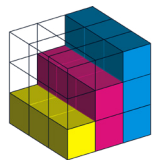
1. Interfacing an ERP with Direct Planning

ADMINISTRATION

This section is fully reserved to the Direct Planning administrator.

1.1. Summary diagram

Overview



ERP (*)

STANDARD IMPORT

SENDING OF SCHEDULE MODIFICATION INSTRUCTION

STANDARD EXPORT

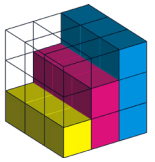
SCHEDULING INFORMATION SENT BACK TO ERP (*)



DIRECT PLANNING

(*) ERP, CAPE, Excel

Example in the industry sector: ERP+MES



ERP

STANDARD IMPORT

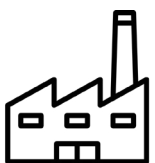
WO CREATION/MODIFICATION IN THE SCHEDULE

STANDARD EXPORT

TRANSMISSION OF PLANNED DEADLINES TO THE ERP



DIRECT PLANNING



MES

STANDARD IMPORT

TRANSMISSION OF THE PRODUCTION PROGRESS STATUS

STANDARD EXPORT

TRANSMISSION OF PLANNING MODIFICATIONS TO THE MES

1.1.1. Principles

An application managing jobs can send information to your schedule. The imported data can come from an ERP, a spreadsheet such as Microsoft Excel© or any other application generating data in CSV format.

The CSV format is one of the most widespread: data is recorded in a text file and separated by semicolons (more information below).

In addition to this import function, Direct Planning can transfer planning data to another application able to receive data in the CSV format or in the format of your choice via development of a plugin (following a study). You can use the export functionality without configuring the import beforehand. Using the import and export functions together allow Direct Planning to send the external software scheduling information for previously imported jobs.

1.2. Importing data

As discussed, a third party application (e.g. ERP, CAPE, specific program or Excel macro) can generate instructions for Direct Planning. These CSV files can be automatically integrated to the schedule when they are placed in an import directory. To avoid disrupting the existing planning, imported jobs are assigned the “to schedule” status.

1.2.1. Direct Planning import capabilities

Direct Planning can import the following data:

- Reference data (DREF1 to DREF999)
- Entities (ENT1 to ENT10)
- Jobs with flags (TASK)
- Process Information (TASK-IP1 to TASK-IP999)
- Links (LINK)
- Technical elements (TEC1 to TEC20)
- Memos (MEMO)

1.2.2. The CSV file

The imported data is contained in a csv file containing instructions for updating the schedule in Direct Planning.

Name and location of file

The file name must comply with the import_xxx.csv format and that file must be located in the folder configured by the administrator (**Configuration > General configuration > Automatic import**).

The import folder is scanned each time Direct Planning is started, and then every 2 minutes. Furthermore, the planning manager can occasionally perform “on demand” imports when visual alerts indicate that a new file is ready for import.

Structure

The file data is saved in a text file and semicolon-separated.

In a file to import, each line forms a record and must end by a carriage return and line feed (CR LF).

Below is an example of instruction to import in Direct Planning:

```
ENT1;4;CM;CR0549;CREATIVE TECH;Chateaubriant;44110;;BROCHARD Sébastien;+33 (0)2 36 45 78
99;s.brochard@creativetech.fr;;DEL;;;\\SERVER\CLIENT\CR0549;RANDOM;;;;;;;;;
```



Lines starting with # will be ignored to avoid the import of certain lines, without deleting them from the file, especially for test purposes.

The order of lines in the file to import does not matter.
The program automatically sorts the data in the right order before importing it.

You will find sample import files in your Direct Planning installation folder.

Exclusive locks

An external application writes import files while Direct Planning reads them. If these two actions happen simultaneously, there is a conflict. Direct Planning preserves data integrity thanks to a lock management which secures the imports:

- When reading an import file, Direct Planning creates the **directplanning_read.lck** lock file in the import folder.
-  The external application must not attempt to write the file if this lock exists.
- When writing to the import file, the external application must create the **external_write.lck** lock file in the import folder.
-  Direct Planning will not attempt to read the file if this lock exists.

Note

This management is available but optional.

If you know that the generation of import files is never performed when Direct Planning is being used (for example at night), this security feature is optional.

External ID (or ERP ID)

Jobs originating from a third party application (like an ERP) have an external identifier. This identifier is assigned by the third party application for jobs created via import. Its purpose is to allow the third party application to recognise a job it previously transferred to Direct Planning. For convenience, we will call it the external ID.

WARNING

The external ID must never contain the hash sign (#).

When a job is created in Direct Planning, its external ID is set to 0 (zero) and hidden. The external ID is unique. It can be modified during the import in Direct Planning. The identifiers are displayed in the job details window, via double-click in the schedule (see next page).

Direct Planning ID

ERP ID

Identifier of job Nr 199 [170067-10]

Section S1 Milling

Machine U1 Usinex 1 (550 mm max)

1.2.3. Data import formats

Formats and Direct Planning versions

Format version	Direct Planning version
4	Since Direct Planning 3.1
3	Direct Planning 3.0
2	Direct Planning 2.*

In creation, the required zones are specified in the **Comments** column.

Importing entities

No.	Designation	Format	Comments
1	Data type	alpha	Possible values: from ENT1 to ENT10 Required
2	Version of import format	alpha	Value: 4 Required
3	Action	alpha	C (Creation) CM (Creation when the entity does not exist, Modification if it already exists). In entity creation, the @ sign can be used to force a zone, following the @ ZONE format. However, if the entity already exists, this character indicates that the specified zone must not be modified. Required
4	Identifier	alpha	Job identifier for the ERP Required
5	Designation	alpha	
6	Configurable area 1	alpha	Configurable areas are typed. If the value transmitted in the import file does not match the type of zone, it will be ignored (e.g. an "ABC" string exported to a zone set as numeric).
7	Configurable area 2	alpha	
8	Configurable area 3	alpha	
9	Configurable area 4	alpha	
10	Configurable area 5	alpha	
11	Configurable area 6	alpha	
12	Configurable area 7	alpha	
13	Configurable area 8	alpha	
14	Configurable area 9	alpha	
15	Configurable area 10	alpha	
16	Colour	alpha	3 methods are available to express the colour: RGB: (3 comma-separated values) Html name The RANDOM keyword can be used to set a random colour when creating technical elements

No.	Designation	Format	Comments
17	Identifier of linked entity 1	alpha	Links between entities are optional. When links are included in the import file, the presence of linked entities is checked.
18	Identifier of linked entity 2	alpha	
19	Identifier of linked entity 3	alpha	
20	Identifier of linked entity 4	alpha	
21	Identifier of linked entity 5	alpha	
22	Identifier of linked entity 6	alpha	
23	Identifier of linked entity 7	alpha	
24	Identifier of linked entity 8	alpha	
25	Identifier of linked entity 9	alpha	

Notes:

- There can be no link for entity 1 which sits at the top of the hierarchy.
- Entity links are always created “upwards”: for instance, if entities 2 and 3 are linked, the link must be declared from entity 3 to entity 2, and not the opposite.
- Links must respect the hierarchy: for example, if entity 3 is linked with entity 2 and entity 2 is linked with entity 1, then entity 3 must also be linked with entity 1.
- There can be no duplicate, neither in the identifier nor in the designation of entities.
- If a duplicate is found in the identifier of an entity, a warning message is generated. This situation can be normal when importing a job attached to an existing customer: the customer is reimported with the new job, triggering a normal warning message.
- If there is a duplicate in the designation of an entity (different identifier but identical designation), the import will add the identifier in parentheses after the description.

Example of instruction to import an entity (in creation/modification):

```
ENT2;4;CM;PA0001;AUTOM-Z/528;AUT;WB9752;16072;92.5 x 49 x 93.5;;;;;RANDOM;CR0549;;;;;
```

Importing reference data

Reserved to the **Industry** mode.

No.	Designation	Format	Comments
1	Data type	alpha	Possible values: from DREF1 to DREF999 Required
2	Version of import format	alpha	Value: 4 Required
3	Action	alpha	C (Creation) CM (Creation when the reference data does not exist, Modification if it already exists) Required
4	Identifier of the reference data	alpha	Required
5	Designation of the reference data	alpha	
6	Colour	alpha	3 methods are available to express the colour: RGB: (3 comma-separated values) Html name The RANDOM keyword can be used to set a random colour when creating reference data. If CM: not modified

Notes:

- There can be no duplicate, neither in the identifier nor in the designation of reference data.
- If a duplicate is found in the identifier of reference data, a warning message is generated. This situation can be normal when importing a job with existing reference data: the reference data is reimported with the new job, triggering a normal warning message.
- If there is a duplicate in the designation of reference data (different identifier but identical designation), then the import will add the identifier in parentheses after the description.

Example of instruction to import reference data (in creation, designation in green):

```
DREF1 ; 4 ; C-NOERROR ; 0 ; Nouveauté ; RANDOM
```


Importing jobs

No.	Designation	Mode			Comments
		I	P	S	
01	Data type	✓	✓	✓	Value: TASK Format: alpha Required
02	Version of import format	✓	✓	✓	Values: 4 Format: alpha Required
03	Action	✓	✓	✓	Action code Format: alpha Required
04	Unique external identifier for this job (ERP ID)	✓	✓	✓	Your unique identifier for this job, or the Direct Planning identifier. Normally, this is where you indicate your unique identifier for this job. Instead of your identifier, you can specify the Direct Planning identifier preceded by the hash sign (#). Format: alpha Required
05	Move selection down	✓	✓	✓	Format: alpha
06	Identifier of resource	✓	✓	✓	Format: alpha When creating a job, use the @ character to pre-position the job on the specified resource. If the job already exists, it indicates that this resource must not be modified. Required
07	Operation identifier	✓	✗	✗	If it is #DEF, the job operation will be initialised to the machine default operation. If blank, content is forced to blank. Format: alpha
08	Start date and time	✓	✓	✓	The start or end time must be indicated, but not both. If none is entered, the start date is forced to the current date and time. Format: datetime*
09	End date and time	✓	✓	✓	
*Datetime formats available: <ul style="list-style-type: none"> • DD.MM.YYYY hh:mm (with a space between the year and time) • DD/MM/YYYY hh:mm (with a space between the year and time) • DD.MM.YYYY • DD/MM/YYYY • "NOW": conversion to the date and time of the import 					
10	Planned quantity	✓	✗	✗	Format: quantity
11	Percentage of variable waste	✓	✗	✗	Only one decimal taken into account Format: 3 or 3.0 for 3% of variable waste Format: decimal
12	Number of WU to produce per operative WU	✓	✗	✗	The number of working units of quantity to produce contained in a working unit of operative quantity. e.g. the number of posters (representing the quantity recorded in production) per sheet (representing the quantity processed by the machine). By default: 1.
13	Number of work rate WU per operative WU	✓	✗	✗	The number of working units for entering the work rate contained in a working unit of operative quantity. E.g. the linear footage (unit in which is entered the machine work rate) for a sheet (representing the quantity processed by the machine).

No.	Designation	Mode			Comments
		I	P	S	
14	Performed quantity	✓	✗	✗	Will be entered only if the ERP is to force the performed quantity. Forcing this value will automatically calculate the progress percentage. Format: quantity
15	Non-compliant quantity	✓	✓	✓	Non-compliant product quantity Format: quantity
16	Progress percentage	✓	✓	✗	Value: from 0 to 100. Not to be entered if the performed quantity is specified. If the planned quantity is entered, this value will allow the calculation of the performed quantity. Format: integer
17	Forced transition time	✓	✗	✗	Should be entered when forcing a transition duration (be careful, 0 is a value). Otherwise, leave it blank. The value must be ignored if management of transition times is not enabled in the schedule. Format: duration**
<p>** Durations can be expressed in two ways:</p> <ul style="list-style-type: none"> • An integer indicating the number of minutes (e.g. 120) • A number of hours and a number of minutes separated by the character “:” (e.g. 7:50) 					
18	Forced planned setting duration	✓	✗	✗	To be entered when forcing the planned setting duration. Leaving it blank will make DP calculate setting duration. Format: duration
19	Performed setting duration	✓	✗	✗	Should be entered when the ERP is aware of the performed setting duration. Format: duration
20	Performed durations of setting downtime	✓	✓	✓	Durations of downtime incurred by setting Format: duration
21	Completed setting	✓	✗	✗	Allows to indicate that the setting is complete. O/N or Y/N or 0/1 Format: O/N
22	Industry: Forced planned running duration	✓	✓	✓	Industry mode: to be entered when forcing the planned running duration. Leaving it blank will make Direct Planning calculate running duration. Format: duration Required in Project and Service modes
	Service: Duration				
	Project: Planned duration				
23	Industry mode: Performed running duration Project mode: Performed duration	✓	✓	✗	To be entered when the ERP is aware of the performed running duration. Format: duration
24	Duration of downtime	✓	✓	✗	Should be entered when the ERP is aware of the downtime durations during running. Format: duration
25	Earliest start date and time***	✓	✓	✗	Format: datetime
26	Latest end date and time***	✓	✓	✗	

*** In Industry and Project modes: if the format imported to this field is a short format (DD/MM/YYYY), the program will automatically set the default time configured.
Otherwise, the imported time is used even if it is 00h00.
If the field Earliest start date is not populated, it will be initialised by Direct Planning to the date of the import.
Of course, the Latest end date field is left blank if the expected element is not received.

No.	Designation	Mode			Comments
		I	P	S	
27	Manual alert message	✓	✓	✓	Used to force a manual alert message on the job. Format: alpha
28	Actual start date of job	✓	✓	✓	Format: datetime
29	Actual end date of job	✓	✓	✓	Format: datetime
30	Started job	✓	✓	✓	If value is 0 and field 28 is empty, the job current start date is used. Format: O/N
31	Completed job	✓	✓	✓	If value is 0 and field 32 = 0, field 29 is ignored. The job current end date is used. If value is 0 and field 32 = 1, field 29 is ignored. The calculation of end date is based on the performed durations. If value is 0 and field 32 = 2, field 29 is required. The performed running duration is calculated automatically. Format: O/N
32	Method of time entry	✓	✓	✓	0=none / 1=by performed duration / 2=by end date Format: integer
33	ID of entity 1	✓	✓	✓	alpha
34	ID of entity 2	✓	✓	✓	
35	ID of entity 3	✓	✓	✓	
36	ID of entity 4	✓	✓	✓	
37	ID of entity 5	✓	✓	✓	
38	ID of entity 6	✓	✓	✓	
39	ID of entity 7	✓	✓	✓	
40	ID of entity 8	✓	✓	✓	
41	ID of entity 9	✓	✓	✓	
42	ID of entity 10	✓	✓	✓	
43	Configurable area 1	✓	✓	✓	alpha
44	Configurable area 2	✓	✓	✓	
45	Configurable area 3	✓	✓	✓	
46	Configurable area 4	✓	✓	✓	
47	Configurable area 5	✓	✓	✓	
48	Configurable area 6	✓	✓	✓	
49	Configurable area 7	✓	✓	✓	
50	Configurable area 8	✓	✓	✓	
51	Configurable area 9	✓	✓	✓	
52	Configurable area 10	✓	✓	✓	

No.	Designation	Mode			Comments
		I	P	S	
53	ID of technical element 1	✓	✗	✗	alpha
54	ID of technical element 2	✓	✗	✗	
55	ID of technical element 3	✓	✗	✗	
56	ID of technical element 4	✓	✗	✗	
57	ID of technical element 5	✓	✗	✗	
58	ID of technical element 6	✓	✗	✗	
59	ID of technical element 7	✓	✗	✗	
60	ID of technical element 8	✓	✗	✗	
61	ID of technical element 9	✓	✗	✗	
62	ID of technical element 10	✓	✗	✗	
63	ID of technical element 11	✓	✗	✗	
64	ID of technical element 12	✓	✗	✗	
65	ID of technical element 13	✓	✗	✗	
66	ID of technical element 14	✓	✗	✗	
67	ID of technical element 15	✓	✗	✗	
68	ID of technical element 16	✓	✗	✗	
69	ID of technical element 17	✓	✗	✗	
60	ID of technical element 18	✓	✗	✗	
71	ID of technical element 19	✓	✗	✗	
72	ID of technical element 20	✓	✗	✗	
Flag 1					
73	Status	✓	✓	✓	Values: 0 to 5 Format: num
<p>If this zone is not populated, the zero value is set by default, meaning that the flag is inactive. When dealing with an indicative flag, this zone accepts values 0 (inactive) or 1 (active). When dealing with a multi-status flag, this zone accepts values ranging from 0 (inactive) to 5.</p>					
74	Planned date of receipt***	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime***
<p>*** In Industry and Project modes: if the format imported to this field is a short format (DD/MM/YYYY), the program will automatically set the default time configured. Otherwise, the imported time is used even if it is 00h00.</p>					
75	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
76	Configurable area 1	✓	✓	✓	
77	Configurable area 2	✓	✓	✓	
78	Configurable area 3	✓	✓	✓	
79	Configurable area 4	✓	✓	✓	

No.	Designation	Mode			Comments
		I	P	S	
80	Configurable area 5	✓	✓	✓	
81	Configurable area 6	✓	✓	✓	
82	Configurable area 7	✓	✓	✓	
83	Configurable area 8	✓	✓	✓	
84	Configurable area 9	✓	✓	✓	
85	Configurable area 10	✓	✓	✓	
Flag 2					
86	Status	✓	✓	✓	Values: 0 to 5 Format: num
87	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
88	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
89 ▼ 98	Configurable area 1 Configurable area 10	✓	✓	✓	
Flag 3					
99	Status	✓	✓	✓	Values: 0 to 5 Format: num
100	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
101	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
102 ▼ 111	Configurable area 1 Configurable area 10	✓	✓	✓	
Flag 4					
112	Status	✓	✓	✓	Values: 0 to 5 Format: num
113	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
114	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
115 ▼ 124	Configurable area 1 Configurable area 10	✓	✓	✓	
Flag 5					

No.	Designation	Mode			Comments
		I	P	S	
125	Status	✓	✓	✓	Values: 0 to 5 Format: num
126	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
127	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
128 ▼ 137	Configurable area 1 Configurable area 10	✓	✓	✓	
Flag 6					
138	Status	✓	✓	✓	Values: 0 to 5 Format: num
139	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
140	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
141 ▼ 150	Configurable area 1 Configurable area 10	✓	✓	✓	
Flag 7					
151	Status	✓	✓	✓	Values: 0 to 5 Format: num
152	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
153	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
154 ▼ 163	Configurable area 1 Configurable area 10	✓	✓	✓	
Flag 8					
164	Status	✓	✓	✓	Values: 0 to 5 Format: num
165	Planned date of receipt	✓	✓	✓	Applies only to Waiting for element receipt flags Format: datetime
166	Actual date of receipt	✓	✓	✓	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
167 ▼ 176	Configurable area 1 Configurable area 10	✓	✓	✓	

No.	Designation	Mode			Comments
		I	P	S	
Flag 9					
177	Status	✔	✔	✔	Values: 0 to 5 Format: num
178	Planned date of receipt	✔	✔	✔	Applies only to Waiting for element receipt flags Format: datetime
179	Actual date of receipt	✔	✔	✔	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
180 ▼ 189	Configurable area 1 Configurable area 10	✔	✔	✔	
Flag 10					
190	Status	✔	✔	✔	Values: 0 to 5 Format: num
191	Planned date of receipt	✔	✔	✔	Applies only to Waiting for element receipt flags Format: datetime
192	Actual date of receipt	✔	✔	✔	Only for Waiting for receipt types of flags. Will only be taken into account if the status of the flag corresponds to a received element. Format: datetime
193 ▼ 202	Configurable area 1 Configurable area 10	✔	✔	✔	

Action codes

Action code	Description
C	Creation of a job
CM	CM (Creation when the job does not exist, Modification if it already exists).
M	Job modification
M-PLAN	Job modification with assigning of the "to schedule" status. This allows the external software to decide what will be the impact of a modification on the schedule status: this way, after an import, jobs scheduled in Direct Planning can take the to schedule status because of significant changes which took place in the external software.
S	Job deletion

OUR ADVICE



Each action code can be completed by -NOWARNING and -NOERROR extensions to prevent, respectively, the display of a warning or error message. It is recommended to reserve these extensions to the deletion action (S), when deleting an element to replace it (like in the "cancel and replace" example of the next section).

🔗 Job modifications (CM, M, M-PLAN)

1. The 4 first zones are required as they form the key used to formally identify a job and the action to perform. These zones are the following: 01-Data type 02-Version of the import format 03-Action 04-External unique identifier (ERP) for this job.
2. The zones which must not be modified must contain the @ sign.
3. Zones 08 and 09 (start and end date and time) can only be modified if you assign the job the to schedule status (action code M-PLAN above).
4. The zones requiring modification must contain the new value. If a zone is empty, this means that its content is deleted.
5. To modify a job based its Direct Planning internal ID, and not on its external ID, you must put a hash sign (#) at the beginning of zone 04 (external ID) in the import file on a line where the action code = M (Modification). For example, indicating #120 modifies the job with Direct Planning internal ID 120. This is useful to modify jobs created in Direct Planning.
6. You can also modify the external ID. Indeed, for a job created by Direct Planning and not yet attached to an external ID, the ERP ID is zero. An external ID can then be assigned to the job by preceding it with the | (pipe) character. Examples: #120|ABC to find the job with internal ID 120 and assign it the external ID ABC, or TUV|ABC to modify the job with external ID TUV and change it to ABC.

7. When modifying a job which has an external ID and which was split into multiple jobs, the modifications apply to all the subdivided jobs (the modification of the duration is the only one forbidden).

Example of instruction to import a job in creation/modification with the "@" character:

```
TASK;4;CM;180021;Laser cutting;@MAC1;
```

This instructions specifies that the job designation must always contain "Laser cutting", whether the job exists or not. Entering the character @ before MAC1 indicates that if the job is created, it is pre-positioned on the MAC1 machine. However, if the job already exists, @ indicates that this zone (the machine code) must not be modified. This way, if the planning manager had moved this job to another machine, its positioning is preserved.

Job deletions (S)

1. Deleting a linked job also deletes the links, without deleting the other linked jobs.
2. You can put an asterisk as a wildcard in zone 04 (external ID). For example, indicating 05116001-1-* deletes all jobs whose external ID begins with 05116001-1-. This interesting feature allows the ERP (e.g. VoluPack) to perform a simple cancel and replace type of regeneration. This can be used to delete all operations attached to a WO, and then recreate the WO.

Importing Process Information

No.	Designation	Format	Comments
1	Data type	alpha	Possible values: from TASK-IP1 to TASK-IP999 Required
2	Version of import format	alpha	Value: 4 Required
3	Action	alpha	CM (Creation Modification): in Process Information creation, the @ character can be used to force a zone, following the @ZONE format. However, if Process Information already exists, this character indicates that the specified zone must not be modified. M (Modification) S (Deletion) Required
4	ERP ID	alpha	Job identifier for the ERP Required
5	Configurable area 1	alpha	Configurable areas are typed. If the value transmitted in the import file does not match the type of zone, it will be ignored (e.g. an "ABC" string exported to a zone set as numeric).
6	Configurable area 2	alpha	
7	Configurable area 3	alpha	
8	Configurable area 4	alpha	
9	Configurable area 5	alpha	
10	Configurable area 6	alpha	
11	Configurable area 7	alpha	
12	Configurable area 8	alpha	
13	Configurable area 9	alpha	
14	Configurable area 10	alpha	

Like the job import, the Process Information import is based on the ERP ID or the Direct Planning. Normally, this is where you indicate your unique identifier for this job. Instead of your identifier, you can specify the Direct Planning identifier preceded by the hash sign (#).

REMINDER

The hash sign (#) must never be appear in your ERP identifier.

A warning message will be logged in the journal if a Process Information is not active for this machine. Deleting a job also deletes the associated Process Information.

Example of instruction to import Process info (in creation/modification, ERP ID in green):

```
TASK-IP1;4;CM;17030187-1-1-1-0/020;EP07075;1300;948;XPC0010;300;2;230;;;;
```

Importing technical elements

REMINDER



To harness the full potential of Direct Planning, you better use Reference data, introduced in version 3.1 instead of technical elements.

No.	Designation	Format	Comments
1	Data type	alpha	Possible values: from TEC1 to TEC20 Required
2	Version of import format	alpha	Value: 4 Required
3	Action	alpha	C (Creation) CM (Creation when the technical element does not exist, Modification if it already exists) Required
4	Identifier of technical element	alpha	Required
5	Designation of technical element	alpha	
6	Colour	alpha	3 methods are available to express the colour: RGB: (3 comma-separated values) Html name The RANDOM keyword can be used to set a random colour when creating technical elements

Observations:

- There can be no duplicate, neither in the identifier nor in the designation of technical elements.
- If a duplicate is found in the identifier of a technical element, a warning message is generated. This situation can be normal when importing a job with an existing technical element: the technical element is reimported with the new job, triggering a normal warning message.
- If there is a duplicate in the designation of a technical element (different identifier but identical designation), then the import will add the identifier in parentheses after the description.

Importing links

No.	Designation	Format	Comments
1	Data type	alpha	Value: LINK Required
2	Version of import format	alpha	Value: 4 Required
3	Action	alpha	C (Creation) M (Modification) S (Deletion) Required
4	External unique ID for the source job	alpha	Job identifier for the ERP Required
5	External unique ID for the destination job	alpha	Required
6	Link duration	Num	0 for a simple end - start link. n If n > 0: link with n minutes gap. If n < 0: link with n minutes overlap. Required

🔗 Link modifications (M)

1. The 5 first zones are required as they form the key used to formally identify the link and action to perform.
2. Consequently, field 6 (Link duration) is the only one modifiable.
3. If field 6 contains the @ symbol, this means that nothing is modified.

🔗 Link deletions (S)

1. Deleting a link does not delete the linked jobs.
2. Deleting a link does not delete the other links of the route.

Example of instruction to import a link (in creation, source and target jobs in green):

```
LINK; 4; C-NOWARNING; 17030187-1-1-1-0/020; 17030187-1-1-1-0/030; 0
```

Importing memos

Memos contain user comments.

No.	Designation	Format	Comments
1	Data type	alpha	Value: MEMO Required
2	Version of import format	alpha	Value: 4 Required
3	Action	alpha	CM (Creation when the memo does not exist, Modification if it already exists) Required
4	Job external identifier (ERP ID)	alpha	
5	Direct Planning internal identifier	Num	
6	Login of Direct Planning user	alpha	If internal identifier of DP user does not exist
7	Comment text	alpha	To create a line break: \r Semicolons are replaced by commas. Double quotes are doubled.
8	State of the alert linked to the comment		
9	Date of comment modification	datetime	
10	Date of comment comment alert	datetime	

Colour codes

Html name	RGB code
AliceBlue	240,248,255
AntiqueWhite	250,235,215
Aqua	0,255,255
Aquamarine	127,255,212
Azure	240,255,255
Beige	245,245,220
Bisque	255,228,196
Black	0,0,0
BlanchedAlmond	255,235,205
Blue	0,0,255
BlueViolet	138,43,226
Brown	165,42,42
BurlyWood	222,184,135
CadetBlue	95,158,160
Chartreuse	127,255,0
Chocolate	210,105,30
Coral	255,127,80
CornflowerBlue	100,149,237
Cornsilk	255,248,220
Crimson	237,164,61
Cyan	0,255,255
DarkBlue	0,0,139
DarkCyan	0,139,139
DarkGoldenRod	184,134,11
DarkGray	167,167,167
DarkGreen	0,100,0
DarkKhaki	189,183,107
DarkMagenta	139,0,139
DarkOliveGreen	85,107,47
Darkorange	255,140,0
DarkOrchid	153,50,204
DarkRed	139,0,0
DarkSalmon	233,150,122
DarkSeaGreen	143,188,143
DarkSlateBlue	72,61,139
DarkSlateGray	47,79,79
DarkTurquoise	0,206,209
DarkViolet	148,0,211
DeepPink	255,20,147
DeepSkyBlue	0,191,255
DimGray	105,105,105
DodgerBlue	30,144,255
Feldspar	209,146,117
FireBrick	178,34,34
FloralWhite	255,250,240
ForestGreen	34,139,34
Fuchsia	255,0,255
Gainsboro	220,220,220

Html name	RGB code
GhostWhite	248,248,255
Gold	255,215,0
GoldenRod	218,165,32
Gray	190,190,190
Green	0,128,0
GreenYellow	173,255,47
HoneyDew	240,255,240
HotPink	255,105,180
IndianRed	205,92,92
Indigo	75,0,130
Ivory	255,255,240
Khaki	240,230,140
Lavender	230,230,250
LavenderBlush	255,240,245
LawnGreen	124,252,0
LemonChiffon	255,250,205
LightBlue	173,216,230
LightCoral	240,128,128
LightCyan	224,255,255
LightGoldenRodYellow	250,250,210
LightGreen	144,238,144
LightGrey	211,211,211
LightPink	255,182,193
LightSalmon	255,160,122
LightSeaGreen	32,178,170
LightSkyBlue	135,206,250
LightSlateBlue	132,112,255
LightSlateGray	119,136,153
LightSteelBlue	176,196,222
LightYellow	255,255,224
Lime	0,255,0
LimeGreen	50,205,50
Linen	250,240,230
Magenta	255,0,255
Maroon	128,0,0
MediumAquaMarine	102,205,170
MediumBlue	0,0,205
MediumOrchid	186,85,211
MediumPurple	147,112,219
MediumSeaGreen	60,179,113
MediumSlateBlue	123,104,238
MediumSpringGreen	0,250,154
MediumTurquoise	72,209,204
MediumVioletRed	199,21,133
MidnightBlue	25,25,112
MintCream	245,255,250
MistyRose	255,228,225
Moccasin	255,228,181

Html name	RGB code
NavajoWhite	255,222,173
Navy	0,0,128
OldLace	253,245,230
Olive	128,128,0
OliveDrab	107,142,35
Orange	255,165,0
OrangeRed	255,69,0
Orchid	218,112,214
PaleGoldenRod	238,232,170
PaleGreen	152,251,152
PaleTurquoise	175,238,238
PaleVioletRed	219,112,147
PapayaWhip	255,239,213
PeachPuff	255,218,185
Peru	205,133,63
Pink	255,192,203
Plum	221,160,221
PowderBlue	176,224,230
Purple	128,0,128
Red	255,0,0
RosyBrown	188,143,143
RoyalBlue	65,105,225
SaddleBrown	139,69,19
Salmon	250,128,114
SandyBrown	244,164,96
SeaGreen	46,139,87
SeaShell	255,245,238
Sienna	160,82,45
Silver	192,192,192
SkyBlue	135,206,235
SlateBlue	106,90,205
SlateGray	112,128,144
Snow	255,250,250
SpringGreen	0,255,127
SteelBlue	70,130,180
Tan	210,180,140
Teal	0,128,128
Thistle	216,191,216
Tomato	255,99,71
Turquoise	64,224,208
Violet	238,130,238
VioletRed	208,32,144
Wheat	245,222,179
White	255,255,255
WhiteSmoke	245,245,245
Yellow	255,255,0
YellowGreen	154,205,50

1.2.4. Examples of use

🔗 The WO data changed in the ERP

“Cancel and replace” import

(Instructions are truncated for readability purposes)

```
ENT1;4;CM;C54144;INDUSTRIA;;;;;;;;;;;RANDOM;;;;;;;;;;;
ENT2;4;CM;PS54144-0000814;ETUI MAGIC 6% 10ML;39.5 x 34 x 68;8U780A00;A2220;;;;;;;;;;;RANDO
ENT3;4;CM;17030187-1-1-1;910855/1;VDR;;;;;;;;;;;RANDOM;C54144;;;;;;;;;;;
ENT4;4;CM;17030187-1-1-1;17030187-1-1-1;20000;SAINT-PIERRE DES CORPS;25/04/2017;26/04/2
DREF12;4;CM;A2220;A2220 (A112) PATTES ALTERNEES;RANDOM
DREF13;4;CM;EP07075;7075 - 30 poses;RANDOM
DREF14;4;CM;ZPA0017;ZPA0017 - PALETTE H 100X120 NIMP15 5 SEM CEINTUREE;RANDOM
DREF15;4;CM;ZCA1015;ZCA1015 - CA15-6543- CARN 598 X 324 X 200;RANDOM
```

The first four lines (dark green) create entities 1, 2, 3 and 4 (customer, product...) via **CM** action.

The next four lines (light green) create Reference data 12, 13, 14 and 15 (product, type...) via **CM** action.

```
TASK;4;S-NOERROR;17030187-1-1-1-1-1/*;;;;;;;;;;;
TASK;4;C-NOWARNING;17030187-1-1-1-0/030;OFFSET RECTO - 4 couleurs - Acrylique brillant;
TASK-IP2;4;CM;17030187-1-1-1-0/030;EP07075;4;4;1;;;;;;;;;;
TASK-IP3;4;CM;17030187-1-1-1-0/030;BLACK -;YELLOW -;P00485RED -;P01505ORA -;-;-AC;;PVO
TASK;4;C-NOWARNING;17030187-1-1-1-0/100;DECOUPE 1er PASSAGE - EP07075 30 poses;3400;DEC
TASK-IP5;4;CM;17030187-1-1-1-0/100;EP07075;30;;;;;;;;;;;1
TASK;4;C-NOWARNING;17030187-1-1-1-1/132;COLLAGE 1er PASSAGE -;5500;COLTOT;NOW;;20000;1.
TASK-IP6;4;CM;17030187-1-1-1-1/132;EP07075;;;147;136;;;;;;;;;;
TASK-IP7;4;CM;17030187-1-1-1-1/132;O;ZCA1015;1300;ZPA0017;30;;;;;;;;;;
LINK;4;C-NOWARNING;17030187-1-1-1-0/030;17030187-1-1-1-0/100;0
LINK;4;C-NOWARNING;17030187-1-1-1-0/100;17030187-1-1-1-1/132;0
```

The first line (red) deletes all the WO phases via the **S** action (with **NOERROR** extension).

Phases (Printing > Cutting > Gluing) are then recreated (green) via the **C** action.

Corresponding Process Information (blue) is created or, as appropriate, modified via the **CM** action.

Finally, the links between WO phases (orange) are created via the **C** action.

Import in “creation/modification”

(Instructions are truncated for readability purposes)

```
TASK;4;CM;17030187-1-1-1-0/020;COUPEUSE - Avec refente;1200;COUP;NOW;;1228;1.0;2.000;0.
TASK-IP1;4;CM;17030187-1-1-1-0/020;EP07075;1300;948;XPC0010;300;2;230;;
TASK;4;CM;17030187-1-1-1-0/030;OFFSET RECTO - 4 couleurs - Acrylique brillant;2100;IMP6
TASK-IP2;4;CM;17030187-1-1-1-0/030;EP07075;4;4;1;;;;;;;;;;
TASK-IP3;4;CM;17030187-1-1-1-0/030;BLACK -;YELLOW -;P00485RED -;P01505ORA -;-;-AC;;PVO
TASK;4;CM;17030187-1-1-1-0/100;DECOUPE 1er PASSAGE - EP07075 30 poses;3400;DECTOT;NOW;;
TASK-IP5;4;CM;17030187-1-1-1-0/100;EP07075;30;;;;;;;;;;;1
TASK;4;CM;17030187-1-1-1-1/132;COLLAGE 1er PASSAGE -;5500;COLTOT;NOW;;20000;1.0;1.000;0
```

In the example above, the WO is not deleted. Phases are imported via the **CM** action, meaning they are created if they do not exist or modified if they do.

1.2.5. Course of import and logging

REMINDER



To set the import folder, click on **Configuration > General configuration > Automatic import**.

Assuming that the import file is `D:\DirectPlanning\import_001.csv`

The import makes the following transactions:

- Creation of a time-stamped history folder, for example: `D:\DirectPlanning\histo\2018.02.01-12:00`.
- Saving of the schedule before import, as a `dpl2` file in this folder.
- Actual achievement of the import.
- Creation of import detailed logs: `D:\DirectPlanning\histo\journal.log` and `D:\DirectPlanning\journal.log`.
- Each import file is moved to the time-stamped folder and the `.ok` extension is added if all records were processed successfully. Example: `D:\DirectPlanning\histo\import_001.csv.ok`
- Each import file is moved to the time-stamped folder and the `.err` extension is added if there is at least one record in error in this file. Example: `D:\DirectPlanning\histo\import_001.csv.err`
- The scheduled is backed up after import, provided that no error was encountered during import and the automatic backup was not disabled.

These transactions are performed for reasons of security (to avoid a file being imported more than once) and traceability (to maintain a history of the different imports and their outcome).

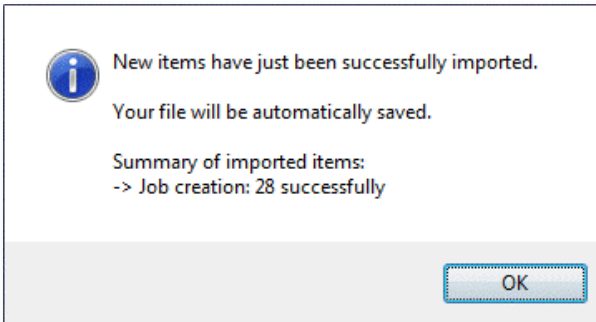
Note

Logging of the schedule can quickly saturate disk space.

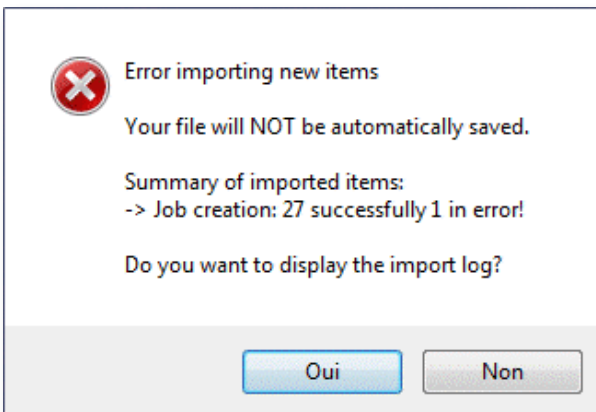
Remember the check how the automatic purge of imports is configured (**Configuration > General configuration > Automatic import**)

1.2.6. Import result

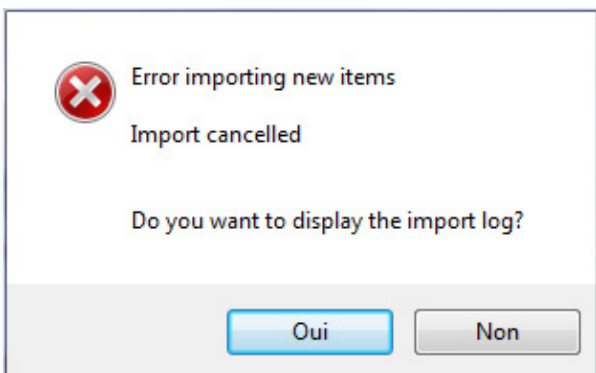
3 scenarios may arise:



◀ No error encountered.



◀ The encountered errors do not necessarily require to resume the import.



◀ The encountered errors require to resume the import.

Resuming procedure

Following import, when closing the schedule without saving, 2 scenarios are possible:

1. Make the corrections in the program generating the files to import, regenerate the files to import and relaunch the import.
2. Put the affected files back in the import folder, delete the .err extension, directly edit the corresponding .csv files you relaunch the import.

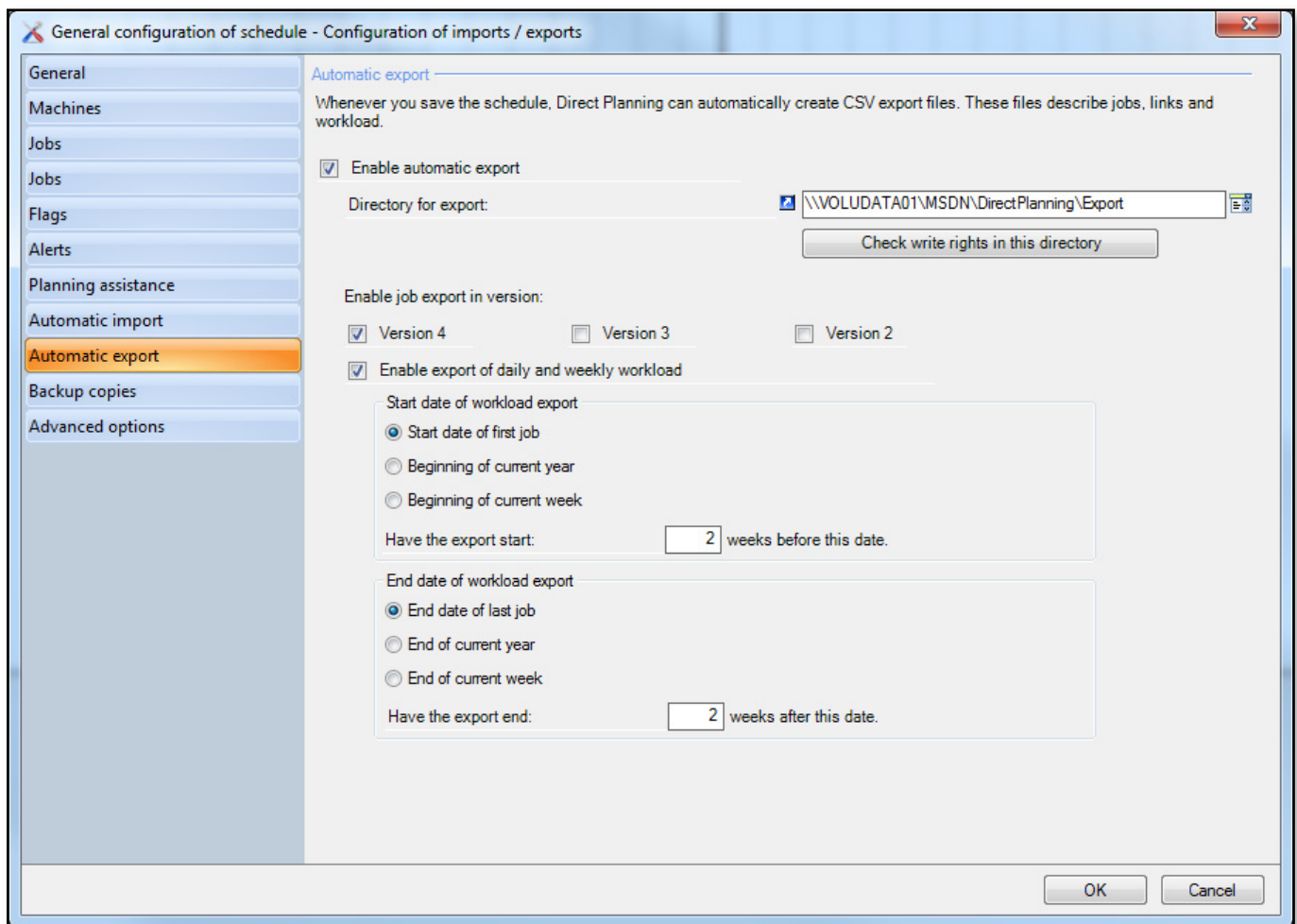
1.3. Exporting data

As discussed earlier, Direct Planning can generate files for third party applications (such as an ERP, CAPE, specific program or Excel macro).

Direct Planning exports jobs (with attached flags), links and optionally the daily and weekly workload.

The export is automatically generated each time the schedule is saved.

To configure the export, click on **Configuration > General configuration > Automatic export**:



Characteristics of exported files

- CSV format
- Placed in the export folder configured in the screen above (**Configuration > General configuration > Automatic export**)
- Contain all the modifications made since the last backup.

Named:

- **export_task.csv** for jobs in the v1 format.

- `export_task_v2.csv` for jobs in the v2 format.
- `export_link.csv` for links in the v1 format (there is no v2 format for links).
- `export_calendar_day.csv` for calendars and the daily workload.
- `export_calendar_week.csv` for the weekly workload.

Note

The colon replaces the semicolon in all text zones of the exported file.

The formatted notes are exported as plain text, without formatting and carriage returns. These are replaced by the character string `%/%` (percent slash percent).

1.3.1. Data export formats

Exporting Process Information

No.	Designation	Format	Comments
1	Data type	alpha	Possible values: from TASK-IP
2	Version of export format	alpha	Value: 4
3	Direct Planning identifier for this job	alpha	
4	Process Information number	Num	
5	Configurable area 1	alpha	
6	Configurable area 2	alpha	
7	Configurable area 3	alpha	
8	Configurable area 4	alpha	
9	Configurable area 5	alpha	
10	Configurable area 6	alpha	
11	Configurable area 7	alpha	
12	Configurable area 8	alpha	
13	Configurable area 9	alpha	
14	Configurable area 10	alpha	

Exporting jobs

No.	Designation	Comments
01	Data type	Value: TASK or TITLE Format: alpha
02	Version of import format	Values: 4 Format: alpha
03	ERP unique identifier for this job	The purpose of this zone is to allow the third party application to recognise a job it previously transferred to Direct Planning via the import function. For imported jobs, it contains the number assigned by the external software. For jobs created in Direct Planning, it is set to 0 (zero) unless you give it a value during import. When a job is subdivided, the 2 resulting jobs are identified by #1 and #2 suffixes. Format: alpha
04	Direct Planning unique identifier for this job	This zone contains the unique internal number assigned by Direct Planning. Format: alpha
05	Date of update	Format: datetime
06	Job name	Format: alpha
07	Identifier of resource	Format: alpha
08	Designation of resource	Format: alpha
09	Operation identifier	Format: alpha
10	Operation designation	Format: alpha
11	Working unit identifier	Format: alpha
12	Working unit designation	Format: alpha
13	Start date and time	Format: datetime***
14	End date and time	Format: datetime***
15	Entered earliest start date and time	Format: datetime***
16	Earliest start date and time derived from flags (with element receipt constraint)	Format: datetime***
17	Earliest start date and time forced by upstream jobs of route	Format: datetime***
18	Actual earliest start date and time	Format: datetime***
19	Earliest start date and time of route	Format: datetime***
20	Latest end date and time entered	Format: datetime***
21	Latest end date and time forced by downstream jobs of route	Format: datetime***
22	Actual latest end date and time	Format: datetime***
23	Latest end date and time of route	Format: datetime***
*** Datetime columns use the DD.MM.YYYY hh:mm format (with a space between the year and time).		
24	Declared start date and time of job	
25	Declared end date and time of job	
26	Former start date and time of job	

No.	Designation	Comments
27	Former end date and time of job	
28	Method of time entry	
29	Planned quantity	Format: quantity
30	Percentage of variable waste	Format: decimal
31	Nbr of WU to produce per operative WU	Format: decimal
32	Nbr of work rate WU per operative WU	Format: decimal
33	Performed quantity	
34	Non-compliant quantity	
35	Started job	
36	Completed job	
37	Progress percentage	Value: from 0 to 100 Format: num
38	Transition duration	Format: duration
39	Planned setting duration	Format: duration
40	Performed setting duration	Format: duration
41	Performed duration of setting stops	
42	Setting completed?	Format: O/N
43	Scheduled setting duration	Format: duration
44	Planned running duration	Format: duration
45	Performed running duration	Format: duration
46	Duration of downtime	Format: duration
47	Scheduled running duration	Format: duration
48	Total planned duration	Format: duration
49	Total performed duration	Format: duration
50	Total scheduled duration (ex-transition times)	Format: duration
51	Total scheduled duration including transition times	Format: duration
52	Locked job	Value: O/N Format: alpha
53	Job to schedule	Value: O/N Format: alpha
54	Job alert code	0 : No positioning alert 1 : The job starts too early. 2 : Job may end too late. 3 : Job ends too late. Format: num

No.	Designation	Comments
55	Cycle alert code	0: No cycle 1: The job is part of a cycle which is applies on the route of this job 2: The job is caught in a cycle. A job in cycle on the resource blocks the job and prevents its movement. The job does not actually belong to the cycle. 3: Impossible movement Format: num
56	Alert code of multi-status flag pending element receipt	0: No flag in alert 1: At least one Element not received flag in alert Format: num
57	Manual alert code	0: No manual alert 1: Manual alert positioned Format: num
58	Manual alert message	Format: alpha
59	Identifier of entity 1	Format: alpha
60	Designation of entity 1	Format: alpha
61	Identifier of entity 2	Format: alpha
62	Designation of entity 2	Format: alpha
63	Identifier of entity 3	Format: alpha
64	Designation of entity 3	Format: alpha
65	Identifier of entity 4	Format: alpha
66	Designation of entity 4	Format: alpha
67	Identifier of entity 5	Format: alpha
68	Designation of entity 5	Format: alpha
69	Identifier of entity 6	Format: alpha
70	Designation of entity 6	Format: alpha
71	Identifier of entity 7	Format: alpha
72	Designation of entity 7	Format: alpha
73	Identifier of entity 8	Format: alpha
74	Designation of entity 8	Format: alpha
75	Identifier of entity 9	Format: alpha
76	Designation of entity 9	Format: alpha
77	Identifier of entity 10	Format: alpha
78	Designation of entity 10	Format: alpha
79	Free zone 1	Format: alpha
80	Free zone 2	Format: alpha
81	Free zone 3	Format: alpha
82	Free zone 4	Format: alpha
83	Free zone 5	Format: alpha
84	Free zone 6	Format: alpha
85	Free zone 7	Format: alpha
86	Free zone 8	Format: alpha
87	Free zone 9	Format: alpha

No.	Designation	Comments
88	Free zone 10	Format: alpha

No.	Designation	Comments
89	Identifier of technical element 1	Format: alpha
90	Designation of technical element 1	Format: alpha
91	Identifier of technical element 2	Format: alpha
92	Designation of technical element 2	Format: alpha
93	Identifier of technical element 3	Format: alpha
94	Designation of technical element 3	Format: alpha
95	Identifier of technical element 4	Format: alpha
96	Designation of technical element 4	Format: alpha
97	Identifier of technical element 5	Format: alpha
98	Designation of technical element 5	Format: alpha
99	Identifier of technical element 6	Format: alpha
100	Designation of technical element 6	Format: alpha
101	Identifier of technical element 7	Format: alpha
102	Designation of technical element 7	Format: alpha
103	Identifier of technical element 8	Format: alpha
104	Designation of technical element 8	Format: alpha
105	Identifier of technical element 9	Format: alpha
106	Designation of technical element 9	Format: alpha
107	Identifier of technical element 10	Format: alpha
108	Designation of technical element 10	Format: alpha
109	Identifier of technical element 11	Format: alpha
110	Designation of technical element 11	Format: alpha
111	Identifier of technical element 12	Format: alpha
112	Designation of technical element 12	Format: alpha
113	Identifier of technical element 13	Format: alpha
114	Designation of technical element 13	Format: alpha
115	Identifier of technical element 14	Format: alpha
116	Designation of technical element 14	Format: alpha
117	Identifier of technical element 15	Format: alpha
118	Designation of technical element 15	Format: alpha
119	Identifier of technical element 16	Format: alpha
120	Designation of technical element 16	Format: alpha
121	Identifier of technical element 17	Format: alpha
122	Designation of technical element 17	Format: alpha
123	Identifier of technical element 18	Format: alpha
124	Designation of technical element 18	Format: alpha

No.	Designation	Comments
125	Identifier of technical element 19	Format: alpha
126	Designation of technical element 19	Format: alpha
127	Identifier of technical element 20	Format: alpha
128	Designation of technical element 20	Format: alpha

Exporting flags

No.	Designation	Comments
Flag 1		
129	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
130	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
131	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
132	Planned date of receipt	Format: datetime***
133	Actual date of receipt	Format: datetime***
*** Datetime columns use the DD.MM.YYYY hh:mm format (with a space between the year and time).		
134	Configurable area 1	Format: alpha
135	Configurable area 2	Format: alpha
136	Configurable area 3	Format: alpha
137	Configurable area 4	Format: alpha
138	Configurable area 5	Format: alpha
139	Configurable area 6	Format: alpha
140	Configurable area 7	Format: alpha
141	Configurable area 8	Format: alpha
142	Configurable area 9	Format: alpha
143	Configurable area 10	Format: alpha
Flag 2		

No.	Designation	Comments
144	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
145	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
146	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
147	Planned date of receipt	Format: datetime
148	Actual date of receipt	Format: datetime
149 ▼	Configurable area 1	Format: alpha
158	Configurable area 10	
Flag 3		
159	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
160	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
161	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
162	Planned date of receipt	Format: datetime
163	Actual date of receipt	Format: datetime
164 ▼	Configurable area 1	Format: alpha
173	Configurable area 10	
Flag 4		
174	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num

No.	Designation	Comments
175	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
176	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
177	Planned date of receipt	Format: datetime
178	Actual date of receipt	Format: datetime
179 ▼	Configurable area 1	Format: alpha
188	Configurable area 10	
Flag 5		
189	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
190	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
191	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
192	Planned date of receipt	Format: datetime
193	Actual date of receipt	Format: datetime
194 ▼	Configurable area 1	Format: alpha
203	Configurable area 10	
Flag 6		
204	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
205	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
206	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
207	Planned date of receipt	Format: datetime
208	Actual date of receipt	Format: datetime

No.	Designation	Comments
209 ▼ 218	Configurable area 1 Configurable area 10	Format: alpha
Flag 7		
219	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
220	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
221	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
222	Planned date of receipt	Format: datetime
223	Actual date of receipt	Format: datetime
224 ▼ 233	Configurable area 1 Configurable area 10	Format: alpha
Flag 8		
234	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
235	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
236	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
237	Planned date of receipt	Format: datetime
238	Actual date of receipt	Format: datetime
239 ▼ 248	Configurable area 1 Configurable area 10	Format: alpha
Flag 9		

No.	Designation	Comments
249	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
250	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
251	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
252	Planned date of receipt	Format: datetime
253	Actual date of receipt	Format: datetime
254 ▼	Configurable area 1	Format: alpha
263	Configurable area 10	
Flag 10		
264	Status	Values: -1: Unconfigured flag 0: Inactive flag 1: Active indicative flag or multi-status flag with status 1 2: Multi-status flag with status 2 3: Multi-status flag with status 3 4: Multi-status flag with status 4 5: Multi-status flag with status 5 Format: num
265	Status of receipt (For Waiting for element receipt flags)	0: The flag is not a Waiting for element receipt flag 1: Waiting for element receipt 2: Received element Format: num
266	Alert code on this flag	0: No alert on this flag 1: Expired planned receipt date for a waiting for element receipt flag.
267	Planned date of receipt	Format: datetime
268	Actual date of receipt	Format: datetime
269 ▼	Configurable area 1	Format: alpha
278	Configurable area 10	

Exporting links

No.	Designation	Comments
1	Data type	Value: LINK (or TITLE) Format: alpha
2	Version of export format	Value: 4 Format: alpha
3	Direct Planning identifier of source job	Format: alpha
4	Direct Planning identifier of destination job	Format: alpha
5	External identifier of source job	Format: alpha
6	External identifier of destination job	Format: alpha
7	Link duration	Format: num

Exporting memos

No.	Designation	Comments
1	Data type	Value: LINK (or TITLE) Format: alpha
2	Version of export format	Value: 4 Format: alpha
3	External identifier of job (ERP ID)	Format: alpha
4	Direct Planning internal identifier	Format: alpha
5	Login of Direct Planning user	Format: alpha
6	Comment text	To create a line break: \r Semicolons are replaced by commas. Double quotes are doubled.
7	State of alert linked to comment	
8	Comment modification date	
9	Comment alert date	

Calendars and daily workload

The exported file contains only one type of record: the hours worked by day and by resource (**DAILY**). 17 fields exported, translating into 16 semicolons.

The first line of the exported file is a header line to ease the identification of columns (data type = **TITLE**).

No.	Designation	Comments
1	Data type	Value: DAILY (or TITLE) Format: alpha
2	Version of export format	Value: 1 Format: alpha
3	Date	Format: dd/mm/yyyy
4	Direct Planning identifier of the resource	Format: alpha
5	Work capacity for this resource at this date	In minutes Format: num
6	Actual workload for this resource at this date	In minutes Format: num
7	Workload percentage for this resource at this date	= zone 6/zone 5 X 100 Format: num
8	Range start 1	00:00 as start time means midnight of the day.
9	Range end 1	00:00 as end time means midnight of the next day.
10	Range start 2	Start and date time not entered: unused time range Format: hh:mm
11	Range end 2	
12	Range start 3	
13	Range end 3	
14	Range start 4	
15	Range end 4	
16	Range start 5	
17	Range end 5	

Warning

If you open the **export_calendar_day.csv** file in Microsoft Excel and the software is configured to not display zero values, confusion may arise as 00:00 values no longer appear, mixing up 24 hour and zero hour work capacity cases!

Weekly workload

This file indicates the workload and work capacity by week and by resource.

The exported file contains only one type of record: the hours worked by week and by resource (**WEEKLY**). 8 fields exported, translating into 7 semicolons.

No.	Designation	Comments
1	Data type	Value: WEEKLY (or TITLE) Format: alpha
2	Version of export format	Value: 1 Format: alpha
3	Week number	Format: num
4	Week start date	Format: dd/mm/yyyy
5	Direct Planning identifier of the resource	Format: alpha
6	Work capacity of this resource for this week	In minutes Format: num
7	Actual workload of this resource for this week	In minutes Format: num
8	Workload percentage of this resource for this week	= zone 7/zone 6 X 100 Format: num

Note

The week spreads from Monday to Sunday.