

# Enterprise Management

Release Guide  
Version 12.0.15

Enterprise Management Product Team  
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# 1.0 Release Overview

## 1.1 Release Objectives

Product strategic priorities	This release...
Expanding the addressable market with new functionality and packaged vertical solution	Introduces new project management functionality for services industries and delivers packaged solution for distribution companies, integrating CRM and e-commerce capabilities
Supporting versatile development and deployment	Delivers preconfigured environment (Fast Start) for simpler core finance and distribution modules deployment in the cloud in France and ZA
Simplifying the user experience	Improves the header with a simplified access to the connection information

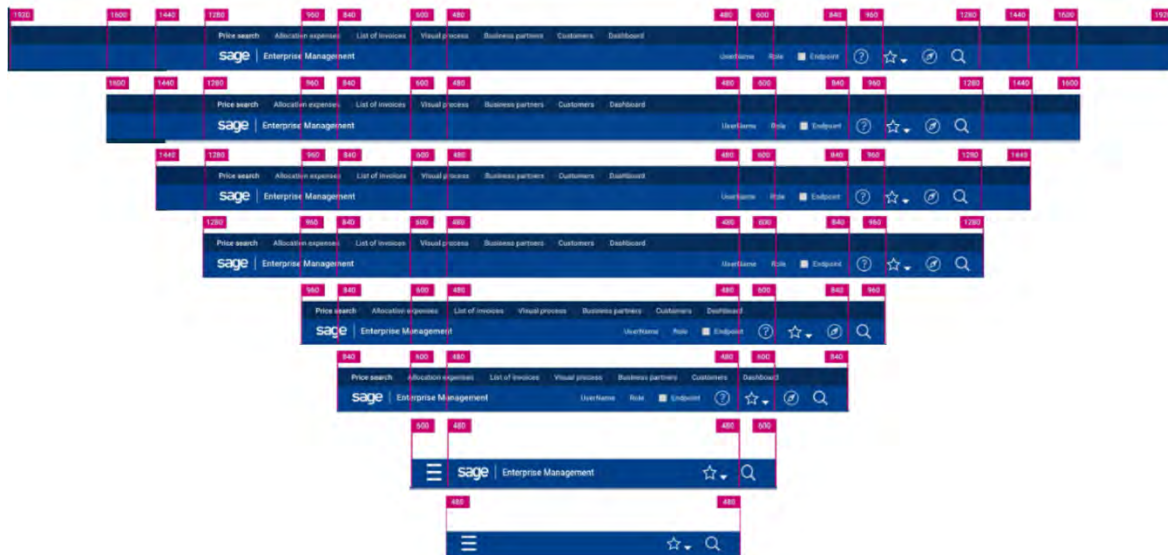
## 1.2 Target market and positioning evolution

New/extended market segments addressable with this release	Key features
Existing and new geographies	Tax management
Supply Chain Management (increased efficiency, business globalization)	Licence Plate Number and Supplier management per product/site
Discrete and Process Manufacturing and Distribution (increased profitability)	Non-conformance management
Discrete Manufacturing and Services (increased competitiveness)	Project management

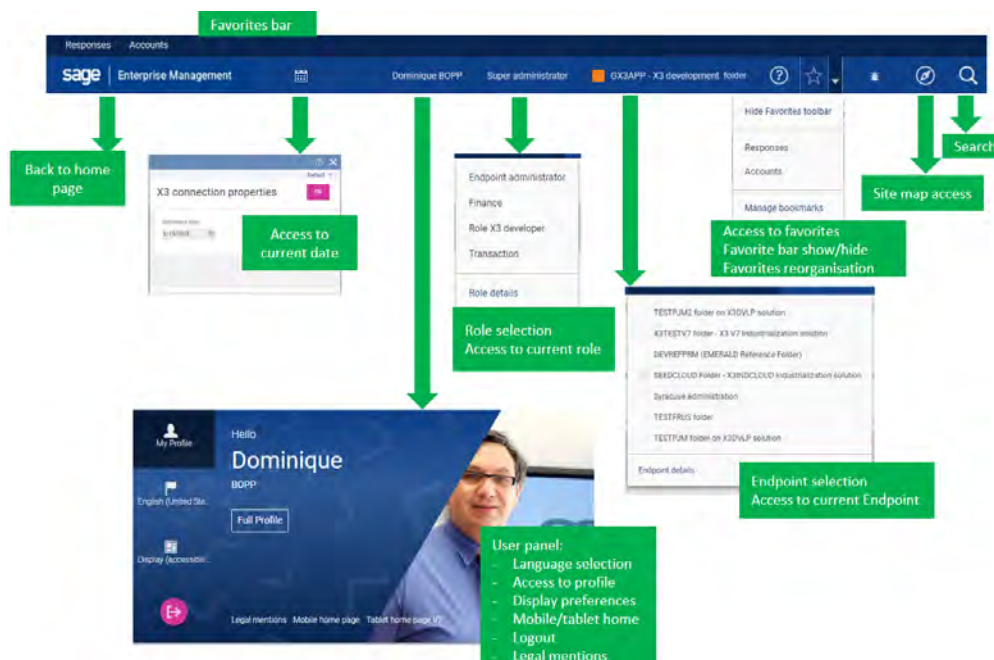
## 2.0 User Interface

### 2.1 New header

The new header adapts automatically to the size of the page, as shown below:



Let's look at the options available on the header:

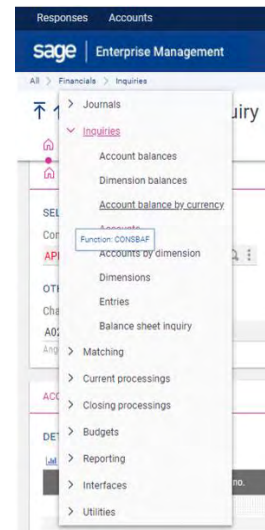


- The user preference panel has been reorganized to make it easier to use.
- The input of current date now has a dedicated icon.
- Favorites can be set by clicking on the star icon. A pop-up opens to select them. A top favorite bar is also available and can be activated or deactivated.

## 2.2 Navigation

Navigating from one function to another is now easier and can be done by:

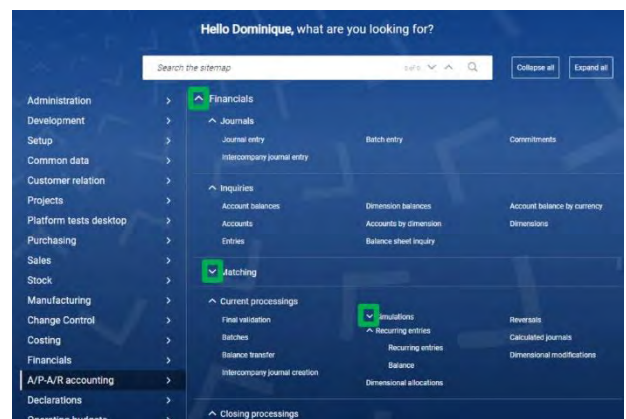
- Using the favorites.
- Clicking on the breadcrumb when a function is already opened.
- Using the site map.



## 2.3 Site map

The site map now opens a whole page, presenting all the menu items available to the current user. It closes automatically after use, or when you click again on the compass icon. The following features are available:

- On the left is a list of modules, clicking on a link scrolls the page to the appropriate section.
- Ability to **fold/unfold** a module, a section, a sub-section.
- Search box to quickly access relevant links.



## 2.4 Responsive design

The layout of a page now automatically adapts to the size of the device being used (from a mobile device to a desktop). The responsive design takes into account the size of the fields and the corresponding titles to get the best use of the available space. This means that users can now potentially display any classic page on every type of device (in online mode).

In a section, fields are positioned by default on a line until the whole line is full. The actual space used by the titles and fields is taken in account, so the layout is now automatically adjusted depending on the language. In the example shown below, a section presented in German displays on 3 lines while the same section in English uses only 2 lines.

German page			
EIGENSCHAFTEN			
Typ Abschreibungsart *	Standardmodus	→ Auf das Land beschränkt Q:	→ Beschränkt auf Rechtsordnung Q:
Regel Anwendung Satz *	Konstanter Satz *	0,00	Abschreibungsbeginn
Verfahren äquivalenter Restwert		Q:	
Pro rata temporis *			
CHARACTERISTICS			
Depre method type *	Standard method	→ Limited to country Q:	→ Limited to legislation Q:
Rate application rule	Constant rate *	0.00	Depre start date
Residual equivalent method Q:		Prorata	

## 2.5 Authoring

The authoring has been simplified:

- A left panel displays the list of fields

- Sections and blocks can now be split into two columns, the boundary between two columns is determined by a rule in the left list

- Flags are associated with every field which allows fields to be hidden on mobile and/or desktop devices, and the ability to include a line break between two fields;

The screenshot shows the Sage Enterprise Management 'Customer' form. The left sidebar contains a 'Field panel' with various sections like FINANCIALS, TAXES, and ANALYSIS. The main form area is divided into several sections: FINANCIALS, TAXES, PAYMENT, and ANALYSIS. Annotations are present:

- A blue box labeled 'Split a section in 2 columns' points to the 'FINANCIALS' section.
- A green box labeled 'Hide a field on mobile' points to the 'Bills to' field.
- A red box labeled 'Include a line break between 2 fields' points to the 'Payment days' field.
- A green box labeled 'Hide a field on desktop' points to the 'Bills to' field.
- A pink box labeled 'Split a block in 2 columns' points to the 'PAYMENT' section.

The 'Field panel' on the left includes sections for:

- FINANCIALS**: Bills to, Address, Pay to, Factor, Group Customer, Customer risk, Accounting code, Account Structures.
- TAXES**: Tax Rule, Exemption Number, Subject to tax.
- PAYMENT**: Payment terms, Payment days, Settlement Discount, Bank payment, Reminder group, Reminder Type, Statement type, Single exchange.
- ANALYSIS**: A table with columns: Dimension type, Description, Dimension, Description.
- CASH VAT (PORTUGAL)**: A table with columns: Tax Rule, VAT start date, VAT end date.



## 3.0 Local compliance

### 3.1 AU - Australia

#### 3.1.1 Business Activity Statement (BAS) and Goods & Services Tax (GST) reporting

The GST reporting function (GESGST) has been replaced by a new workflow to generate the data necessary to report BAS and GST data to the Australian Tax Office (ATO) on a monthly or quarterly basis. The former GST report archive function remains available to review legacy data.

#### 3.1.2 Reporting workflow

- Ability to create company groups in a dedicated GST grouping function

One company within the group must be designated as Head entity, responsible for the group's tax obligations such as paying tax and submitting tax returns.

The GST group profile determines the reporting frequency: monthly or quarterly. Group members must be setup as Australian companies, e.g. identified by an Australian Business Number (ABN) and declared as participating in the Australian tax reporting.

- Ability to create and manage reporting periods

You create reporting periods for GST groups. You can review data per company and manually input additional BAS values such as PAYG, Income tax, Fringe benefit tax, etc. You generate the GST report to prepare the necessary data for the ATO.

#### 3.1.3 Change in data collection

Both GST reporting and BAS reporting collect the tax information from the G/L instead of the invoices, and therefore, now take into consideration direct journal entries, - either manual or miscellaneous entries (for example Expense notes, or information from in process flows that are generated from prior processes or connected applications.

In addition to collect all required tax information and takes into account potential interfaces, this change makes the tax reporting fully consistent with the accounting system and more in line with best practices.



## **3.2 BE - Belgium**

### **3.2.1 Belgium Intrastat declaration**

The Belgium Intrastat declaration has been enhanced to reflect B2B Services

## **3.3 CH - Switzerland**

### **3.3.1 Import ISO 20022 bank files**

The Advanced bank statement import function now supports importing XML messages for bank-to-customer statements according to the Swiss adoption of the ISO 20022 ruleset. Through this extension, you can process received ISR payments or full bank statements when switching from the current Swiss payment formats to the new ISO 20022-based formats.

The bank statement import supports Swiss CAMT.053 account statements and Swiss CAMT.054 batched transaction notifications. CAMT.053 files with linked CAMT.054 detail files are not supported.

Depending on your requirements, ask your bank to provide either CAMT.053 files with full detail resolution or CAMT.054 files restricted to received ISR payments.

Related changes include:

- Predefined CAMT element mapping is included as part of the setup; select as needed in the segment definition.
- Use the search criteria ISR reference number in the Bank import setting function to include Swiss ISR reference numbers in the matching process.
- The CAMT file type has been added to the Bank import format and Bank import segment definition functions as well as a Level field to indicate the hierarchical level of a bank import segment in relation to the CAMT XML structure defined in the CAMT element mapping.
- Use the BTC reference field in the Search term list function to match payments on transaction detail level by bank transaction codes.

Changes related to the Process bank transaction:

- Transaction detail added to bank statements for CAMT formats. Depending on the payment grouping in the CAMT file, transaction detail is added on import.
- Match open items for different BPs to a single bank statement import transaction. For each BP, a separate payment is created.
- If at least one but not all payments for a transaction are created, (i.e., due to errors) the transaction is set to Partially validated. On the next validation, only the remaining payments for this transaction is processed.
- Set transactions to Manually completed by selecting Close transaction to close a transaction without creating payments through the bank statement import process. For example, if an invoice was paid through another process. Any transactions set to Manually completed do not generate payments on validation.

Banks usually include specific rules in their files so that the standard delivery must be considered as templates to be adjusted depending on your context and the bank you work with. Ideally you get a ready-to-use flow, in any case, you benefit from pre-settings accelerating the rollout of the solution.

### 3.3.2 Credit transfers (PAIN.001)

The Swiss payment system is moving to a new payment format based on the ISO 20022 format while phasing out the previously existing formats. Credit transfers using DTA (banks) and EZAG (Post Finance) formats are replaced by the Customer Credit Transfer Initiation to comply with the PAIN.001 format.

To allow existing users of Enterprise Management to work with these new payment formats, Sage Enterprise Management supports the creation of credit transfers with the payment types defined in [the SIX usage guide and implementation guidelines](#):

Type	Description
1	ISR
2.1 and 2.2	IS 1-stage and 2-stage
3	CHF/EUR transfers to IBAN/postal account
4	Foreign currency transfers to IBAN/postal account
5	Foreign SEPA transfers
6	Foreign transfers

The following setup is delivered for legislation SWI to create ISO 20022 payments:

- New payment methods  
New payment terms based on the delivered ISO payment methods must be created
- New bank file definitions compliant with PAIN.001 format

Code	Type
ISO1	Domestic – ISR
ISO21	Domestic - IS 1-stage
ISO22	Domestic - IS 2-stage
ISO3	Domestic - IBAN/postal account
ISO4	Domestic - Foreign currency
ISO5	Foreign SEPA
ISO6	Foreign – SWIFT

Code	Type
ISO1	Domestic – ISR
ISO21	Domestic - IS 1-stage
ISO22	Domestic - IS 2-stage
ISO3	Domestic - IBAN/po
ISO4	Domestic - Foreign
ISO5	Foreign SEPA
ISO6	Foreign – SWIFT

- New payment types

Code	Type	Comment
SWI1	ISO1	Associated to payment method ISO1
SWI21	ISO 2.1	Associated to payment method ISO2 ISO21
SWI22	ISO 2.2	Associated to payment method ISO2 ISO22
SWI3	ISO 3	Associated to payment method ISO3
SWI4	ISO 4	Associated to payment method ISO4
SWI5	ISO 5	Associated to payment method ISO5
SWI6	ISO 6	Associated to payment method ISO6

Banks usually include specific rules in their files so that the standard delivery must be considered as templates may need to be adjusted depending on your context and the bank you work with. Ideally you get a ready-to-use flow, in any case, you benefit from pre-settings which will accelerate the rollout of the solution.

### 3.3.3 Direct debits (PAIN.003)

New Direct Debit file format (norm ISO 20022) has been validated with PostFinance in Switzerland.

Banks usually include specific rules in their files so that the standard delivery must be considered as templates may need to be adjusted depending on your context and the bank you work with. Ideally you get a ready-to-use flow, in any case, you benefit from pre-settings accelerating the rollout of the solution.

### 3.3.4 Improvements of the Advanced bank statement Import for Switzerland

Swiss specifics are integrated into the Advanced Bank Statements:

- Search for Swiss ISR reference numbers in the Bank statement import matching process.
- Select BTC reference in the Search term list function to match payments on a sub-detail level by means of bank transaction codes.

### 3.3.5 VAT changes for 2018

The following modifications are available to support the Swiss VAT rates by 1.1.2018:

- New VAT forms for Q4/2017 and later
- Time range control in the Swiss VAT parameter settings

## 3.4 DE/AT - Germany / Austria

### 3.4.1 DATEV compliancy export improvements

DATEV export interface has been improved to deliver better usability:

- You can copy a range of accounts or tax codes when assigning DATEV-compliant numbers associated to G/L account, BP account, and VAT code.
- When creating new accounts, suppliers or customers, you can easily access the related DATEV assignment function to ensure you are creating DATEV-compliant data.
- In the DATEV tax code assignment function, you can now add the DATEV-specific issue codes for §13b reverse charge transactions that are exported in the DATEV export interface. This option requires the set-up of dedicated tax codes per DATEV issue code.

In addition:

- All functions in the DATEV export interface are now linked to a dedicated activity code DATEV, which requires the activating the KDE German legislation activity code.
- To identify journals without counter accounts and journals with VAT code inconsistencies you can use additional queries located in the DATEV submenu.
- To avoid entry mistakes two parameters and a set of controls have been added:
  - Definition of the length of DATEV G/L accounts. The default value is 4.
  - You can decide to disable the following DATEV compliancy controls (active by default): 1- Warning message on G/L account creation in a German chart of account a warning is issued if the length of the new account is different from the length assigned to the DATEV G/L account length; 2- Blocking message on Journal entry transaction if the controls of consistency of the VAT are inactive.

### 3.4.2 New VAT declaration forms for 2018

These forms are for preparatory purposes only. You must transmit the VAT declaration electronically to the German fiscal authority.

### 3.4.3 GoBD export modifications

Additional data fields for journals and open items are exported.

- The time range control for open items includes all open items either created or closed in the export time range.
- Semicolons and double quotes in description fields and address lines are filtered through the export and replaced by blanks to avoid problems with the structure of the export files.

## 3.5 FR - France

### 3.5.1 A fiscal year is limited to 23 months

To meet new legislation, you can now limit a fiscal year to 23 months. This enhancement is compatible with other existing requirements including the prohibition of having more than 2 opened fiscal years in the same time, or the obligation to synchronize fiscal period to entire months

### 3.5.2 Tax on company cars - FAS2855-2017

Support for changes in 2018 related to the calculation of taxes on company cars are now taken into account for carbon emission in addition of the power of the engine.

### 3.5.3 Create an invoice in the non-closed previous month

To meet legislative requirements, you can now create an invoice in a previous month, even if an invoice has been created for the subsequent month. Note: you cannot add invoices to a prior month once the period is closed.

### 3.5.4 Penalties (fix amount) for delays of payments

French law (LME) defines the rules for the calculation of penalties due to payment delays that must include a fix amount due per invoice (minimum €40) plus a variable amount (calculated using current rates).

- To comply with this law the following improvements have been implemented in the report FUP "Reminder management":
  - Two new parameters have been introduced to indicate by country the amount of the penalty: , 'Fixed allowance country' and 'Fixed allowance amount'.
  - Legal notice text displayed in the report "Any late payment will require that a fixed allowance be paid for the recovery costs" with the amount and the currency of the invoicing company.
- Triggering rules to display the legal notice are:
  - The reminding company is linked to a country that is listed in the 'Fixed allowance country' reporting parameter
  - The reminded customer, who can be either the Pay-by BP or the Bill-to BP of the reminded invoice/open item, is a legal person
  - An early discount/late charge code is entered in the invoice header of the reminded open item(s)
  - The reminded open item is an invoice, not a credit memo

As soon as a reminded open item meets these rules, the legal notice is displayed, potentially in addition to the 'Late charges' line.

The corresponding amount (e.g. €40 for French reminding companies) is added in the final 'Balance' column.

A total line for these fixed allowances has been added, in the same block as the total late charges line is displayed and is taken into accounts in the 'Total amount to pay' line.

Note: the penalty/fixed allowance is only considered/displayed in FUP report. FUPRC report is not updated as, for French companies, fixed reminder charges will be managed with the legal notice added, and not with fixed reminded charges (Interval management). Both reminder charges are exclusive one for another. In addition, the amount indicated in the legal notice is not considered in FUPSIM, FUPSIML and FUPSIMP reports. Likewise, it is not displayed in the reminder management screens (total and detail by customer). It is only considered in FUP report.

### **3.5.5 Payment practices reporting (Law “LME”)**

This report provides information on payment delays to auditors as required by the Loi de Modernisation de l'Economie” (LME). Amounts extracted are without tax amounts as specified in the original requirement. You have the option to include detailed open item information by selecting the appropriate report parameters:

- Not closed open item detail
- Purchases & sales invoice detail
- Disputed open items detail
- Multi-BP invoice detail

## **3.6 PL - Poland**

### **3.6.1 Split payment**

Split Payment mechanism has been enforced by the Polish Authorities in 2018. To comply with regulations, it must be possible to pay separately the VAT part (in a dedicated accounts) and the Tax exclude part of the invoices.

Split payment functionality requires to consider separately the part of the VAT in open items and payments. For this purpose, existing add-ons have been improved.

- On the supplier side, split payment mechanism is triggered in specific payment transactions. During the payment proposal, VAT is calculated and allocated in the Elizir file.
- On the customer side, the MT940 process get the information and generates the transactions accordingly.

## **3.7 PT - Portugal**

### **3.7.1 SAF-T improvements**

The following improvements related to SAF-T are now available:

- To better identify withholding tax accounts for SAF-T extraction. A new general parameter is created to set-up the accounts related to withholding tax. In Sales invoices, if footer elements have these accounts set in the accounting codes, it is considered as withholding tax. In AR

invoices, if the customer invoice has a line with this account, this line is eligible for withholding tax.

- To meet the “rectification declaration law” n. 2-A/2017 related to law 302/2016 requirements, new types of documents are exported to SAF-T: Sales orders, Sales quotes and Sales invoices.
- To comply with the Ordinance 302/2016 of December 2th of "AT - Autoridade Tributária e Aduaneira," RC and RG receipt types are exported to table 4.4 Documents of receipts issued (Payments).
- A new control verifies the existence of taxonomy codes and existence of accounting groups when exporting SAFT-T.
- New control validations are available in the SAF-T linked to the following tags: Producttype, hashcontrol, customerID, deliveryID, Paymentdate, payments, Sourceid, references, line, systementrydate, period, reference, orderreference, totalcredit, creditamount, debitamount, settlementamount, taxpayable, nettotal, Shipto, Shipfrom, Exchangerate
- New SAF-T control allocates the values embedded and proportionally allocated to the product lines when there are footer elements.
- A new parameter allows the user to determine if lines concerning KIT products are communicated/exported or not.

### **3.7.2 Transportation note printing**

When printing a transportation note, 3 copies - original, duplicate and triplicate - are printed (if the transportation note is “Global”)

### **3.7.3 Other improvements**

- A new control prevents the same final sequential numbers across different document types from different transactions types.
- Information displayed in reports (Sales invoice, AR invoice, Sales delivery, Sales quote, Service contract, service requests, transportation notes, inter-site transfers and payments) is reallocated, with:
  - document number
  - customer information
  - payment information
  - certification information

## **3.8 UK - United Kingdom**

### **3.8.1 Supporting Making Tax Digital (MTD)**

Enterprise Management continually evolves, consolidates existing features and introduces new features which allows a new framework to be developed that is dedicated to meeting the needs of VAT reporting. Initially developed to meet the requirements of the UK Making Tax Digital (MTD) requirements this framework will be progressively deployed to meet the requirements in other countries including the United Arab Emirates, Saudi Arabia, South Africa, France and Switzerland.

For the UK, you will benefit from improved automation for electronic submission of VAT reporting to HMRC. This automation will limit the risk of mistakes and improve the efficiency of the financial processes. This framework will provide you with flexible tools to configure your VAT reporting needs



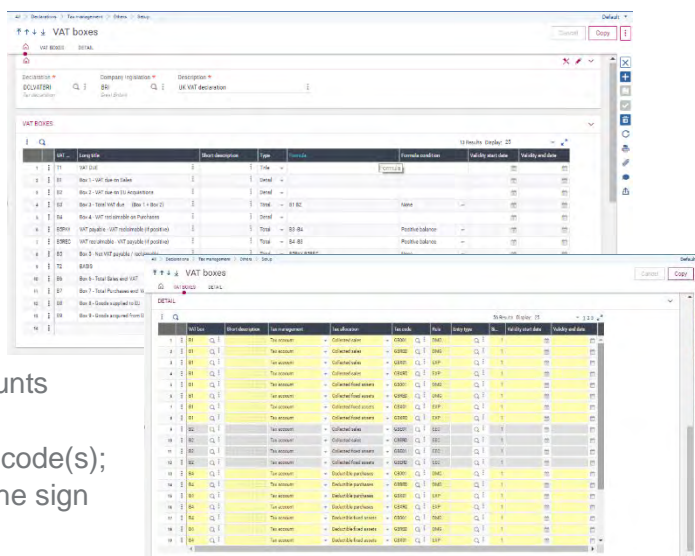
Features supporting this framework include:

- VAT Box Management
- VAT Form Management
- Electronic Submission

### 3.8.2 VAT box management

The VAT declaration for the UK is now managed in the VAT box management function, delivered with a standard predefined setup based on standard tax codes.

- You define the structure of the VAT return preparatory report (VAT 100 form with the 9 boxes), using title boxes or calculation boxes, based on the accounting entry details or on the total.
- You define the combinations of values to be matched with the entry lines, so they can be extracted and included in the VAT declaration calculation. The criteria available are: tax management rule of accounts (subjected, tax account); tax allocation rule (collected sales, deductible purchases); tax code(s); document type(s); validity date range; and the sign used to display calculated amounts.

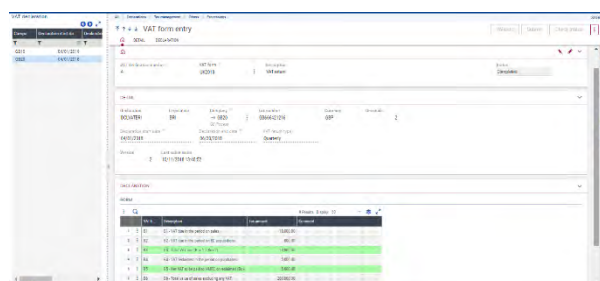


VAT type	Description	Tax management rule	Tax allocation rule	Tax code	Tax type	Validity start date	Validity end date
1	Box 1 - VAT due on sales	1	1	1	1	1	1
2	Box 2 - VAT due on purchases	2	2	2	2	2	2
3	Box 3 - VAT due on sales (Box 1 - Box 2)	3	3	3	3	3	3
4	Box 4 - VAT not deductible on purchases	4	4	4	4	4	4
5	Box 5 - VAT payable (VAT not deductible on purchases)	5	5	5	5	5	5
6	Box 6 - VAT payable (VAT deductible on purchases)	6	6	6	6	6	6
7	Box 7 - Total VAT payable (Box 5 + Box 6)	7	7	7	7	7	7
8	Box 8 - Total VAT payable (Box 5 + Box 6)	8	8	8	8	8	8
9	Box 9 - Total VAT payable (Box 5 + Box 6)	9	9	9	9	9	9

Based on this setup, you run dynamic reports justifying the calculation of the VAT boxes.

### 3.8.3 VAT Form Management

The VAT form designer allows you to create the structure of the VAT return to submit to HMRC. As soon as the template is defined, you record your VAT return and submit the form (for one company and a period).



VAT type	Description	Tax management rule	Tax allocation rule	Tax code	Tax type	Validity start date	Validity end date
1	Box 1 - VAT due on sales	1	1	1	1	1	1
2	Box 2 - VAT due on purchases	2	2	2	2	2	2
3	Box 3 - VAT due on sales (Box 1 - Box 2)	3	3	3	3	3	3
4	Box 4 - VAT not deductible on purchases	4	4	4	4	4	4
5	Box 5 - VAT payable (VAT not deductible on purchases)	5	5	5	5	5	5
6	Box 6 - VAT payable (VAT deductible on purchases)	6	6	6	6	6	6
7	Box 7 - Total VAT payable (Box 5 + Box 6)	7	7	7	7	7	7
8	Box 8 - Total VAT payable (Box 5 + Box 6)	8	8	8	8	8	8
9	Box 9 - Total VAT payable (Box 5 + Box 6)	9	9	9	9	9	9

### 3.8.4 Electronic submission to HMRC

The electronic submission to HMRC is fully integrated into the business processes. The VAT return form allows you to validate your VAT return, and submit automatically to HMRC. Enterprise Management allows you to track the status of the VAT return and receive validations from HMRC.

### 3.8.5 Payment practices report

This report fulfills the UK Payment Practices biannual reporting requirement to provide five key statistics regarding payment practices. This regulation applies to all companies, public, private, or quoted, that exceed a certain size. After generating this report, you need to manually enter the data on the UK government website.

## 3.9 US/CA - United States of America/Canada

### 3.9.1 Support for AR Lockbox files



AR Lockbox files include a list of payments received from an Accounts Receivable Lockbox service. It is now possible to leverage the Advanced Bank Statement capabilities for AR Lockbox and automate the matching of customer payments with open items.

AR Lockbox services usually include specific rules in their files so that the standard delivery must be considered as templates to be adjusted depending on your context and the service you work with. Ideally you get a ready-to-use flow, in any case, you benefit from pre-settings accelerating the rollout of the solution.

### 3.9.2 Support ACH bank formats

Generate payments using the American Clearing House (ACH) file formats: 94-character or XML file. New XML bank file definitions are provided in the Bank file definition function (GESTFB). As any bank file format delivered by Enterprise Management, please note that banks may have specific requirements so that the templates may need to be adjusted.

Code	Type	Comment
D_ACHC	US ACH XML	Corporate account for CCD (corporate credit or debit or also referred to as Cash concentration or disbursement)
D_ACHP	US ACH XML	Prearranged pay for PPD (Prearranged payment and deposit entry)
D_CHK	US CHK XML	
D_MTS	US MTS XML	

Linked to these templates, new payment entry types are provided in the Payment entry types function:

Code	Comments
PAYAC	Wire Transfer Issues-ACH (Note: the default bank file format will be D_ACHC, as a result, customers will either change it to D_ACHP when relevant or set up a new payment entry type)
PAYCK	Wire Transfer Issues-CHK associated with bank file format D_CHK
PAYMT	Wire Transfer Issues-MTS associated with bank file format

## 3.10 ZA – South Africa

### 3.10.1 Fixed Assets – Wear & tear Depreciation

Enhancements have been made so you can now deprecate based on yearly percentages. Note: the entire depreciation for the year must be allocated to a single period, for the entire year, whatever the start date or the issue date.

### 3.11 Summary: Delivery and versioning

Country	Feature	Backport (Same feature or equivalent)				
		v11	u9	u8	v7	v6
AU	Business Activity Statement (BAS) / Goods & Services Tax (GST) reporting	✓				
	Reporting workflow	✓				
	Change in data collection	✓				
CH	Import ISO 20022 bank files	✓	✓	✓	✓	✓
	Credit transfers (PAIN.001)	✓	✓	✓	✓	✓
	Direct debits (PAIN.003)	✓				
	Improvements of the Advanced bank statement Import for Switzerland	✓				
	VAT changes for 2018	✓	✓	✓	✓	✓
DE	DATEV compliancy export improvements	✓	✓	✓	✓	✓
	New VAT declaration forms for 2018	✓	✓	✓	✓	✓
	GoBD export modifications	✓	✓	✓	✓	✓
FR	A fiscal year is limited to 23 months	✓				
	Payment practices reporting (Law “LME”)	✓	✓	✓	✓	✓
	Penalties (fix amount) for delays of payments	✓				
	Tax on company cars - FAS2855-2017	✓	✓	✓	✓	✓
	Create an invoice in the non-closed previous month	✓				
PL	FIFO Bank Conversion	✓				
	Split payment	✓				
	Cash register					
PT	SAFT Improvements	✓	✓	✓	✓	✓
	Transportation note printing	✓	✓			✓
	Other improvements	✓				
UK	VAT box management	✓				
	VAT Form Management	✓	✓	✓	✓	✓
	Electronic submission to HMRC	✓	✓	✓	✓	✓
	Payment practices report	✓	✓	✓	✓	✓
US - CA	Support for AR Lockbox files	✓				
	Support ACH bank formats	✓				
ZA	Fixed Assets – Wear & tear Depreciation mode	✓	✓			

## 4.0 Finance

### 4.1 Electronic Signature (Sales invoice and/or Journal entry)

Enterprise Management leverages electronic signature mechanism to improve the safety of sales transactions and journal entries. It will not prevent against fraudulent changes, but will provide companies with the ability to more easily detect changes, whether via specific scripts or direct connection to the database.

Critical fields are concatenated, hashed and encrypted using highly secured algorithms based on public/private keys. The result is an unfalsifiable signature.

Electronic signature may be triggered on Sales and AR invoices, and/or Journal entries, at the posting/validation of these documents.

The following is the result of a free query extracting the content of the table storing the electronic signatures:

Entry L.	Document number	Date time	Electronic signature
1	FACLI FRO110101FACLI000002		RpqrnAe3+4bYVvrtX9D0nbnCzqaPQgeCqTivg13idwllCqH1c007U7UK99D1AP0w8PtN9FowCf8Fhe8e16G2N2Z70FQ8ndWEWgicb9Qfor
2	FACLI FRO110101FACLI000002		k2Z3c19Qq70wqEdL30010Y0D+38UJC82175F53ELgumFjLh3shhB9WEAGTDQYMaGbaY8a8W4C59pqbW6e+H8b+SSRQ2zsoQubP4K0
3	FACLI FRO110101FACLI000002		07+3Q8m2la2Vim6N16G8Rc771p0DT7amb0ngq371o3Jucp8H0kgMuz2TTFaq9k82Qg1p0qMM67Yf5VUQ8mDNLX01VCLdJ5p1TpgH5CKXNyc
4	PCF FRO110210FACLI000014	20181030170245	KXLU70T0nWQyMmCJuhCAqLS09hNuhvgb0/RuKaY7NWWZa80VXcvLq3FaqHmrvHu43v03H8W023fth8HLLJse80V4qT1W5uL9QdKcJnH8
5	PCF FRO110210FACLI000015	20181030170251	hd78eQ2emYg7a8+QpMmTzKzP8b9gJzR27e168H4bZL3ydtGYZ05W4uRPanvgN8kVJ7N35Pj3e8Juc57z2bTM2hWYCHXNH4b0hOqgkka
6	PCF FRO110210FACLI000016	20181030170254	lrmM-G5G2vV3228jvgrcuKZ7qnuqP2ZqHjL4axizcVh6mm0EV0g8TmXj+5N4eDz85K0kaGqf0V1sYwpvzH1H+58-HTs1p7X28Aq6bJzbdmDJBQE2NeV
7	PCF FRO110210FACLI000017	20181030170300	CdLy15WfzL8vLkK++3LkA94eLwZB9SEWwHv3LkH5hly552eM4Gj++pPqBjUgANZMRBAPuJ4085W4uJSTmPFQzbgQ9w8R1R0Rt8JUGQW
8	PCF FRO110210FACLI000019	20181030200437	K159d3++Y1UQV5QWQzTKR910cy87T7kxvW9Y9d3QZQm0TQntaoG8o375qHc8EP5GQ1a5fyE3HvN1ysVcLXp5cMkL3c3dG2XUMeIgwZ1mmtkyWpl
9	PCF FRO110210FACLI000020	20181030200550	qvdchV9QqJggeswmeNE0QVYHhupCmLgW9KvAMWMTK33u1EEYm3YEdhNUNJ8ngWQY6TAFpPujXtp359yqn7Au/en8PFY9ARPhGkevnL2HFr
10	PCF FRO110210FACLI000021	20181030200729	RjpphX0eF8Qf5C2V7VJXz+C33p70z1dwWKAe5ZTQe7LaaZNumshmp36etbMhM2parCQm3J8v34Vvdu5fpu4deBYKod8T8u+n89gM0y3zdWmF

Note: The electronic signature has been delivered to meet French requirements, and could be extended to meet the needs in other legislations.

### 4.2 Advanced bank statement imports

#### 4.2.1 Integration with the bank statement reconciliation process

This feature leverages the capabilities of the Advanced Bank Statement features to import new bank statement formats (MT940 and CAMT) in the bank reconciliation process.

- Standard: Importing, matching, and generating payments take place within the full bank statement import workflow.
- Reconciliation only: This option allows you to import bank statements in MT940 or CAMT format (as permitted by the Advanced Bank Statement feature) into the Bank statement reconciliation function.

#### 4.2.2 Option to disable postings to intermediate account

With this option, you can determine if you post to suspense or intermediate accounts for B and C type matches. If you select this option, B and C type matches receive the Manually completed

status when the bank statement is validated. Only payments for A type matches and manual journal entries are created.

This feature provides you with the capabilities of the advanced Bank Statement regarding automation of matching and posting, when avoiding generating un-reconciliated transactions in suspense accounts. You can then process the Bank reconciliation process.

#### 4.2.3 New bank statement formats

Enterprise Management v12 delivers new bank statement templates: BAI (International) and AFB (France). Also see AR LockBox.

Banks usually include specific rules in their files so that the standard delivery must be considered as templates may need to be adjusted depending on your context and the bank you work with. Ideally you get a ready-to-use flow, in any case, you will benefit from pre-settings that will accelerate the rollout of the solution.

#### 4.2.4 Other improvements

- Match open items from different business partners to a single bank statement import transaction and generate a payment for each business partner.
- New payment status: Partially validated and Manually closed payment. If at least one, but not all, payments for a transaction could be created (due to errors), the transaction is set to Partially validated.
- Manually close a transaction that was Not validated or Partially validated.
- If a transaction matches to more than one Pay-by/ Pay-to and Bill-to/Order Business Partner, the fields are empty.

#### 4.2.5 Enhanced journal traceability

In the context of segregation of duty and responsibility, auditors require tracking on where a transaction has originated, either from upstream module of Enterprise Management, through direct entry, manual entry, or through import/export process.

For this purpose, 2 additional fields are populated in journal entries, identifying the way the transaction was entered, manually, automatically, or imported.

- The source field indicates how the journal entry was created: direct entry, automatic, or imported.
- The source transaction field indicates the origin code for the transaction in conjunction with the Source field: automatic journal code, function code, import template, etc.

This information is displayed on demand in G/L & Journals standard reports and enquiries as well.

### 4.3 Lease management and IFRS 16

IFRS 16 rule enforces companies subjected to IFRS regulation to consider assets (Right of use) and liabilities (future payments up to the contract term) - for all leases unless the lease term is 12 months or less, or the underlying asset has a low value.

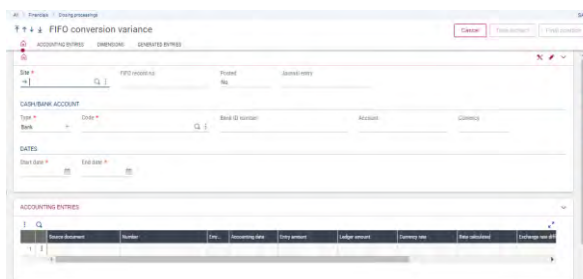
Designed for simple needs in term of lease

The screenshot displays the 'Lease contracts STD : Standard' form in the Enterprise Management software. The form is divided into several sections. At the top, there are tabs for 'MAIN', 'ALLOCATIONS', 'OPEN PAYABLES', 'FIXED ASSETS', 'VALUATIONS', and 'OTHER INFO'. The 'MAIN' tab is currently selected. Below the tabs, there are fields for 'Company' (E30), 'Functional site' (E30), and 'Description' (Lease type). There are also fields for 'Reference' (E301110/LEAS0001), 'Status' (In process), and 'Lease type' (Lease). The 'CHARACTERISTICS' section includes fields for 'Lease' (Lease type), 'Start date' (31/01/2015), 'End date' (31/12/2017), 'Source' (New contract), and 'Nature' (Fixed assets). The 'VALUATIONS' section includes a table with columns for 'Company currency', 'Euro', 'Contracted capital', 'Outback value', and 'Date'. The table shows values for 'Contracted capital' (4,500.00) and 'Outback value' (4,500.00).

management, Enterprise Management IFRS 16 functionality provides companies as lessee with the ability to record lease contracts and fixed assets attached to these contracts while automating the posting of events in the IFRS reporting ledger.

#### 4.4 FIFO rate conversion (Bank account / Pretty Cash)

A new feature enables users to reevaluate bank account and pretty cash records using first in, first out (FIFO) rate calculation. After reviewing the variances as proposed by the process, you can post them automatically.



#### 4.5 Performance improvements

##### 4.5.1 Dimensional allocation

The dimensional allocation has been enhanced to allow you to either run in simulation mode, or in execution mode.

##### 4.5.2 Payment proposal

It is now faster to process payment proposals when early/late charges are not associated with open items.

##### 4.5.3 Fixed assets - Depreciation schedule situation

Performance improvements for the report (DEPSITU) when running in a multi-language environment.

##### 4.5.4 Analytical balance inquiry and Excel export

Performance improvements have been made when running the Analytical Balance inquiry and when exporting to Excel.

##### 4.5.5 Fixed Assets - Capitalization of assets

The process of capitalization of assets has been improved.

#### 4.6 Other features

##### 4.6.1 Reports

- Customer statement report (CUSSTA) provides a list of open items for a customer at any point in time aging the opening items based on the Items until date entered. A summary of aged open item balances displays on the last page of the report.
- Cash requirements report (CSHREQ) generates a list of outstanding supplier open items sorted by the open item due date. Open items are printed in the company currency.
- Supplier invoice and payment report (SPAYHIS) generates a history of supplier invoices and applied payments. You can filter the invoice list to include all invoices, open or unpaid invoices, or invoices with applied payments only.
- Carry forward BP justification report enhancement report (DETNPDP) provides a list of entries related to one ledger justifying the balance at the end of the year. The selection currency report parameter allows you to enter a specific currency so that only entries in that currency are included in the report. If the parameter is blank, all entries for the ledger are printed in the ledger currency.

- GL account journal reports - The mono legislation NA-GLBAL - GL Detail Account Balance report has been deprecated. Depending on your report output requirements, use one of the following core reports that provide the same information: GLGRP - GL Account Journal Details (groups by account); GLGRPDEV - General ledger/currency (groups by account and currency); GLANA1 - Analytical Ledger by Nature (groups by account for each dimension type/dimension); GLANA2 - Analytical Ledger by Dimension (groups by dimension type/dimension for each account)
- General balance reports BALGRP - General balance and BALGRPDEV - General balance/currency reports, new report parameters have been added to include the dimension balances by general ledger account. Use these parameters to print balances for all dimension groups by account or refine the results by entering a dimension type and dimension value. This feature replaces and deprecates the North American NA-TRLBAL Trial balance report.
- Customer BP invoice BPCINV2 - Customer BP invoice report includes new address formatting report parameters controlled by country code.
- Aged balance reports BALAGEGRP - Aged transaction balance (ATB) and BALAGEGRPDEV - Aged balance/currency reports include the Age invoices by parameter, which allows you to age invoices by Invoice date or Invoice due date. This feature replaces and deprecates the North American NA-BPATB Aged Trial Balance report.

#### 4.6.2 Currency variance calculations when partial matching

To align with best practice in the case of partial matching, it is now possible to decide not to calculate and not post intermediate conversion variances. The former process is still available for compatibility reasons. Note this feature has been backported to former versions as it simplifies the rules, stops complex discussions and explanations about the way currency conversion variances are calculated in case of partial matching, and is more efficient.

#### 4.6.3 Open item management (MODECHE)

New sorting criteria are available in the open item management function:

- Invoice no
- BP name

#### 4.6.4 Import currency rates for AP/AR accounting invoices

It is now possible to manage the currency rates (multiplier/divider) to be applied in AP/AR invoices import templates. This feature will ease the integration of the AP/AR invoices with upstream applications through interfaces, when reducing the risk of variances is just due to the conversion rates.

#### 4.6.5 Currency rates on payments

You can now enter straight a currency rate linked to the main ledger, as an option to using the rate in the rate currency table. This option can be enabled/disabled in the payment entry transactions.

The screenshot shows the 'Payment entry type' configuration window in SAGE software. The window has a title bar with 'SAGE' and a dropdown arrow. Below the title bar, there are tabs for 'GENERAL', 'ENTRY', 'STEPS', and 'TREASURY'. The 'ENTRY' tab is selected. The main area contains a list of settings, each with a checkbox and a 'Mandatory' checkbox. The 'Bank amount' checkbox is highlighted with a red rectangle. The 'Main ledger currency rate' checkbox is also checked. The 'Number of fixed columns' is set to 3. The 'TABS' section at the bottom has a checkbox for 'Entry batch'.

#### **4.6.6 Check management improvements**

Improvements related to check management, including sequence jumps in the check letters.

#### **4.6.7 Fixed asset - Automatic posting of site transfers**

A new automatic journal is defined to post the transfer of fixed assets between two financial sites of a company. The automatic journal requires the definition of reciprocal accounts for all ledgers associated with the company.

Note that the automation is currently limited to the amounts posted and stored at the level of the depreciation records. Additional amounts potentially posted through specific actions (disposal, impairment, revaluation, ...) still need to be posted manually.

#### **4.6.8 Fixed Assets - Ability to duplicate physical assets and locations**

It is now possible to duplicate physical assets and locations.



#### 4.7 Summary: Delivery and versioning

Feature	Backport (Same feature or equivalent)				
	v11	u9	u8	v7	v6
Electronic Signature (Customer invoice and/or Journal entry)	✓	✓	✓	✓	✓
Advanced bank statement - Integration with the bank statement reconciliation process	✓				
Advanced bank statement - Option to disable postings to intermediate account	✓				
Advanced bank statement - New bank statement formats	✓				
Advanced bank statement - Other improvements	✓				
Enhanced journal traceability					
Lease management and IFRS 16	✓				
Currency variance calculations when partial matching	✓	✓	✓	✓	✓
Open item management					
Import currency rates for A/P-A/AR accounting invoices					
Currency rates on payments	✓				
Check management improvements	✓				
Fixed asset - Automatic posting of site transfers	✓				
Fixed asset – Duplication of physical assets & locations	✓	✓	✓	✓	✓
Performance improvement – Dimensional allocation	✓	✓	✓	✓	✓
Performance improvement – Payment proposal	✓	✓			
Performance improvement – Fixed Assets - Capitalization of assets	✓	✓			
Performance improvement – Fixed assets - Depreciation schedule situation	✓				
Performance improvement – Analytical balance inquiry and Excel export	✓				

## 5.0 Distribution

### 5.1 Licence Plate Number

*Note: a How To Guide with detailed explanation of the Licence Plate Number available on the Online Help Centre.*

Licence Plate Number (LPN) management adds the ability to track containers/logistic units (e.g. pallets, drums, boxes ...) across the whole distribution processes.

License plate numbers allow you to:

- Identify internal containers
- Gather products in these internal containers,
- Fully handle these internal containers.

A unique 'license plate' number is attached to each container, in the form of a label with a bar code.

From stock receipt to product dispatch, including all internal stock movements, it is now possible to link products to the unique license plate number and get an accurate traceability of their life in the warehouse.

#### 5.1.1 Management of containers

Each container/Licence Plate Number can be identified as a single record, with type, unique number and additional attributes.

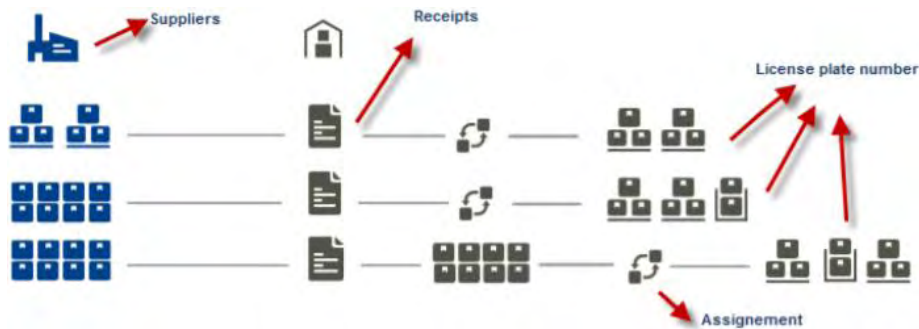
The LPN records allow easy access to information related to that logistic unit including content, use dates, as well as stock transactions related to that LPN.

its

#### 5.1.2 Inbound stock movements

Licence Plate Numbers (LPN) can be managed from the inbound stock movements of the logistic processes (e.g purchase receipt). The solution gives the flexibility to define the starting point of the use of the LPN:

- Products can be received first on a dock location, then assigned to the LPN,
- Or products can be assigned to the LPN during the receipt process itself.



Rules can be defined for each container or group of containers to control how product will be stored on each LPN.

### 5.1.3 Import template for stock change by LPN (SCSL)

- Use the import template to import stock change by License Plate Number: import location change and/ or status change for an entire LPN, that is all stock lines assigned to this LPN.

## 5.2 Compliance

### 5.2.1 Generic framework for Intrastat declaration (Europe)

- Using the EDI capability to generate the XML file, a new Intrastat EDI category is available to build the setup for Intrastat European declaration.
- The XML mapping required by French Customs is available. Because it is a European standard declaration, the Intrastat delivered setup can be use for other European countries.

### 5.2.2 Intrastat declaration

- Use the DEBNB - Number of lines activity code to define the maximum lines for sales or a purchase documents included in the Intrastat extraction.
- You can include documents with more than one thousand (1000) lines.

### 5.2.3 France (FRA)

- Legal notice on Sales invoice reports: The Site tax ID no. associated with the bill-to-business partner is displayed on the sales invoice with the bill-to-customer address if the country setup allows it. On all the sales invoices reports, the customer Site tax ID no. is printed on the header. It's also the case for the Site Tax ID no. coming from the sales site.

### 5.2.4 Sage Sales Tax (SST)

- Sales invoice tax summary: For a sales invoices created using a Sage Sales Tax (SST) company/site, the tax summary section prints the tax information displayed in Sage Sales Tax window, not the information displayed on the invoice valuation grid.
- Tax information displayed in the Sage Sales Tax window is refreshed upon invoice creation or save.
- When using Sage Sales Tax, a credit memo not linked to an invoice can be created successfully without generating an error message.
- Sage Sales Tax (SST): Ability to manually set Entity Use Code at document level for non-SST countries.

### 5.2.5 Support for Registered Export System (REX) identification for export outside the European Union

- The rules on origin of the Generalized System of Preferences (GSP) scheme have been enhanced. To issue certificates of proof of origin, operators will, in certain cases, need to obtain the status of the registered exporter (EE) and an identification number known as a 'REX' (Registered Exporter System) number.
- The REX activity code must be activated to use this functionality;
- The REX number can be entered on the site or company record;
- The REX number is printed on invoices and delivery reports if the company issuing the document is in the European Union and the delivery customer's country is in the Generalized System of Preferences (and vice versa).

### **5.3 Sales Processes**

#### **5.3.1 Project dimension automatic update on sales documents**

- When the project code is updated on a sales document, the analytical dimension assigned for Project management is updated with the project dimension according to the default dimension code setup.
- This is the case when the project code is updated on the header document or when the project code is updated on the document lines.

#### **5.3.2 Not invoiceable deliveries**

- Manage direct deliveries (deliveries not associated with a sales order)
- Manage returns of direct deliveries
- Not invoiceable deliveries management is available in Project management and other modules in which transfers are performed.

#### **5.3.3 Scheduled invoice generation**

- A Memo button allows criteria to be saved and recalled as required.
- Scheduled invoice generation can be launched using a new batch task - FUNAUTINVSCH.
- The standard sales order category not totally invoiced can be selected with the direct invoices sales order category from the Sales invoices function ('Selection criteria' action). Standard sales orders with scheduled invoices to invoice can therefore be selected. Note, however, that when a sales order has been selected for an invoice, additional sales orders must have the same category.
- In the Scheduled invoice generation function the sales order criteria is limited to the normal sales order category not totally invoiced corresponding to the sales site.

### **5.4 Purchasing Processes**

#### **5.4.1 Product/Site/Supplier**

The management of default supplier and default back-to-back supplier in the "Common Data" has been enhanced.

- In the Product function, this information is visually represented in a grid. In the grid additional checkboxes have been added to clearly show which supplier is default and which back-to-back supplier is default.

The default supplier is calculated based on the following criteria:

- Priority

- Blocking

If the above criteria are the same, then the default supplier is chosen based on alphabetical order, considering the supplier code (BPSNUM) field.

The default back-to-back supplier is calculated based on the same criteria as above. Back-to-back supplier needs to have, "back-to-back order" flag checked in order to be considered for default back-to-back supplier.

- In the Product-Site function, the same type of information has been added on a new Suppliers tab. To define supplier on Product-Site level (GESITF function), first the supplier needs to be assigned to Product (GESITP function).

For the new supplier on Product-Site level, the following values are considered as default from Product while adding new supplier to the grid:

- Priority
- Blocking
- Back-to-back order.

These attributes can be changed afterwards, once the supplier is assigned on Product-Site level, in order to manage local rules specific to each site.

## 5.4.2 Project dimension automatic update on purchase documents

When the project code is updated on a purchase document, the analytical dimension dedicated to Project management is updated with the project dimension according to the default dimension code setup.

This applies when the project code is updated on the header document or when the project code is updated on the document lines.

## 5.5 Stock and Logistics Processes

### 5.5.1 Transfer notes report (BONTRF)

Two new reports are available:

- Internal Stock change. This report displays internal transfers – Stock change transactions. Details include the origin and destination location, and warehouse.
- External transfer notes. This report displays external transfers – Intersite transfers, Subcontract transfers and Subcontract returns.

## 5.6 CRM Processes

### 5.6.1 Project Import/Export model

The import/export model used for CRM projects has been modified to match with the new data structure. A new model is now available – OPPCRM. This model is based on the screens and classes. The previous model (OPP) is now obsolete.

## **5.7 EDI**

### **5.7.1 XML generation**

- Generate XML files with FACTURAE format
- Assign signature authorization by company / user
- Define BP / EDI partner as Public entity with four different roles
- Define EDI flow setup with signature format
- Sign XML generated file with XAdES norm
- Receive XML files
- EDI cache synchronization link in EDI Setup Query saves all EDI settings
- Save the EDI setup in the EDI Setup query function (EDIQRY) using the EDI cache synchronization action

### **5.7.2 Improvements to CRUD method creation**

- Use the new Sales delivery notification category to receive EDI messages in the CRUD method.
- A Delivery notifications action in Delivery management displays all existing notifications created for a delivery.
- For EDICOM, four operating sites have been added to the EDI partner/BP: Order-to, Bill-to, Ship-to and Pay-by.

## **5.8 Miscellaneous changes**

### **5.8.1 Sales Processes**

- Option on Manual Hold to generate back-to-back orders.
  - A new control in the Manual order hold reason code miscellaneous table 204 can allow or block back-to-back order generation for a sales order placed on order hold.
- Stock availability on Sales Order line
  - On a sales order line, the stock availability and/or the first available date for the goods is displayed below the document lines grid.
  - The sales entry transaction determines if this information is displayed and if you access the order quantity field or the quantity to allocate field.
- Performance on posting deliveries
  - Performance on the mass deliveries posting process has been increased.
- Sales order line status inquiry
  - The 'Quantity to invoice' is no longer displayed for delivered products. This information is only available for non-deliverable products.
- Sales orders import - Performance enhancements

- It is possible to import a larger number of sales orders or orders with a large number of lines in a very short period of time. As a result, it is possible to integrate with third party solutions by processing a significant volume of sales orders.
- Stock availability on Sales Order line
  - On a sales order line, the stock availability and/or the first available date for the goods is displayed below the document lines grid.
  - The sales entry transaction determines if this information is displayed and if you access the order quantity field or the quantity to allocate field.

### **5.8.2 Purchasing Processes**

- Destination location available on inter-site's reception
  - When performing an inter-site receipt, the destination location is accessible directly on the document's line in addition to the Enter detailed quantities window.
- Price recalculation following an update to a Project code
  - A price recalculation can be performed on all order lines when a Project code is updated on the purchase order header information or on a purchase request. This recalculates prices linked to the new project code.

### **5.8.3 Stock and Logistics Processes**

- Landed cost functions
  - On Shipment: new Shipped status, update of the picking criteria and columns on shipment lines, update of the shipment selection panel, shipment line status option.
  - On Shipment pre-receipt: update of the shipment list in the Selection panel.
  - On shipment/transport inquiries: review of the selection criteria and update of the shipment line columns.
  - On purchase documents: definition of the service expected for each service product.
- Easy access to inquiries from Product-sites (GESITF)
  - On the Stock tab in Product-sites, use the magnifying glass icon next to the In-transit stock and Transferred stock fields to directly access the related inquiry functions. These inquiries include customer returns from deliveries.
- Stock receipt valuation with multiple documents
  - Goods imported from foreign countries are frequently received after the invoice and it is necessary to take into account all the purchase documents included in the stock receipt valuation. This applies to invoices, additional invoices, and credit notes. The stock receipt valuation is now the same regardless of when the purchase documents are registered, before or after receiving the goods. In all the situations, the differences are applied to stock valuation with adjustments.
- Costing
  - Valuation method in Product-sites (GESITF) - For Product-site stock that is Stock managed or Potency managed, defining the valuation method is required.
  - Standard cost/Revised standard cost restriction (GESICD, GESICA) - A standard cost record cannot be modified or deleted if there are movements on the product-site.
- Storage sites selection



- When using the Look up tool to select a Stock site, only storage sites display in the selection window.

#### **5.8.4 Miscellaneous changes**

- ADC Additional inquiries
  - Two new ADC inquiries have been added to the ADC Inquiries menu - PO inquiry and Receiving inquiry. Both inquiries are designed for mobile devices to view by product or UPC the open purchase order lines with the ability to launch and enter receipts.

#### **Direct signatures from mobiles**

- Signatures from mobile apps and web pages are now applied directly. The batch server is no longer used for these signatures.
- Signatures direct from emails continue to be managed with the batch server.

## 6.0 Manufacturing

### 6.1 Non-Conformance

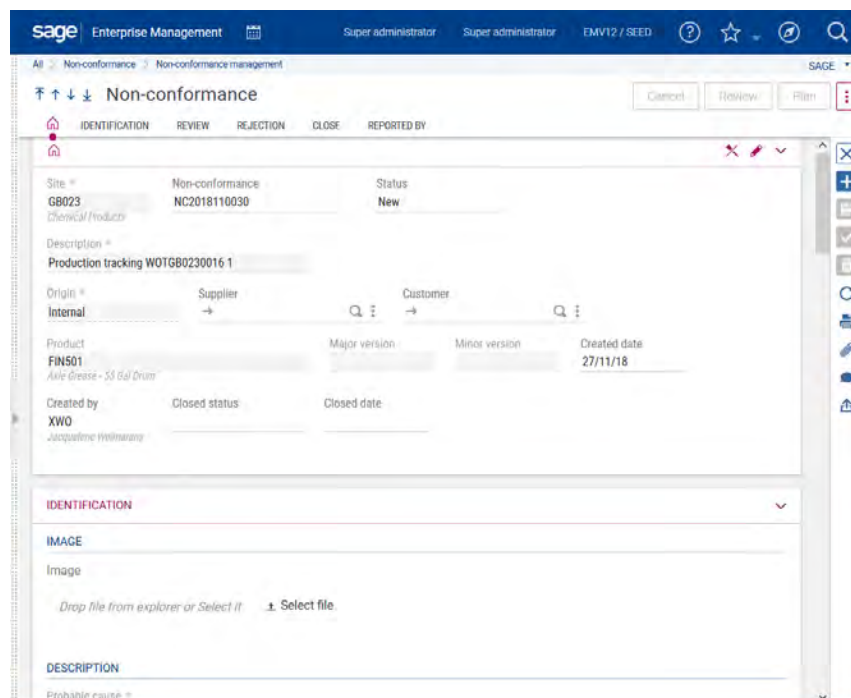
The new function Non-Conformance enhances the quality process in Sage Enterprise Management. Non-Conformance is a “must have” functionality to satisfy compliance requirements for manufacturing and distribution organizations.

A non-conformance means that something went wrong in a service, a product, a process, from a customer, supplier, or in the system itself. A problem has occurred and needs to be addressed. Non-conformances are addressed with corrective or preventives actions. A non-conformance could be identified through customer complaints, internal audits, external audits, incoming material inspection or simply during normal testing during de production.

Steps of a Non-Conformance

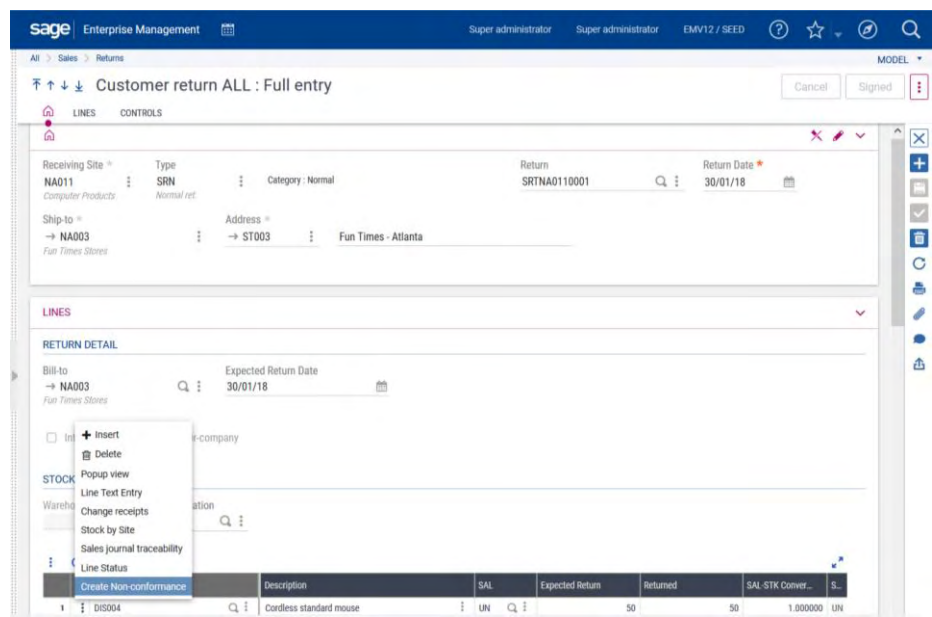
#### 6.1.1 Non-conformance Creation

- The Non-conformance (NC) can be created directly (product and no product)
- The Non-conformance can also be triggered from a document (for example: Return, Purchase receipt, External Order Receipt, Production Tracking, Quality Control) document header or line
- When triggered from a document the fields will be automatically preloaded with the document link, product, and default values
- The origin (trigger) document can be opened/viewed by clicking on the link in the NC
- Status management (New, in progress, Plan, Implement, Complete, Closed)

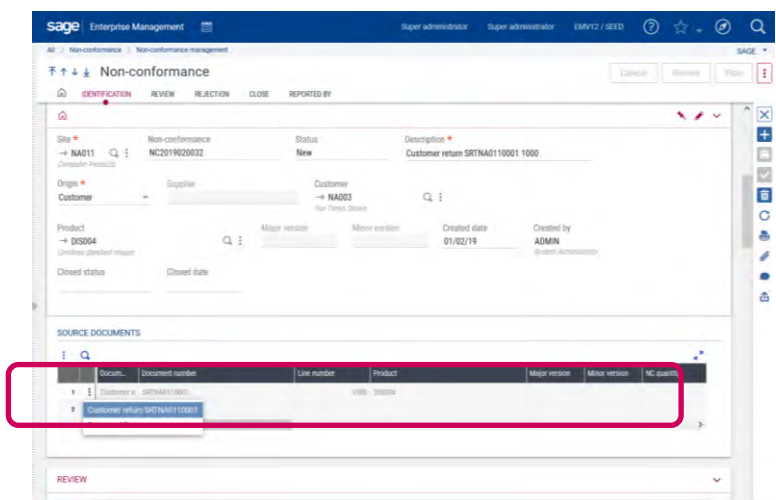


From a document the Non-conformance can

be link from the header or from the line

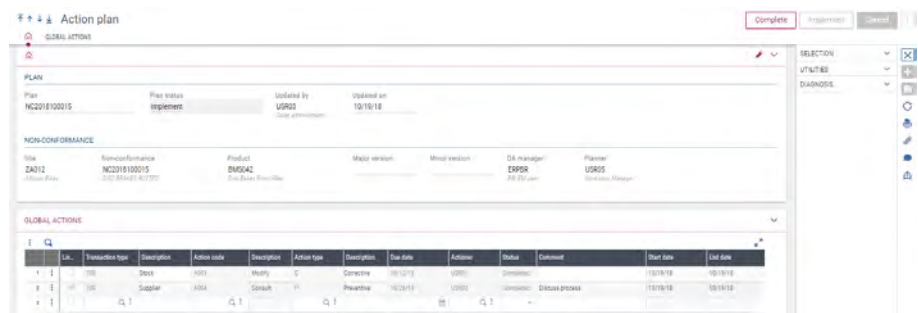


The user can view/amend the document line quantity and select the lot and serial numbers (when available): Select 'Document line' from the Source document line action menu.

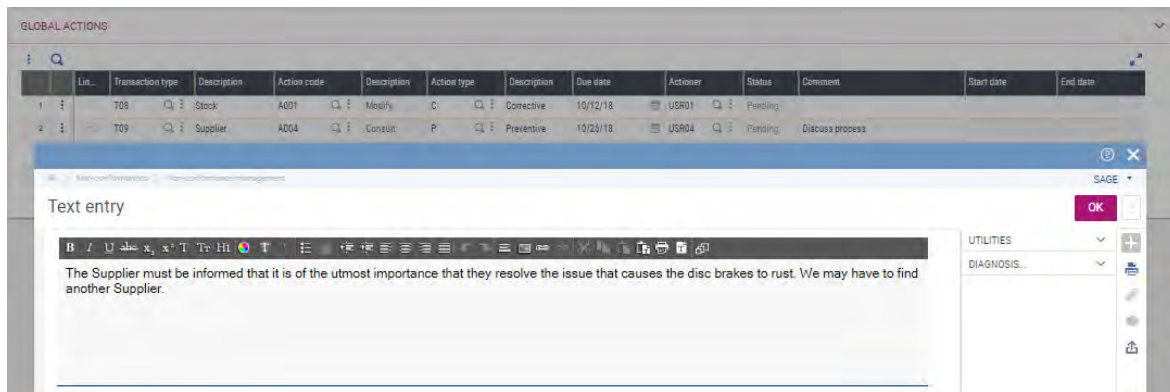


### 6.1.2 Action Plan

Action plan preventive or corrective actions is created from the Non-Conformance. The Planner will add corrective and/or preventive actions and assign actioners and 'due dates' Work in progress of the action plan. Management of priority and deadline monitoring.



Ability to add additional description



### 6.1.3 Non-conformance review

Reports are provided allowing analysis of Non-Conformance

Parameter title	First value	Final value
Request type	Product	
Date created	9/19/18	
Date closed	9/19/18	
Site	FR011	FR011
Customer		
Supplier		
Product		
Major version		
Status		
Root cause		
Probable cause		
Reason		
Severity		
Change impact		
QA manager		
Planner		

List of non-conformances										9/20/18
Site: FR011 Comptech SA Business partner:										
Non-conformance	Status	Origin	Product	Major version	Quantity	Created on	Created by	Closed state	Closed on	
NC201807131010	New	Internal	PRO001 Ice skater bags	A	60	9/20/18	CB			
Root cause: R13(Manufacturing/assembly process) Probable cause: P03(Transport issue) Reason: R01(Nonfulfillment of agreement)										
Severity: Major Change impact: Major Required date: 10/10/2018 Planner: JAWOL QA manager: CB										
NC201807131012	In progress	Internal	PRO001 Ice skater bags	B	1000	9/20/18	JAWOL			
Root cause: R13(Manufacturing/assembly process) Probable cause: P03(Transport issue) Reason: R01(Nonfulfillment of agreement)										
Severity: Major Change impact: Major Required date: 10/10/2018 Planner: JAWOL QA manager: CB										
NC201807131013	Closed	Internal	PRO001 Ice skater bags	B	100	8/20/18	JAWOL	Completed	9/15/18	
Root cause: R13(Manufacturing/assembly process) Probable cause: P03(Transport issue) Reason: R01(Nonfulfillment of agreement)										
Severity: Major Change impact: Major Required date: 10/10/2018 Planner: JAWOL QA manager: CB										
Number of non-conformances: 3										

## 6.2 Production Scheduler improvements

Following on from the initial launch as part of Enterprise Management version 11 the integration of Production Scheduler has been enhanced to help manufacturing companies streamline scheduling and optimize production.

### 6.2.1 Row material availability

For each component of a WO the First Date of Material Availability calculates the first date when the required quantity will be available and transfers this information to the Production Scheduler which can then use the FDMA as a new constraint in the optimization of the operations.

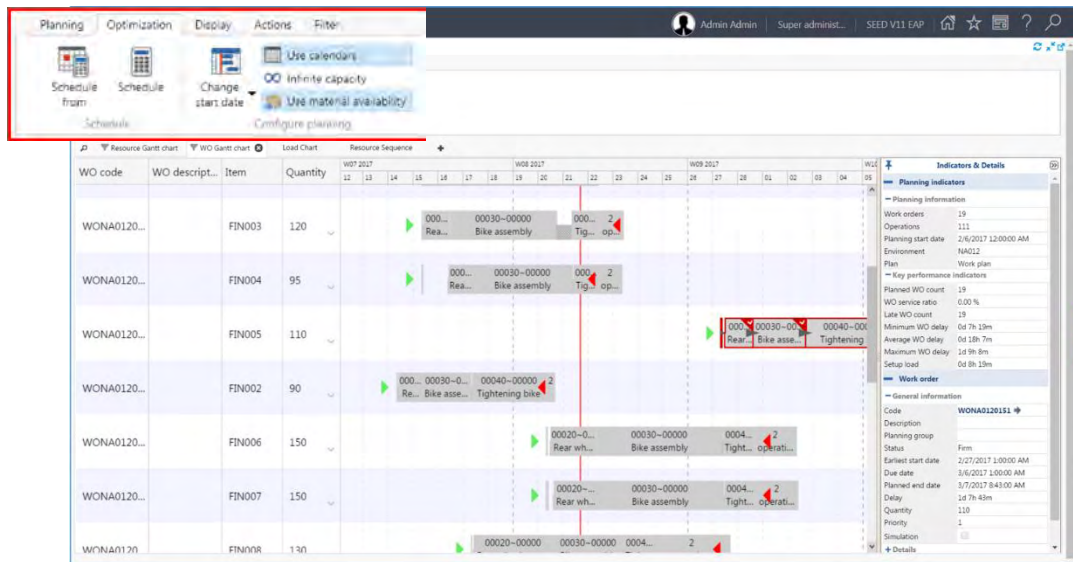
In the Work Order Management "Component" tab for every component the First Date of Material Availability is displayed in the new field "First availability".

The "requirement date" indicates, when the material is required. Either at the Work Order start (with start of the first operation) or, when linked to an operation, then at start of the specific operation. "First availability" indicates, when the material will first time be available in needed quantity.

Component	Des...	Requirement qty.	Requirement date	First availability
-----------	--------	------------------	------------------	--------------------

On the "Operation" tab for every operation the FDMA is displayed in the new field "Earliest start".

No.	Line status	Work center	Earliest start	Start	End
-----	-------------	-------------	----------------	-------	-----

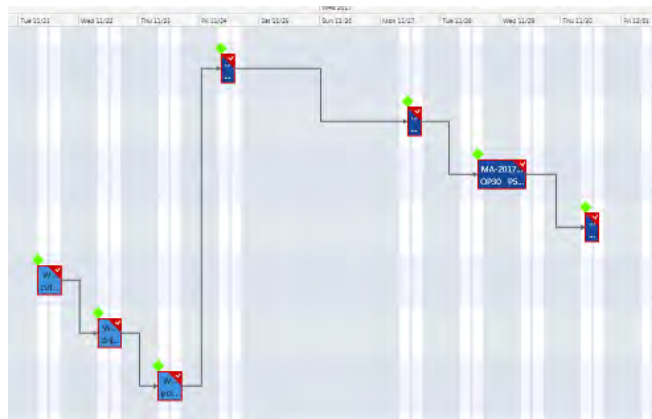


## 6.2.2 Link between Work Order

The planning of Work Order for final products and semi-finished products optimizes the start operation (or the operation requiring the semi-finished product) of the production of the final product with the production of the first shipping of semi-finished products.

View in Production Scheduler on which Work Order are linked together.

The link of operations from the Child Work Order. The link of operations from the Parent Work Order. The link of last operation from Child Work Order to first Operation of Parent Work Order.

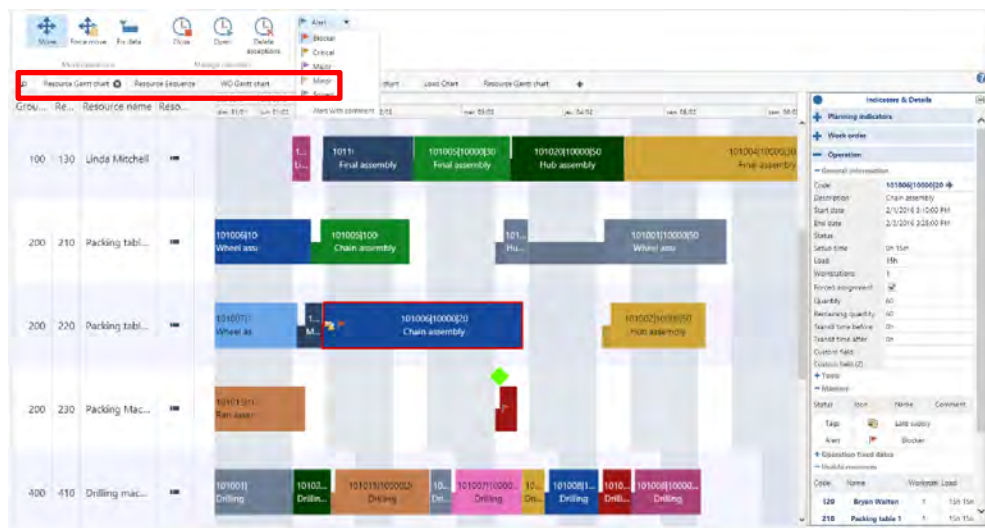


Custom fields allow the display to be tailored according to new criteria such product category, sales order. Users can now determine which fields from the Work Order released product and which fields from a Work Order's operation are used for the Production Scheduler custom fields.



New behavior has been introduced to provide additional flexibility when using Production Scheduler for detailed scheduling, for example to manage the cooling of a material during the break time of a machine. With Enterprise Management you can now use the Production Scheduler for the detailed scheduling of the waiting time. A neutral 24 hours calendar can be used, instead of the resource calendar, because the waiting time is not affected by the availability / non-availability (breaks) of a resource.

When using Production Scheduler for detailed scheduling, both the waiting and the post-operation time are submitted to Production Scheduler, both are considered in the scheduling and both are transferred in the “Publish” from Production Scheduler back to Sage EM.





### 6.2.5 Option to fix operation start date in Production Scheduler

In Work order management the start date of an operation can be fixed by setting the “Forced start” date in the Operations tab.

When a Work order is submitted to Production Scheduler the forced start date will be fixed and automatically pinned in Production Scheduler to block the start date of this operation.

The fixed date is managed directly in Production Scheduler:

## 6.3 Versioning enhancements

### 6.3.1 Mass replacement and deletion in Versioning

Existing BOM and routing mass replacements and deletion process have been enhanced to take into account version numbers.

### 6.3.2 Critical changes (add, update, remove) in versioning

A “super-user” or a “permitted user”, can now make critical changes (add, update, remove) to operations or component of a Work order where both the product and the routing are versioned. To ensure traceability of critical changes the user can view the changes by selecting a new Revision history action

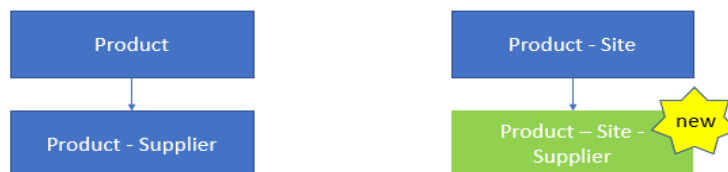
### 6.3.3 Routing Import/Export with Version

The Routing import template includes fields related to versions such as Major version and Minor version

## 6.4 Product-Site-Supplier in Manufacturing

In the manufacturing module, users can now define suppliers and default-supplier on Product-site level, this functionality is available in several functions including:

- The MRP process, when creating Purchase order/ Subcontract order suggestions
- In Enterprise planning and Planning workbench, when amending the suggestions and transforming them to firm orders
- Grouping
- Statistical reordering
- Multi-Level-Planning



## 6.5 Weighing Scale improvements

### 6.5.1 Double login/Pass word entry

Security and traceability during the weighing process has been enhanced by providing the option to prompt for the users login and password at the beginning or at the end of each weighing. For traceability the user code is included in the weighing transaction and the Weighing operator user code can be viewed in Weighing Situation history.



## 6.5.2 Weighing module Container management

A container can now be flagged as a master container. A master container is a recipient of many materials for large weight or to accumulate several partial weighing operations with small containers. A new activity code MWC activates Container management which is linked to the MWM Weighing module activity code.

A new action Weighing container situation is added to the Weighing situation to view the weigh status by master container. A new "by container" selection has been added to the RECONCIL parameter, allowing reconciliation to be performed by master container.

Use the new action "Weighing container situation" to view the work order's weighing status by Master container.

Component sequence number control provides the ability to control the sequence in which components are weighed. The Master container, Description, Container capacity, Container weight unit fields have been added to the Production BOM Component lines

Pick list code	Container	Description	Container ca...	C...	Setup level
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component weighed at station	TANIX01	Mobile tank	12500.000	KG	SHI record
Component not weighed at station			0.000		

## Master container displayed in Weighing

WO no.	WOFR0220016	Operation	10
Component	RAW430	Lubricant	
Lot	L150012	Sub-lot	00001
Master container	TANIX01		5.0000
Loc	ST02A	ST02A	
Container	PD-CONT	PD container	
Scales	PD-SCALE1	PD-SCALE 1	
Tare weight	0	KG	
Remaining to weigh	0.05	KG	
Total weight target	0.05	KG	
Total weight	0	KG	

## 7.0 Project Management

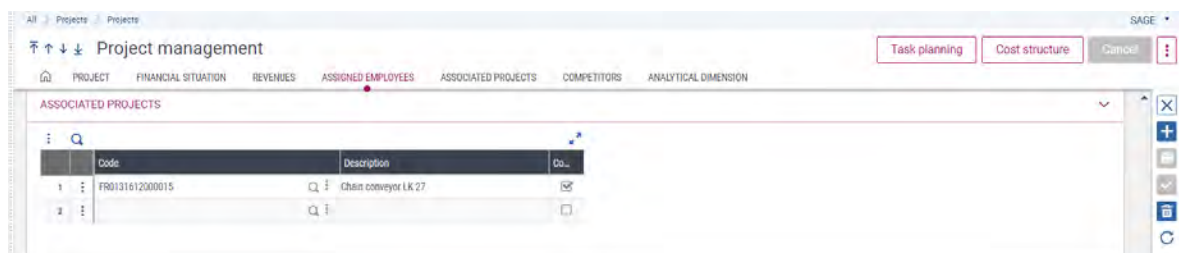
### 7.1 Financial overview

#### 7.1.1 Multi-project consolidation

Multi-project consolidation is now available on financial overview

- On the expense detail screen, a new Clear filter action displays all documents, regardless of the expense category selected in the category grid.
- Associated projects follow-up can be activated using a new Associated projects criterion.

#### 7.1.2



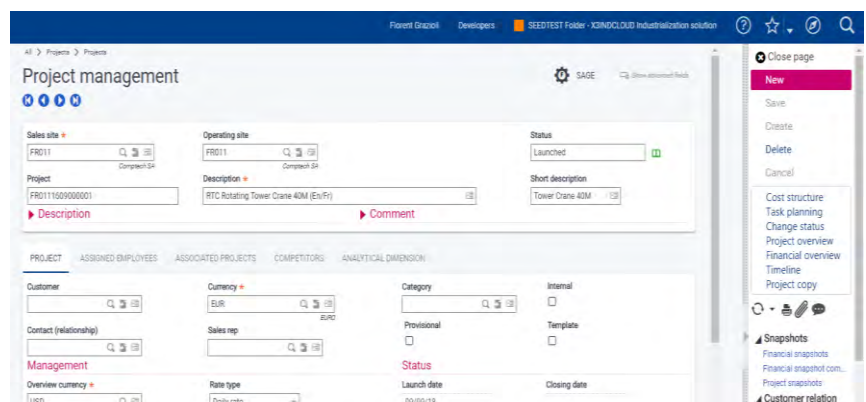
	Budget Amount	Committed	Actual	Left to commit	Budget remaining	Personal cost price	Margin cost	% cost
Project costs	41,389.75	5,744.76	2,854.74	33,641.27	52,771.31	42,280.33	-884.99	-2.15
NAT13161200015 Special conveyor AK 30.4	21,240.30	5,744.76	2,854.74	13,520.82	12,636.86	22,140.26	-684.96	-4.19
001 Project management	1,707.84		1,275.03	488.21	488.21	1,707.84		
002 Research & design	2,308.46	1,089.18	1,260.03	875.99	-75.13	2,709.55	-401.08	-19.34
003 Manufacturing	12,349.60	4,614.14	281.28	7,832.25	7,293.36	12,788.42	-438.82	-3.55
004 Logistics	4,024.40			4,024.40	4,024.40			
005 Misc.	289.30			289.30	289.30	289.30		
FR013161200015 Chain conveyor LK 27	20,149.45			20,149.45	20,149.45	20,149.45		
001 Project management	1,635.20			1,635.20	1,635.20	1,635.20		
002 Research & design	2,193.25			2,193.25	2,193.25	2,193.25		
003 Manufacturing	11,867.50			11,867.50	11,867.50	11,867.50		
004 Logistics	4,472.50			4,472.50	4,472.50	4,472.50		
005 Misc.	289.30			289.30	289.30	289.30		

cial  
snapshot

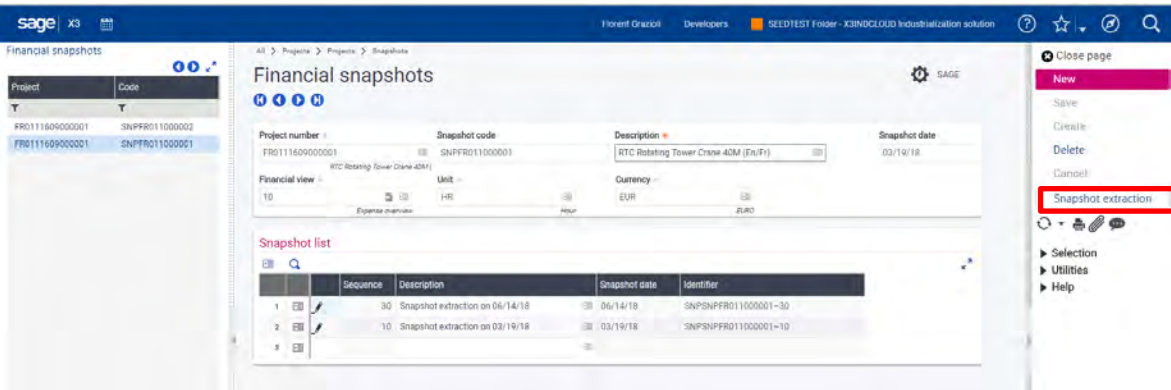
and comparison

The Financial Snapshot process facilitates the pre-requisite requirements that will ultimately let you compare different snapshots of a given project at various points in time so you can evaluate project trends and performance.

- Extracting Snapshots for Registered Project

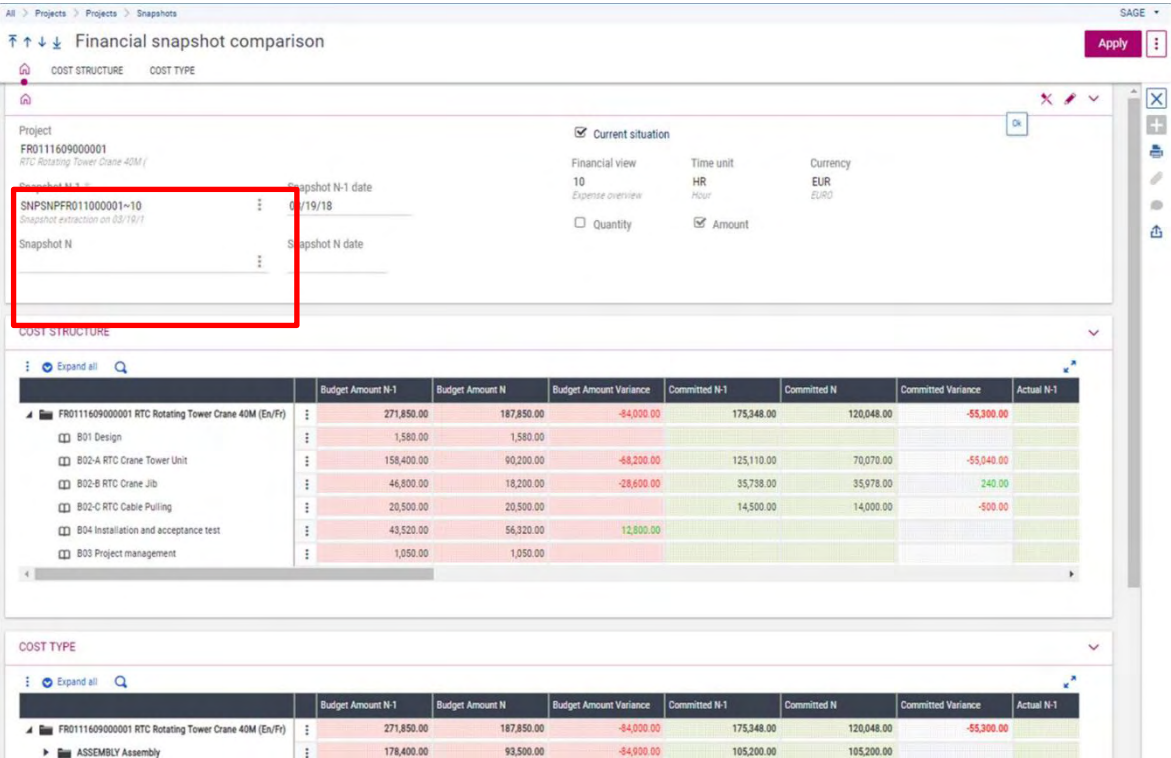


“Snapshot List” displays snapshots already extracted. Each snapshot has a uniquely assigned snapshot detail identifier.



Financial snapshot provides comparative analysis for a given project showing the projects operational and financial trends over time. For the selected snapshots Cost Structures and Cost Types are displayed for a given project, customized data display, flexible comparative selection, Entire project or specific cost structures

Each column of a Financial view is compared over the period and the variance is displayed to ease the trend analysis.





## 7.2 Project overview

PJM offers the ability to display all information for a project through a new global tree view of tasks and budgets assignments.

- Product availability dates have been added.
- All contextual actions including change status actions, budget updates actions, are now available for every entity.
- Alerts on delays and quantities are now displayed using color indicators and new flags in the criteria section.
- Display alerts on closed elements flag provides traceability for all alerts, including obsolete alerts.

The screenshot shows the 'Project overview' window. It includes a 'SELECTION' section with fields for Project (NA0131701000027), Time unit (HR), and Currency (USD). Below this is the 'ADDITIONAL CRITERIA' section with dropdowns for Budget status (All budgets), Task type (All types), Task status (All tasks), and Task category. To the right, there are checkboxes for 'Budgets', 'Budget lines', 'Tasks', 'Operations', 'Assignments', 'Products', and 'Product availability'. A checkbox for 'Display alerts on closed elements' is also present. Below these are date range filters: 'From task progress' to 'To task progress' (both 0.00), 'From task due date' to 'To task due date', and 'Task start date' to 'Task end date'.

The screenshot shows a hierarchical tree view of project elements. Red arrows point from a legend box to specific elements in the tree. The legend box contains the following items:

- Budget code and sub budget code
- Budget line
- Task and sub task
- Task operation
- Task product
- Operation assignment

The tree view shows the following structure:

- NA0131701000027 Chain conveyor NA 89
  - B01 Project management
    - Budget lines
      - 30 - Time of Manager
      - 40 - Time of Engineer
    - Tasks
      - PH06 - Project management
        - Operations
          - 20 - Project management
            - Assignments
              - PJRG4 - Project management
      - PH01 - Project Launch
        - TS01-01 Contract review and validation
          - Operations
            - 30 - Contract review and validation
              - Assignments
                - PJRG4 - Contract review and validation
                - 40 - Contract review and validation
                  - Assignments
                    - PJHLE - Order validation
                    - PJRG4 - Contract review and validation
          - TS01-02 Project scheduling
            - Operations
              - 20 - Project scheduling
                - Assignments
                  - PJRG4 - Project scheduling and task assignment

## 7.3 Task planning improvements (WBS Work Breakdown Structure)

### 7.3.1 Stock allocations on project tasks

Stock allocations are now possible for project demands (MTF). Stock allocations can be made either as a:

- Manual allocation process
- Automatic process based on the Assignment rules defined on the products.

A new action "**Manual allocation**" is available in the task product grid

## Task planning

H I P N

| Expand all                                     | Q |  | Status   | Start date | End date |
|--|---|--|----------|------------|----------|
| FR0111609000001 RTC Rotating Tower Crane 40M ( |   |  | Closed   | 10/03/18   | 10/14/18 |
| T1000 Design                                   |   |  | Closed   | 10/03/18   | 10/14/18 |
| T10101A RTC Crane Tower Unit                   |   |  | Launched | 10/17/18   | 12/05/18 |
| T10101 RTC Crane Tower Unit 40M                |   |  | Launched | 12/04/18   | 12/05/18 |
| T10102 RTC Lattice Mast Element                |   |  | Launched | 10/17/18   | 10/28/18 |
| T10103 RTC Tower Rotating Assembly             |   |  | Launched | 10/25/18   | 11/04/18 |
| T10104 RTC Crane Cabin                         |   |  | Launched | 10/31/18   | 12/01/18 |
| T10106A RTC Crane Jib                          |   |  | Started  | 10/17/18   | 10/31/18 |
| T10106 RTC Crane Jib Assembly 30M              |   |  | Launched | 10/25/18   | 10/31/18 |
| T10107 RTC Loading Jib 30M                     |   |  | Launched | 10/17/18   | 10/22/18 |
| T10108 RTC Counterweight Jib 10M               |   |  | Launched | 10/17/18   | 10/24/18 |
| T10109A RTC Cable Pulling                      |   |  | Started  | 10/27/18   | 11/25/18 |
| T2000 Installation on site                     |   |  | New      | 12/06/18   | 12/08/18 |

|              |                        |             |
|--------------|------------------------|-------------|
| Category *   | Site *                 |             |
| MAT          | FR011                  |             |
| Task code *  | Description *          |             |
| T10107       | RTC Loading Jib 30M    |             |
| Start date   | End date               |             |
| 10/17/18     | 10/22/18               |             |
| Due date     | Estimated progress (%) |             |
|              | 0.00                   |             |
| Budget code  | Description            |             |
| B02-B        | RTC Crane Jib          |             |
| Status       | Planning date          | Launch date |
| Launched     |                        | 09/30/18    |
| Closing date | Suspension date        |             |

After saving the manual allocation, it will result into a partial allocation of 2 units that is also visible in the task product grid:

OPERATIONS PRODUCTS PREDECESSORS

| Line | D... | Site  | Product | Description         | U... | Required quantity | Requirement da... | Availability date |
|------|------|-------|---------|---------------------|------|-------------------|-------------------|-------------------|
| 1    | 20   | FR011 | RAW017  | RTC Screw           | UN   | 10                | 10/22/18          | 10/22/18          |
| 2    | 30   | FR011 | RAW015  | RTC Metal Brace     | UN   | 4                 | 10/22/18          |                   |
| 3    |      |       | COM107  | RTC Loading Jib 30M | UN   | 1                 | 10/22/18          | 10/19/18          |

## Task planning

H I P N

| Expand all                                     | Q |  | Status   | Start date | End date |
|--|---|--|----------|------------|----------|
| FR0111609000001 RTC Rotating Tower Crane 40M ( |   |  | Closed   | 10/03/18   | 10/14/18 |
| T1000 Design                                   |   |  | Closed   | 10/03/18   | 10/14/18 |
| T10101A RTC Crane Tower Unit                   |   |  | Launched | 10/17/18   | 12/05/18 |
| T10106A RTC Crane Jib                          |   |  | Started  | 10/17/18   | 10/31/18 |
| T10106 RTC Crane Jib Assembly 30M              |   |  | Launched | 10/25/18   | 10/31/18 |
| T10107 RTC Loading Jib 30M                     |   |  | Launched | 10/17/18   | 10/22/18 |
| T10108 RTC Counterweight Jib 10M               |   |  | Launched | 10/17/18   | 10/24/18 |
| T10109A RTC Cable Pulling                      |   |  | Started  | 10/27/18   | 11/25/18 |
| T2000 Installation on site                     |   |  | New      | 12/06/18   | 12/06/18 |
| T3000 Acceptance test                          |   |  | New      | 12/11/18   | 12/12/18 |

|              |                        |                          |         |
|--------------|------------------------|--------------------------|---------|
| Category *   | Site *                 | Parent code              |         |
| MAT          | FR011                  | T10106A                  |         |
| Task code *  | Description *          |                          |         |
| T10107       | RTC Loading Jib 30M    |                          |         |
| Start date   | End date               | Sequence no.             |         |
| 10/17/18     | 10/22/18               | TAS000000000003          |         |
| Due date     | Estimated progress (%) | Progress range           |         |
|              | 0.00                   |                          |         |
| Budget code  | Description            | Budget creation          |         |
| B02-B        | RTC Crane Jib          | <input type="checkbox"/> |         |
| Status       | Planning date          | Launch date              | Started |
| Launched     |                        | 09/30/18                 |         |
| Closing date | Suspension date        | Currency                 |         |
|              |                        | EUR                      | EURO    |

OPERATIONS PRODUCTS PREDECESSORS

| Line | D... | Availabi... | Major v... | Min... | Sold... | Ordere... | Consumption...  | Quantity to allocate | Allocated qty. | Allocation status   | Allocation type |
|------|------|-------------|------------|--------|---------|-----------|-----------------|----------------------|----------------|---------------------|-----------------|
| 1    | 20   | 0/22/18     |            |        |         |           | Direct delivery | 10                   |                | Not allocated       | Detailed        |
| 2    | 30   |             |            |        |         |           | Direct delivery | 4                    | 2              | Partially allocated | Detailed        |
| 3    | 40   | 0/19/18     |            |        |         |           | Direct delivery | 1                    |                | Not allocated       | Detailed        |

Allocation details have been added in the task product grid including Quantity to allocate, Allocated quantity, Allocation status and Allocation type (Detailed). The Quantity to allocate is calculated based on the Required quantity minus the Ordered quantity. The Ordered quantity is the sum of Sales order lines linked to the task for this product. If a Sales order line exists for that task product, the allocation will have to be managed at the Sales order line level (SO), not at the task product line level (MT).

### 7.3.2 Automatic allocations based on assignment rules

From the Enterprise Planning function, if a purchase order suggestion on the product is transformed into a Firm order, it will result in an automatic assignment between the two orders: MTF and POF (because of the PJM assignment rule defined on this product).

Enterprise planning MFGP : Manufacturing & PJM

Filters

Site

User

Start - end range

From product

RAW015

Allergens

|   | Product | Order type            | WIP status | S... | Plan... | Requirem... | Order | Entry     |
|---|---------|-----------------------|------------|------|---------|-------------|-------|-----------|
| 1 | RAW015  | Supplier order        | Planned    | UN   | 108     | 10/11/2018  | POP   | PRQFR0111 |
| 2 | RAW015  | Project demand        | Firm       | UN   | 4       | 10/22/2018  | MTF   | TAS000000 |
| 3 | RAW015  | Material requirements | Suggested  | UN   | 108     | 03/30/2020  |       |           |
| 4 | RAW015  | Supplier order        | Suggested  | UN   | 2       | 03/30/2020  |       |           |

Plan/Order

Order site \*

Order type \*

Entry type

Suggestion

Entry

SUGFR0110285762

Product source

Normal

Product

RAW015

Major version

Minor version

Supplier

FR012

Project

FR0111609000001T10107

Request/order

Requested date \*

03/30/20

PUR quantity

2

UN

Location reference

The assignment workbench can be launched from the Enterprise planning function, as well as from the task planning grid

OPERATIONS PRODUCTS PREDECESSORS

|   | Line | D... | Site  | Product | Description     | U... |
|---|------|------|-------|---------|-----------------|------|
| 1 | 20   |      | FR011 | RAW017  | RTC Screw       | UN   |
| 2 | 30   |      | FR011 | RAW015  | RTC Metal Brace | UN   |

Assignment workbench ALL : Full entry

Filters

Site

FR011

Reference

Product

RAW015

Major version

Minor version

Stock unit

UN

Change request

EOQ

Safety stock

Loss %

0.000

Projected

|   | Order type            | WIP status | Start date | End date | Remaining qty. | Expected stock | Quantity assigned | Message   |
|---|-----------------------|------------|------------|----------|----------------|----------------|-------------------|-----------|
| 6 | Material requirements | Planned    | 10/13/18   | 10/13/18 | 168            | 132            |                   | No action |
| 7 | Project demand        | Firm       | 03/17/18   | 10/22/18 | 4              | 132            |                   | No action |

Assignments - Project demand TAS000000000003 - Left to be assigned = 0

|   | Order | Entry         | Type           | Assigned qty. | Rest | End date | Forced | Message | Status  | Progress |
|---|-------|---------------|----------------|---------------|------|----------|--------|---------|---------|----------|
| 1 |       |               | Stock          | 2             |      |          |        |         |         |          |
| 2 | POF   | POF0001101008 | Purchase order | 2             |      | 03/30/20 | No     | Line    | Pending |          |

Interactions with Sales orders

When a sales order line is created and is linked to a material task through the project field, for the same project than the one defined on this material task, then a Sales order requirement (SOF) is also created.



### 7.3.3 Task / Task operation dependencies:

You can define the dependencies (predecessors and successors) between tasks or between task operations, which allows you to create a complete task network for the project and manage planning constraints.

For a task on the project, it's possible to define its predecessors represented by a set of linked tasks.

The screenshot displays the SAGE Task planning interface. The main table lists tasks with columns for Status, Start date, End date, Category, and Due date. A red box highlights the 'PREDECESSORS' tab, which shows a table of linked tasks with columns for Line, Linked project, Description, Linked task, Link type, Constraint type, Lag (days), Start date, and End date. The table shows three entries for 'RTC Rotating Tower Crane 40M' with link types 'End to start' and constraint types 'Flexible'.

| Line | Linked project  | Description                    | Linked task | Link type    | Constraint type | Lag (days) | Start date | End date |
|------|-----------------|--------------------------------|-------------|--------------|-----------------|------------|------------|----------|
| 1    | FR0111609000001 | RTC Rotating Tower Crane 40M ( | T10102      | End to start | Flexible        | 0          | 10/17/17   | 10/28/17 |
| 2    | FR0111609000001 | RTC Rotating Tower Crane 40M ( | T10103      | End to start | Flexible        | 0          | 10/25/17   | 11/04/17 |
| 3    | FR0111609000001 | RTC Rotating Tower Crane 40M ( | T10104      | End to start | Flexible        | 0          | 10/31/17   | 12/01/17 |

For each of these “Linked tasks”, the user can define the “Link type”. Each link type can manage the two constraint types: “Strict” or “Flexible”.

### 7.3.4 Task progress estimation

New task fields – Estimated progress (%) and Progress range. Used for estimating completed percentage of task. Estimated progress (%) field can be entered manually or updated automatically using associated field Progress range

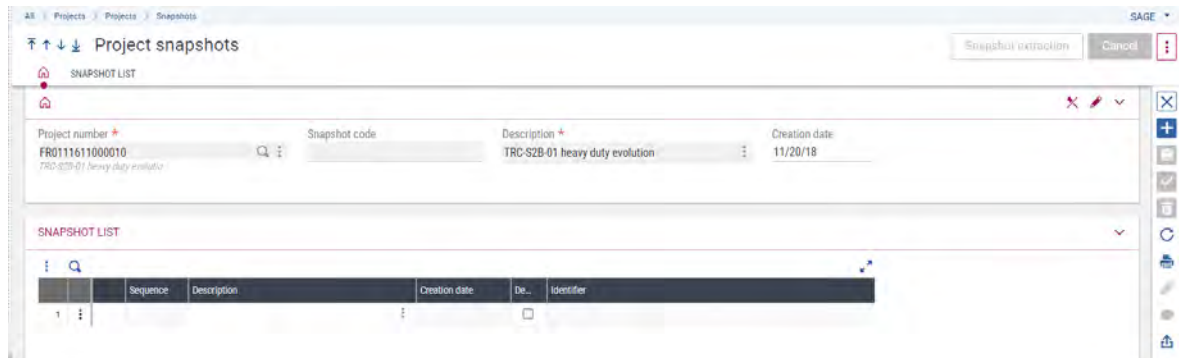
The screenshot displays the SAGE Task planning interface, specifically the 'TASK' tab. The main table lists tasks with columns for Status, Start date, End date, Category, Due date, Estimate, Operatio., Budget, and Task type. A red box highlights the 'DETAILS' section, which shows the 'Estimated progress (%)' field set to 30.00 and the 'Progress range' field set to R2. The 'Progress range' field also includes a sub-field for 'Progress range' with the value 20% - 40%.

| Task                                   | Status | Start date | End date | Category | Due date | Estimate | Operatio. | Budget                 | Task type   |
|--|--------|------------|----------|----------|----------|----------|-----------|------------------------|-------------|
| NA0131701000027 Chain conveyor NA 69   | New    | 05/10/19   | 06/15/19 | LABOR    |          | 30.00    |           |                        | Provisional |
| PH01 - Project Launch                  | New    | 05/25/19   | 06/08/19 | LABOR    |          |          |           | B01 Project management | Provisional |
| TS01-01 Contract review and validation | New    | 06/05/19   | 06/15/19 | LABOR    |          |          |           | B01 Project management | Provisional |
| TS01-02 Project scheduling             | New    | 06/16/19   | 06/29/19 | LABOR    |          |          |           | B02 Research & design  | Provisional |
| PH02 - Research & Design               | New    | 06/30/19   | 07/20/19 | MATERIAL |          |          |           | B03 Manufacturing      | Provisional |

### 7.3.5 Project Snapshot: Create project snapshot based on the project overview

A new function - Project snapshots - has been added to the Projects menu. This function allows to create project snapshots based on the Project overview function. Initially the user selects a project code to be extracted. This function creates the snapshot header.

Once extracted, a new line is added to the snapshot list. To display the snapshot details, use the View action from the Actions icon of the snapshot list. The Snapshot view has the same design as the Project overview function



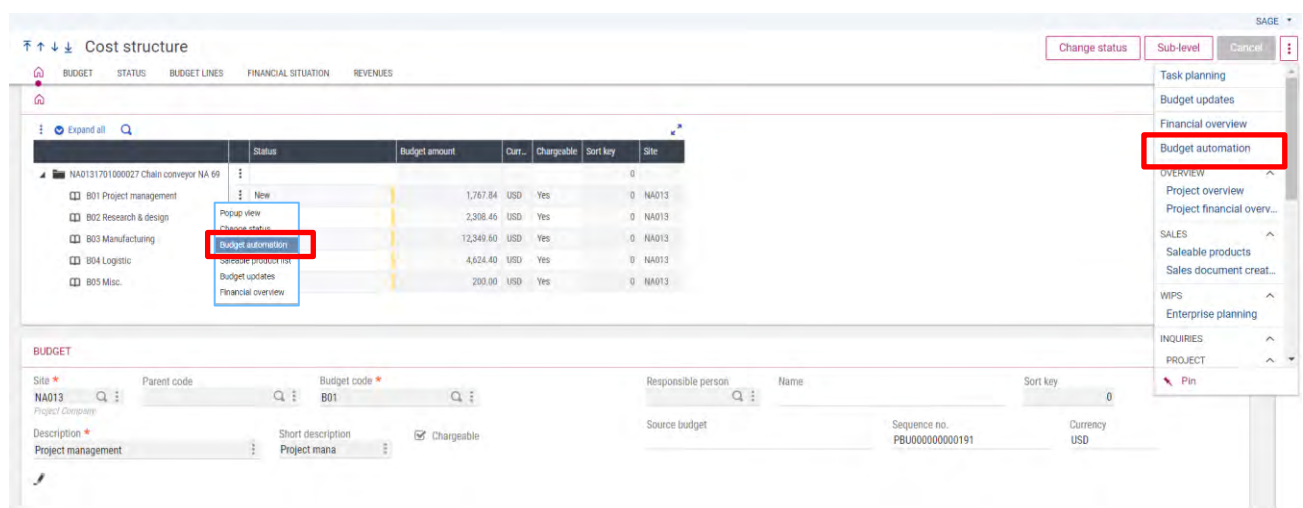
### 7.3.6 Automated Budget based on the Product requirements

Project management budget automation now includes budgets based on task products.

The objective is to create a complete budgetary picture for the project, based on the task planning (Labor tasks and Material tasks)

In addition to the automation based on labor tasks, material tasks are now included in the budget automation calculation process to provide a complete budget solution:

- Task products can include a manual budgetary value (purchased products only).
- Task products can include a stock-based value method(s) for budgetary calculations based on the product profile relevant to stock valuation methods and the detailed breakdown structure (includes material, labor and machine costs).
- The budget automation can integrate with existing budget lines, irrespective of the original source of the budget line. It also provides flexibility to include or exclude products from a given budget automation run.



## 7.4 Project copy improvement

A project structure (from a template project or an existing project) can now be copied into a different project.

Selected elements of a project can be changed when creating a new project from an existing project:

- Sales site
- Operating site
- Currency
- Rate type and date
- Product requirement dates

The project origin (the source) is now displayed on the new (copied) project.

A prefix or suffix can be added to task codes or budget codes added to the destination project (only available if selecting the Apply action prior to executing the copy).

## 7.5 Time entry improvement

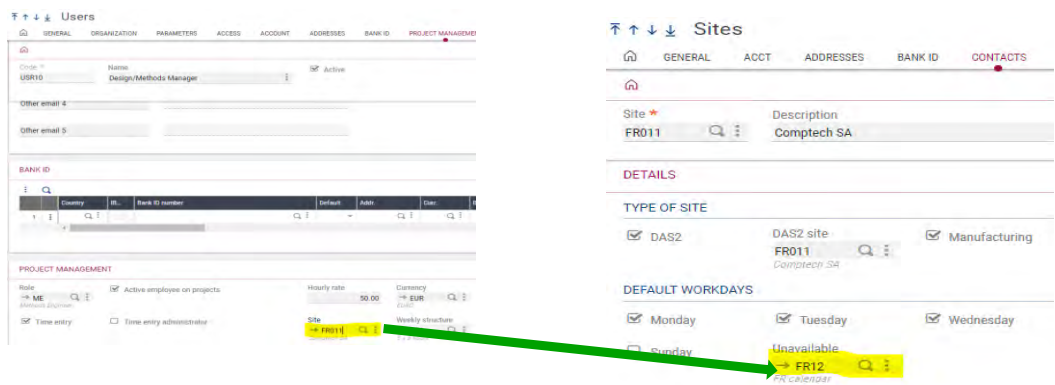
This new inquiry allows to control that all the employees working on projects enter all hours on a daily, weekly or monthly basis.

Controls have been added to make sure all employees enter all hours on a daily, weekly or monthly basis

To control if project timesheets are missing for a user the time spent on project will be compared to the capacity.

The user capacity is calculated based on the default weekly structure and capacity variations which are defined in the user setup. Note: Capacity variations allow the increase or decrease of the user capacity for the selected period.

If the user is linked to a specific site in the "Project management" section of the user setup, then the "Unavailable periods" (bank holidays...) defined for this site will be also integrated in the calculation of the capacity for this user.

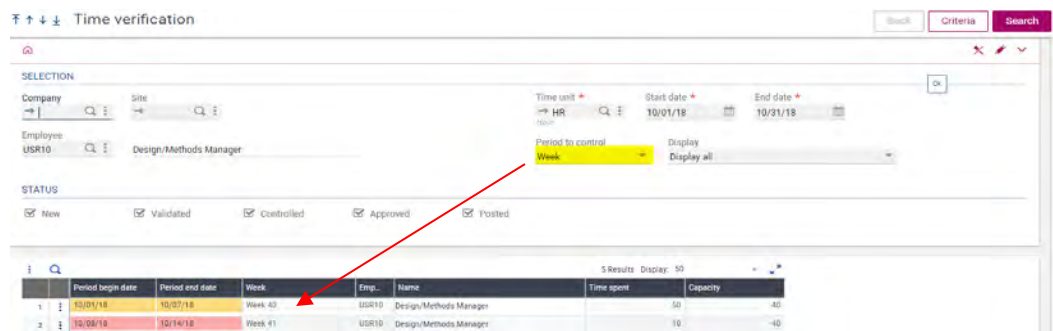


### 7.5.1 Time entry verification

The criteria "Period to control" allows to aggregate the lines by days, weeks or months.

The user capacity will be aggregated across the period.

The Time spent on projects will also be aggregated across the period.

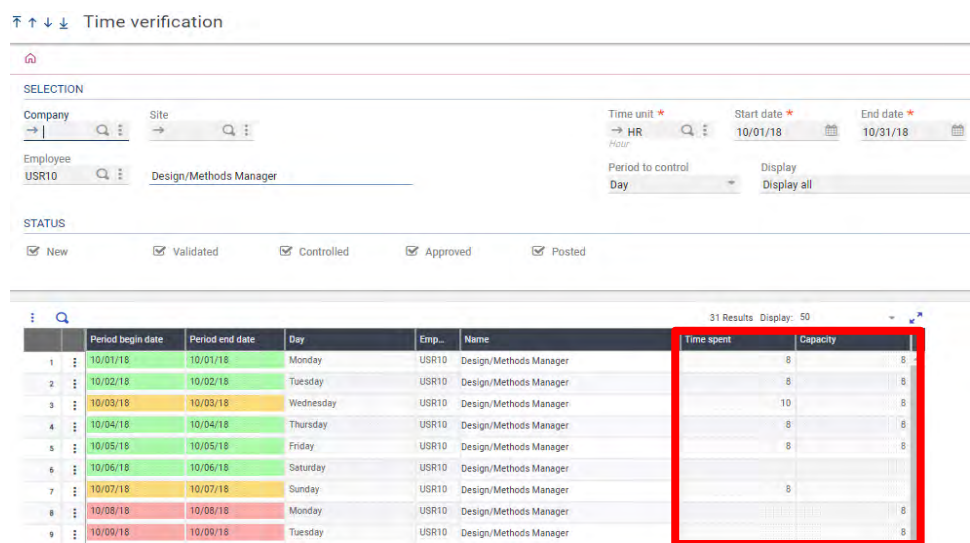


### 7.5.2 Time entry inquiry

If the Time spent on projects by a user is less than his capacity, then the line is highlighted in red (Alert)

If the Time spent on projects by a user is greater than his capacity, then the line is highlighted in orange (Warning)

If the Time spent on projects by a user is equal to his capacity, then the line is highlighted in green (Normal situation)



The employee assignment workload is now displayed in addition to the operation workload

Controls in terms of making sure all employees enter all hours on a daily, weekly or monthly basis

A new general parameter to allow (or not) Direct time entries on Budget

Analytical management on the actual time entry function

New functions to manage the posting of the time entries

Time category will take now the time spent X employee labour rate X the multiplier to calculate the amount.

Time entry / Labour posting - Currency management

A header criterion allows to filter all the lines, only the warnings or only the alerts

Time verification

---

**SELECTION**

Company: [Search] Site: [Search] Time unit: **HR** Start date: **10/01/18** End date: **10/31/18**  
Hour

Employee: **USR10** Design/Methods Manager Period to control: **Day** Display: **Display warnings only**

---

**STATUS**

☒ New ☒ Validated ☒ Controlled ☒ Approved ☒ Posted

---

|   | Period begin date | Period end date | Day       | Emp... | Name                   | Time spent | Capacity |
|---|-------------------|-----------------|-----------|--------|------------------------|------------|----------|
| 1 | 10/03/18          | 10/03/18        | Wednesday | USR10  | Design/Methods Manager | 10         | 8        |
| 2 | 10/07/18          | 10/07/18        | Sunday    | USR10  | Design/Methods Manager | 6          |          |
| 3 | 10/17/18          | 10/17/18        | Wednesday | USR10  | Design/Methods Manager | 10         | 8        |

If the user is linked to a specific site in the "Project management" section of the user setup function, then this site can be used as some criteria in the Time verification function to filter the list of users

## 7.6 Sold product improvement

The Sales automation function has been redesigned and simplified. The function is accessible from the action panel in the Saleable products function. Previously it was available from the project screen, the task planning screen or from the cost structure screen

## 7.7 Financial KPIs / Report

Financial Key Performance Indicators (KPIs) are displayed on the project screen. Default KPIs display the sales revenue and the sales margin.



- The Financial situation displays budgets, commitments, actuals, forecasted cost price and budget margins.

Project management

Task planning Cost structure Cancel

PROJECT FINANCIAL SITUATION REVENUES ASSIGNED EMPLOYEES ASSOCIATED PROJECTS COMPETITORS ANALYTICAL DIMENSION

FINANCIAL SITUATION

Extraction date 08/18/17

FINANCIAL SITUATION

|               |           |               |     |
|---------------|-----------|---------------|-----|
| Budget Amount | 21,250.30 | Budget Qty    | 507 |
| Currency      | USD       | Unit          | HR  |
| Committed     | 5,764.70  | Committed Qty | 106 |
| Actual        | 2,854.74  | Actual Qty    | 78  |

REMAINING

|                  |           |                      |     |
|------------------|-----------|----------------------|-----|
| Left to commit   | 13,363.23 | Left to commit Qty   | 349 |
| Budget remaining | 19,127.93 | Budget remaining Qty | 455 |

TOTAL

|                        |           |                 |     |
|------------------------|-----------|-----------------|-----|
| Provisional cost price | 21,982.67 | Provisional Qty | 534 |
| Margin Amt             | -732.37   | Margin Qty      | 27  |
| % Amt                  | -3.45     | % Qty           | -5  |

## 8.0 User Interface and Tooling

### 8.1 Tooling for GDPR

This release of Enterprise Management includes a new visual process to help meet the requirements of the GDPR including:

- Access to the Data administrator homepage
- Access to the various functions available in Enterprise Management around GDPR compliance
- Provides the identity of the Data Protection Officer from the Contacts tab in the company settings
- Generates a list of companies in and outside of Europe and identifies the associated Data Protection Officer
- Generates a list of the data types related to personal information
- Exports all fields associated with an individual
- Provides tools enabling a search on personal data
- Provides access to personal data records (Users, Business partners etc.)
- Provides templates for the export of personal data records
- Extracts all phones numbers and emails when required to address a situation where data has been breached

### 8.2 Traceability on administration data

It is now possible to set-up a log on every modification done on administration data. The set-up is defined by group of information and is defined in the *Global Settings*:

**HISTORY**

History maximum days: 365  
Maximum number of days to keep history records.

History log

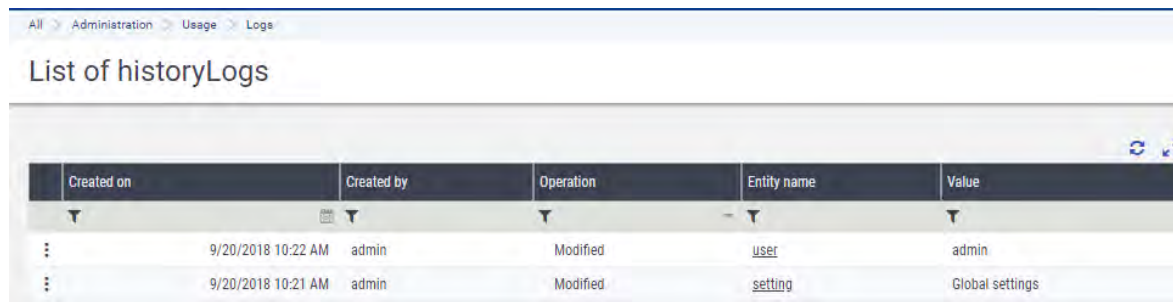
8 Results Display: 50

| Code              | Description   | Enable                              |
|-------------------|---|-------------------------------------|
| authoring         | Personalization   | <input checked="" type="checkbox"/> |
| collaborationArea | Teams, documents and storage; Office integration        | <input checked="" type="checkbox"/> |
| exportData        | Export data   | <input type="checkbox"/>            |
| importData        | Import data   | <input type="checkbox"/>            |
| pages             | Navigation : dashboards, vignettes, menus, pages        | <input type="checkbox"/>            |
| statusAndUsage    | System status and logs, maintenance actions             | <input type="checkbox"/>            |
| technicalSettings | Setup servers, endpoints, schedulers and authentication | <input checked="" type="checkbox"/> |
| users             | Users, groups and roles management                      | <input checked="" type="checkbox"/> |



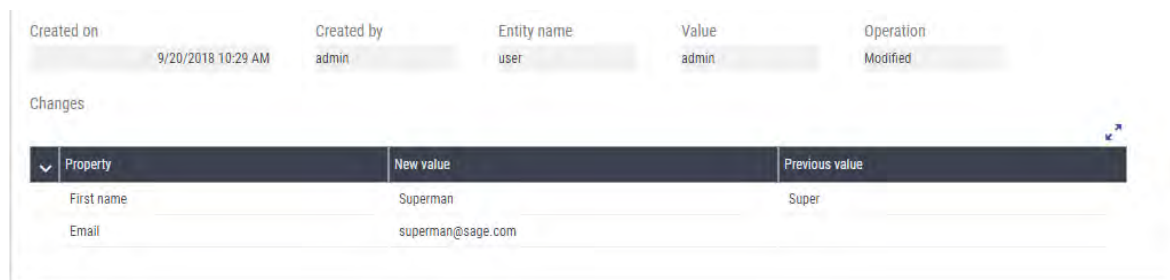
The history data is automatically purged after a given period that is set up in days.

A new page gives access to the history:



| Created on         | Created by | Operation | Entity name             | Value           |
|--------------------|------------|-----------|-------------------------|-----------------|
| 9/20/2018 10:22 AM | admin      | Modified  | <a href="#">user</a>    | admin           |
| 9/20/2018 10:21 AM | admin      | Modified  | <a href="#">setting</a> | Global settings |

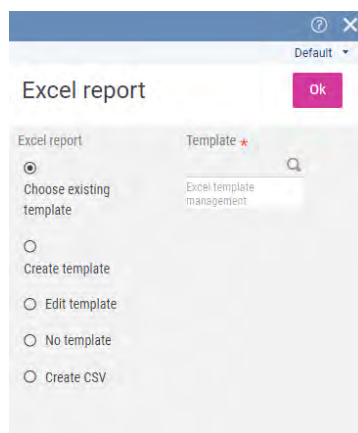
When clicking on a line, you get the detail of the information that has been modified:



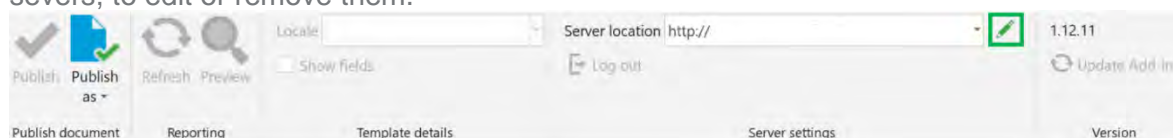
| Property   | New value         | Previous value |
|------------|-------------------|----------------|
| First name | Superman          | Super          |
| Email      | superman@sage.com |                |

### 8.3 Office Integration

From a representation, the export on Excel opens a popup with an additional option: *Create CSV*. This allows notably to publish data on Excel when using MacOS (the Excel plugin exists only on Windows)



In the Office plugin, on the Sage tab, there is now a pen icon that allows to manage the list of servers, to edit or remove them.



### 8.4 Table dictionary evolution: Clustered index set-up changes

It is now possible to deliver in standard clustered indexes for SQL server. This will:

- Enhance the performance for sequential reads
- Decrease lock escalation.

To enable this feature, the table dictionary page has been enhanced as follows:

INDEX

|   | Index Code | Index Descriptor | Duplicates | Default clustered index | Index cluster | Activity |
|---|------------|------------------|------------|-------------------------|---------------|----------|
| 1 | CODFIC     | CODFIC           | No         | Yes                     | No            |          |
| 2 | ABRFIC     | ABRFIC           | No         | No                      | Yes           |          |
| 3 |            |                  |            |                         |               |          |

☒ Clustered index activated

Note: when upgrading the following behavior happens:

- If in **Index cluster** column, there is a Yes (i.e. if a previous set-up done locally set a clustered index), the check-box will be activated.
- If this is not the case, the checkbox will not be activated. This means that even if a default value is delivered, it won't be activated by default.

By default, for this release and future releases the **Clustered index activated** checkbox will not be modified by a table structure patch, and will remain the same for the **Index cluster** column. But the **Default Clustered index** can be modified by a table patch.

## 8.5 Ability to manage up to 500 tables opened simultaneously

Until now, there was a limit of 255 tables opened simultaneously in a transaction. This could be a limit when a big number of specific or vertical tables were added through entry points in standard transactions.

This limit has been raised to 500.

## 8.6 Manage mongoDB Cluster installation

The installer of the node.js server will now automatically detect and configure MongoDB clusters.

## 8.7 Manage Allowed / forbidden protocol and encryption algorithms (TLS 1.2)

For security purpose, the RC4, CBC encryption algorithms and the TLS1.0 and TLS 1.1 protocols are now forbidden. It is possible, in exceptional cases, to modify those rules using settings in the nodelocal.js file. This security fix has also been delivered in version 9 and 11.