Enterprise Management

How to develop a legislation

Enterprise Management

02 2016

Contents

Introduction and Objectives

If you are reading this documentation, it means that you have decided to work with Sage to distribute and localize Enterprise Management.

We are very pleased to welcome you to the Enterprise Management partner community.

The contractual agreement you have signed with Sage has defined your first steps in the Enterprise Management world, along with the different training courses that you will have to follow to learn what the product is doing and what can be done using the settings capabilities and the development platform.

The aim of this document is to give you concrete information and to help you during your first steps using the product in your own premises. To fully understand the concepts, you need to have attended the various training sessions.

This document will complete your information and highlight legislation and Add-on development compared to a general development.

This document will refer to other documents stored in the Online Help Center. To be authorized to access these documents, you need to have an Enterprise Management connection active on your computer (except for installation instructions and some documents stored on a public zone).

Some topics presented in this document could be detailed during online Webex sessions, if needed.

As any documentation related to a product, things may evolve with new releases and we will keep the online documents up-to-date. We advise you to periodically check the availability of new documents or new versions of existing ones.

The list of all referenced documents, and the link to access, is provided on the last chapter.

Enterprise Management provides multi legislation and multi languages management capabilities.
A set of legislations and languages are available with the product.

They can be developed:

- by Sage, and in this case they are delivered with the standard and are called ‘core’

> **Note**: Some legislations developed by Sage are not yet in the standard and are still delivered as ‘Add-on’)

- by partners, in this case they are classified as ‘Add-ons’ and delivered on request.

Other legislations exist through the ecosystem, however if they are not compliant with Add-on development rules they cannot be promoted by Sage.

For a final customer there is no distinction between a core or a non-core legislation or language (developed as an add-on or not).

This document intends to provide guidelines on

- How to start if you want to develop a new legislation or localization according to Add-ons rules;
- The process to follow, the different Sage actors that will help you;
- The different web sites where you can find help, and how to obtain access credentials;
- How to develop and define settings;
- How to package and distribute your development, what collaterals to deliver;
- Advises on the methodology to adopt to test your development;
- How to maintain it;

and to gather in a single point, information referring to various online sources.

Collaboration between our companies is one of the keys of success for your project.

- From a technical point of view, there are obvious links towards R&D;
- From a marketing and commercial point of view it is highly recommended in order to promote your legislation through the Enterprise Management ecosystem.

This document is dedicated to functional and technical consultants.

Prerequisites

The actors

During your journey with Sage you will meet people coming from different functions.

It is important to understand the roles of these people and who globally coordinates the project.

Function	Mission
Alliances	It is the first contact you will have with our company. They will play the role of global coordinator. Each region, Europe, America, AAMEA has its own organization. Your contact will help you to discover Enterprise Management, to organize demos of the product and will conduct the contractual negotiations with you. They will represent the link with the technical teams and they will provide you with the license key you will need to use the product. They will always be the contractual contact.
Training	Training is the first step to go deeper inside Enterprise Management. Sage offers a large panel of training courses covering all the functional and technical aspects of the product. A certification program is in place and you will have to certify your consultants according to the established rules.
Services	Will provide you with a proposal to accompany you in your first steps with Enterprise Management. They will offer expertise transfer, methodology help on how to concretely start your project. They will offer support during the development process and they could stay with you, depending on your needs, until you have completed your first customer project. We also advise you to seek their help for your first patch

	integration and version upgrade. Then you will move to the general support.
R&D	Will be involved in the gap analysis and will help you to find the best way to implement smoothly your legislation specificities in the product. Add-on development is a key topic for R&D. A dedicated team is assigned to help partners develop Add-ons and submit early hands-on enhancement in tool managing, versioning and patching. The team's role is also to explain development rules to meet Add-ons requirements.
Pre-sales	Your alliance manager will represent the link with this team that maintains a VM for demo, and demonstration scenarios, at the latest Enterprise Management Updates and patches.
Marketing	Will help you to give visibility to your Add-ons. You will have to fill up collaterals (cartography, MCD coverage) and to sign a localization contract in order to promote your legislation. They will also be the contact to recruit you in one of our 'early adopter programs' that are submitted to partners a few months before the GA of each version.
Support	Will be your contact to post any event, to retrieve patches, versions, hot fixes. Support is organized by geography. Each of them has a web site to offer you the services needed to update the product and post requests. The support service you will be provided will depend on your agreement and on the Partner or Developer support package you have subscribed with Sage. There is a specific Developer Program providing Development training, Developer certification, Developer support and solution certification. Please contact your Partner Account Manager for more information on this program in your region.

The different places you can find information

There are several Web sites which are very useful when you work with Enterprise Management. Most of them require login credentials. We invite you to ask for these credentials as soon as you can.

Partner Portal and Knowledge base

https://partnerportal.sageerpx3.com/

Access is granted by the marketing team. Information on how to require credentials can be found on the login page.

There is a mailbox to help you in this process: partnerportal.sageerpx3@sage.com

You will find general information about Enterprise Management. You will have access to a knowledge base and information on the early adopter programs that are submitted to partners on each product Update.

Note: Each region also publishes its own Website for support and knowledge base in addition to the global Knowledge base.
For North America you will find the following:

- Customer Portal:
  https://customers.sagenorthamerica.com/irj/portal/anonymous/login
- Knowledge base:
  https://support.na.sage.com/selfservice/microsites/msbrowse.do?UMBrowseSelection=SG_SAGEX3_1

Online help Center

http://online-help.sageerpx3.com/

It is the place where you will find all the product documentation, how to guides and videos.

The pages explaining how to install Enterprise Management are free of access. To access the other pages, you need to be connected to an Enterprise Management solution.

Social networks

On some social networks, there are communities related to or focused on Enterprise Management.

This will probably change in the future since social networks evolution is rich and fast.

At this time, the most important communities where you could find people with useful and similar experience you can share, is Linkedin (https://www.linkedin.com/).

Environment installation

Installation

After the ‘installation training’, you will be provided with the DVD or the access to download the latest available version of Enterprise Management.

Enterprise Management can be installed in different ways, depending on the needs, the number of users, the network constraints.

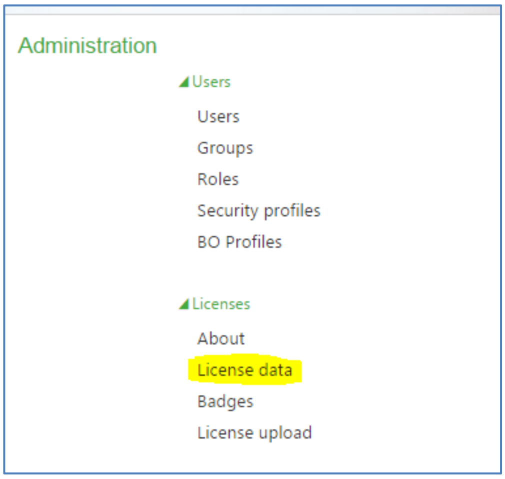
You will have to follow the installation procedure specified in the document

You can install Enterprise Management on a standalone VM or create a full multi-tier environment.

You can choose your favorite system configuration and database (Oracle or SQL).

Important! To install the product, you need to have a license key that will allow you to use the product, and that will define the number of concurrent users that you will have for each module (called ‘badges’).

The license key should be retrieved through your Sage sales contact or alliance manager. We usually provide partners with a NFR (Not For Resale) license. Please validate with your Sage contact that the number of badges granted (especially for developers) correspond to the size of your team.



Badges

6 Results Display: 50

Title	Code	Maximum	Functions
Developer	ERPDEV	100	APATCH APATCHA BUDAPP CPTQUIT FIYEND FUNAUTINVC FUNAUTINVD FUNAUTINVO FUNAUTINVS FUNAUT
Operation User-Distribution	ERPDIS	100	FUNAUTINVC FUNAUTINVD FUNAUTINVO FUNAUTINVS FUNAUTINVT FUNCFMINV FUNPIH GESBAP GESCON
Operation User-Finance	ERPFIN	100	BUDAPP CPTQUIT FIYEND FUNPIH GESBIC GESBIS GESENV GESEXS GESFAS GESGAS GESLOF GESPAY GES
Full User	ERPFULL	100	BUDAPP CPTQUIT FIYEND FUNAUTINVC FUNAUTINVD FUNAUTINVO FUNAUTINVS FUNAUTINVT FUNCFMINV
Operation User-Manufacturing	ERPMAN	100	FUNMAUTR GESEXS GESMFG GESMTK GESPOH GESPSH GESROU GESSCO GESSMO GESSMR GESSMX GES
Transactional User	ERPTRAN	100	GESEXS GESPSH

You have learned that, when performing an Enterprise Management installation, you start with the installation of the root folder (usually X3). This folder is a reference folder, and you should never work in it (only for administrative purposes).

On the DVD, you will also have an application folder (usually SEED) that you must install.

It is mandatory to perform all your developments in an application folder and not in the root folder.

You will have to create this folder using the folder management function GESADS.

To do so you will have to connect on the application endpoint.

> **Important!** Pay attention that in your development folder you will have to activate all the Activity codes in order to install all the (free) options. This is done to avoid copy problems when installing your patch on a folder where optional modules are installed and not on yours.

Keeping the options defined on the SEED folder will be sufficient.

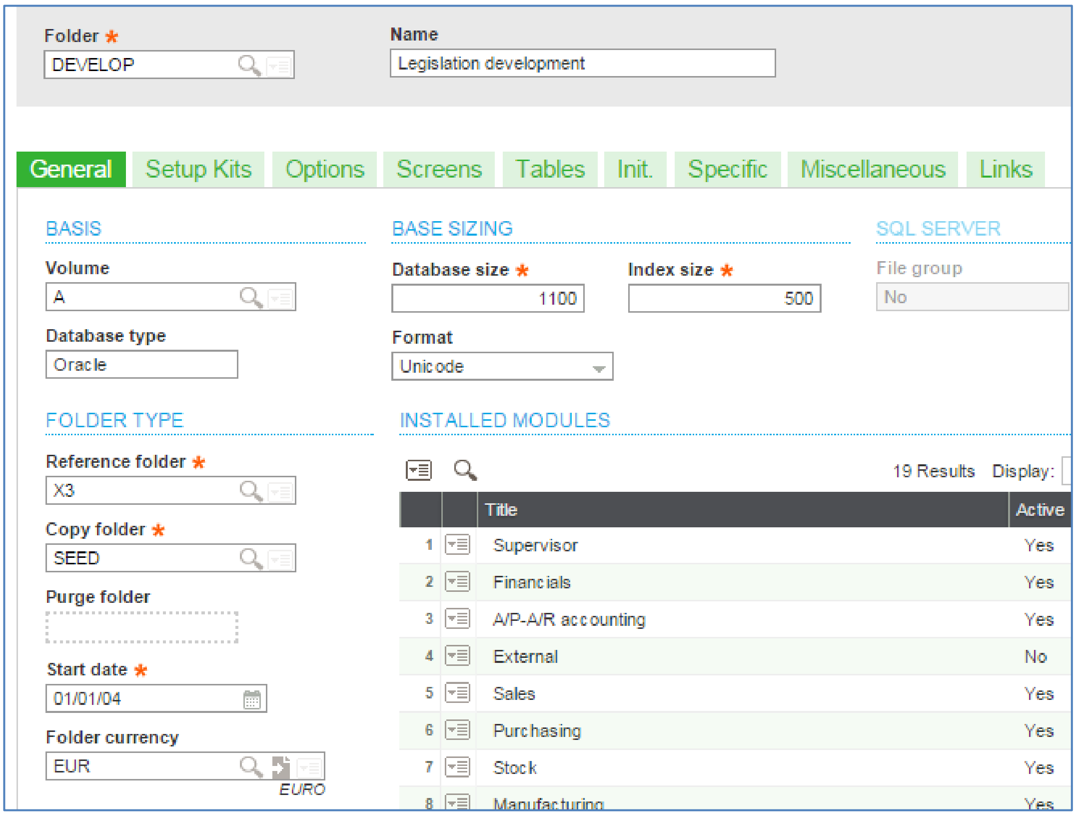
You have 2 choices:

- Work at 2 levels:
  - root folder, usually X3 (different name for Enterprise Management HR)
  - your development folder, with a name of your choice, for example MYFOLDER, that will be at the same level as SEED and so a child of X3
- Work at 3 levels:
  - root folder, usually X3 (different name for Enterprise Management HR)
  - SEED folder which is the reference application folder, and which derives from X3, or your own reference application folder at the same level of SEED and a child of X3
  - your application folder, with a name of your choice, for example MYFOLDER, that will be a child of SEED (or of your own reference level 2 folder),

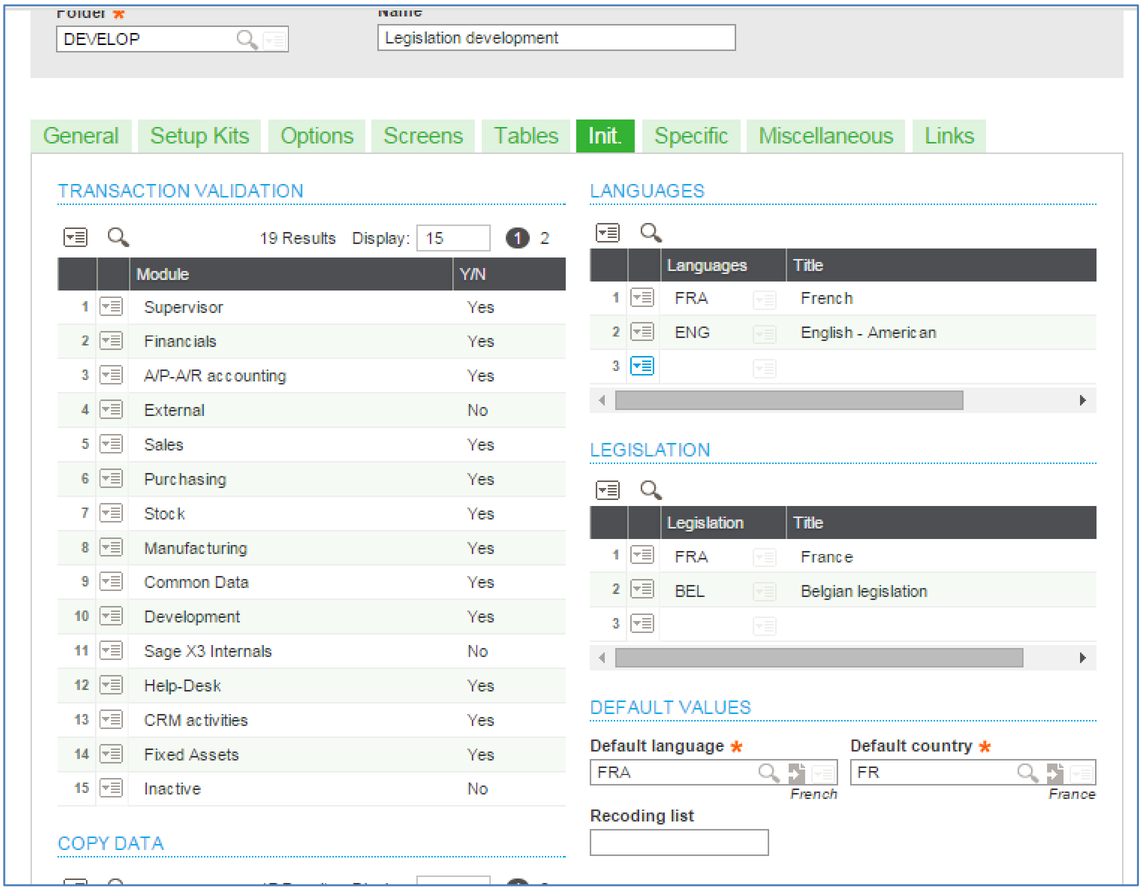
Both solutions are possible.

Our recommendation, if you are not skilled yet with Enterprise Management, is to **work at 2 levels** as the management is simplified.

Working with 3 levels may involve complications when deploying your developments at customer sites.

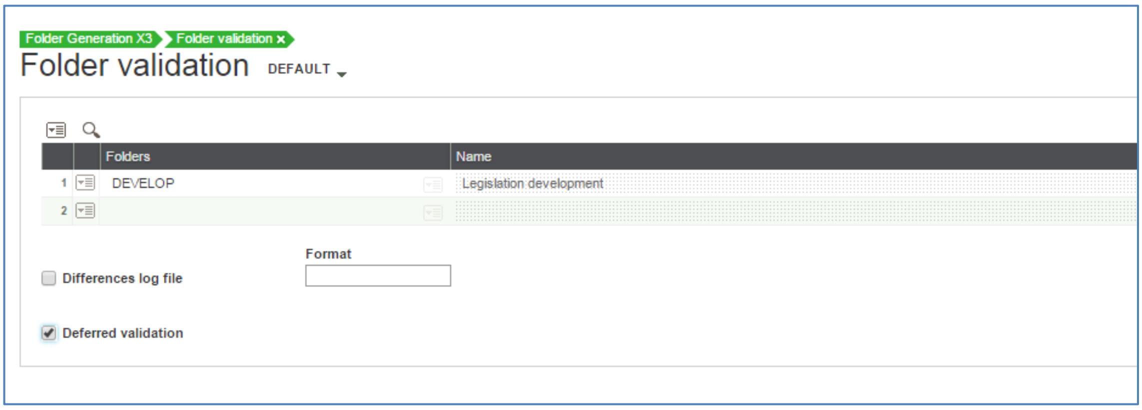


Define languages and legislations that you want to activate in this folder



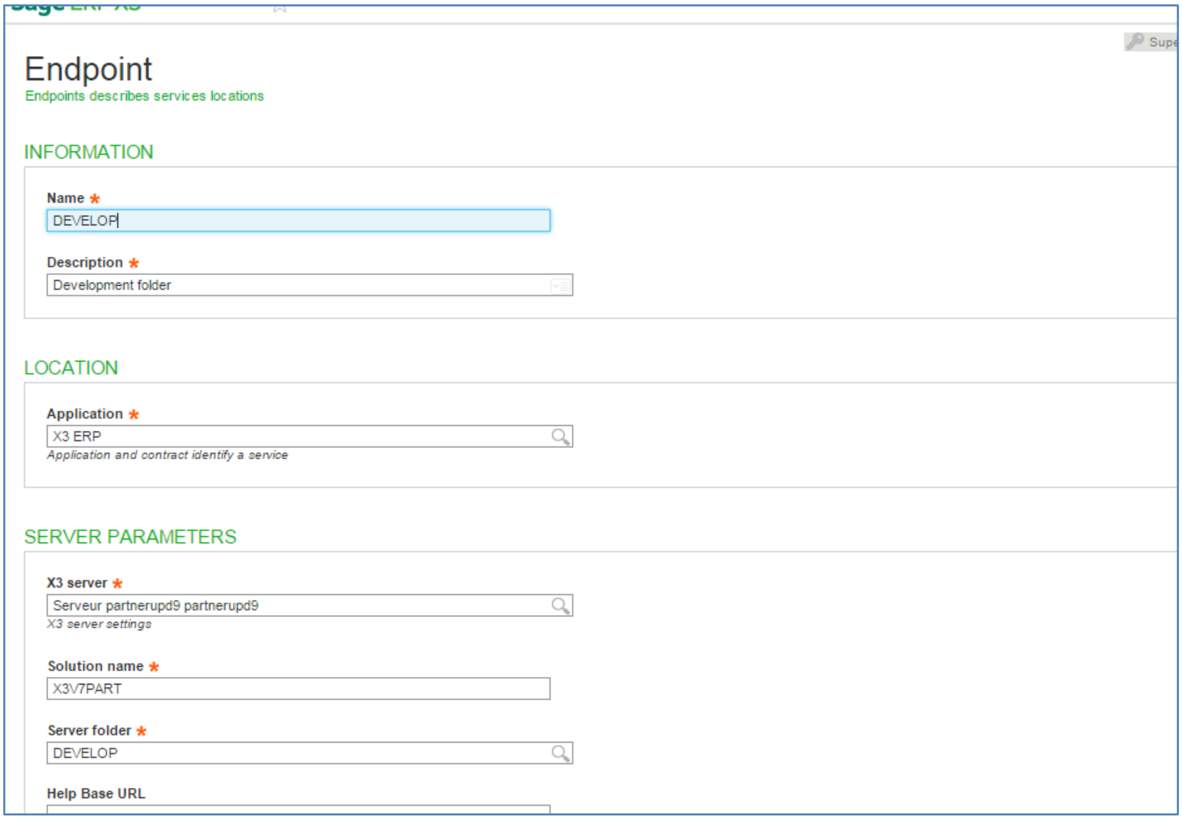
You will have to create the folder and then to validate it (follow the [installation procedure)](#)
Pay attention that this operation may be rather long (several hours).

Using the ‘Deferred validation’ save time as it postpones some operation that can be done while using the folder.



When your folder is created, you will have to add an endpoint to access to it with your browser.

Starting from now without further notice we consider you are working in this folder.



Locale management

When you are in the legislation creation process, you will have to define:

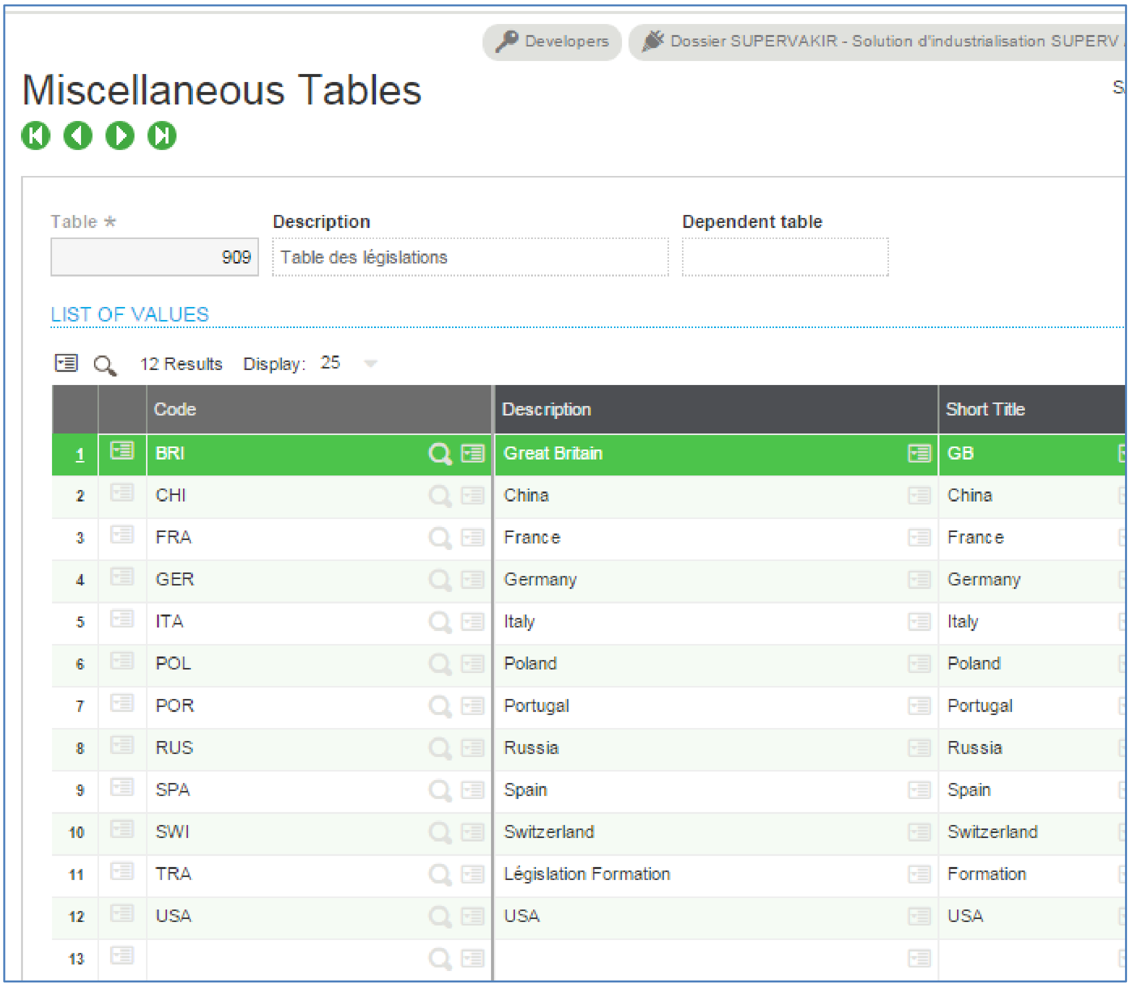
- A legislation code (A unique identifier set on 3 digits, example ENG)
- A new Enterprise Management language code (or use an existing one if it exists) (example ENG)
- A new locale code to manage country specific needs (or use an existing one if it exists) (example en-US)

These three settings need to be requested from and registered with the Enterprise Management R&D.

You have to request for code assignment. See the document How to add a non standard language.

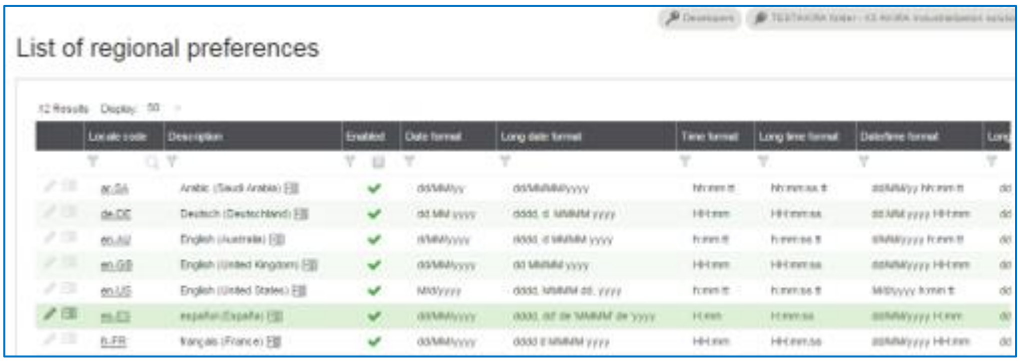
Miscellaneous table **909** contains the list of legislations. On your local folders, you will need to add your legislation code in this table.

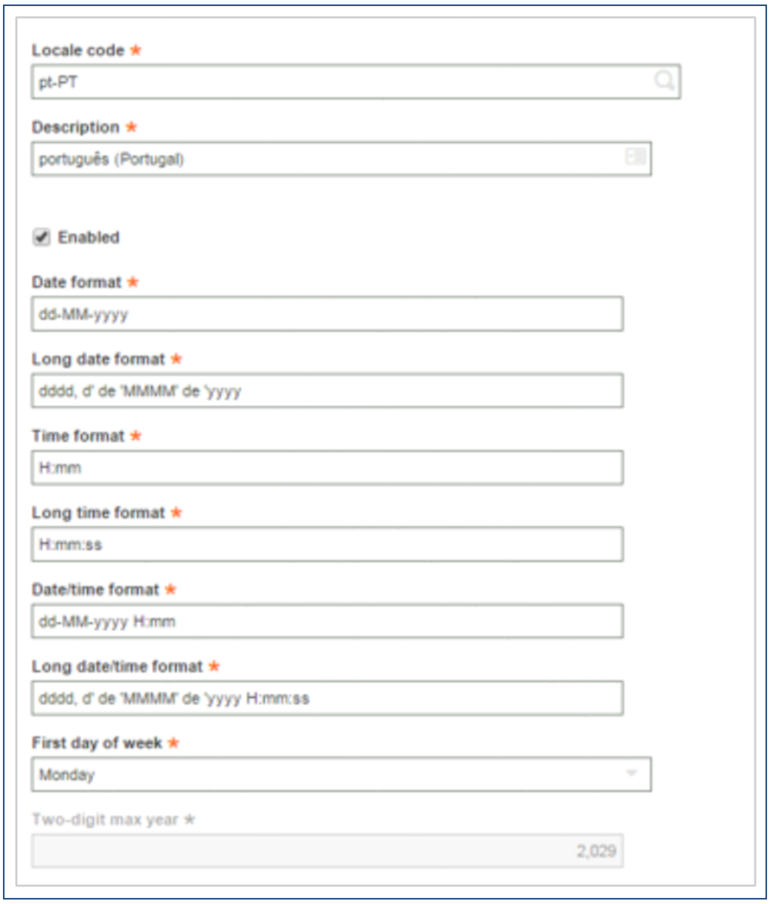
Note: The update of Miscellaneous table **909** must be done in the Enterprise Management folder **and** in your folder.
As we require a coordination with Enterprise Management R&D, the code will be included in the standard in the next updates.



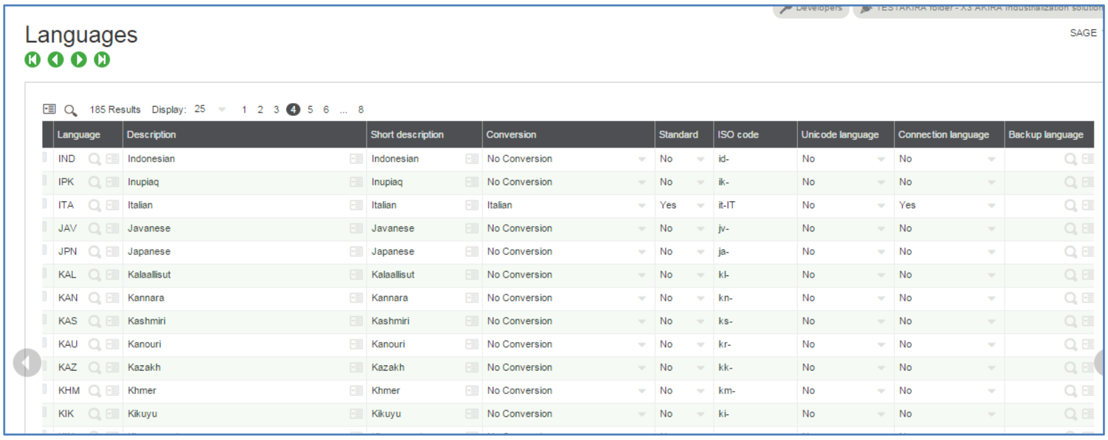
The locale language management takes place in the Syracuse administration.

Note: This process is detailed in the language management documentation.





Language management takes place in the GESTLA function.



Language	Description	Short description	Conversion	Standard	ISO code	Unicode language	Connection language	Backup language
IND	Indonesian	Indonesian	No Conversion	No	id-	No	No	
IPK	Inupiaq	Inupiaq	No Conversion	No	ik-	No	No	
ITA	Italian	Italian	Italian	Yes	it-IT	No	Yes	
JAV	Javanese	Javanese	No Conversion	No	jv-	No	No	
JPN	Japanese	Japanese	No Conversion	No	ja-	No	No	
KAL	Kalaallisut	Kalaallisut	No Conversion	No	kl-	No	No	
KAN	Kannara	Kannara	No Conversion	No	kn-	No	No	
KAS	Kashmiri	Kashmiri	No Conversion	No	ks-	No	No	
KAU	Kanouri	Kanouri	No Conversion	No	kr-	No	No	
KAZ	Kazakh	Kazakh	No Conversion	No	kk-	No	No	
KHM	Khmer	Khmer	No Conversion	No	km-	No	No	
KIK	Kikuyu	Kikuyu	No Conversion	No	ki-	No	No	

What a legislation comprises

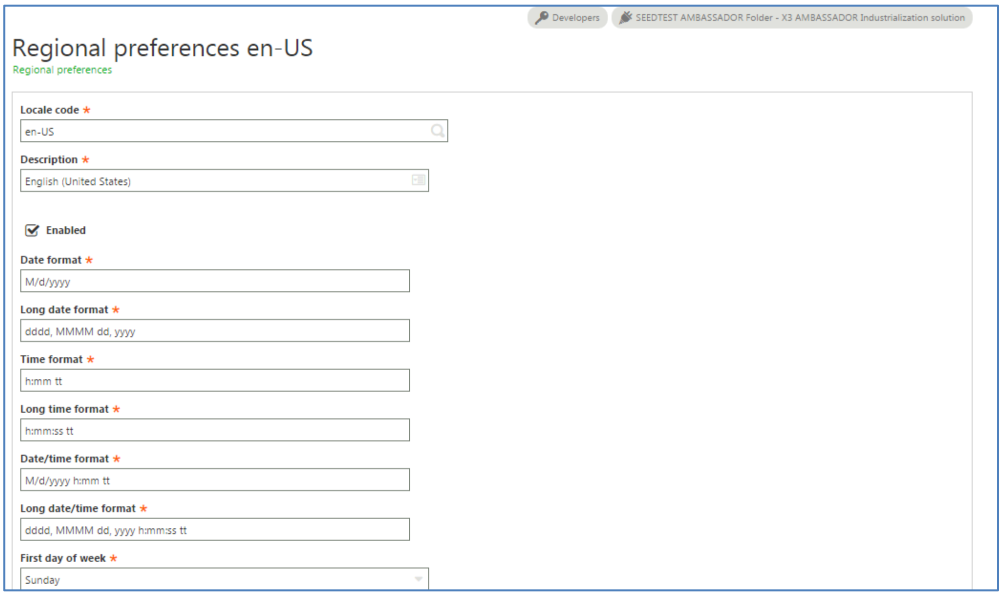
A legislation is a set of settings and developments necessary to fulfill country legal requirements.
It can consist of calculation rules, legal reports, legal declarations, tax management, methods used for stock value calculation and so on.

In a large number of cases, localization also needs to take into account language requirements and specific ways to manage local data (telephone number, address, currency).

Enterprise Management provides a platform that is able to host new legislations and localization.

Any new language could be hosted and managed (refer to the relevant chapter).

Any new local data management is supported via the ‘Locales’ Settings in the Administration pages.



A powerful set of preliminary settings can be delivered to define common practice, fiscal rules, market expectations, local reference settings etc. adapted to the new legislation.

Reports can be added using the Crystal Report tool.

The Safe X3 platform provides all the necessary features to develop new features and to safely adapt existing ones, to manage the documentation, the translations and the delivery and maintenance of any added function.

Each legislation has its own specificities, and the goal of this document is to provide a methodology.

Specifications will be performed using gap analysis, starting from the ‘closest’ existing legislation.

Settings (charts, taxes, document types)

There are always common settings: a basic chart of account, the same set of payment transactions, payment modes, tax rates and so on. That is why it is worth thinking about a reference setting for your legislation and set it up in your local folders.

To help you in this task, this document lists all the setting functions that could impact your legislation.

A few remarks about this reference setting operation:

- To facilitate the integration with other legislations, you have to provide the setting descriptions in ENG language too. In Enterprise Management terms, you must provide the **ATEXTRA** texts in ENG and the local language. The last column of the document states these particular rules.
- The legislation code belongs to the key of many tables and functions. It means you are free to choose codes that suit you. When the legislation code is not part of the key, please follow the instructions.
- About the automatic journals, two points need to be underlined:
    - Never modify the standard automatic journals. Duplicate them when you need to perform a personalization. Use the newly created one and set it up in the related ‘GAUxxx’ general parameters
    - Note that the standard automatic journals evolve on a regular basis, because of correction or new features. So, you need to plan to apply these evolutions to your local version of the automatic journals.

Developments (processes, screens, reports)

A legislation also consists of local features which are not included in the current standard scope.

It relates to features, such as legal declarations, tax commitments, fiscal requirements, specific reports for your markets or your sectors, and so on. Refer to the ‘Cartography’ chapter for various examples of local features.

It could be a very simple feature like a new identification field in the company function. It could also be something much more complex like dealing with a particular bank file format, using it to integrate payments and processing these data (creation, deletion, matching, reports). Such features could add a significant workload to the project.

To meet these market or legal expectations, and once you have checked they are outside of the standard Enterprise Management scope, you will need to develop these features using the technological platform (SAFE X3).

> **Note**: Refer to the next chapters concerning specification and development methodology.

Documentation

Once the reference settings and the localization addons are completed, documentation needs to be provided.

Several kinds of documentation are expected:

- Online help documentation, related to new Enterprise Management elements: functions, general parameters, activity codes, objects, reports etc. and the related field help documentation.
- Installation documentation and How to guides about your legislation.
- Providing the cartography of your legislation.

These documentations have to be available in English (ENG language code). Optionally, they can also be made available in local language.

About documentation tools & processes, and about cartography, please refer to the relevant chapters in this document.

Language and translation

In addition to the elements above, a significant effort could be necessary to deal with the translation tasks, depending on your objectives.

These tasks concern:

- The translation of the user interfaces into local languages. In Enterprise Management terms, this refers to the **ATEXTE** (texts) and **APLSTD** (messages) tables.
- The translation of the online documentation into local languages. Obviously, this would be a huge workload, probably only relevant for some important how to guides or function help.
- Translation into ENG (American-English) of local reference setting (ATEXTRA), local texts and messages, and local documentation. This is the only mandatory point related to translation.

Note: For more details about this topic, please refer to the dedicated chapter 'Translation rules'.

Specification methodology

General purpose

You need to identify the country requirements, and compared to what Enterprise Management already offers, you will have to provide some specifications to develop localization add-ons.

Within the Sage organization, Product Managers (PM) are in charge of the first task (identification of country requirements). Product Business Analysts (PBA) are responsible for the second task (specification). The result of this process is the Product Requirement Document (PRD) that describes the scope of a feature and the development performed.

This link above provides access to our PRD template. Even if this document is related to our own organization (PM, PBA, approval process), it should be helpful since it lists the specification phase, and all the Enterprise Management elements to think about and review.

Service support

Sage support your effort in legislation creation and specification steps process.

We invite you to ask your account manager to make the link with the team and to define with you the best way to collaborate according to your needs.

Collaboration with R&D

Throughout this legislation creation process, Sage R&D will support you at various stages.

During this particular specification step, when required, we will analyze and estimate if a standard action can be run in order to facilitate your localizations.

This could vary from simple advices to entry point creation or, in some cases, standard evolutions that should be planned for future updates.

Fixed asset calculation mode

Fixed asset calculation is an example of the openness we want to offer in the product.

The Fixed asset module offers a large range of asset calculation modes.
Sometimes, for legal purposes, a new mode is required in a country.

We are working to add entry points enabling a skilled partner to add a new mode themselves. It is not a basic action and it requires high skill, but it is doable, and some partners are expert in this process.
If you do not yet have the skills you can deal with a skilled partner or ask Sage to integrate the new modes you require. In this last your request will be included in the list of topics eligible for the next roadmap and, if selected, developed for a future update.

Depending on your timescale the other solution offers you flexibility.

Development methodology

General purpose

Safe X3 is the platform that you will use to develop your specifications.

It integrates all the tools to develop, document, maintain, protect and deliver your software.

It includes embedded mechanisms to separate developments at three levels :

- Standard : deliver by Sage
- Vertical (Add-on), delivered by partners (sometimes by Sage) in order to reuse developments in different customer's locations
- Specific, done for a customer, by themselves or by a partner

The development platform includes settings, coding (with the Safe X3 studio platform using Eclipse), an interactive debugger.

Documentation is integrated in the tooling, and there is a native way to isolate any text in order to manage multi-language.

The platform also provides a set of functions to create and to install patches (APATCH).

It also allows to create partner licenses to protect what you have developed.

To manage the international target of Enterprise Management, don't forget that you will have to deliver what you develop also in English (ENG language). This applies to your product and to the documentation you will create.

Different platform trainings and a set of e-learning conferences are available (see with the training team) to help you learn how to develop with Enterprise Management. As with any product, you will need some practice to become efficient with the tools.

Development rules for add-ons

The technical training should have given you a detailed view of the platform and the customization capabilities it offers.

That said, Enterprise Management enables development safely at 3 levels: standard, vertical, specific.

The vertical level is shared by all partners, and without rules it means that several partners' developments cannot be installed safely on the same folder.

This is why Sage has created the Add-on methodology. Its goal is to try to avoid potential conflicts between verticals.

It will provide

:

- Naming rules
- Development rules

The naming rules will consist of a unique Add-on identifier. It is generally a 4-character string.

Any element you create in the Enterprise Management dictionary (screens, tables, classes) should start with those characters.

A range of local menus and miscellaneous tables, according to your needs, will also be reserved for your Add-on.

The identifiers will be supplied by Sage R&D when you'll request them via your Sage Partner Account Manager (or Alliance manager).

All Add-on development rules are explained in this document.

Respecting the rules is mandatory if you intend to minimize the risks of conflict when you install your development with other Add-ons.

A Webex training, animated by a dedicated R&D team, is available on demand to explain in detail those rules and to answer your questions.

Do not hesitate to ask your Sage account manager (or Alliance manager) for a dedicated session.

Development support

Throughout your development you will be supported by Sage:

- Through the Global Partner Program which includes a Developer Support plan for issues falling within the Developer Support scope. Please review all the facilities offered in this plan with your Sage account manager (or Alliance manager).
- Through ad-hoc expertise provided by the Sage Development or Functional Experts, to be discussed as needed with your Sage Partner Account Manager, for issues requiring closer support from Sage.

To help partner developing legislations Sage will provide a set of specialized source code in order to facilitate understanding and adaptations.

The distribution process of these source files has been provided since February 2016.
If you join the legislation development group please contact your alliance manager or Sage Product Management marketing contact to be integrated.

Note: Source code will be delivered only if the localization contract is signed

Here is the list of source code that will be delivered.

Note: These sources are not delivered in the standard patches and if you are not very cautious you may encounter a mismatch between source code (src) and precompiled code (adx) if one of them is delivered in a patch and the source has not been updated.

To avoid this issue we will deliver the source code in an external tool that will help you to highlight all differences between versions and patches, and avoid mismatch issue.

After it is your responsibility if, for debugging purpose, you copy a source file on an Enterprise Management folder and forget to delete it after the debugging operation.

Scripts (based on U9 version)	Function
CPTAUTO TRTPCE CPTINIVAR CPTBATCH	Automatic journal
FICMAG PAYCPTA PAYPROPAL PAYPROPAL2	Payments
CNVECAR	Currency variances
RTZCALREG RTZCALFAC RTZCALCOM RTZPROFAC	Ritenzione
INVDEPLIB PAYDEPLIB PAYDEPLIB2 PAYDEPLIB3	Discount/Charges management

TRTDIVDEP	
DCLVATFRA	French VAT declaration
Scripts (based on U9 version)	**Function**
GLOBIMM GLOBI* GLOBB*	Fixed assets depreciation rules (Setting and Engine)

How to protect your development

Enterprise Management is delivered with a license key which controls, according to the commercial rules, the access to the package.

You can use the same system and in this case we provide you with a package called ‘partner license tool’. It is available starting Update 8.

You can download this package like a patch or ask the R&D Partner team for it via your Partner Account Manager (or Alliance manager).

It is a standalone application. You will have to install it on a laptop.

It will give you an interface that will enable to describe and protect your development.

Documentation on this product is available here : Business Partner license tool

To activate the product and be able to create your own partner licenses, you will first need to create a ‘partner file’, to sign it with your private key and to send it to Sage (this topic is explained in the Add-on rules document).

To do so you will have to send an email to the sales administration team X3order@sage.com

> **Note**: The Add-on identifier is a compulsory element of the partner license file. You need to request one if you want to use the license tool for your Add-on (See Add-on development rules)

Translation rules

Within Enterprise Management, all the texts are isolated in different tables.

This is the case for the product and for the online documentation.

This document details the process that you should follow to translate the product.

There is a dedicated chapter for documentation.

The initial translation of all texts (application and documentation) is a significant task.

To translate completely the product will represent a workload of

- around 320,000 words for the product
- around 3.500,000 words for the documentation

As a first step, it may be reasonable to consider translating elements that are critical for demonstrating the product, that is, functions you will demonstrate, and visual processes.

This document provides the method we recommend for translating the product.

Keep in mind the fact that translation is an ongoing process.
New texts are created in each Update, and potentially in each patch.
You need to keep your translation up-to-date.

Documentation

The technological platform includes functions used to manage the documentation.

Each field and each function of Enterprise Management can be documented using the **GESADO** function.

Here you will find the link to the Online help center for the GESADO function.

A partner who wants to translate the documentation can extract it using this function (GESADO) and directly translate in the generated html file.

There are number of translation tools in the market. They will help in operational translation, will hold your translation memory and will highlight differences so you only need to review changes. For your information, the Sage translation team use TRADOS.

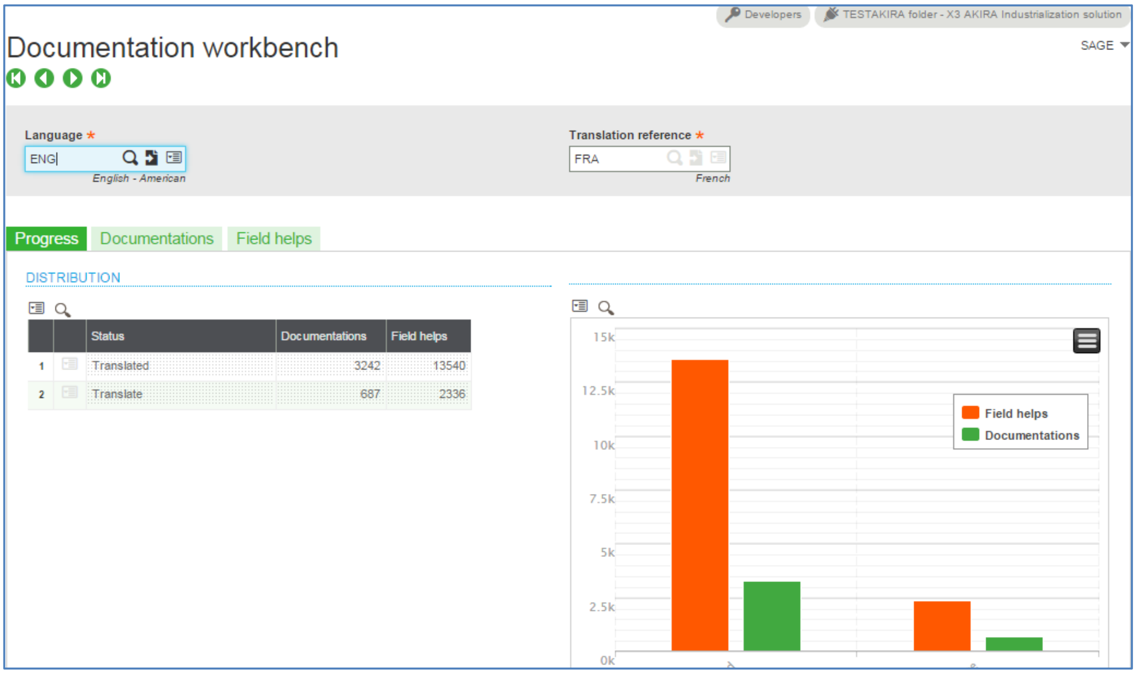
There are guidelines explaining how to write documentation.

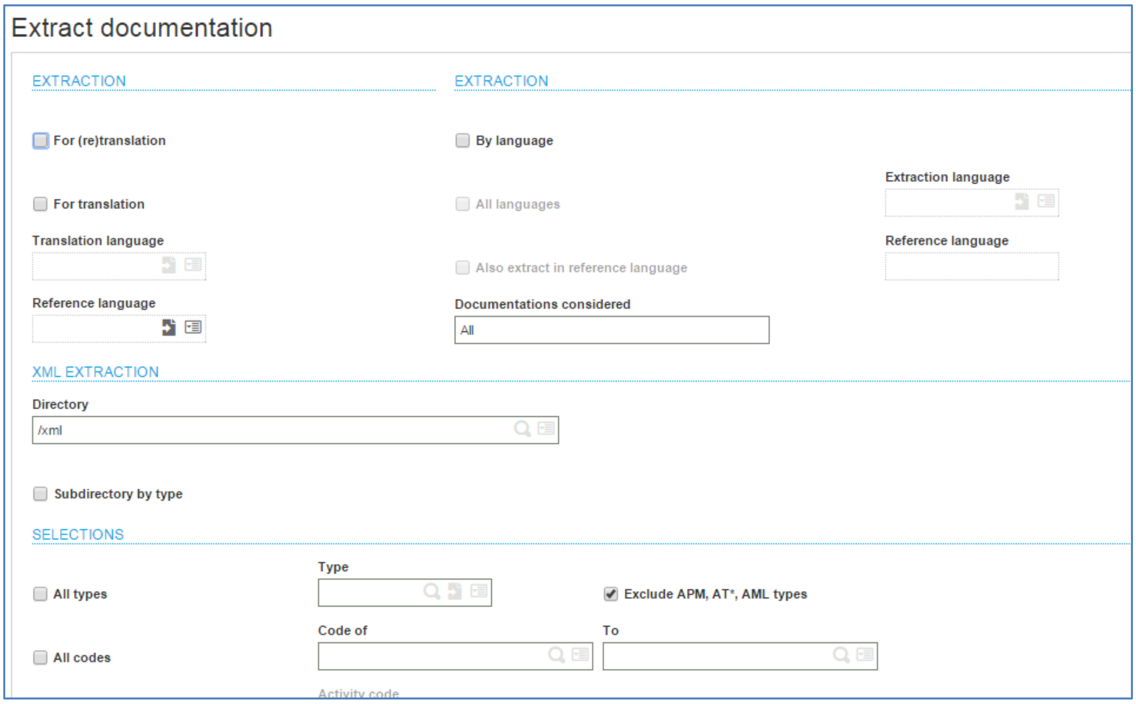
There is a set of functions in the Translations/Documentation menu that allows you to translate the documentation and to see where you are in this process.

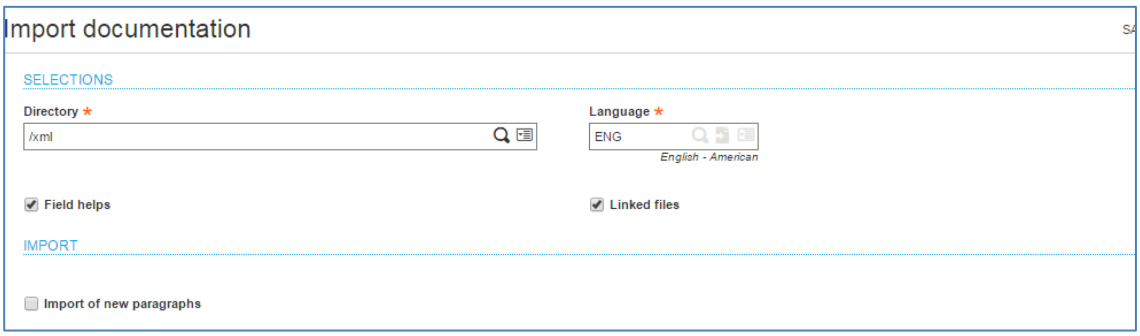
The first function is the Documentation workbench (ADOCTRA function). Starting from a reference language it will calculate the completion percentage of the translations according to various criteria. It can also be used to extract the list of elements which you have created.

Here is the documentation.

The documentation can also be exported and imported using the **ADOCEXT** and **ADOCIMP** functions.


Developers
TESTAKIRA folder - X3 AKIRA Industrialization solution
Documentation workbench
SAGE
Language *
ENG
English - American
Translation reference *
FRA
French
Progress
Documentations
Field helps
DISTRIBUTION
Status
Documentations
Field helps
1 Translated 3242 13540
2 Translate 687 2336
15k
12.5k
10k
7.5k
5k
2.5k
0k
Field helps
Documentations

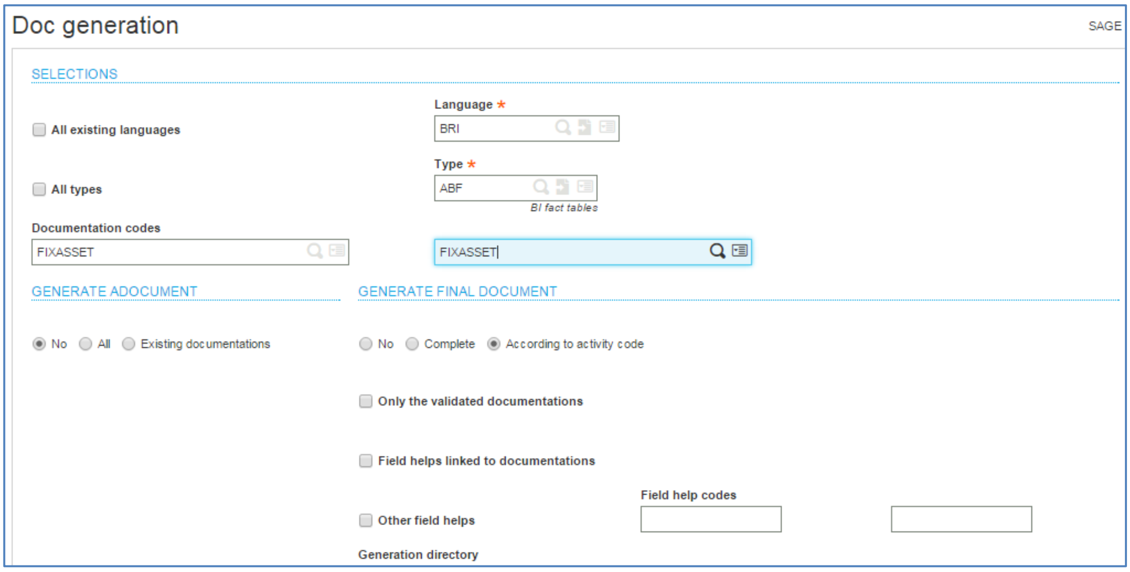

Extract documentation
EXTRACTION
EXTRACTION
For (re)translation
By language
Extraction language
For translation
All languages
Translation language
Reference language
Also extract in reference language
Reference language
Documentations considered
All
XML EXTRACTION
Directory
/xml
Subdirectory by type
SELECTIONS
Type
All types
Exclude APM, AT*, AML types
Code of
To
All codes
Activity code


Import documentation
SELECTIONS
Directory *
/xml
Language *
ENG
English - American
Field helps
Linked files
IMPORT
Import of new paragraphs

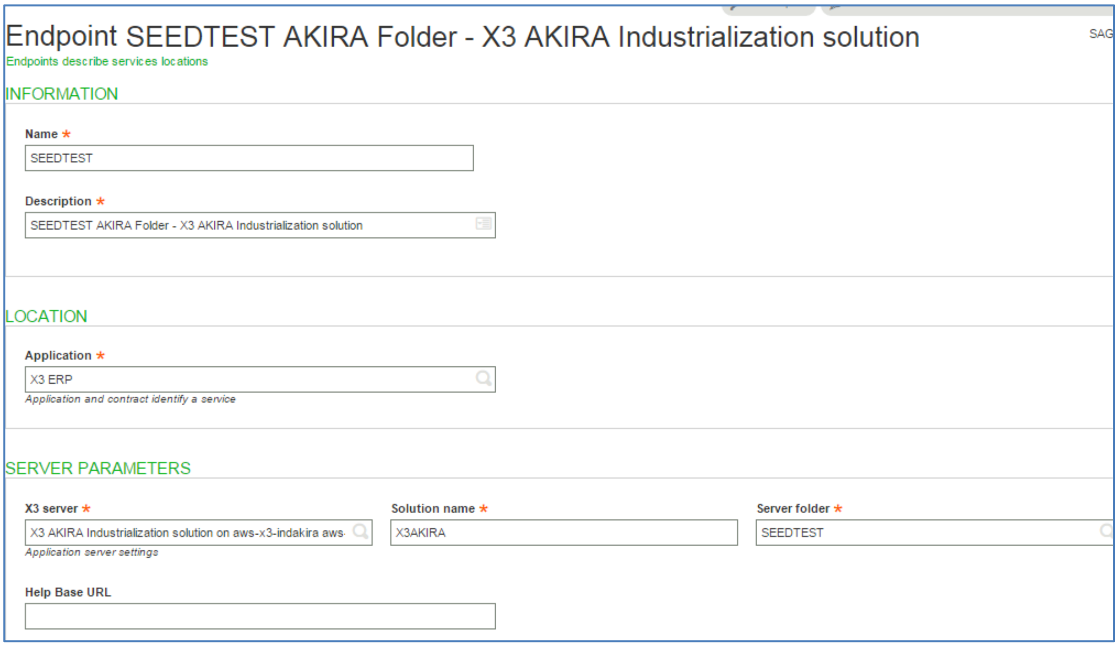
When a partner adds new documentation or translates some existing documentation, the process to deliver it on a customer site is:

- Create a documentation patch (see next chapter);
- Install the patch on the customer site;
- Generate the documentation locally on the customer site.

For this you will need to use the **Generation** action in the GESADO function.
You will have to choose the documentation you want to generate (you can also filter the documentation based on given activity codes).
The documentation will be written in the directory corresponding to the value in the **DIRDOC** general parameter.



When the documentation is generated, if you want to use it with your Enterprise Management client, you have to add a setting in the endpoint definition and populate the Help base URL field.



In this case, when you use the Online help center to access a documentation, it will:

- Check if the documentation is available locally, and, if this is the case, display it
- Otherwise, use the documentation on the server.

This is why it is in your interest to only generate what you need locally (documentation in a new language, new documentation, documentation which you have added chapters to).

Important! In this case, it can be different from the documentation available in the server if modifications have been made to the standard.
To avoid, this you should regenerate the local documentation with each Enterprise Management Update.

For the future, we are thinking of a global documentation platform for Sage and partners.

Of course you will be informed when this interesting project starts.

Packaging and delivery process

Patch creation

Enterprise Management includes a set of functionalities enabling the creation and distribution of patches.

As seen in the chapter on development, the development tool includes the concept of ‘Activity code’, which should be used to mark all your development.

Creating the patch of your legislation will consist of collecting all the distributable files:

- Your development (including reports);
- Your settings;
- Authoring and Syracuse administration settings;
- Documentation;
- Translation in the language you have added.

How to patch developments and settings

The basic function to create a patch is the Patch creation function (APATCH).

This function selects and extract a set of elements developed with the technological platform. Each element is associated with a ‘type’ (simple or complex) and you will have to provide the key associated (name of the element). All that is developed with Enterprise Management can be patched.

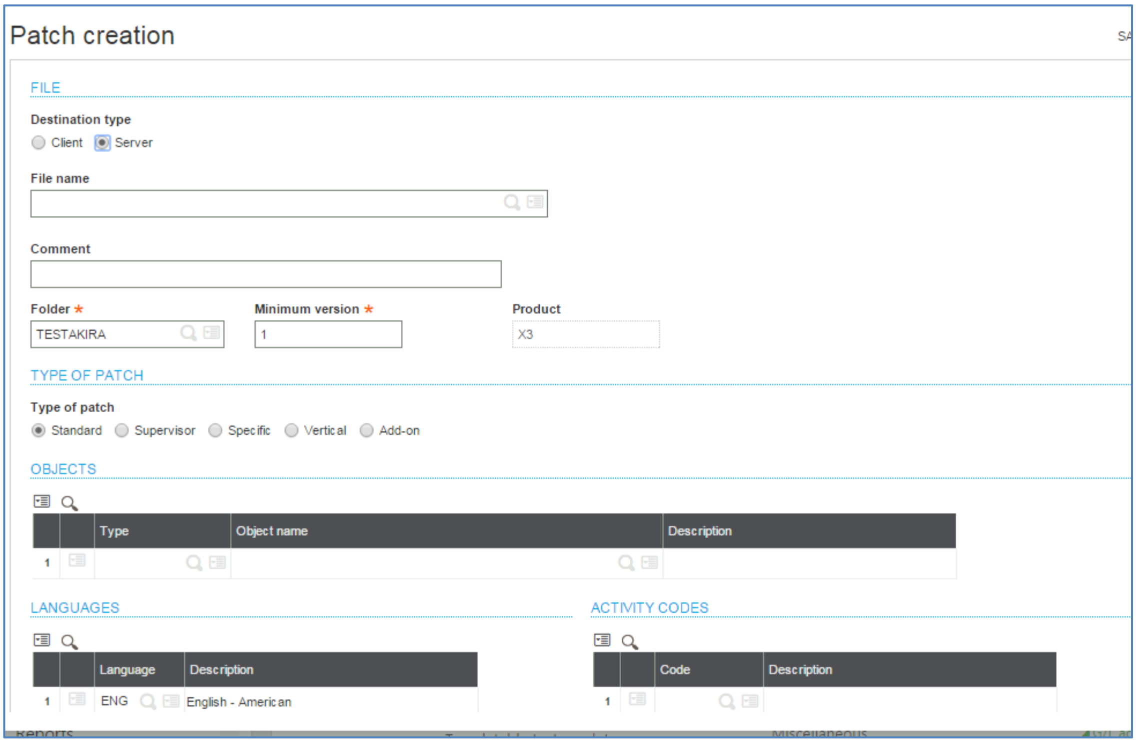
The online documentation gives the necessary information on how to use this function.

You will notice that there are different types of patches, corresponding to different behaviors that will be applied when you integrate your patch list on a customer site.

In your case, we recommend that you use the ‘Add-on’ type. It will protect any vertical development that is already installed.

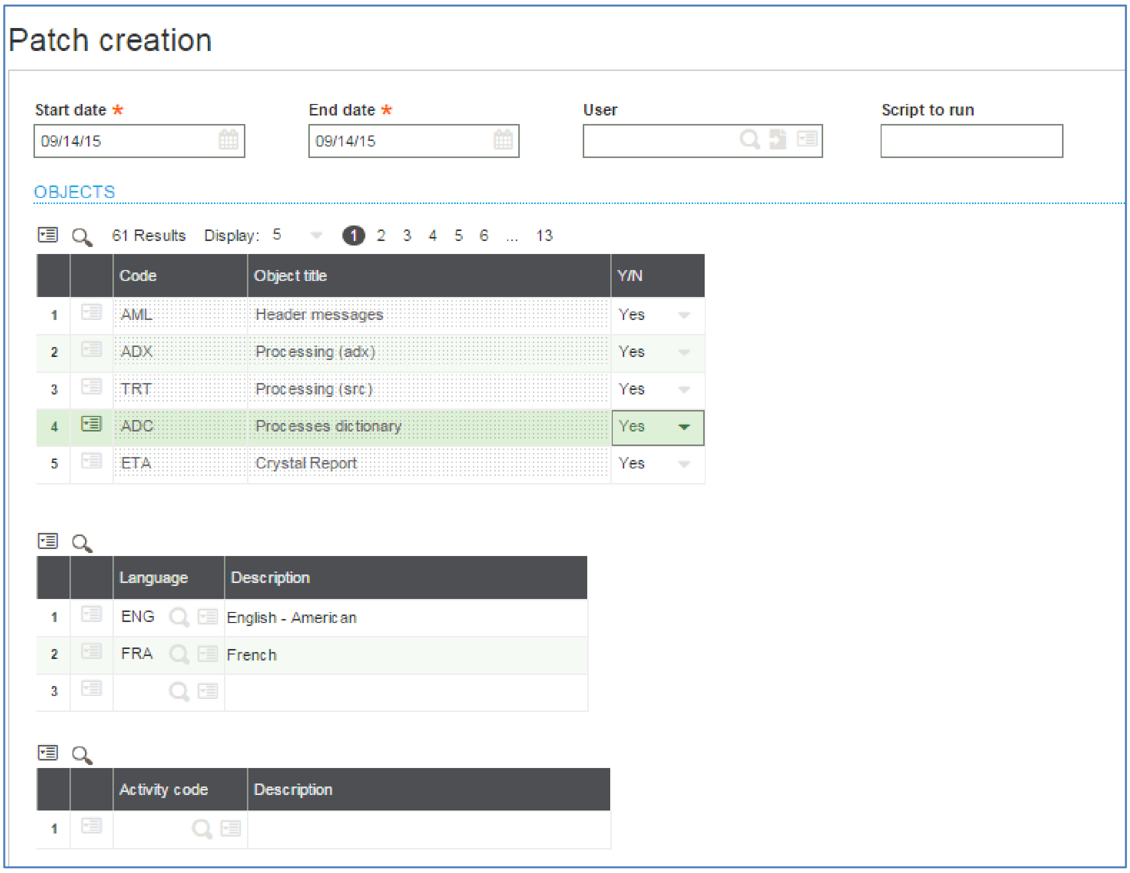
A patch list creation is declarative process. To use it, you will have to give a list of elements to patch. The Automatic patch creation function will help you draw up the list.

You can define a minimum version to which the patch can be integrated. If you complete the VERSION field, the version will be controlled on patch integration.



[Automatic patching](#) might help you list all the elements that you have modified/created according to:

- A time range;
- A list of Activity codes.



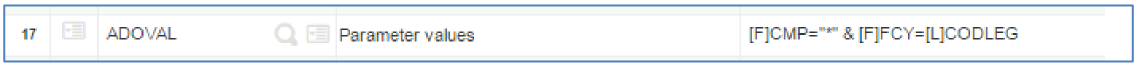
To include your settings in a patch, there is a useful function, Setup templates (GESAPH) which allows the creation of a patch of your legislation settings.

This [function](#) allows all the legislation settings to be grouped in a single place.

It uses '[data models](#)' (GESAWM function) which define groups of tables working together http://online-help.sageerpx3.com/erp/staticpost/data-models/.

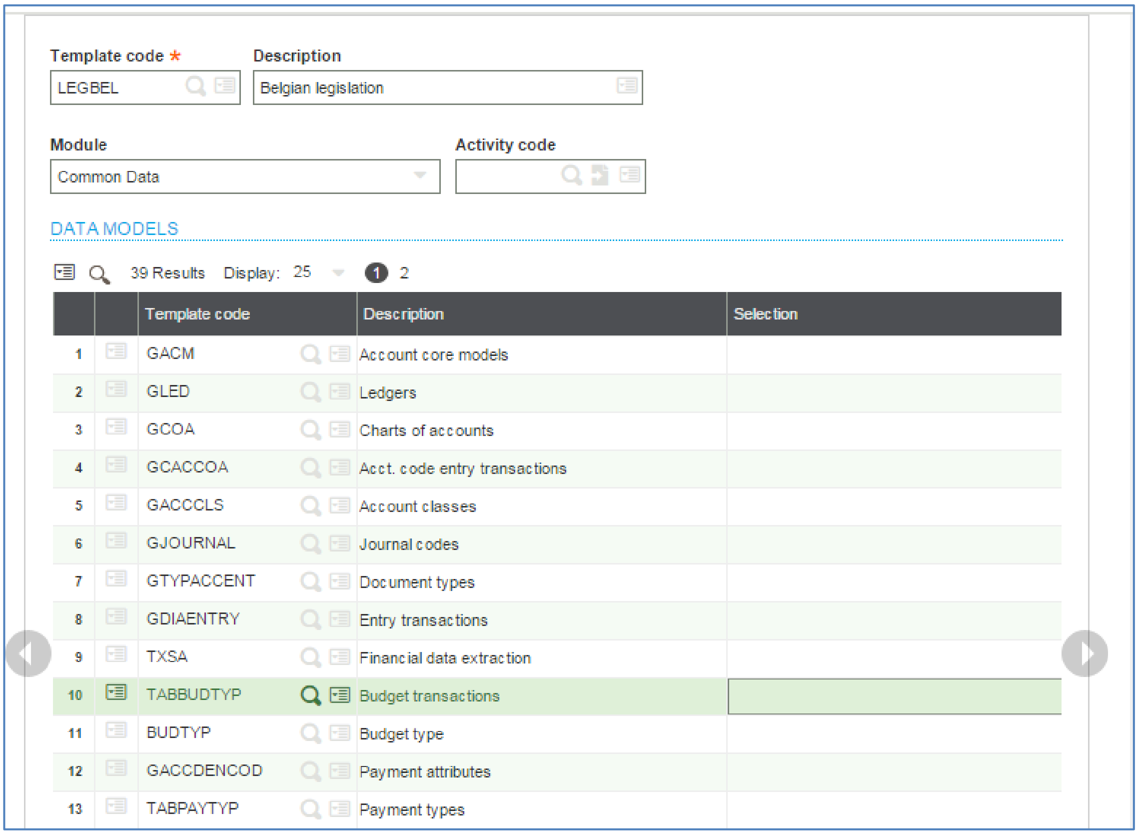
For each data model, a legislation field can be defined. This makes it possible to avoid having to redefine the condition when you need to select the settings linked to your legislation.

For those tables that are not linked to a legislation, you can define a condition (here is an example).



17	ADOVAL	Parameter values	[F]CMP="*" & [F]FCY=[L]CODLEG

To use this function, we advise you to duplicate the settings of an existing legislation and to adapt them to your own legislation (LEGBEL is a good starting point).



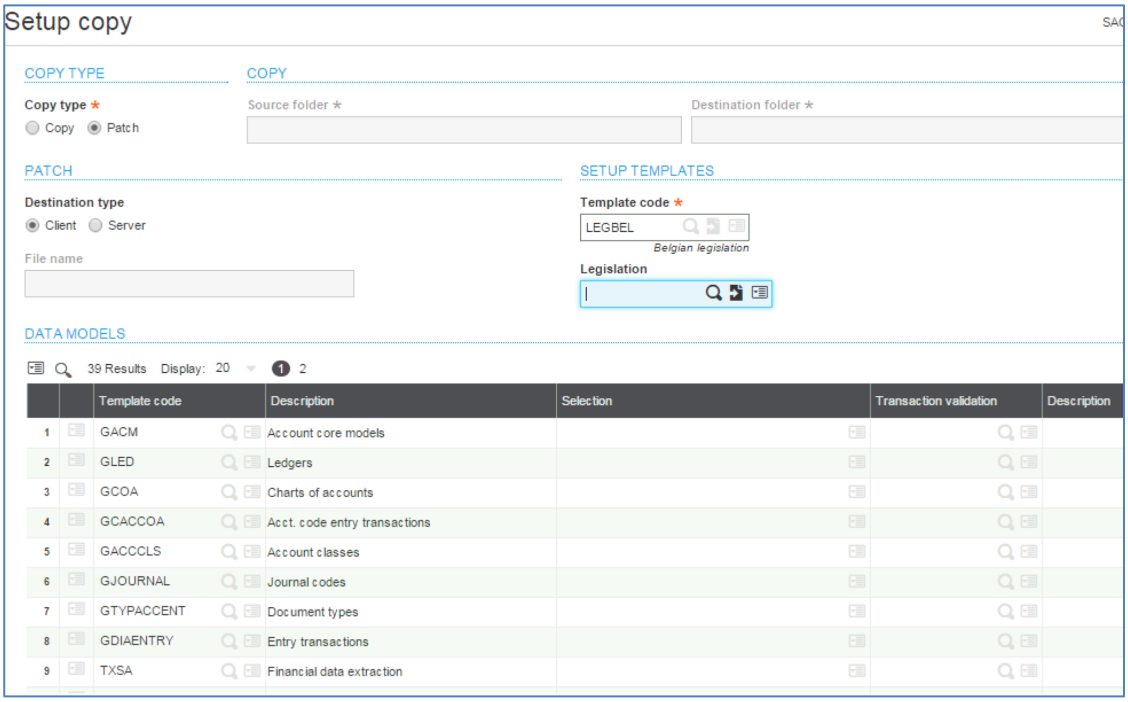
Template code * LEGBEL
Description Belgian legislation
Module Common Data
Activity code

DATA MODELS

39 Results Display: 25 1 2

	Template code	Description	Selection
1	GACM	Account core models	
2	GLED	Ledgers	
3	GCOA	Charts of accounts	
4	GCACCOA	Acct. code entry transactions	
5	GACCCLS	Account classes	
6	GJOURNAL	Journal codes	
7	GTYPACCENT	Document types	
8	GDIAENTRY	Entry transactions	
9	TXSA	Financial data extraction	
10	TABBUDTYP	Budget transactions	
11	BUDTYP	Budget type	
12	GACCDENCOD	Payment attributes	
13	TABPAYTYP	Payment types	

The Set up copy function ACOPAPH can help you test a patch creation or a copy of your legislation settings.



You can also choose to add to the patch creation (APATCH function) a line with the APH code (setup models) and select the one you have assigned to your legislation (LEGXXX for example if XXX is your legislation code).

How to patch authoring and administration settings

You will have to create an export to be able to deliver the authoring and the dashboards that you should have created with your customization.

It is important to notice that starting with Update 8, the concept of ‘factory owner’ makes it possible to identify all your customizations in the Syracuse administration. We advise you to use this concept which is also interesting because it protects your standard delivery and forces customizations to be saved separately.

As you have seen in the training course and in the Add-on development rules, the Factory ID is defined in the security profile function in the Syracuse administration pages.

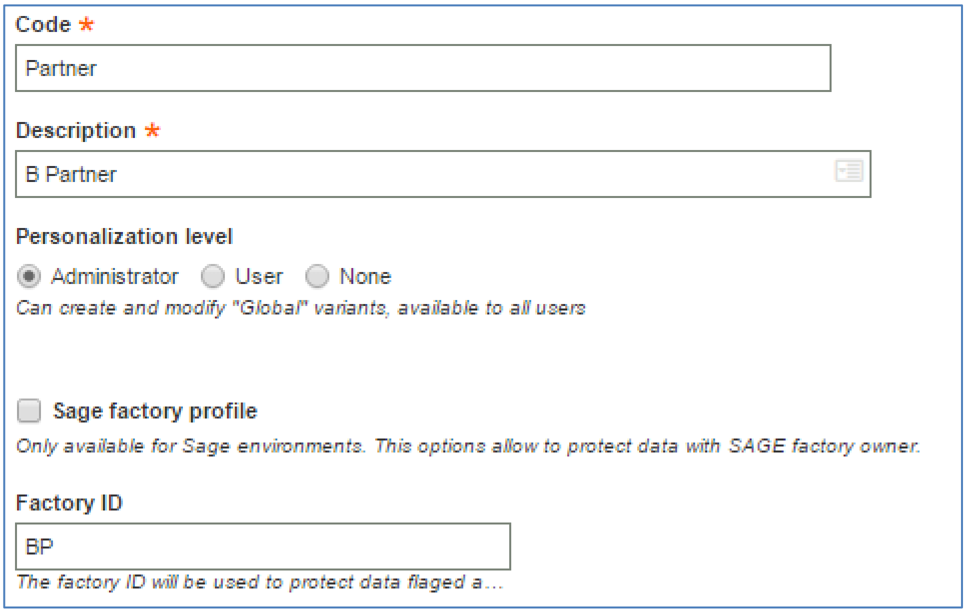
> **Note**: To activate this option, a special setting must be defined in the **nodelocal.js** file

You have to add

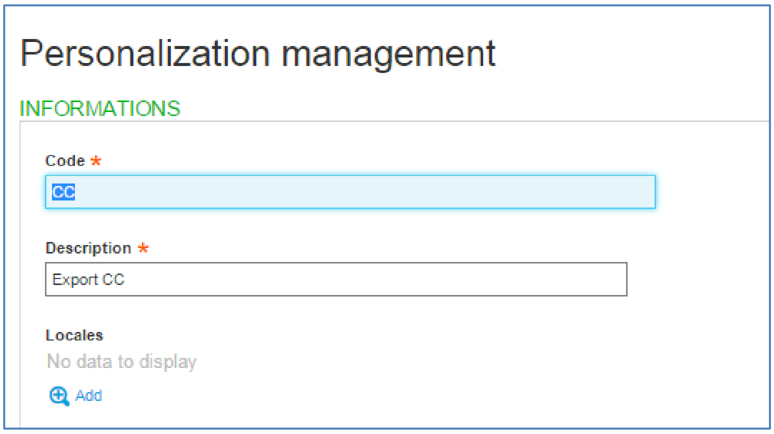
```
enablePartnerFeatures: true,
```

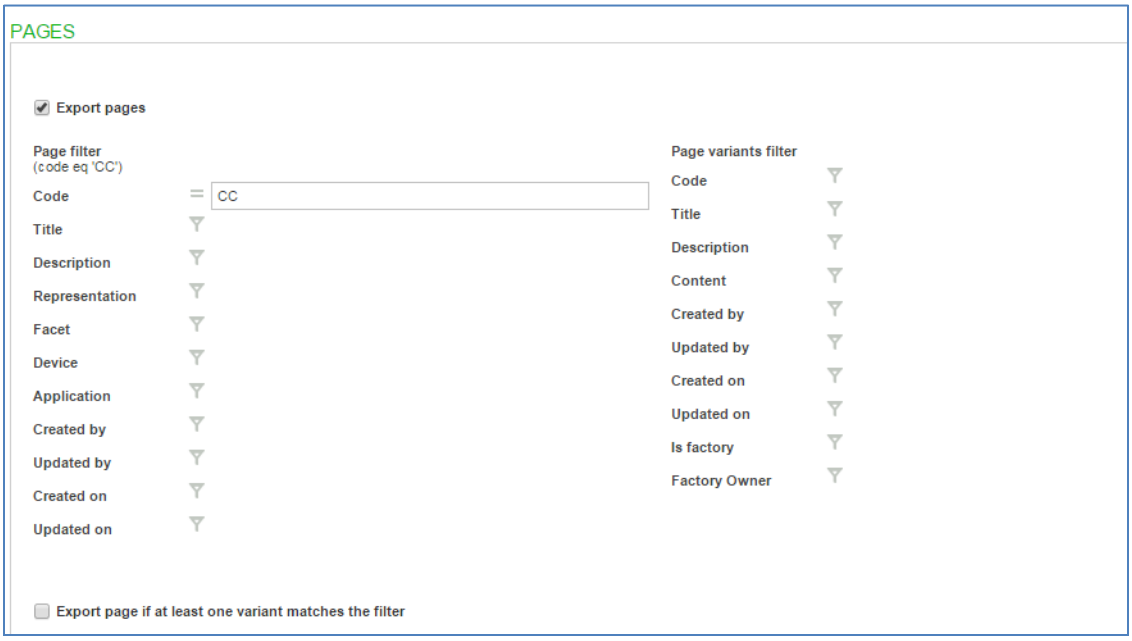
And then stop and restart node.

(Refer to the technical documentation)



The export uses the Personalization management function.

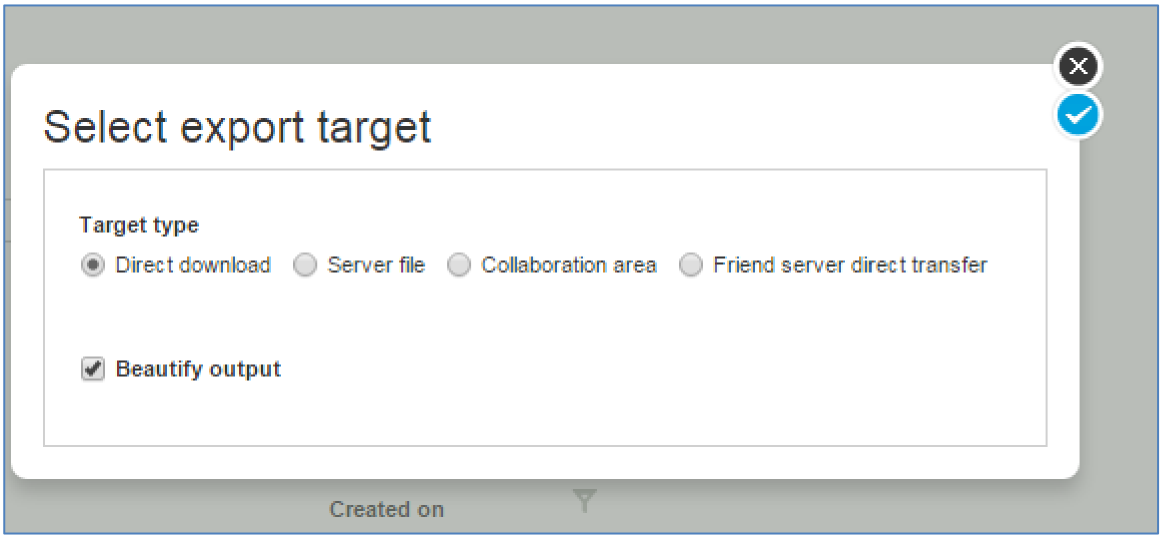


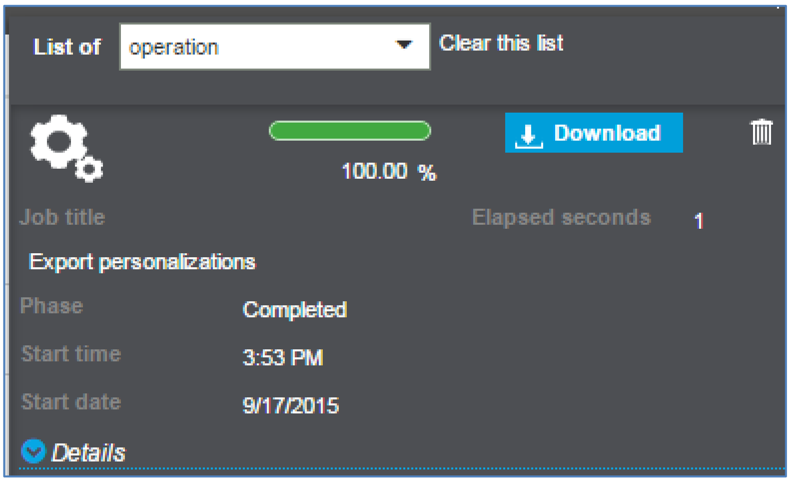


You will need to select the dashboards, pages, navigation pages, home pages, menus you want to export. As advised in the rules, all your customization names:

- Should start with your Add-on identifier (example : XX07);
- Should be marked with your Factory ID (example : XX07LEGT).

You can export using any of these criteria.
The result will be a json file that you will have to import on the customer site.





How to patch documentation

Documentation is patched in the same way as developments or settings. It is associated with the ADO element type in the patch creation.

How to patch translation

A translation patch is specific. You cannot use the standard mechanism to patch a full translation.

> **Note**: All the information necessary to deliver a global translation is provided in the associated chapter and the related documentation.

We advise you to patch the translation separately.

To have the translation available for each new folder that you will create, you will have to patch ATEXTE and APLSTD tables on the Application folder as well. It is an exception to the principle that you should never work in the application folder which is reserved for the standard.

Patch delivery

When you'll have created your patches for legislation and translations it is important to define the integration methodology on a customer site.

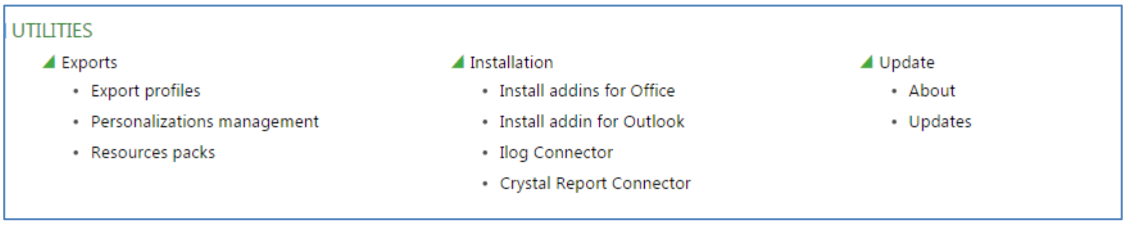
Situation is different if it is a first implementation or it is an update of a previous version.

Let us examine both cases.

First delivery

You need first to check if the customer environment is at the right version and patch that you are expecting.

Starting with Update 9, in the Syracuse administration pages you will find an 'About' features in the Utilities menu that will let you see what is installed on each end-point.



Technical information

Web server version 9.1.12-0

Comment origin/ambassador-p1 12 16/09/2015 22:29:57,53

Source version 461760bbf13727b8cf42f2e097d8328db1fe2bfa

Rollout version 976c1c70f84188fe7faa77de61c2175e6607968b

Streamline data {"fibers":true,"fast":true,"cache":true,"verbose":false,"aggressive":true}

X3 endpoints

11 Results Display: 50

Dataset	Description
SEEDPOR	Folder SEEDPOR - Solution industrialisation HRM V7
SEEDZAF	Folder SEEDZAF - Solution industrialisation HRM V7
SEEDAMBAS	SEEDAMBAS Folder - X3 AMBASSADOR Industrialization solution
SEEDTEST	SEEDTEST AMBASSADOR Folder - X3 AMBASSADOR Industrialization solution
SYREXA	SYREXA Folder - X3 V7 Industrialization solution
TESTAMBAS	TESTAMBAS Folder - X3 AMBASSADOR Industrialization solution
GXDEV	GXDEV folder - GEODE Development solution

About

Product update

Application

Product update 9.0.0

Release 60

Supervisor version 19v.153

Server

Runtime version 19r.105

Technical information

Connection

Solution X3AMBAS

Http address http://aws-x3-indambas.sagefr.adinternal.com:80/Adonix_X3AMBAS

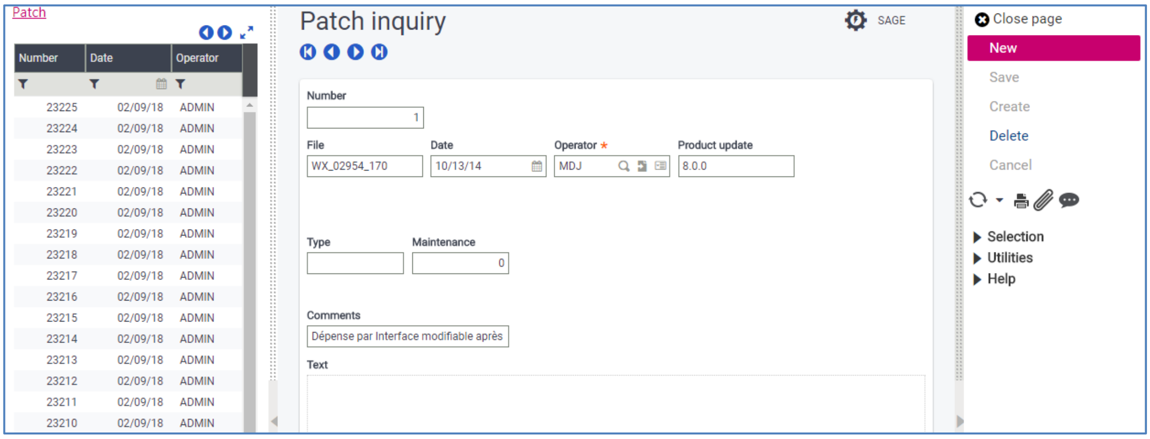
Process server AWS-X3-INDAMBAS.sagefr.adinternal.com

Application server AWS-X3-INDAMBAS.sagefr.adinternal.com

Folder TESTAMBAS

Service 20190

With version prior to Update 9, you will have to use the patch inquiry function (GESAPT) to obtain this information.



After this verification we will advise you to check the presence of the locales associated with your legislation and localization:

- locale language definition in Syracuse;
- language code (GESTLA function) in the application folder and in the applicable folder;
- legislation code (Miscellaneous table **909**) in the applicable folder.

Step 1 : In the Syracuse administration : Add the locale definition (see Add language documentation)

Step 2 : In the application folder and in the applicable folder add the new language code in the GESTLA function

Step 3 : Update the application folder with the patch of the ATEXTE and APLSTD table (see Add language documentation)

Note: Updating the Enterprise Management folder with the texts in the new language enables you to create new folders in the same solution to be able to directly set the new language without manipulations.

Update of an existing installation

In this case all the locales are already created and you are sure you can install safely your updates.

As for a first delivery you need first to check if the customer environment is at the right version and patch that you are expecting.

Now you will have to follow the generation steps that are explained in the language management documentation. It includes a VALDICO operation that could be long (several hours).

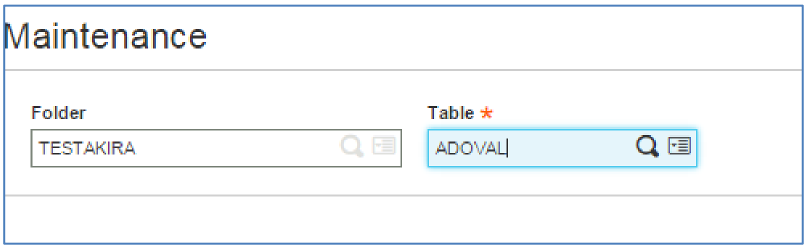
For the second step you will have to install your patches in the applicative folder.

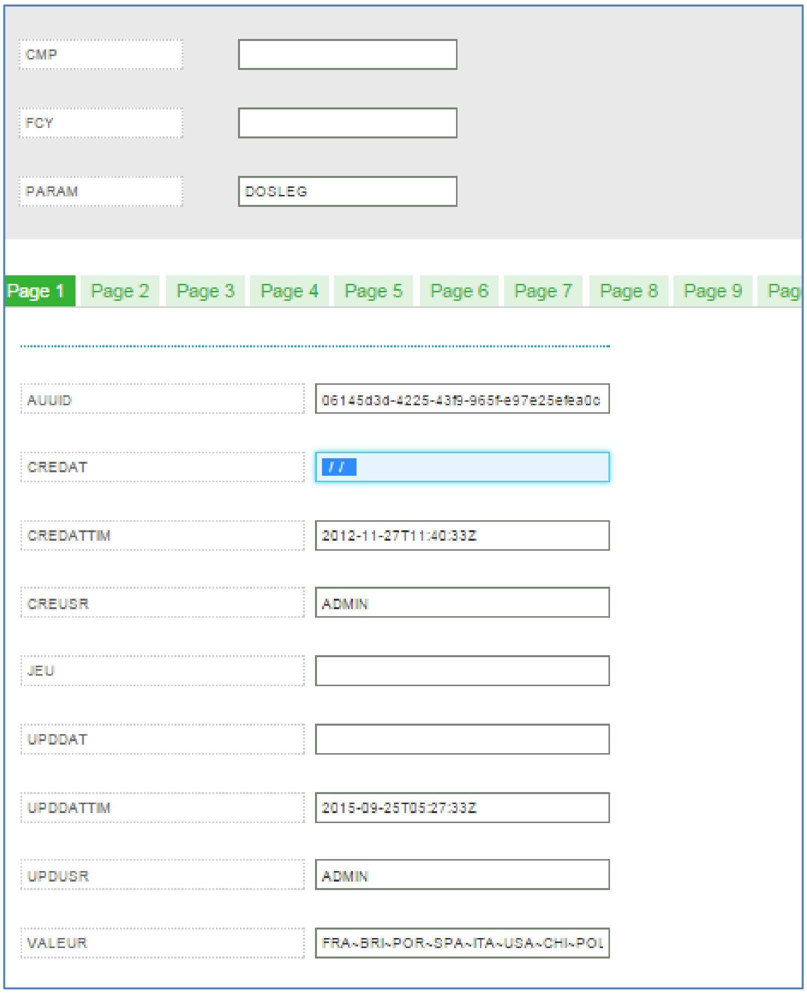
At this stage, check that Miscellaneous table **909** includes your legislation code. If not add it manually.

Go to the folder management (GESADS), add the new legislation in the folder.

At this stage normally you shoud validate the folder to include the legislation, but as you have installed all that is needed, and because it is a very long operation, there is a shortcut.

You must update the **DOSLEG** parameter to add the new legislation. You can use the table maintenance (GMAINT function).





And add your legislation at the end of the **DOSLEG** parameter with a preceding tilde '~'. For example if **DOSLEG=FRA~ENG** and you want to add YTU legislation, you should modify **DOSLEG** to be:

DOSLEG= FRA~ENG~YTU

Note: A routine will be proposed in the future to do it automatically.

Now you have completed the tasks on the application folder. You need to install your Syracuse patch containing the authorings, and dashboards you have patched.

If you have used the partner license key tool, you must also load your license.

Legislation test methodology

Testing a legislation requires a methodology to be followed.

First, you need to create a patch. Then, you need to install this patch outside of your development environment.

This will guarantee that nothing in the patch has been forbidden/excluded.

Usually this is an interactive process and we recommend that you take advantage of it to write a detailed installation procedure, especially if manual actions are necessary.

The new legislation should work installed as standalone (the only legislation in the folder) and also with other legislations installed in the same folder. Your tests should aim at checking the behavior in these various cases.

The functional and legal tests that you have to run on the new legislation have to be defined according to the specifications.

> **Note**: The document ‘How to test a new legislation’ provides guidelines on how to proceed according to Sage experience with standard legislations. It may be adapted according to your context.

Cartography

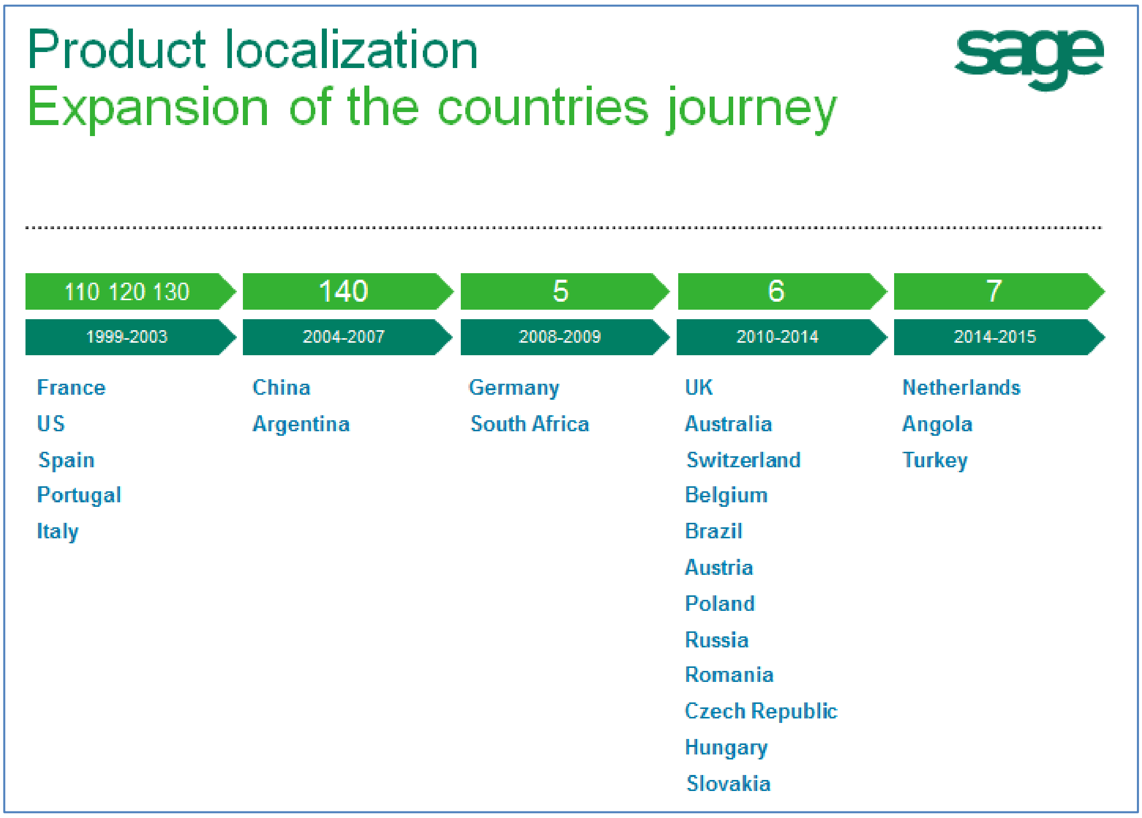
Cartography outlines must-haves for each country.

A must-have is what is needed to implement Enterprise Management successfully in terms of local regulations. Must-haves mainly concern financial aspects.

Must-haves differentiate one accounting system with another.

Independently of whether those features are core or additional to core, cartography also gives a basic description of the solution provided to the end user.

After each legislation development, is necessary to update the cartography document.



Must have categories

Categories allow to group must-have in a consistent way for a better understanding

Category	Definition
Legal pre-settings	Contains the basic accounting core model, COA or sample COA, tax codes, payment mode… mostly used in each country.
Taxes and VAT	Management of taxes until tax extraction. According to some regulations, Taxes and VAT submission may require a Third Party software
Intrastat / ESD	UE goods and Services declaration
Bank file compliancy	When a file format is ready to use out of the box whether it is an inbound or outbound flows. Bank file compliancy never includes transmission protocol or electronic submission file: those solutions are national and therefore as being third party software, they are priced.
Payment Life Cycle	Refers to the payment chain, discount & charges mgt. applying on payments
Fixed Assets compliancy	Refers to depreciation rules
Other Must have	Not fitting in any of the above mentioned categories but necessarily for a local use.
Additional Regulatory Software	Additional components available from ISVs or equivalent (Sage portfolio) in order to better meet legal requirements

Must have cartography

	Angola	Austria	Australia	Belgium	Brazil	France	Germany	Mozambique	North America	Poland	Portugal	South Africa	Spain	Switzerland	United Kingdom	China	Czech Republic	Hungary	Italy	Netherlands	Romania	Russia	Slovakia	Turkey
Legal presetting		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Taxes & VAT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Intrastat / ESD		●				●	●			●	●		●		●		●	●	●	●	●		●	
Bank file compliance		●	●	●		●	●				●	●	●	●	●							●		
Payment Lifecycle		●		●		●	●		●		●	●	●	●	●				●				●	●
Fixed Assets	●	●	●	●		●	●		●	●	●		●	●			●	●		●	●	●	●	●
Other Must Have	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Additional Regulatory Software				●	●		●		●				●			●								

Examples

France

Category	Topic	Description
Legal presetting	Financial structure Accounting setup	GL Chart of accounts, accounting codes, automatic journals, tax…
Taxes & VAT	Tax management	Tax management (Local, EEC, Export flows), tax declaration (Extraction and preparatory report)
	Expense fee declaration (DAS2) including withholding tax	Expense fee declaration (DAS2) including withholding tax. Reports and magnetic file.
Intrastat / ESD	EU Intrastat	Declaration of Goods exchange within EU countries.
	EU Service Sales declaration	Declaration of Services exchange within EU countries.
Bank file compliance	Bank files and flows	Bank flows (Local transactions, local bank formats, bank statement) are delivered out of the box covering national and international compliances.
Payment Lifecycle	SEPA	SEPA SCT SEPA SDD
Fixed Assets	Depreciation method	LP: French straight-line DF: French declining LV: Straight-line beyond null salvage unit CA: Caducity/Gross value RA: Caducity/Net value FM: Forms and molds LG: Laundry
Other Must Have	Country information control	Control of key country information: Bank ID number, SIC code, EU VAT information …
	Electronic Journal Entry file	File required by the tax administration

North America

Category	Topic	Description
Legal presetting	Financial structure Accounting setup	GL Chart of accounts, accounting codes, automatic journals, tax…
Taxes & VAT	1099	Information returns (1099-MISC and 1096 forms)
	Tax report	Sales tax report
Payment Lifecycle	Check Printing	US Check Printing / Control
	AP Discounts	AP Discounts
	Bank reconciliation	Process of comparing the balance on the bank statement and the book balance of the cash account.
Fixed Assets	Depreciation method	Method UL : Straight line / Macrs Method UD : Declining method / Macrs
Other Must Have	RNI	Received not Invoiced
	SNI	Shipped not Invoiced
	Reports	Trial Balance, Customer Invoice, Aging, Customer Statement, Mono-level Standard BOMs, Sales Rep. Commission, Receipt Work Listing
	Financial Data Extract	Financial Data Extract
Additional Regulatory Software	Sage Sales Tax	Sage Sales Tax is Third Party Software and is not always required. See local price list when applicable

Portugal (1/2)

Category	Topic	Description
Legal presetting	Financial structure Accounting setup	GL Chart of accounts, accounting codes, automatic journals, tax...
	FDE setup for IES (annual declaration)	FDE setup to generate data to help IES (annual declaration) declaration
Taxes & VAT	Tax management	Tax management
Intrastat / ESD	Intrastat information	Intrastat information
Bank file compliance	Bank statement	Bank statement, national and international format
Payment Lifecycle	Draft remittance	Draft remittance
	SEPA	SEPA SCT format
Fixed Assets	Fixed asset reports	Fixed asset reports
	Accounting code lines	Profit & loss lines on FA for disposals
	Accounting funds	Grouping of accounts for legal reports
	Associations	Used to defined depreciation parameters by legal asset group
	Depreciation method	Method PC : Constant
		Method PD : Duodecimos
		Method DP : Declining
		Method DV : Mixed Declining
	Portuguese revaluation	Monetary Impairment Coefficient
	Revaluations & Impairments	Revaluations & Impairments for IAS/IFRS rules

Portugal (2/2)

Category	Topic	Description
Other Must Have	Digital signature	Digital signature for shipment, sales invoices
	Portuguese Certification with rules from 2013 + SAF-T (standard audit file) + certification II	Portuguese Certification including invoices and transports communication + SAFT + Document types for stock transactions and others and its digital signature. Available in core in Akira
	SAFT-PT	SAFT-PT. Available in core in Akira
	Fiscal folder	Fiscal declaration folder
	Periodic and year VAT declaration	Periodic and year VAT declaration
	Cash VAT	Cash VAT
	Transportation notes	Transportation notes. Available in core in Akira
	Cash flow analysis	Cash flow analysis
	Capital flow report	Capital flow report
	Requirements from oficio 50001 / 8632	Requirements from oficio 50001 / 8632.
	COPE	Payment balance statement
	End of year inventory communication	Legal requirement to communicate the inventories and the end of the fiscal year

How to maintain a legislation

Enterprise Management release cycle

Starting with Version 7, Enterprise Management has adopted a new versioning policy.
A new Update will be delivered every 6 months.

Each Update will have an independent patch list.

According to the frequency of Updates, the various patch lists will include only bug fixes and no evolution (except legal requirements).

A global maintenance policy has been defined to specify the rules for those versions that are maintained, depending on the lifecycle maintenance and support stage for that version as specified by Sage marketing and product documentation.

To facilitate the adoption of this policy, Sage is investing in an 'Easy patching' program to facilitate patch integration and version upgrade. As you have seen in the Add-on development rules, Sage provides a control program that checks the compatibility of your customization with automatic patching.

As a developer of a global add-on, you have to follow patches and updates in a reasonable timeframe so that your legislation is available for customers willing to adopt the latest releases. The timeframe fixed is a maximum of 3 months for patches and upgrades after the delivery of them. For updates, the Early Adopter Program will deliver the new release in advance in order for you to be ready on time.

Patch process

For each Update, patches are regularly produced.

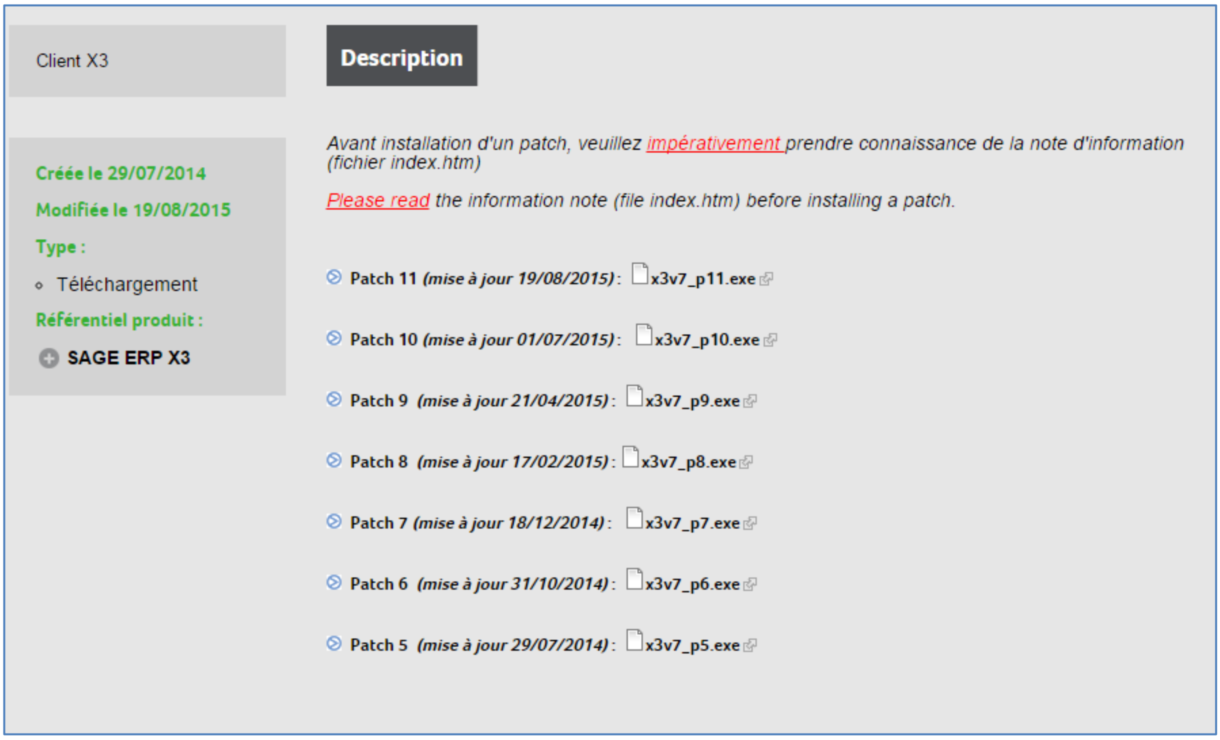
As explained in the versioning policy, these patches only contain bug fixes (evolutions only in some particular cases).

Patches can be downloaded from different Web sites according to geography.

For example, in France, patches are available for download when connecting to the French knowledge base at the following address https://bdc.sage.fr/

All Enterprise Management patches are located here and a post indicates the last updated elements. Access to this Website is granted by the French support team.

Your alliance manager will establish the link for you on request.



Patch integration is a task assigned to a partner.

Patches are not (for the moment) cumulative. They should be installed following their sequence number, one after the other.

For each patch, you will have to test your Add-on and determine if it is compatible with it. You may have changes to complete, according to compliance or bug fixing that you have performed. Consequently, you can deliver these changes as an Add-on patch in addition to the standard patch.

Normally, patches do not include enhancements, but only fixed bugs. The risk that a feature working before patch integration, and not working afterwards, is low, if you comply with the Add-on development rules. Yet this risk cannot be completely ignored.

Upgrade process

Every 6 months, Sage delivers a new Update of the product.

The partner’s mission developing an Add-on, especially a global Add-on like a legislation, is to check the compatibility and, if necessary, to adapt its legislation and its localization (there will probably be new texts to translate!) as quickly as possible.

Each upgrade contains functional enhancements that can affect your developments.

This is why upgrades cannot be fully automatic, unlike patches (this will be done with the Easy udpdate tooling coming with the product).

An early adopter program is put in place to give partners all the necessary information and provide an environment with the version a few months before general availability. For each release, the marketing team is in charge of recruiting partners to be part of the early adopter program.

This process has many advantages:

- For you:
  - You are trained earlier than everybody else;
  - You have all the information about new features before everybody else;
  - If any problem arises in the migration process, you get help from Sage;
  - You can migrate your Add-on sooner and be ready when the version is launched.
- For Sage and globally for everyone else:
  - it is a good additional test for the version before GA.

It is your responsibility, when you have tested your legislation with the new updated version, to certify that your legislation is working, to deliver the patch associated with the version, and to update any technical or marketing document linked to this operation.

Sensitive points

Workload

It is very difficult to estimate the total workload of the whole operation. The drawing-up of specifications and the development of add-ons are obviously closely related to the complexity of each legislation, the requirements of fiscal authorities, the expectations of local markets and so on. We cannot provide figures for this workload.
Concerning the product translation (screens, messages, multi-language reports etc.), and based on our previous experience in 11 standard languages, we know that achieving a good quality requires at least 200 working days (of course, this workload has to be phased).
Also, do not forget that training, mastering all the aspects of the software, writing documentation for local add-ons etc. can also be very time-consuming. Be careful not to underestimate all these tasks.

Commitment

Creating a new approved legislation is a first step.

But that is not all.
Because fiscal rules change, because Enterprise Management evolves (new functions, new settings to plan, new translations to run), because your market expectations could change too, you will have to plan regular maintenance and adaption work on your development.

It is a commitment for you to have this editor behaviour.

Approach

At last, we want to highlight that creation of a new legislation will be quite challenging for you.

It might be easier if you already have an experience of Enterprise Management implementation or if you appeal to recognized experts for this project.

Documents referenced

All the documents referenced in this guide are stored in the Enterprise Management Online help center. They may be updated with new versions or changes in Enterprise Management. We invite you to regularly check these documents if you need them.

To access these documents you need to be connected to Enterprise Management.

The main document (this one) is How to develop a legislation

Check dates on the front page.

The other documents referenced are:

- How to test a legislation
- Add-on development rules
- New Legislation Reference Setting
- Installation procedure

The online documentation for prerequisites can be accesses at the following urls

- Example of Product requirement
- Business partner licence tool
- How to write the documentation
- How to add a non standard language
- How to personalize landing pages