

ATP Script Assistant

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Installing the ATP Script Assistant

Install one of the X3 patches as required from the Development > Utilities > Patches > Patch integration menu on the folder where you wish to use ATP Script Assistant.

- src_ATP_Script_Assistant-xxxx_X3_ADX.dat : Version with compiled processes for X3 (xxxx is the version number)
- src_ATP_Script_Assistant -xxxx_GX_ADX.dat : Version with compiled processes for GEODE (xxxx is the version number)

Install the Syracuse patch for X3 from the menu Administration > Utilities > Imports > Import tool :

- Syracuse_ATP_Script_Assistant_Menu.json

Or create a menu entry pointing to the (classic) ATP Script Assistant function and add the menu entry to the Exploitation module (necessary as this is the only way to work with classes/representations).

If you are not logged in with an ADMIN profile, add functions XATP and XATPV to your function profile to be able to use the program.

Running ATP Script Assistant

The ATP Script Assistant program is a wizard for generating an ATP script (.feature) from a classic function or a Syracuse function.

Since version 3.3.01, the file extension is now “.txt” to prevent the browser from freezing when transferring the file to the client workstation. Simply rename it to “.feature” once on the client workstation.

This program can be run directly from a classic function via the menu :

- ⇒ Utilities > ATP Script Assistant
- ⇒ Via the ATP Script Assistant function (menu Usage > Usage > ATP Script Assistant)

For a Syracuse function, you can only use the ATP Script Assistant function (menu Usage > Usage > ATP Script Assistant).

Launch screen – ATP Script Assistant

Options

Screen value

☒

Mandatory area only

☐

Filled field only

☒

X3 Code only

☒

Screenshot

☐

Scenario Outline

☐

User Stored Values

☐

Max. number of lines

Empty value

Object mode

Creation

Menus/buttons

☐

Browsers

☐

GraphQL

☐

GraphQL Script

Json Script

Adds-on

Version

3.3.01

Step Definition

ATP Data Management

ATP Data Management Script

☐

File generation

☒

Table generation

☐

ATP Script Manager

Syracuse Function

Representation

Q

:

Table code

Filter

:

Legacy Function

Function

GESBPC

Q

:

Customers

Out of Function

☐

Window

OBPC

Q

:

Customer

Screens

Q

9 Results

Display: 50

	Screen	Description	Selection
1	BPC0	Customers	<input checked="" type="checkbox"/>
2	BPRBPC	Identity	<input checked="" type="checkbox"/>
3	BPABPC	Addresses	<input checked="" type="checkbox"/>
4	BPC1	Commercial	<input checked="" type="checkbox"/>
5	BPC2	Management	<input checked="" type="checkbox"/>
6	BPC3	Financial	<input checked="" type="checkbox"/>
7	BPC4	Ship-to customer	<input checked="" type="checkbox"/>
8	BIDBPC	Bank details	<input checked="" type="checkbox"/>
9	CNTBPC	Contacts	<input checked="" type="checkbox"/>
10			<input type="checkbox"/>

If we are in a classic function and run the generation process, the “Screen value” box is checked. This tells the process to take into account the values on the screen, instead of putting the empty value in each of the fields.

Screen value ☒

In the case of an object, you can choose the type of script (Creation, Modification or Deletion).

The most complete script is the creation script, which contains all fields

Object mode	Creation
	Creation
	Modification
	Deletion

“Mandatory area only” only takes into account fields marked as mandatory (in the screen dictionary or in classes/representations).

The “filled field only” only takes into account fields that have a value on the screen (and therefore only works if the program is launched from a classic function).

Mandatory area only ☐ Filled field only ☒

Use only Code X3 instead of zone labels

X3 Code only ☐

You can generate scripts with “Scenario Outlines” or “User Stored Values” (otherwise you're limited to entering one line). And you can choose the number of lines to be displayed. This option is only available for classic functions

Scenario Outline	<input type="checkbox"/>
User Stored Values	<input type="checkbox"/>
Max. number of lines	<input type="text" value="5"/>

The “Empty value” corresponds to the value that will be displayed in the script if there is nothing entered in a zone. The default value is XXXXXXXXXX.

Empty value

The Screenshot option lets you take screenshots. By default, it is applied after each screen block.

Screenshot ☐

The Menus/buttons and Left lists options provide sample scripts for the menus/buttons and left lists associated with the function.

Menus/buttons	<input type="checkbox"/>
Browsers	<input type="checkbox"/>

In the case of a Syracuse function, the ATP Script Assistant program cannot be launched directly. You must therefore use the dedicated function and select the representation to be used for the ATP script.

Syracuse Function

Representation

TABMAT

Q ⋮

Employees

Table code

TABMAT

ID numbers

Filter

[F:TMA]EMPNUM=700

⋮

Table code: Contains the code of the table associated with the representation, if any. Automatic retrieval.

Filter: To filter the main table to retrieve data to be put into the representation's ATP script (possibility of using the form wizard for the filter).

Formula wizard

VerifyOk

Functions

Expand all

Arithmetics

Strings

Left part 'left\$(str,nbr)'

Length 'len(str)'

Substring 'mid\$(str,nbr,nbr)'

Transform into a string 'num\$(nbr)'

Right part 'right\$(str,nbr)'

Lower cases 'tolower(str)'

Upper cases 'toupper(str)'

Transform into a number 'val(str)'

Dates

Miscellaneous

Functions

Fields and variables

Expand all

New table/view

New screen

Table TABMAT ID numbers

Global variables

Operators

Expand all

Numeric

Addition '+'

Subtraction '-'

Multiplication '*'

Division '/'

Power '^'

Comparison

Equal to '='

Different from '<>'

Less than '<'

Less than or equal to '<='

Greater than '>'

Greater than or equal to '>='

Logical

And '&'

Or '|'

No '!'

Or exclusive '?

Formula

[F:TMA]EMPNUM=700

In the case of a classic function, we select the starting function. From here, processing will evaluate the associated windows (in the case of a sales order, for example, with several input transactions, you may find yourself choosing between several windows).

The list of screens associated with the window will appear in the screen table. You can then check/uncheck the screens to take them into account or not in the ATP script.

Legacy Function

Function

GESBPC

Customers

Out of Function

☐

Window

OBPC

Customer

Screens

9 Results Display: 50

	Screen	Description	Selection
1	BPC0	Customers	<input checked="" type="checkbox"/>
2	BPRBPC	Identity	<input checked="" type="checkbox"/>
3	BPABPC	Addresses	<input checked="" type="checkbox"/>
4	BPC1	Commercial	<input checked="" type="checkbox"/>
5	BPC2	Management	<input checked="" type="checkbox"/>
6	BPC3	Financial	<input checked="" type="checkbox"/>
7	BPC4	Ship-to customer	<input checked="" type="checkbox"/>
8	BIDBPC	Bank details	<input checked="" type="checkbox"/>
9	CNTBPC	Contacts	<input checked="" type="checkbox"/>

If you ever want to use a particular window that is not directly associated with the function, you can check the “Out of function” box.

Out of Function

☐

Si la case « Hors fonction » est cochée, on peut choisir n’importe quelle fenêtre de X3.

All > Sales > Orders

Default

Window

OK

UTILITIES

HELP

DIAGNOSIS...


Using the GraphQL script.

To generate an ATP script for a GraphQL query, check the “GraphQL” box on the screen. 2 scenarios appear. One for a Query and one for a Mutation.

Enter the name of the file containing the GraphQL query (.graphql) in the “GraphQL Script” box. Enter the name of the file containing the Json (.json) response in the “Json Script” box.

GraphQL	<input checked="" type="checkbox"/>
Script GraphQL	0402A-gql-query-read-sales-quote-request
Script Json	0402A-gql-query-read-sales-quote-response

0402A-gql-query-read-sales-quote-request.**graphql**

Samples > 04-GraphQL-Samples > 0402-query >  0402A-gql-query-read-sales-quote-request.graphql

```

1  {
2    x3Sales {
3      salesQuote {
4        query(filter: "{id: 'FR0111507SQD00000001'}") {
5          edges {
6            node {
7              id
8              salesSite {
9                code
10               name
11             }
12             soldToCustomer {

```

0402A-gql-query-read-sales-quote-response.**json**

Samples > 04-GraphQL-Samples > 0402-query > {} 0402A-gql-query-read-sales-quote-response.json


```

1  {
2    "data": {
3      "x3Sales": {
4        "salesQuote": {
5          "query": {
6            "edges": [
7              {
8                "node": {
9                  "id": "FR0111507SQD00000001",
10                 "salesSite": {
11                   "code": "FR011",
12                   "name": "Comptech SA"
13                 },
14                 "soldToCustomer": {


```


Adds-on

An icon to access script management (see the chapter on ATP Script Manager)

ATP Script Manager 

An icon to print the Step Definition list

Step Definition 

1	:	a confirmation dialog appears containing the message "\$1\$" (1)
2	:	a confirmation dialog appears with the message "\$1\$" (2)
3	:	a dialog box appears (3)
4	:	a log panel appears (4)
5	:	a tracker appears signalling completion (5)
6	:	an alert box appears (6)
7	:	an alert box appears with the title "\$1\$" (7)
8	:	an alert box does not appear (8)
9	:	an alert box with the text "\$1\$" appears (9)
10	:	an alert box with the text containing "\$1\$" and the stored text value appears (10)
11	:	an alert box with the text containing "\$1\$" appears (11)


The ability to choose whether to generate the script in a file (.txt) and/or in a table (to be able to manage modifications later from within X3)

File generation ☒

Table generation ☐

ATP Data Management

The ATP Data Management function is accessed from the ATP Script Assistant screen by clicking on the corresponding icon.

ATP Data Management 

Or directly from the menu Usage > Usage > ATP Data Management

This function manages data that can be used in a script (the user launching the script must have ATP Data Management rights).

At the start of the ATP script, you'll need to insert access to the "ATP Data Management" function, pass the codes to it and retrieve the results in stored variables so that you can use them later in the script if necessary.

An example of code using ATP Data Management can be generated automatically by checking the "ATP D.M. Script" box.)

ATP Data Management
Script ☐


Codes and formulas can be found in the ATP Data Management function.

ATP Values	
Code	Description
<input type="text"/>	<input type="text"/>
EX-BPC	Example: Customer code
EX-BPC_RND_FR	Example: Active random customer code with category FR
EX-ITM_RND	Example: Random item code (without filter)

Variable values can be used, as in the following example. Each time an entry is made, the value is re-evaluated and may therefore change if this is specified in the associated Funprog.

⤴ ⤵ ⬆ ⬇

Valeurs ATP



Code *

EX-BPC_RND_FR

Title *

Example: Active random customer code with category FR

Value

Func XATPVALUE.ALEA_TABLE("BPCUSTOMER","BPCNUM",0,1000,"BCGCODE='FR' & BPCSTA=2")

Result

FR010

The ALEA_TABLE Funprog in XATPVALUE processing can be used to obtain a random value for a table field based on the following parameters:

Funprog ALEA_TABLE(ZTABLE,ZCHAMP,ZINDICE,ZLIMITE,ZCRITERE)

Value Char ZTABLE() :# Table code X3

Value Char ZCHAMP() :# Field code in the table

Value Integer ZINDICE :# Field index (in the case of an indexed field, otherwise 0)

Value Integer ZLIMITE :# Table browsing limit (0 No limit otherwise first N records)

Value Char ZCRITERE():# Table filter criteria

➔ The return variable is of type Char and contains the result of the Funprog.

So if we go back to our example:

```
Func XATPVALUE.ALEA_TABLE("BPCUSTOMER","BPCNUM",0,1000,"BCGCODE='FR' & BPCSTA=2")
```

We'll browse the **BPCUSTOMER** table to retrieve the value of the **BPCNUM** field.

As this is not an **indexed field**, we leave the index at **0**.

In the **limit**, we've set the value to **1000**. This means we'll randomly select a customer from the first 1000 records in the BPCUSTOMER table who meets the following **criteria** : **BCGCOD='FR' & BPCSTA=2** (customer category = FR and active customer).

This value is re-evaluated each time the code is recalled.

You can create your own programs under X3 (L4G) to make your tests more dynamic (for example, having a different customer for each test to create a sales order).

Fixed values can also be used, although in this case this can be done directly in the ATP script).


↕

↑

↓

↕

Valeurs ATP



Code *

EX-BPC

Title *

Example: Customer code

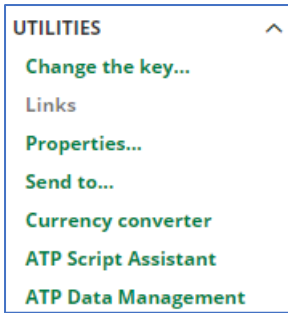
Value

"FR001"

Result

FR001

You can also use the “ATP Data Management” menu under the classic functions in the Utilities menu to create or read values directly.

A screenshot of a modal dialog titled 'ATP'. It contains two text input fields. The first field is labeled 'P' and contains the text 'EX-BPC'. The second field is labeled 'V' and contains the text 'FR001'.

If an existing parameter (P) is entered, the corresponding value is loaded into the value field (V).

If a non-existent parameter (P) is entered, a value (V) can be associated with it, and the parameter/value pair is saved.

A screenshot of a modal dialog titled 'ATP'. It contains two text input fields. The first field is labeled 'P' and contains the text 'MY_VALUE'. The second field is labeled 'V' and contains the text 'FR999'. The 'V' field is highlighted with a yellow border.

Example of use in an ATP script: (Store the value AE001 in parameter CUSTOM01/ Read parameter CUSTOM01 to store the result in a variable that can be used later in the code)

Scenario: ATP Data Management (Update)

ATP Data Management

And the user opens the header drop down

And the user opens the "Utilitaires" section on the right panel

And the user clicks the "ATP Data Management" secondary action button on the right panel

And the modal dialog "ATP" is displayed

Parametre

And the user selects the text field with name: "P"

And the user writes "CUSTOM01" to the selected text field and hits tab key

Valeur

And the user selects the text field with name: "V"

And the user writes "AE001" to the selected text field and hits enter key

Scenario: ATP Data Management (Read)

ATP Data Management

And the user opens the header drop down

And the user opens the "Utilitaires" section on the right panel

And the user clicks the "ATP Data Management" secondary action button on the right panel

And the modal dialog "ATP" is displayed

Lecture Parametre

And the user selects the text field with name: "P"

And the user writes "CUSTOM01" to the selected text field and hits tab key

Recupération de la valeur associée + Sauvegarde dans une variable

And the user selects the text field with name: "V"

*Then the user stores the value of the selected text field with the key:
"ENV_RESULTAT_CUSTOM01"*

Scenario: ATP Data Management (Exit)

Sortie ATP Management

And the user waits 1 seconds


Then the user clicks the Close page action icon on the header panel

ATP Script Manager

When generating an ATP script, you can check the “Table generation” option.

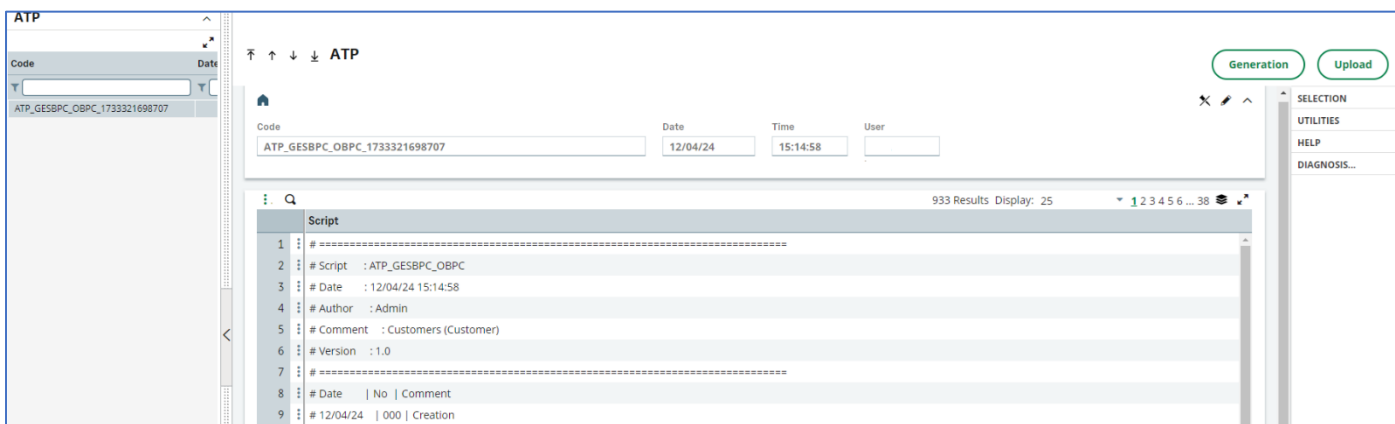
Table generation ☐

The generated script is then stored in an X3 table. It can be accessed using the icon

ATP Script Manager 

The next screen appears, containing:

- A left-hand list of saved scripts
- A central page with the chosen script (Code, Date, Time, User)
- ‘Generation’ and ‘Upload’ buttons



Script
1 : # =====
2 : # Script : ATP_GESBPC_OBPC
3 : # Date : 12/04/24 15:14:58
4 : # Author : Admin
5 : # Comment : Customers (Customer)
6 : # Version : 1.0
7 : # =====
8 : # Date No Comment
9 : # 12/04/24 000 Creation

The script can be deleted using the “Delete” button.

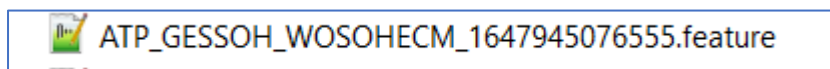
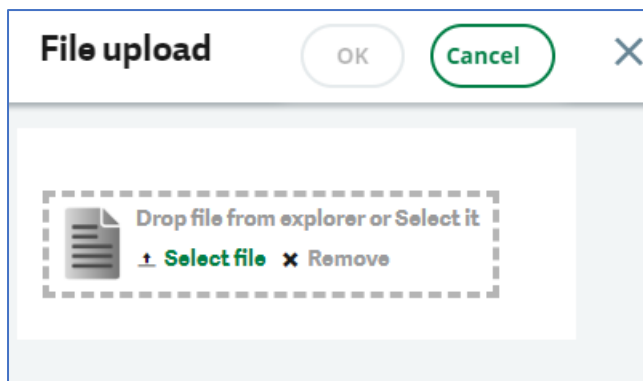
You can modify the script. The script must then be saved.

Use the “Generate” button to recreate the file (.feature).

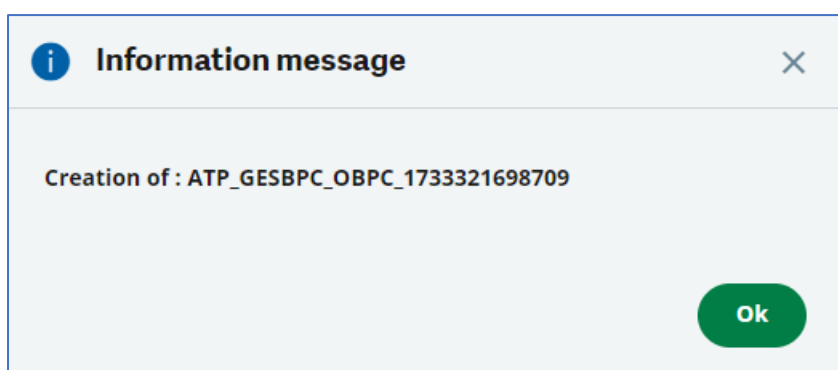
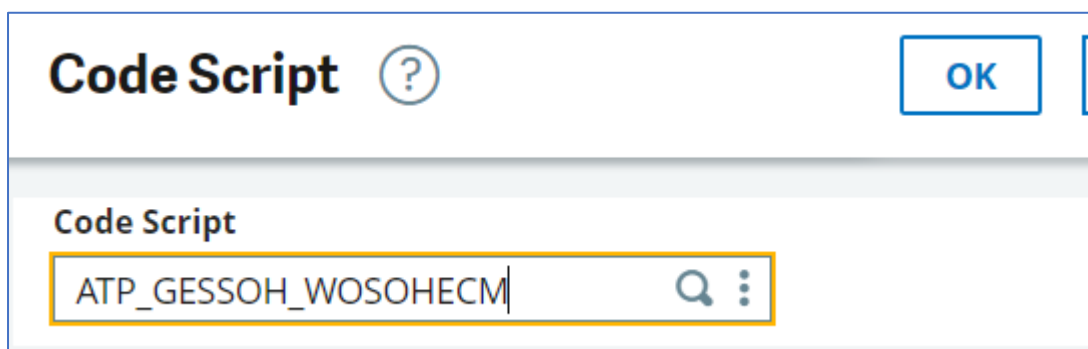
Génération

The “Upload” button is used to load an external script so that modifications can be made in X3.

Upload

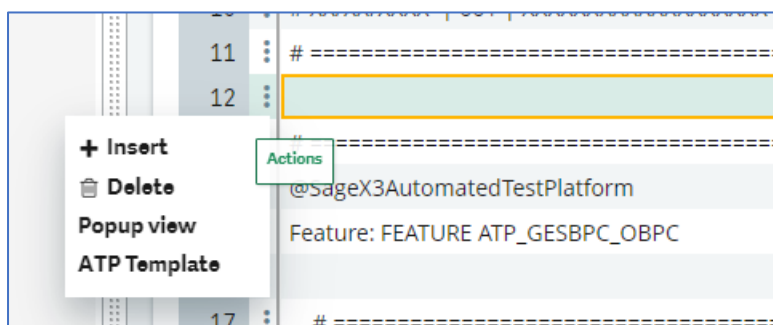


Select script code to save



When modifying a script, you can modify, insert or delete a line.

You can also add Templates to the script. To do this, position yourself on the line where the script is to be inserted and click on the "ATP Template" table menu.



This will take us to the Template management screen, where we can select the template to be applied. Voir la fonction Gestion des Template pour plus de détail).

ATP Template

No.

3



Template

Access a legacy function requesting to select a transaction - Select a transaction in a legacy function



	Instruction	Step Defintion	\$1\$
1	When	the user selects the data table in the p	
2	Then	the user selects cell with text: "\$1\$" ar	STD Standard entry
3	And	the user clicks on the selected cell	
4	Then	the "\$1\$" screen is displayed	Sales order STD : Standard entry

When you click on “Ok”, the template is transferred to the original script. All that remains is to save the modified script and regenerate the file (.feature).

13	
14	# Access a legacy function requesting to select a transaction - Select a transaction in a legacy function
15	When the user selects the data table in the popup
16	Then the user selects cell with text: "STD Standard entry" and column header: ""
17	And the user clicks on the selected cell
18	Then the " Sales order STD : Standard entry" screen is displayed
19	

Template management

Templates can be defined to reuse code as required.

To do this, go to the Template management screen

Instruction	Step Definition	\$1\$	\$2\$	\$3\$	\$4\$	\$5\$
1	When	the user selects the data table in the p				
2	Then	the user selects cell with text: "\$1\$" ar				
3	And	the user clicks on the selected cell				
4	Then	the "\$1\$" screen is displayed				
5						

The “No” field corresponds to the Template number. If you leave it blank and click on “Update”, the process switches to creation mode. You can select a number from among the registered Templates to load the associated information.

No.

The “Template” zone corresponds to the Template definition.

Template

The table corresponds to the instructions that will be added to the script (none of the fields in this table are mandatory). It is primarily a code entry wizard.

The first column contains the “Instruction”. This is a key word in the Gherkin language.

You can use the selection to help you, type the keyword or leave it blank.

No	Code ATP
900	Ability
901	And
902	Background
903	Business Need
904	But
905	Example
906	Examples
907	Feature
908	Given
909	Rule
910	Scenario
911	Scenario Outline
912	Then
913	When

The second column corresponds to the Step Definitions specific to X3. As with the first column, you can use the selection to choose your Step Definition, or type your instruction or comment (with a # at the beginning of the line).

Selection		
No.	Code ATP	Version ATP
1	a confirmation dialog appears containing the message "\$1\$"	3.3
2	a confirmation dialog appears with the message "\$1\$"	3.3
3	a dialog box appears	3.3
4	a log panel appears	3.3
5	a tracker appears signalling completion	3.3
6	an alert box appears	3.3
7	a dialog box appears with the message "\$1\$"	3.3

The last columns \$1\$, \$2\$, \$3\$, \$4\$ and \$5\$ are there to replace the \$x\$ in the Step Definition with its value in the table.

Step Definition	\$1\$
the user selects the data table in the popup	
the user selects cell with text: "\$1\$" and column header: "\$2\$"	Commande spéciale

On output, the generated script includes all the lines of the Template, with a concatenation of the “Instruction” and the “Step Definition” (so the \$x\$ are transformed).

To delete a Template, position yourself on the Template and click on the “Delete” menu. A confirmation message will appear for verification.

To modify a Template, position yourself on the Template, make the modifications and click on the “Update” menu. A confirmation will appear for verification.

MANAGEMENT	^
New	
Update	
Delete	

To create a template, either start from an empty page (by clicking on the “New” menu), or start from an existing template. Set the “No” field to 0 and click on the “Update” button. A confirmation message will appear for verification.

No.

0 🔍 ⋮

Template
New Template Creation

⋮ 🔍

	Instruction	Step Defintion
1	When	<div>🔍 ⋮</div> the user selects the data table in the

Update

A new number will be assigned automatically.

No.

67 🔍 ⋮

Template
New Template Creation

⋮ 🔍

	Instruction	Step Defintion
1	When	<div>🔍 ⋮</div> the user selects the data table in the p C