

# extenso

## Table Module



SEDNOVE

# Introduction

# What is the Table Module?

- Tool used to create a visualization of table data and to manage its data
  - Generates interfaces from Extenso tables to manage and manipulate data
- CRUD management interface
  - **List** view → Read
  - **Edit** view → Create/Read
  - **Save** operation → Update
  - **Delete** operation → Delete

# List View

**Test table**

[+ Add](#) [Refresh](#) [Copy](#) [Print](#) [Remove](#) [Filter](#)

1 / 2 10 items/page 10 / 15 entries 9 selected columns

<input type="checkbox"/>	UID ↑	Action	Text	Text (en)	Textarea (en)	Date	Test checkbox	List checkbox from list	Test list of checkbox form a table	Test pulldown from list	Test pulldown form table
<input type="checkbox"/>	1	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="25"/>	Text EN	English text 1	2022-01-24	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input type="checkbox"/>	2	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="15"/>	Text EN	English text 2	2022-01-12	<input checked="" type="checkbox"/>	v3,v5	remy	February	enrique
<input type="checkbox"/>	3	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="20"/>	Text EN	English text 3	2022-04-14	<input checked="" type="checkbox"/>	v3,v5	remy	March	thomas
<input type="checkbox"/>	4	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="5"/>	Text EN	English text 4	2022-01-31	<input checked="" type="checkbox"/>	v3,v5	remy	February	test
<input type="checkbox"/>	5	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="10"/>	Text EN	English text 5	2022-06-09	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input type="checkbox"/>	6	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="25"/>	Text EN	English text 1	2022-01-24	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input type="checkbox"/>	7	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="15"/>	Text EN	English text 2	2022-01-12	<input checked="" type="checkbox"/>	v3,v5	remy	February	enrique
<input type="checkbox"/>	8	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="20"/>	Text EN	English text 3	2022-04-14	<input checked="" type="checkbox"/>	v3,v5	remy	March	thomas
<input type="checkbox"/>	9	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="5"/>	Text EN	English text 4	2022-01-31	<input checked="" type="checkbox"/>	v3,v5	remy	February	test
<input type="checkbox"/>	10	<a href="#">Edit</a> <a href="#">Copy</a>	<input type="text" value="10"/>	Text EN	English text 5	2022-06-09	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy

# Edit View

Test table > UID 2

☰ Back to List

↓ Save



Last modification: remy @ 2022-01-24 13:15:39

Tab 1

Tab 2

Tab 3

Tab 4

**Text**

15

**Text (en)**

Text EN

**Texte (fr)**

Text FR

**Textarea**

Aliquam vitae vehicula velit. Suspendisse quis convallis mi. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce congue odio vitae urna vestibulum, in condimentum nibh facilisis. Duis id nisi sodales, ultrices augue sed, pellentesque lacus. Etiam aliquet eros vitae justo tristique, eu scelerisque nisi imperdiet. Aenean eu ipsum enim. Ut eget rhoncus eros, eu maximus felis. Nam tempus, arcu ac maximus molestie, magna tellus auctor sem, eget tempor sapien libero sit amet velit.

**Textarea (en)**

English text 2

**Textarea (fr)**

Du texte francais 2

colorpicker



# Save Operation

Test table > UID 1

Back to List Save ↻ Last modification: remy @ 2022-01-24 13:20:00

Tab 1 Tab 2 Tab 3 Tab 4

**Text**  
30

**Text (en)**  
Text EN

**Texte (fr)**  
Text FR

**Textarea**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas aliquet nunc quam, nec auctor nulla elementum in. Nam consectetur, mi id interdum interdum, magna nulla vestibulum massa, vel imperdiet dui sem eget odio. Morbi ut urna ut metus fermentum convallis vitae sed tellus. Mauris ac venenatis lectus. Donec pretium felis id dolor scelerisque eleifend. Aliquam auctor posuere luctus. Integer rhoncus dolor lectus, vel bibendum ligula fringilla non.

**Textarea (en)**  
English text 1

**Textarea (fr)**  
Du texte francais 1

colorpicker

# Delete Operation

**Test table**

+ Add | Refresh | Copy | Paste | **Remove** | Filter

Search

1 / 2 | 10 items/page | 10 / 15 entries | 9 selected columns

<input type="checkbox"/>	UID ↑	Action	Text	Text (en)	Textarea (en)	Date	Test checkbox	List checkbox from list	Test list of checkbox form a table	Test pulldown from list	Test pulldown form table
<input checked="" type="checkbox"/>	1	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="25"/>	Text EN	English text 1	2022-01-24	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input checked="" type="checkbox"/>	2	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="15"/>	Text EN	English text 2	2022-01-12	<input checked="" type="checkbox"/>	v3,v5	remy	February	enrique
<input type="checkbox"/>	3	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="20"/>	Text EN	English text 3	2022-04-14	<input checked="" type="checkbox"/>	v3,v5	remy	March	thomas
<input type="checkbox"/>	4	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="5"/>	Text EN	English text 4	2022-01-31	<input checked="" type="checkbox"/>	v3,v5	remy	February	test
<input type="checkbox"/>	5	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="10"/>	Text EN	English text 5	2022-06-09	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input type="checkbox"/>	6	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="25"/>	Text EN	English text 1	2022-01-24	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input type="checkbox"/>	7	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="15"/>	Text EN	English text 2	2022-01-12	<input checked="" type="checkbox"/>	v3,v5	remy	February	enrique
<input type="checkbox"/>	8	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="20"/>	Text EN	English text 3	2022-04-14	<input checked="" type="checkbox"/>	v3,v5	remy	March	thomas
<input type="checkbox"/>	9	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="5"/>	Text EN	English text 4	2022-01-31	<input checked="" type="checkbox"/>	v3,v5	remy	February	test
<input type="checkbox"/>	10	<input type="text" value="Edit"/> <input type="text" value="Copy"/>	<input type="text" value="10"/>	Text EN	English text 5	2022-06-09	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy

# Additional out-of-the-box features

- Copy rows
- Filter list data
- Export list data
- Global search

**Test table**

+ Add ↻ 📄 📄 📄 🗑️ Remove 🔍 Filter Search

Text  Text  Textarea  Textarea

Date From  To  Test checkbox  List checkbox from list

Test list of checkbox form a table  Test pulldown from list  Test pulldown form table  Radio from list

Datetime From  To  Datetimepicker From  To

10 items/page 10 / 15 entries 9 selected columns

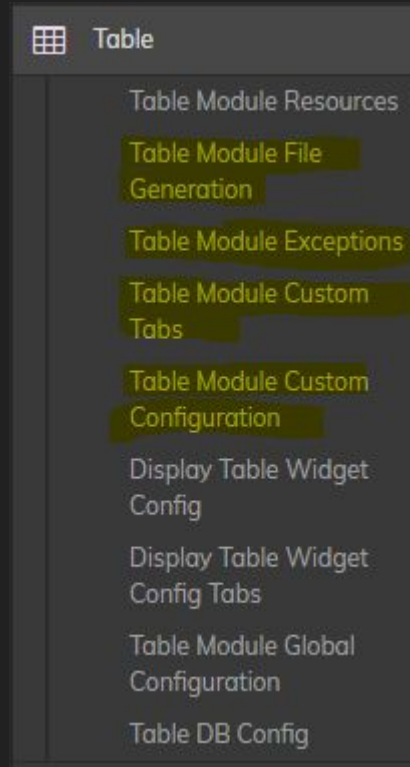
<input type="checkbox"/>	UID ↑	Action	Text	Text (en)	Textarea (en)	Date	Test checkbox	List checkbox from list	Test list of checkbox form a table	Test pulldown from list	Test pulldown form table
<input checked="" type="checkbox"/>	1	<a href="#">Edit</a> <a href="#">📄</a>	<input type="text" value="25"/>	Text EN	English text 1	2022-01-24	<input checked="" type="checkbox"/>	v3,v5	remy	January	remy
<input checked="" type="checkbox"/>	2	<a href="#">Edit</a> <a href="#">📄</a>	<input type="text" value="15"/>	Text EN	English text 2	2022-01-12	<input checked="" type="checkbox"/>	v3,v5	remy	February	enrique
<input type="checkbox"/>	3	<a href="#">Edit</a> <a href="#">📄</a>	<input type="text" value="20"/>	Text EN	English text 3	2022-04-14	<input checked="" type="checkbox"/>	v3,v5	remy	March	thomas



# Extenso Menu Items

# Extenso Table Menu

Yellow = DEPRECATED (ignore)



# Menu - Table Module Resources

- Where the resource paths are set after a table is generated
- Additional URLs: Allows you to add custom resources to also publish when publishing from this table
- Breadcrumb field: Allows you to set a specific field value rather than the UID during the Edit display



# Menu - Display Table Widget Config

- This is the table storing your widget configuration for the table module
- Allows you to:
  - Set the table to use
  - Manage file pathing and naming
  - Control file generation
  - Assign permissions
  - Set embed files (more on this later)
  - Create custom tabs

# Menu - Display Table Widget Config Tabs

- This is the table storing your widget configuration for the table module

Display Table Widget Config 21 (uid 21) 1 Display Table Widget Config Tabs uid [🔗](#) [⚙️](#)

[Return](#) [Save](#) [Remove](#)

---

**Tab Name (fr)**

If your tab name here matches the one for the Extenso table, it will add onto the existing tab as new content. Use the POSITION field to specify whether you want is above (TOP) or below (BOTTOM) of the generated fields in the tabs.

If your tab name here does not exist for the Extenso table, it will create a new tab with your content.

**Tab Name (en)**

If your tab name here matches the one for the Extenso table, it will add onto the existing tab as new content. Use the POSITION field to specify whether you want is above (TOP) or below (BOTTOM) of the generated fields in the tabs.

If your tab name here does not exist for the Extenso table, it will create a new tab with your content.

---

**ID**

Useful for CSS targeting and recommended to add here; otherwise it will be generated automatically as a pre-determined id.

---

**Content**

1
---

---

**Position**


Above or below generated tab sections and fields


---

**Parent**

# Menu - Table DB

- This is the table storing your database configuration for external connections

Table DB Config uid  

Return Save  Remove

Host

---

Name

---

User

---

Password

## [DEPRECATED] Menu - Table Module File Generation

- The old place where we would store the configuration to generate table resources
- Use **Table Module Widget Config** today

# [DEPRECATED] Menu - Table Module Custom Configuration

- Allows for embed overriding in previous version of table

The screenshot shows a web interface for configuring a table module. At the top, there is a breadcrumb trail: "Table Module Custom Configuration" followed by "uid" and a gear icon. Below this is a navigation bar with "Return", "Save", and "Remove" buttons. The main content area is titled "General" and contains several sections:

- Table:** A dropdown menu with the text "Please select an option".
- Custom Tabs:** A section with a checkbox and the text "Table Module Custom Tabs".
- Exceptions:** A section with a checkbox and the text "Table Module Exceptions".
- [List] Custom Embed:** A text input field with the placeholder text "Pass .sn file to include" and an example path: "example:/site/fms\_config/package/fms\_app\_user\_embed.sn".
- [Edit] Custom Embed:** A text input field with the placeholder text "Pass .sn file to include" and an example path: "example:/site/fms\_config/package/fms\_app\_user\_embed.sn".
- Custom Save:** A text input field.
- Before Save:** A text input field.



# [DEPRECATED] Menu - Table Module Custom Tabs

- Allows you to add custom tabs for a previous deprecated version of table

Table Module Custom Tabs uid

Return Save ▼ Remove

General

Table Name


Tabname (fr)  Tabname (en)

Content   
Pass .sn file to include  
example: "/site/app\_user/include/fms\_user\_access.sn"

Position   
Position of the tab content. Useful for positioning your file content in existing tab.

# [DEPRECATED] Menu - Table Module Exceptions

- Allows you to override permissions to view fields in the Edit page for specific users

Table Module Exceptions uid  

Return Save Remove

General

Username

Table

Field Name

Action

- Block
- Please select an option
- Block
- Override

# Page Configuration



# Getting Started: Single Page App & Table Configuration

Let's follow this tutorial to get our initial environment set up:

<https://extenso.live/en/documentation/table-module-spa-setup>

# Display Table Widget Config

# Widget Configuration - General Tab

Display Table Widget Config uid 1   Edit widget 4854

Save ▾

Modification of uid 1 | Last modification on 2022-01-24 14:43:54 by Rémy Chaurand ( remy )

General Advanced Generation Control Permissions Embed Tabs

**Table Name**  
  
If you fill this field and leave everything else empty in the Advanced tab, on first publish it will automatically generate your files and directories for you.  
If you are a developer, the Advanced tab can be useful for widgets being built for specific modules.

---

**Database**  
 ▾  
If you need to connect to another database, you can add a record in `sed\_table\_db\_config` and associate the pulldown here.  
Otherwise, leave this empty if you wish to keep using the current local database.

# Widget Configuration - **Advanced** Tab

Display Table Widget Config uid 1 Edit widget 4854

Save

Modification of uid 1 | Last modification on 2022-01-24 14:43:54 by Rémy Chaurand ( remy )

General **Advanced** Generation Control Permissions Embed Tabs

**Module**

**Secure resource**

**Widget uid**

**Resource Path**

This is the file path of the resource source code (.sn) file

Example: /site/my\_module/resource/

**Function Path**

This is the file path of the function source code (.sn) file

Example: /site/my\_module/function/

**Published Base Filename**



This is the base name of the resource being published. It will be prepended with the actions:

- list\_
- edit\_
- save\_
- delete\_
- export\_

for each resource.

Example: some\_table.snc

# Widget Configuration - Generation Control Tab

Display Table Widget Config uid 1   Edit widget 4854

Save ▾

Modification of uid 1 | Last modification on 2022-01-24 14:43:54 by Rémy Chaurand ( remy )

General Advanced **Generation Control** Permissions Embed Tabs

**Generate Source Code**


Creates the initial resource/functions files and their code

---

**Generate Resources**

Generates (compiles) all the resources

---



**Generate Foreign Table Resources** 

Generate foreign table associated with this widget

---



# Widget Configuration - Permissions Tab

Display Table Widget Config **uid 1**   Edit widget 4854

Save ▾

Modification of uid 1 | Last modification on 2022-01-24 14:43:54 by Rémy Chaurand ( remy )

General Advanced Generation Control **Permissions** Embed Tabs

**List Role**

<input checked="" type="checkbox"/> extranet	<input type="checkbox"/> role2	<input type="checkbox"/> salarié
--	--------------------------------	----------------------------------

---

**Edit Role**

<input checked="" type="checkbox"/> extranet	<input type="checkbox"/> role2	<input type="checkbox"/> salarié
--	--------------------------------	----------------------------------

---

**Save Role**

<input checked="" type="checkbox"/> extranet	<input type="checkbox"/> role2	<input type="checkbox"/> salarié
--	--------------------------------	----------------------------------

---

**Delete Role**



<input checked="" type="checkbox"/> extranet	<input type="checkbox"/> role2	<input type="checkbox"/> salarié
--	--------------------------------	----------------------------------

---

**Export Role**

<input checked="" type="checkbox"/> extranet	<input type="checkbox"/> role2	<input type="checkbox"/> salarié
--	--------------------------------	----------------------------------

# Widget Configuration - Embed Tab

Display Table Widget Config uid 1   Edit widget 4854

Save ▾

Modification of uid 1 | Last modification on 2022-01-24 14:43:54 by Rémy Chaumond ( remy )

General Advanced Generation Control Permissions **Embed** Tabs

### List Embed

Enter the path of the file

1 |

### Edit Embed

Enter the path of the file

1 |

### Resource Embed

Enter the path of the file

1 |

### List Actions

Enter the path of the file

1 |

Here your code will include this file to put your custom actions to the right of the Remove button

See <https://getbootstrap.com/docs/4.6/components/dropdowns/> for examples you can use to implement

---

### Edit Actions

Enter the path of the file

1 |

Here your code will include this file to put your custom actions above the base edit actions

See <https://getbootstrap.com/docs/4.6/components/dropdowns/> for examples you can use to implement


---

### Export Embed

Enter the path of the file

1 |

# Widget Configuration - **Tabs** Tab


Display Table Widget Config uid 1   Edit widget 4854

Save ▾

Modification of uid 1 || Last modification on 2022-01-25 12:55:39 by Rémy Chaurand ( remy )

General Advanced Generation Control Permissions Embed **Tabs**

Tabs

 Display Table Widget Config Tabs

---

# Under The Hood

Understanding how the table module generates its interfaces  
and files

# Generated Function and Resource files

- Template directory: /toolbox/module/sed/table/template/
  - Resources
    - t\_table\_resource.sn
  - Function
    - t\_list\_function.sn
    - t\_edit\_function.sn
    - t\_save\_function.sn
    - t\_delete\_function.sn
    - t\_export\_function.sn
- Templates are used for generating the files
  - /toolbox/module/sed/table/publish/sed\_table\_display\_table\_config\_publish.sn
  - This program above will generate the code for the list, edit, save, delete and export files

# Embeds

How to customize your table beyond it's out-of-the-box  
functionality

# What is an “embed”?

- “Tool” or “Method” of extending the functionality of table
- You can use embeds to:
  - Add custom columns/fields, override their values, or alter their display
  - Filter the SQL
    - Custom WHERE statement to scope data to the business rule of the table
    - Custom JOIN statement to fetch additional data
  - Add custom validation or operations during list, edit, save, delete or export actions
  - Add new tabs and custom interfaces in the Edit view
  - Override `cgidata()` function (The GET/POST call)
  - Add custom Javascript or CSS to your pages
  - Add new buttons and actions to your pages
  - And much more. This is just scratching the surface...

# List Embed

Have full control over your List view



# Setting up the List Embed

1. In the **Embed** tab of your widget configuration, set the file path in the field “List Embed” of what will be a new package we call the “List embed package”
2. Go to the **Generation Control** tab and make sure “Generate Source Code” is checked, as well as “Generate Resources”.
3. Generate the page so the new source code will now detect this new file to “inject” the new code we will write.
4. Open the file in your IDE. Set it up as:

```
1  {{
2      /*
3          @title package embed_name_here
4
5          Embed package for List Page
6
7          @version 2021-01-01 - youremail@sednove.com
8      */
9
10     use lg;
11 }}\{{
12     package embed
13
14     endp
15 }}
```

# List Embed Examples

`/toolbox/module/sed/table/documentation/embed_examples/list_embed.sn`

# Edit Embed

Customize your Edit view

# Setting up the Edit Embed

1. In the **Embed** tab of your widget configuration, set the file path in the field “Edit Embed” of what will be a new package we call the “Edit embed package”
2. Go to the **Generation Control** tab and make sure “Generate Source Code” is checked, as well as “Generate Resources”.
3. Generate the page so the new source code will now detect this new file to “inject” the new code we will write.
4. Open the file in your IDE. Set it up as:

```
1  {{
2  /*
3     @title package embed_name_here
4     Embed package for Edit Page
5     @version 2021-01-01 - youremail@sednove.com
6  */
7
8
9
10 use lg;
11 }}\{{
12     package embed
13
14     endp
15 }}
```

# Edit Embed Examples

`/toolbox/module/sed/table/documentation/embed_examples/edit_embed.sn`

# Resource Embed

Validate your data and control what happens before and after  
your operations

# Setting up the Edit Embed

1. In the **Embed** tab of your widget configuration, set the file path in the field “Resource Embed” of what will be a new package we call the “Resource embed package”
2. Go to the **Generation Control** tab and make sure “Generate Source Code” is checked, as well as “Generate Resources”.
3. Generate the page so the new source code will now detect this new file to “inject” the new code we will write.
4. Open the file in your IDE. Set it up as:

```
1  {{
2  }
3  } /*
4  } @title package embed_name_here
5  } Embed package for the resources
6  }
7  } @version 2021-01-01 - youremail@sednove.com
8  } */
9  }
10 } use lg;
11 } } \{
12 } package embed
13 }
14 } endp
15 } }
```

# Resource Embed Examples

`/toolbox/module/sed/table/documentation/embed_examples/resource_embed.sn`