

# Modules

- Introduction
- System Configuration

# Introduction

The chapter focuses strictly on the development section. For administrative information check out an [administration tutorial](#).

## Main assumptions

The customer panel comes with an easy way of developing and deploying new modules to the panel. It provides you an out-of-the-box configuration with a few steps needed for proper running.

# System Configuration

## XML Configuration File

Configuration determines the main aspects of the module. Each one regardless of future different configurations has the same core model:

```
<?xml version="1.0" encoding="UTF-8" ?>
<otrs_config version="2.0" init="Application">
  <Setting Name="OTRSFrontendModule::<NAVIGATION_NAME>" Required="0" Valid="0">
    <Description Translatable="1">Module random description</Description>
    <Navigation>CustomerFrontend</Navigation>
    <Value>
      <Hash>
        <Item Key="id">LatestActivity</Item>
        <Item Key="type">[ module/redirect/hidden] </Item>
        <Item Key="text">Latest Activity</Item>
        <Item Key="to">/module/LatestActivity</Item>
        <Item Key="icon">timeline</Item>
        <Item Key="priority">110</Item>
        <!-- OPTIONAL -->
        <Item Key="mode">[ newWindow/tab] </Item>
        <Item ValueType="Textarea" Key="widgets">
          [
            {
              "props": {
            },
              "id": "5",
              "widgetFile": "WIDGET_Timeline.js",
              "compiled": false,
              "view" : "Dashboard",
              "slot" : "slot3",
              "name": "Latest Activity"
            }
          ]
        </Item>
      </Hash>
    </Value>
  </Setting>
</otrs_config>
```

```
</Hash>
</Value>
</Setting>
</otrs_config>
```

`<Hash>` specifies main configurations settings:

- **`<id>`**  
An **identification key** for your module. Should be unique for every module.
- **`<type>`**  
Determines the type of the module. For further information check out [the administration guide for modules](#).
- **`<text>`**  
Display label for frontend panel.
- **`<to>`**  
Specify the URL path to the module. If redirect was chosen as a type this field specifies redirection link.
- **`<icon>`**  
Specify the name of the icon to display. Available icons can be found in this [icon library](#).
- **`<priority>`**  
The higher the priority the higher the module is on the menu.
- **`<widgets>`**  
Set an array of **widget configurations** that should be placed in the module. More on widget configuration [here](#).
- **[Optional] `<mode>`**  
Active if type set to **redirect**. Specifies the way in which the system will display the redirection page.  
Available options are:
  - *newWindow*
  - *tab*

## Available modules

Another step is to include a module name in the `CustomerOTRSFrontendModule::AvailableModules` in system configuration.

It's important to pass the module's **id** as a configuration key.

## Permissions

The last step is to set visibility of the module for predefined CustomerUser groups in the `CustomerOTRSFrontendModule::Permissions`

The screenshot shows the 'CustomerOTRSFrontendModule::Permissions' configuration window. The title bar includes 'CustomerOTRSFrontendModule::Permissions' and 'OTRSFrontend.xml'. The main area is a table with columns for module names and user groups. The modules listed are CUWCommitments, CUWLedger, CUWReceivables, CustomerDashboard, CustomerForm, CustomerUserSettings, ITDepartment, LatestActivity, NewTicket, and Tickets. Each module has a corresponding 'users' group. To the right of the table is a vertical bar with a '+' icon and a yellow tooltip that says 'Add new entry'. At the bottom of the table is an empty row with a green checkmark. On the far right, there is a section titled 'Modules available to customers.' with a checkmark and an 'x' button.

Module	User Group	Actions
CUWCommitments	users	- +
CUWLedger	users	- +
CUWReceivables	users	- +
CustomerDashboard	users	- +
CustomerForm	users	- +
CustomerUserSettings	users	- +
ITDepartment	users	- +
LatestActivity	users	- +
NewTicket	users	- +
Tickets	users	- +
		- +

If your module is not visible in the menu try to initiate the configuration rebuild from within

the OTRS console.

1. Login on your server using SSH
2. Change user to otrs
3. Run config rebuild command -> `/opt/otrs/bin/otrs.Console.pl Maint::Config::Rebuild`

After completion of these three steps, your module is ready to go!