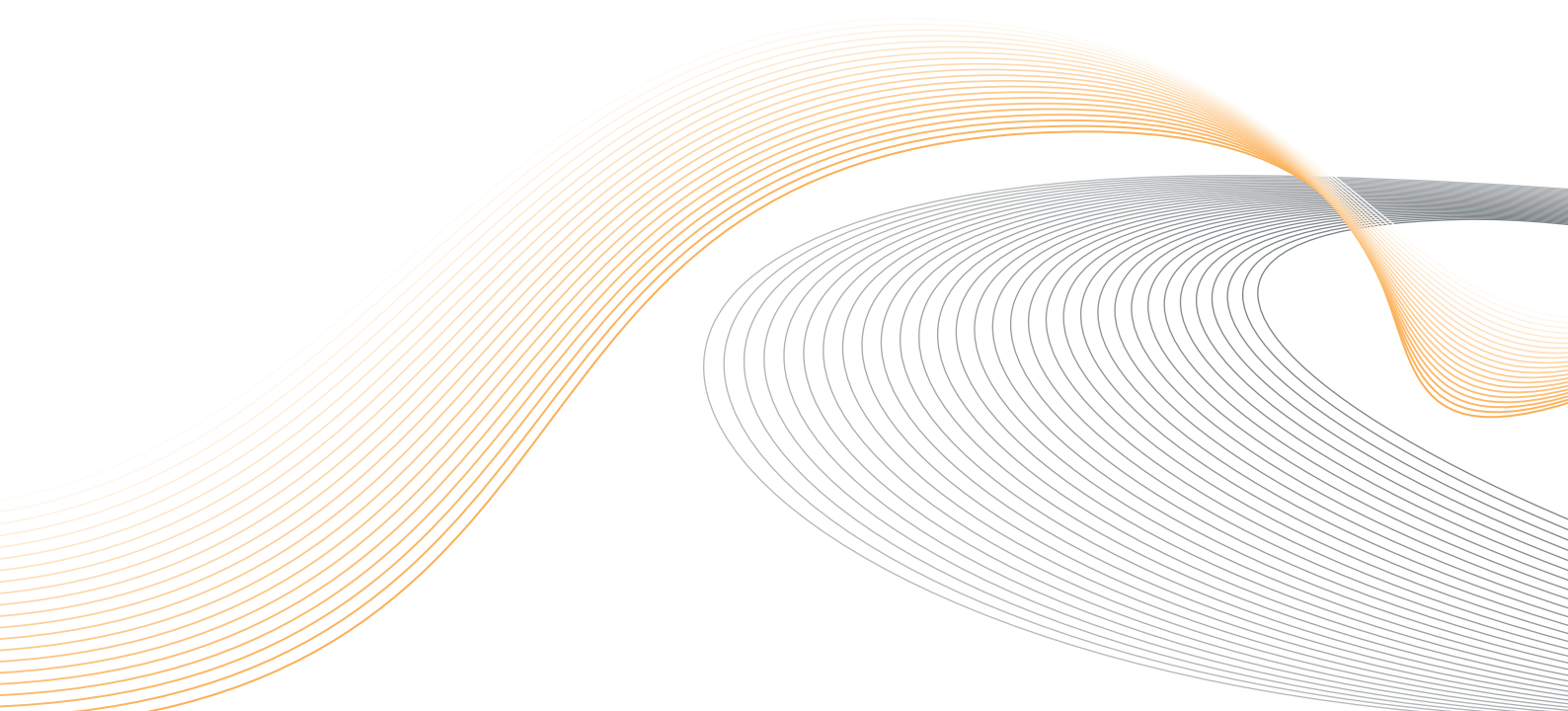


LCS PRO²

VDI cabinet design



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[ONLINE HELP](#)

LCS PRO², your solution for VDI cabinet design

■ You select from a list the products to be included in your VDI cabinet, you arrange them, and then the **LCS PRO²** software automatically determines a suitable enclosure and a preview of your cabinet, produces the equipment list and creates a complete folder of your design...

And as all the changes you make are taken into consideration immediately, designing your VDI cabinets with **LCS PRO²** is simplicity itself.



WARNING/DISCLAIMER

It is required that the **LCS PRO²** software for low current distribution is used within the prescribed Code of Practice of the applicable Standards Authorities. Legrand will not be held responsible for any non-observance of these basic principles. This software is protected by copyright law and international agreements. Any reproduction or distribution of the software, in part or whole, by any means whatsoever, is strictly prohibited. Persons in contravention of this law are liable for prosecution and penalisation in accordance with the law. **Copyright Legrand 2010**

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Installation and start-up

I. Installation

A. Hardware and software requirements

- Intel Pentium IV processor or equivalent running Windows 2000, XP, Vista or Windows 7.
- 512 Mb of RAM recommended.
- Recommended minimum resolution 1024 x 768.

B. Installation

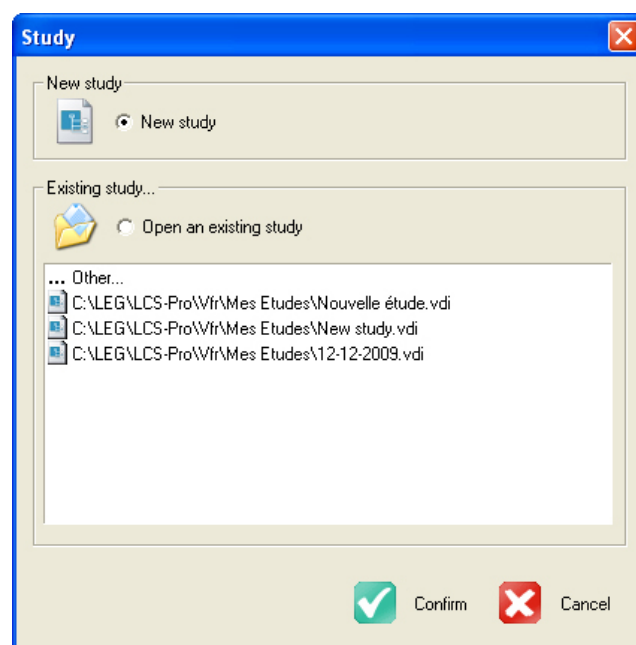
- Close all open applications.
- Double-click on the installation program icon.
- Follow the instructions in the installation program which starts automatically.

II. Start-up

To start LCS PRO², double-click on the icon located on the desktop or select LCS PRO² in the menu:

Start > Programs > Legrand > LCS PRO²

A window will then prompt you to start a new study. Simply click on the **Confirm** button.

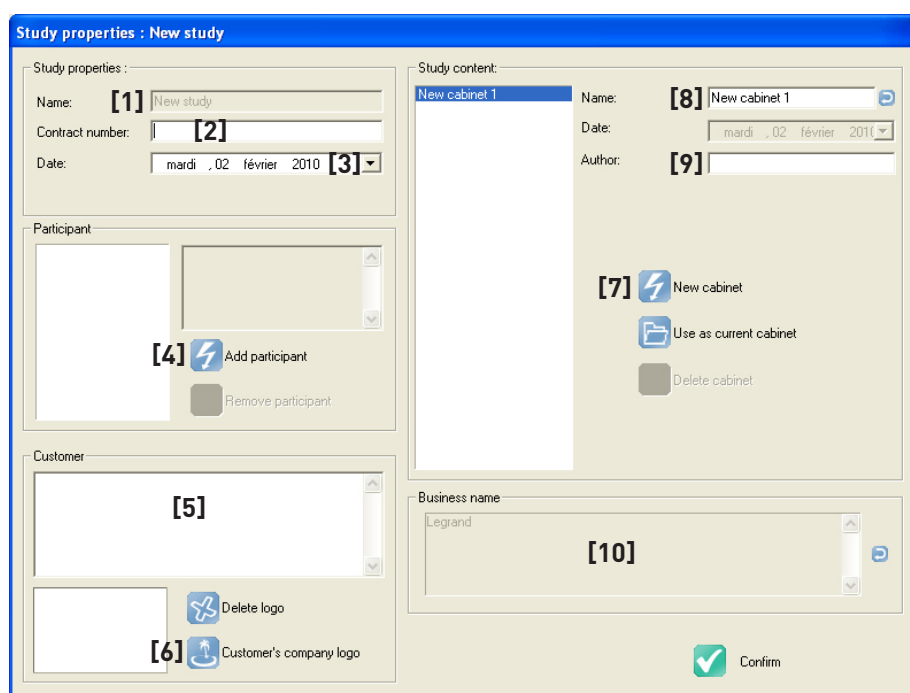


If you have already used LCS PRO², you can open one of the last 4 previously saved studies by doubleclicking on the name of the required study in the list.

Double-click on the line... **Other** to open a study that does not appear in the list, and specify its location in the standard dialogue box for opening a file. When you have made your choice, click on the **Confirm** button to continue running LCS PRO².

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II. Start-up ((cont.))



If you create a new study, the **Study properties** window opens so that you can enter information concerning the study and the VDI cabinets it contains (a study contains at least one VDI cabinet).

The **study name** [1] will be allocated when you first save the study (see page 9).

For the study, you can:

- Allocate a **contract number** [2]
- Choose the **creation date** [3]
- Specify the various **participants** [4]
- Specify the **customer** [5]
- Choose the **customer's company logo** [6] (BMP file).

In the study content part, you can add **new VDI cabinets** [7] and for each cabinet:

- Give it a **name** [8]
- Specify the **author** of the study [9]

Finally, button [10] gives access to entry of the **author** of the business and the selection of a **logo**.

LCS PRO² at a glance

The modular design of LCS² PRO makes it flexible and intuitive to use.
Each module performs a specific task and interacts with the others.
You can choose various different ways of working, to suit your preferences and habits:
the operations follow on logically after one another.

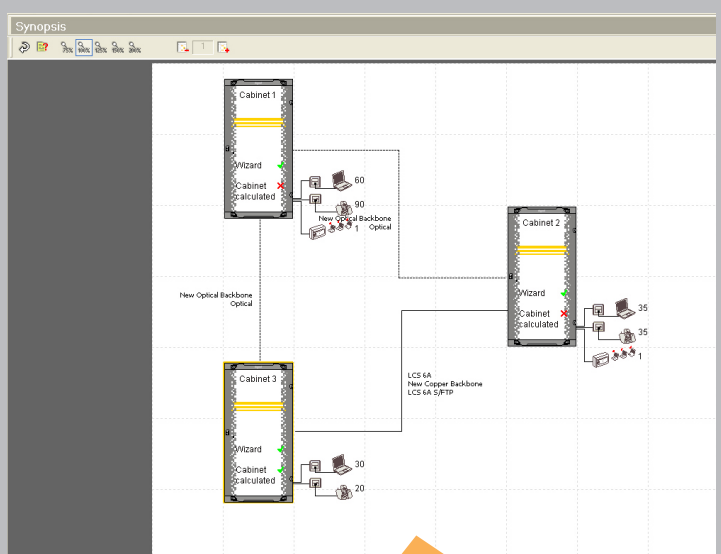
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Synopsis

- Assisted design of a complete infrastructure comprising one or more VDI cabinets.
- Enables the definition and preview of links between cabinets
- Automatically calculates a complete system solution and pre-enters the parts list.

→ page 12



Parts list

- Choice of the devices and their accessories.
- Automatic definition of the catalogue numbers by selecting the characteristics and options.

→ page 22

Parts list	Quantity	Catalogue	Calculated	Chosen
Base	1	030991	1	1
Optical products				
Blanking plate - for patch panel 19" - black	1	030991	1	1
Telephone unit - for patch panel to be equipped - 4 RJ-45 contacts	2	030991	2	2
Blanking plate - for patch panel 19" - black	2	030991	2	2
Management panel 19" - 1 U - 2 axes - metal	1	046532	1	1
Patch unit - RJ-45 connector - Cat. 6 - FTP	9	030991	9	9
Management panel 19" - 1 U - 2 axes - metal	1	046532	1	1
Blanking plate - for patch panel 19" - black	3	030991	3	3
RJ-45 socket Nook Prop - Cat. 6 - FTP - 2 mod - white	50	075065	50	50

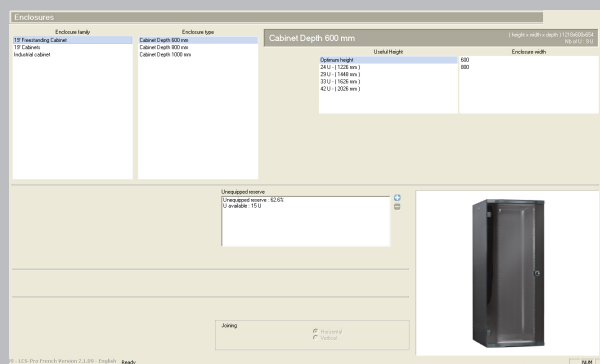
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Enclosures

- Automatic definition of the VDI cabinets that can take the products you have previously selected.
- Choice of the enclosure model from the combinations that are suggested.

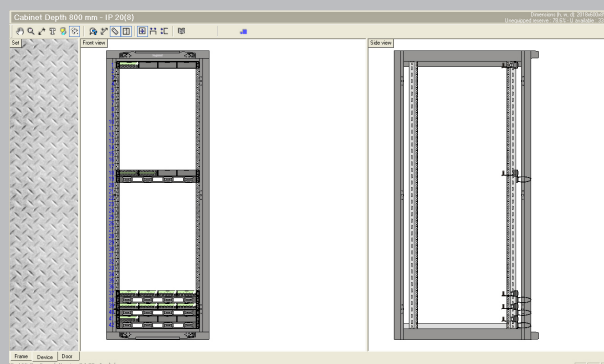
→ page 28



Preview

- Preview and modification of the VDI cabinet layout.
- Selection of additional accessories and equipment.

→ page 30



VDI cabinet summary



Project summary



Printing folder

- Costing, purchase order, summaries, etc.
- Printing documents.

→ page 40, 45, 48

Summary - Equipment Costing

Thank you to consult your regional agency/ Legrand or the national site Legrand to know the list applicable price

Reference	Description	Quantity	Base U.P.	Net U.P.	Net Total
03174 *	Iron cable - Cat. 6 - 10/100 - 4 pairs - L: 500m - 120V (limited by meter)	1700	1.1000	1.1000	2070.00
03182	Telephone port - for patch panel to be equipped - 4 RJ45 contacts	2	37.0000	37.0000	74.00
03184	Patch panel - equipped - 10" - 1U - Cat. 6 - P19	2	278.0000	278.0000	556.00
03186	Patch unit - 6 RJ45 connectors - Cat. 6 - P19	1	54.0000	54.0000	54.00
03187	Patch unit - 6 RJ45 connectors - Cat. 6a - P19 - for patch panel 10"	1	71.0000	71.0000	71.00
03188	Patch panel - 10" - 1U - 10 RJ45 connectors - P19	1	54.0000	54.0000	54.00
03189	Blanking plate - for patch panel 10" - 1U	8	8.0000	8.0000	64.00
04619	Cabinet 10" - 1U - 10 RJ45 connectors - 1000x300 mm	1	1365.0000	1365.0000	1365.00
04622	Management panel 10" - 1U - 2 bays - metal	4	47.0000	47.0000	188.00
06144	Patch cord Cat. 6a - 10 RJ45 - Cat. 6 - 10 RJ45 - 1000x300 mm - 100m - 3m	80	15.0000	15.0000	1200.00
07668	RJ45 socket module - Cat. 6 - P19 - 2 bays - metal	50	11.0000	11.0000	550.00

Legend equipment patch net price : 6395.94

Return to detail costing | Discount : 0.00%

Equipement Costing | Cabinet Pick | Purchase Order | Technical Summary

Prices for 2009/07

The LCS PRO² interface

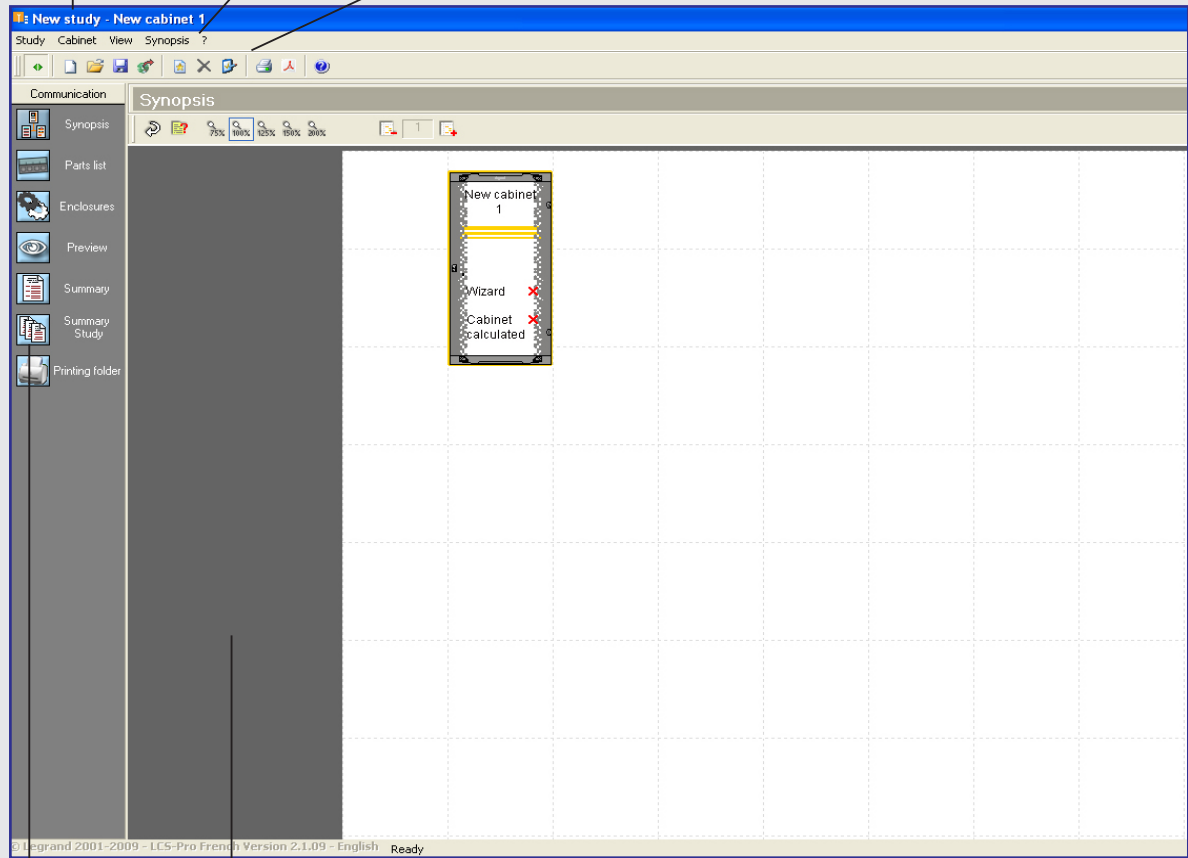
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I. Introduction

TITLE BAR:
name of the study and
name of the current
cabinet

MENU BAR:
see the following pages

GENERAL TOOLBAR:
see page 11



MODULE BAR:
see page 11

WORK AREA:
module being used

00111101010100011010011010110011011101101010100001100101001010100110010100100010100010001010110101010101

II. Menu bar

A. Study Menu

■ **New**: starts a new study. If you have made changes to the current study, LCS PRO² prompts you to save them and then opens the **Study properties** (see page 5).

■ **Open**: opens an existing study. Once you have saved any changes made to the current study, you must select your file in the standard file-opening window.

■ **Save**: saves the current study. When you first save the study, the standard **Save** window opens so that you can name the file (this name becomes the name of the study). The default location offered for saving the file is the **My Studies** folder in **LCS pro²** but you can choose another location.

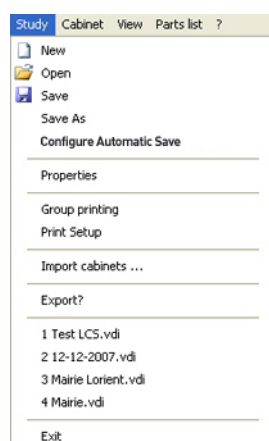
■ **Save As**: saves the current study under another file name and/or to another location.

■ **Configure automatic save**: enables you to choose how often the file will be automatically saved.

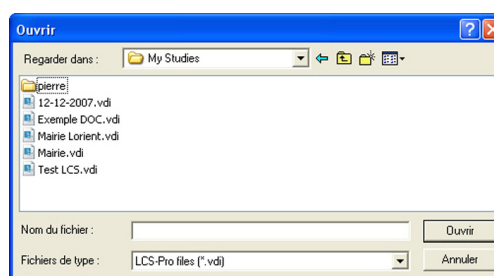
■ **Properties**: opens the **Study properties** window which is used for setting the parameters of the study in the same way as for a new study (see page 5).

■ **Group printing**: opens the **Select documents to print by VDI cabinet** window, which will be described in detail in the section on the use of the printing folder module (page 48).

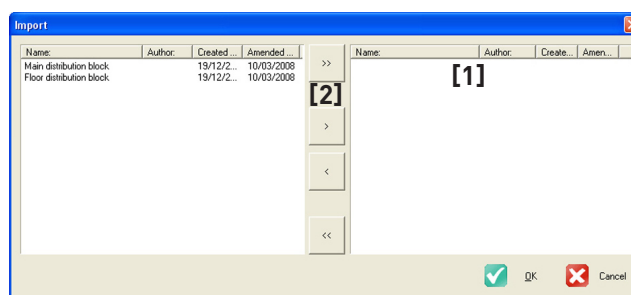
■ **Print Setup**: opens the standard window for selecting the printer and paper.



■ **Import cabinets...**: adds one or more cabinets from another study to the current study. The **Open** window is used to select the study containing the VDI cabinet(s) to be imported.



The Import window is then used to select, in that study, the VDI cabinet(s) to be imported. The VDI cabinets you want to import must be transferred to the right-hand pane [1] using the buttons [2].



The >> button transfers all the VDI cabinets, while the > button transfers only the selected VDI cabinet. If you make a mistake, the VDI cabinets can be transferred back to the left-hand pane using the << or < buttons. You can also transfer a VDI cabinet from one side to the other by double-clicking on the relevant line.

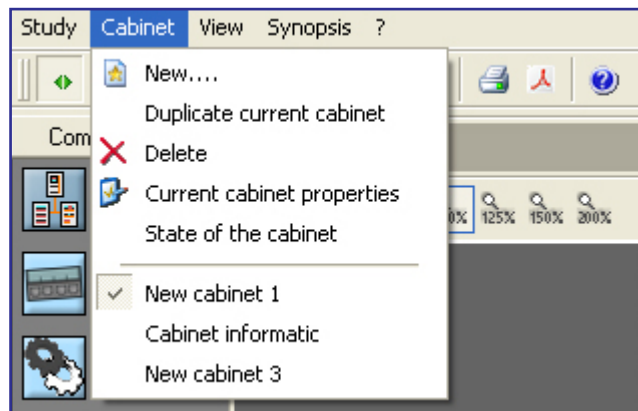
Clicking on the **OK** button imports the selected VDI cabinets which are then added to the content of the current study.

The LCS PRO² interface

II. La barre des menus (cont.)

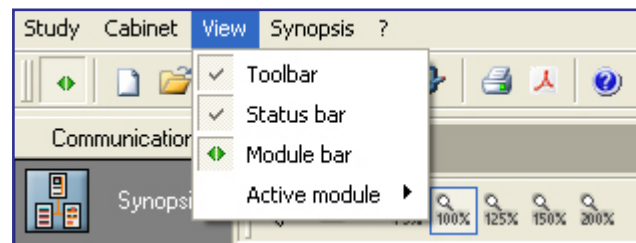
- **Export....**: exports the preview and the summaries in various file formats (see the modules concerned).
- **The last 4 studies** opened can be accessed directly.
- **Exit**: exits LCS PRO² after prompting you to save the current study.

B. VDI Cabinet Menu




- **New....**: opens the **Cabinet properties** window to create a new VDI cabinet in the current study.
- **Duplicate current cabinet**: automatically creates a new VDI cabinet identical to the current VDI cabinet. The default name of this new VDI cabinet is "copy of" followed by the name of the current VDI cabinet. To rename it, select the **Current cabinet properties** option in the same menu.
- **Delete**: deletes the current VDI cabinet. This option is only active if the study includes more than one VDI cabinet.
- **Current cabinet properties**: opens the Cabinet properties dialogue box (see page 5).
- **All VDI cabinets** in the current study can be accessed directly. The current VDI cabinet is ticked.

C. Display Menu



- **Toolbar**: displays/hides the toolbar. The meanings of the icons are given opposite.
- **Status bar**: displays/hides the status bar.
- **Module bar**: displays/hides the module bar. The module bar is described on the next page.

+ TIP

The module bar can be hidden in order to increase the work area: "Display menu > Module bar" or  icon in the toolbar. To display it again, repeat the procedure.

D. Specific Menus

One or more additional menus may be available, depending on the module in which you are working. The menu titles depend on the module currently in use. Their functions will be described in the relevant module sections.

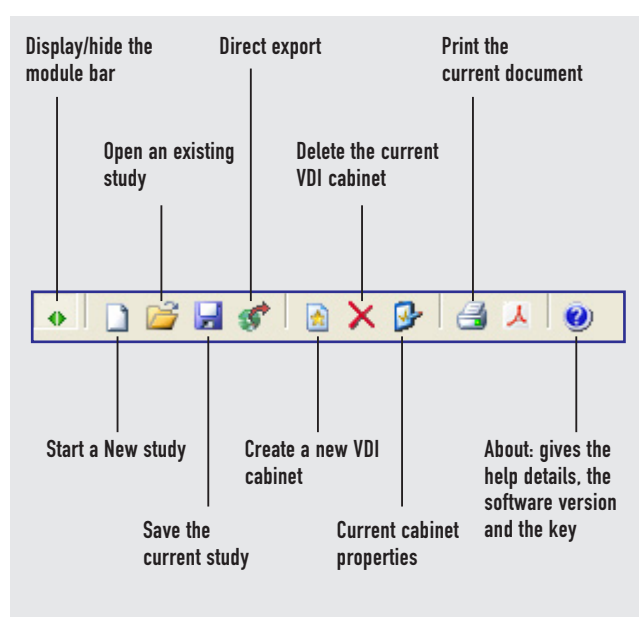
E. ? Menu

This is used, among other things, to access information on the installed version of the LCS PRO² software.

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III. Toolbar

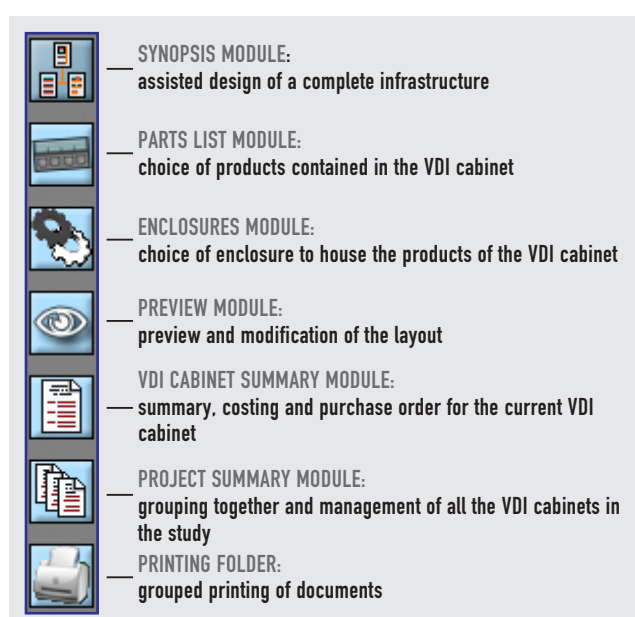
The toolbar contains a series of icons that provide quicker access to certain functions:



For a detailed description of these functions, refer to **Menu bar** on pages 9 and 10.

IV. Module bar

The module bar has a series of icons enabling access to the different modules of LCS PRO².



The use of each module is described in detail later in the manual.

! CAUTION

The “**Print**” tool does not open the “**Select documents to print**” window. It only works with the **Preview**, **Summary** and **Project Summary modules** and initiates printing of the document shown on the screen.

The Synopsis module

The Synopsis module will guide you in automatically defining the catalogue numbers that make up the VDI cabinet and help you in choosing their characteristics. It enables you to build a complete system easily by automatically generating the additional items (blanking plates, feedthroughs, power supplies, cords and cables) according to your choices.

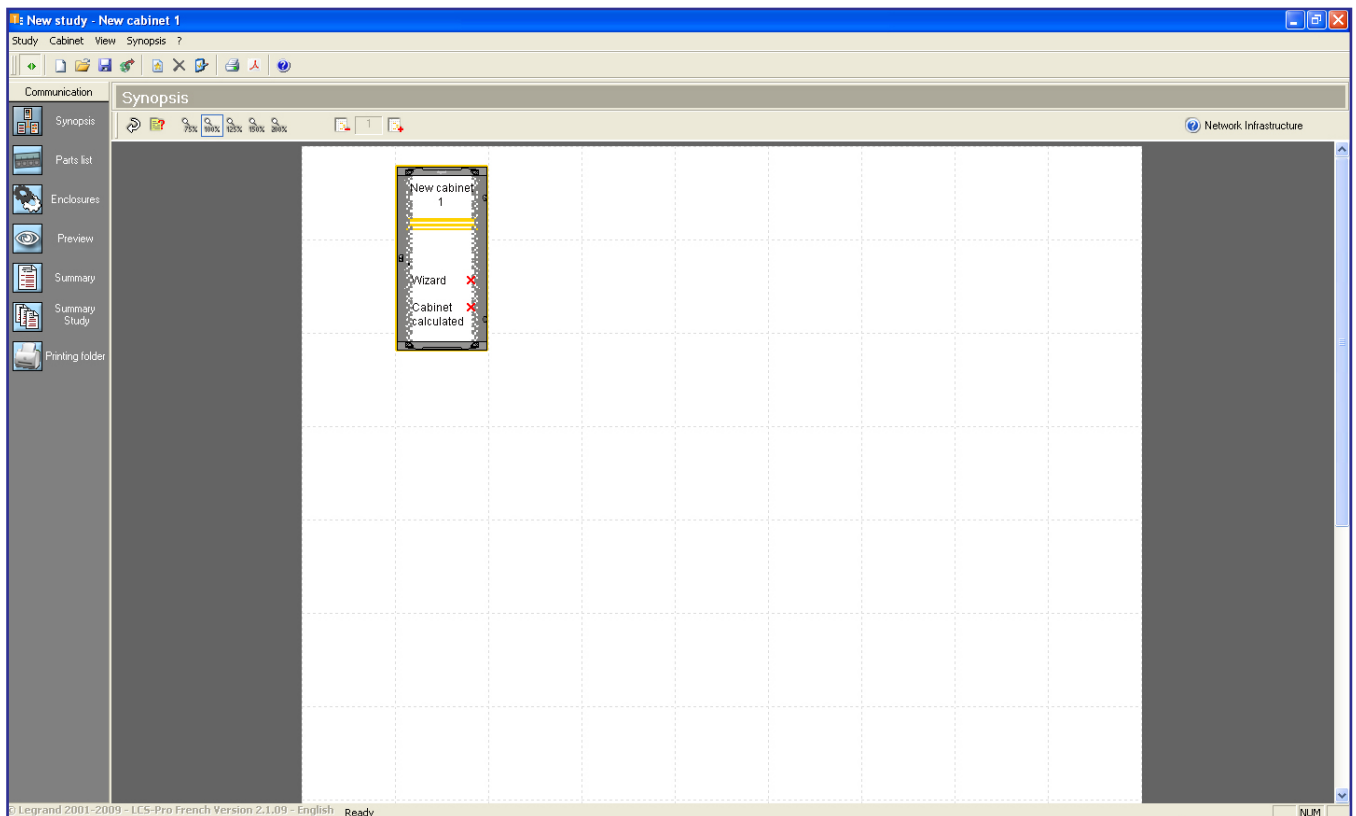
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12

LCS PRO² IN PRACTICE > The Synopsis module > I. Synopsis

I. Synopsis interface

When opening the synopsis module the first standard VDI cabinet is created by default.

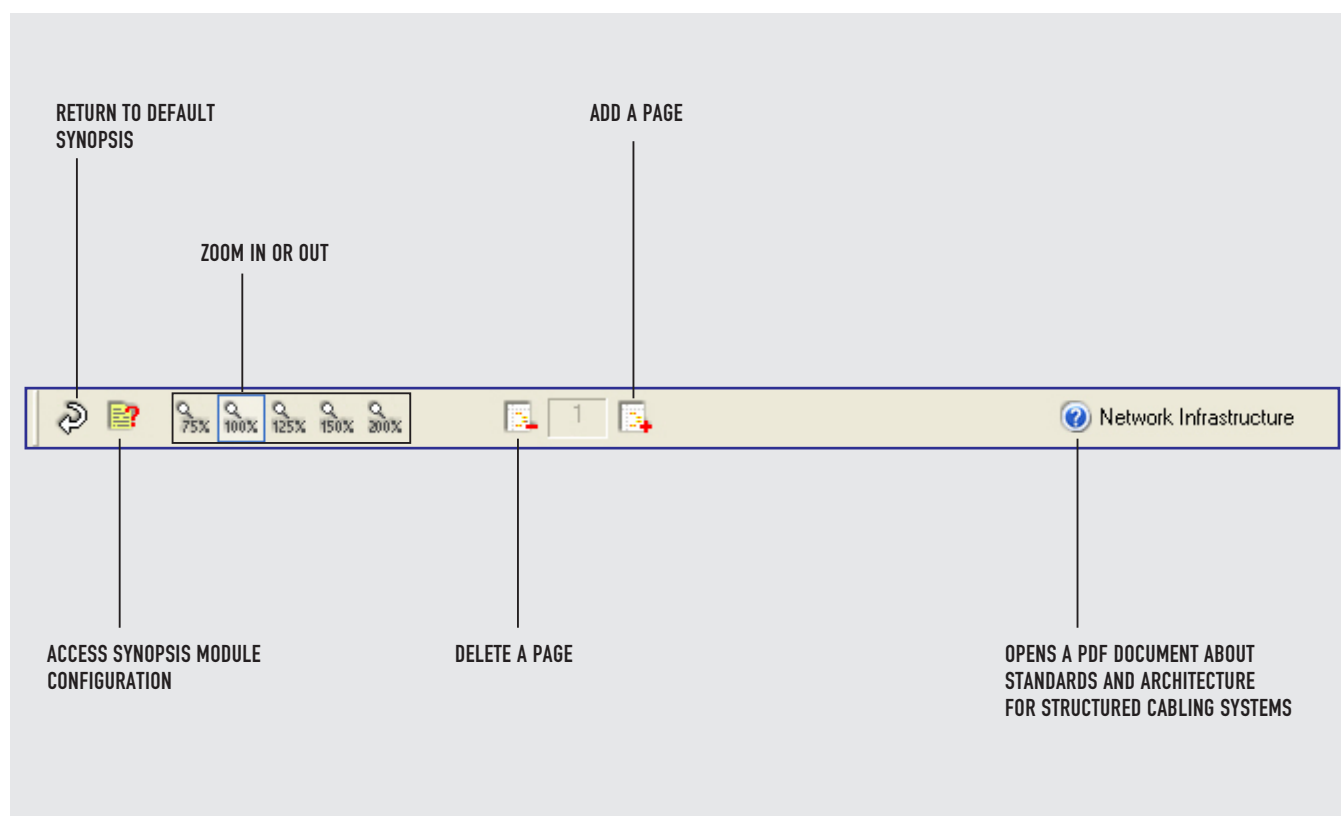


The synopsis interface allows you to build a complete infrastructure of VDI cabinets linked together by fibre backbones (vertical) or copper backbones (horizontal and vertical).

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II. Toolbar

The toolbar features a series of icons that enable quicker access to a certain number of functions.

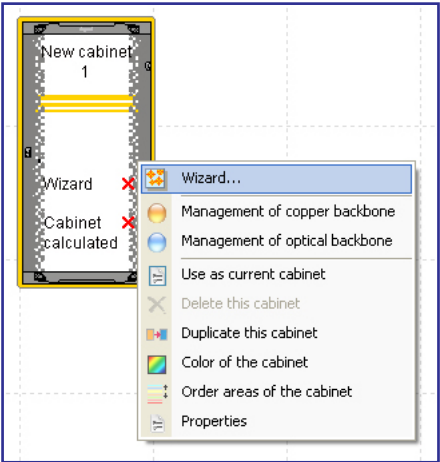


The Synopsis module

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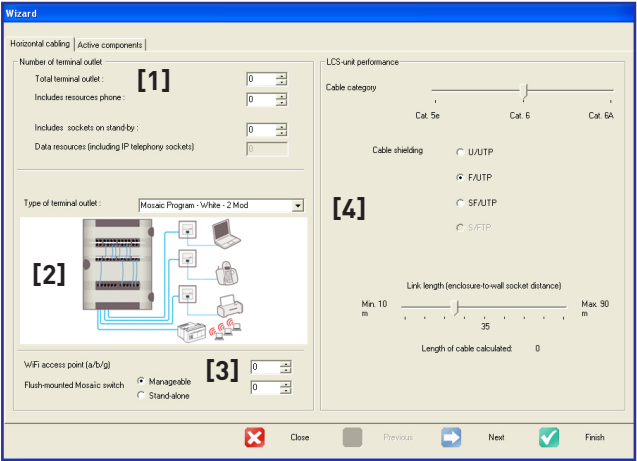
III. Assistant

Right-click on the cabinet then on Assistant to open the assistant window.
The Assistant module window consists of 2 folders.



A. Horizontal cabling

- **Area [1]** shows the various terminal outlets (telephone resources, sockets on standby, computer resources). You must select the number of outlets necessary for each type.
- **Area [2]** is used to select the range, colour and number of modules of the terminal outlets.
- **Area [3]** is used to select the active products (Wi-Fi, Switches) outside the enclosure.
- **Area [4]** is used to define the performance of the cables, their shielding and the length of the links.



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III. Assistant (cont.)

B. Active components

Wizard

Horizontal cabling | Active components

[1] Switches present
Height to leave free in U: (Remember to include 1U switch height per quantity of 48 ports.)

[2] Servers present
Height to leave free in U:

Other hardware present
Height to leave free in U:

PABX present in the enclosure
Height to leave free in U:

Fixed fitted shelves
Number of Shelves:

Adding 2 P+E power supply sockets: **[2]**

Number of 2 P+E power supply sockets:

[3] Server depth (mm)
Min. 600 mm | 900 | Max. 1000 mm

Close Previous Next Finish

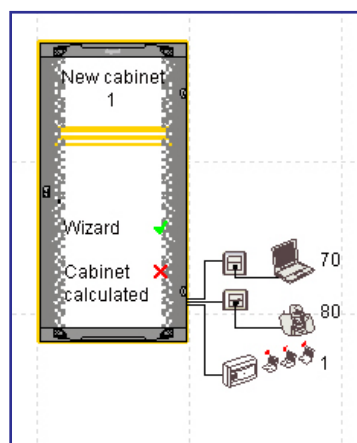
■ **Area [1]** is used to define the various types of equipment (Switches, Servers, PABX, Fixed fitted shelves) and how many of them in order to reserve space and provide power for them.

■ **Area [2]** indicates the number of 2P+E power supply sockets.

■ **Area [3]** is used to define the server depth.

C. Preview

The synopsis grows as you add or modify components. A green tick shows you have used the assistant.



+ TIP

Summary of the rules for calculating the space to be reserved for a switch:

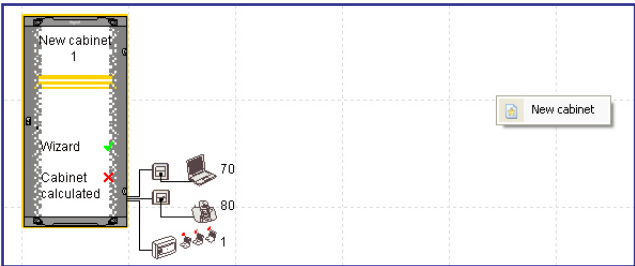
Number of computer ports	Switch height in U
1 to 48	1
48 to 96	2

The Synopsis module

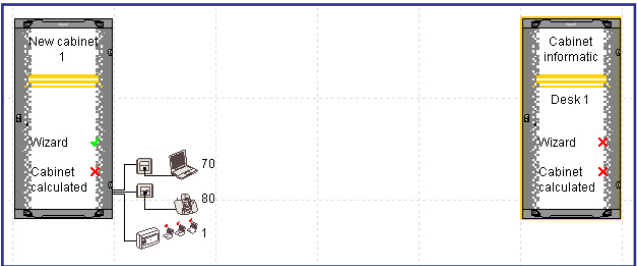
011101010110101000011001010010101001011001010010100100010100010001010110101010100100100101011011011100100

IV. Creating a cabinet

Right-click on the page background to create a new cabinet.



The synopsis automatically updates and the new information can be seen on the cabinet.



You can assign the cabinet a name, a position and define the number of the plane on which it is located.

Cabinet properties

Cabinet

Name:

Cabinet 1

Date:

mardi , 02 février 2010

Author:

Place of the cabinet

Desk 1

Number of plan

1

Revision index

A

B

C

D

E

F

Confirm

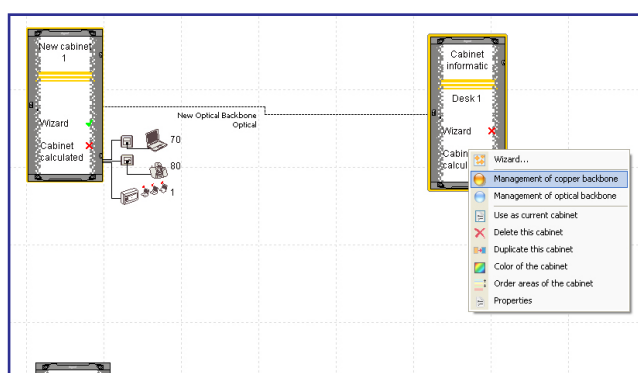
Cancel

001111010101000110100110101100110111011010101000110010100101010010110010100101001000101000100010101101010101010

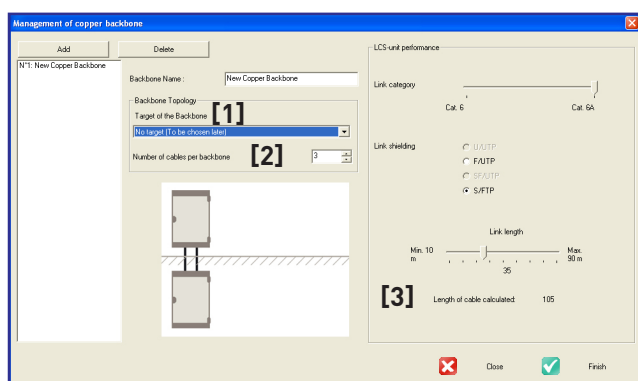
V. Managing copper and optical backbones

A. Copper backbone

Right-click on the initial cabinet, then on Manage copper backbones to define your horizontal and vertical links.



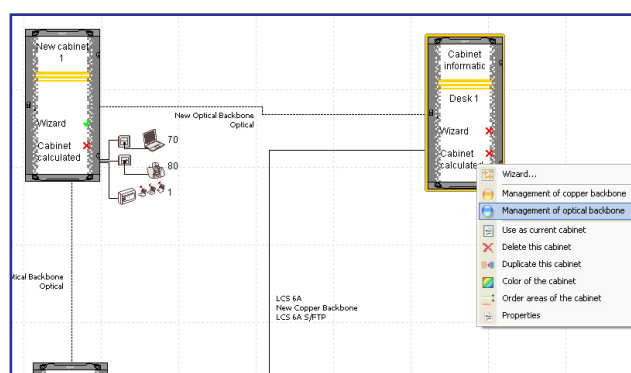
The Copper backbone management window opens.



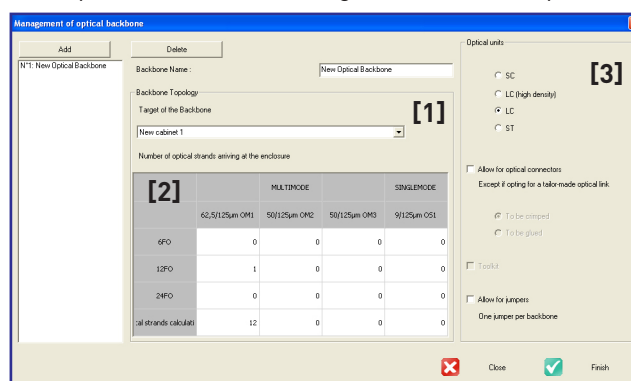
- **Area [1]** is used to select the target of the backbone selected.
- **Area [2]** determines the number of backbones and the number of cables associated with each backbone.
- **Area [3]** is used to define the performance of the cables, their shielding and the length of the links.

B. Optical backbone

Right-click on the initial cabinet, then on Manage optical backbones to define your vertical links.



The Optical backbone management window opens.

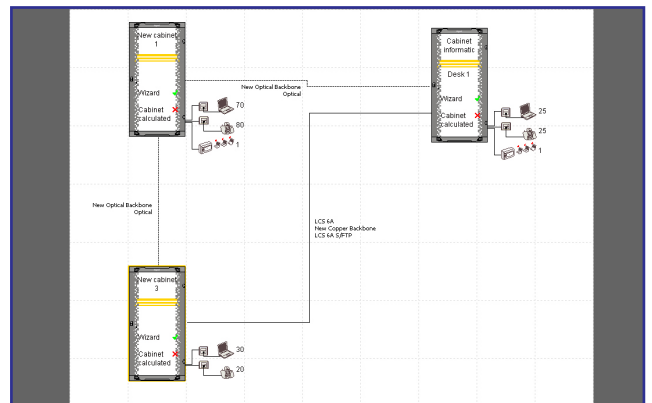


- **Area [1]** is used to select the target of the backbone selected.
- **Area [2]** is used to indicate the number of optical strands arriving at the enclosure according to the type of optical fibre.
- **Area [3]** is used to define the optical units by choosing their type and the associated optical connectors.

V. Managing copper and optical backbones (cont.)

The synopsis automatically updates and you can view the infrastructure.

You can move any cabinet – its links and equipment are kept as such and move with the cabinet.

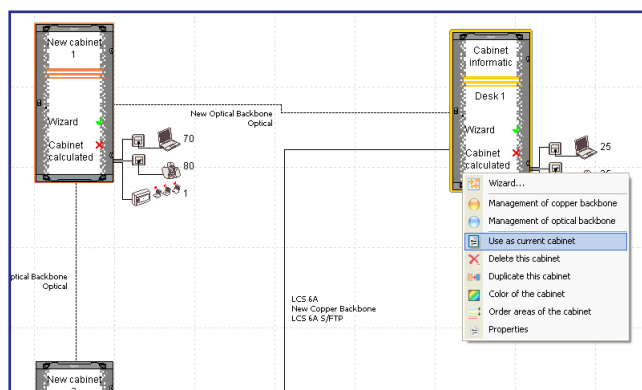


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VI. Cabinet management

A. Cabinet menu

Right-click on a cabinet to access the cabinet management properties.

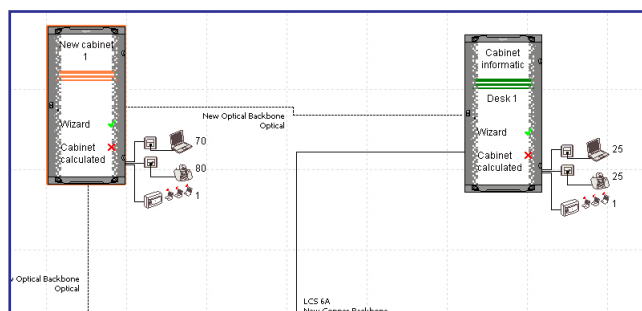


■ **Use as current cabinet:** use this tab to set the main cabinet used as a starting point for the whole installation.

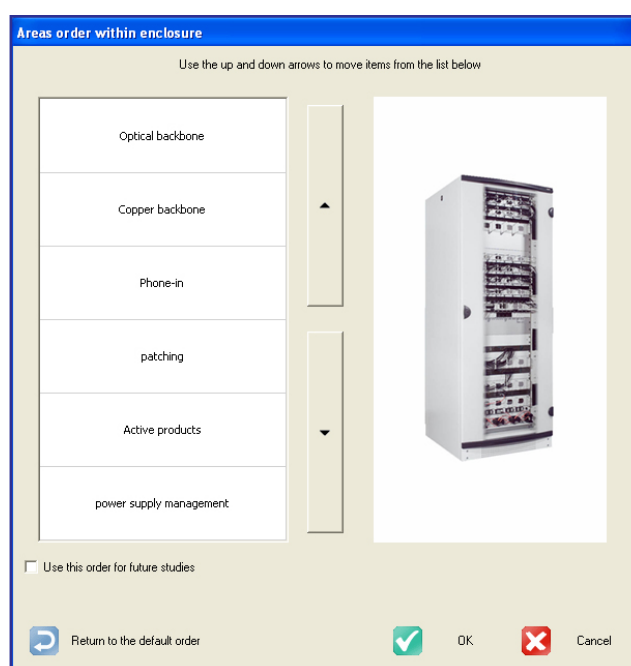
■ **Delete cabinet:** use this tab to delete a cabinet from the infrastructure.

■ **Duplicate cabinet:** use this tab to create another cabinet identical to an existing one with the same equipment.

■ **Cabinet colour:** use this tab to customise, identify and set a hierarchical order for the cabinets in a project.



■ **Cabinet section order:** use this tab to organise the various elements constituting your VDI cabinet according to different defined sections (telephone input, end socket patching, active equipment, copper backbone, optical backbone and power supply).



■ **Properties:** use this tab to assign the cabinet a name, a position and to define the number of the plane on which it is located.

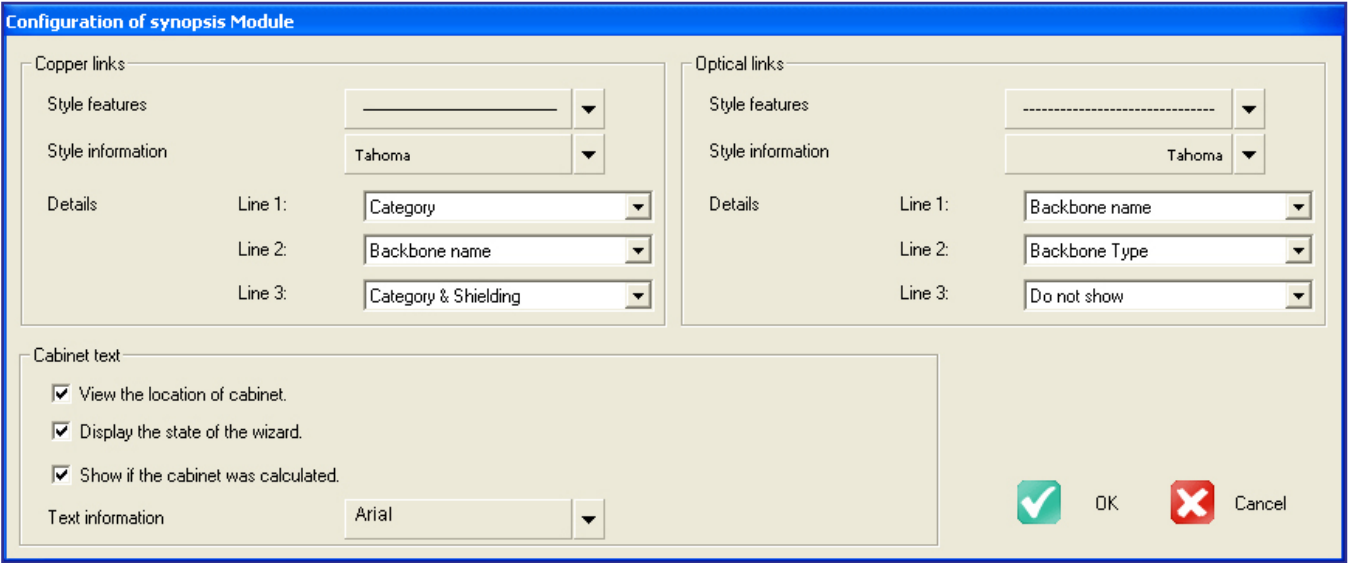
The Synopsis module

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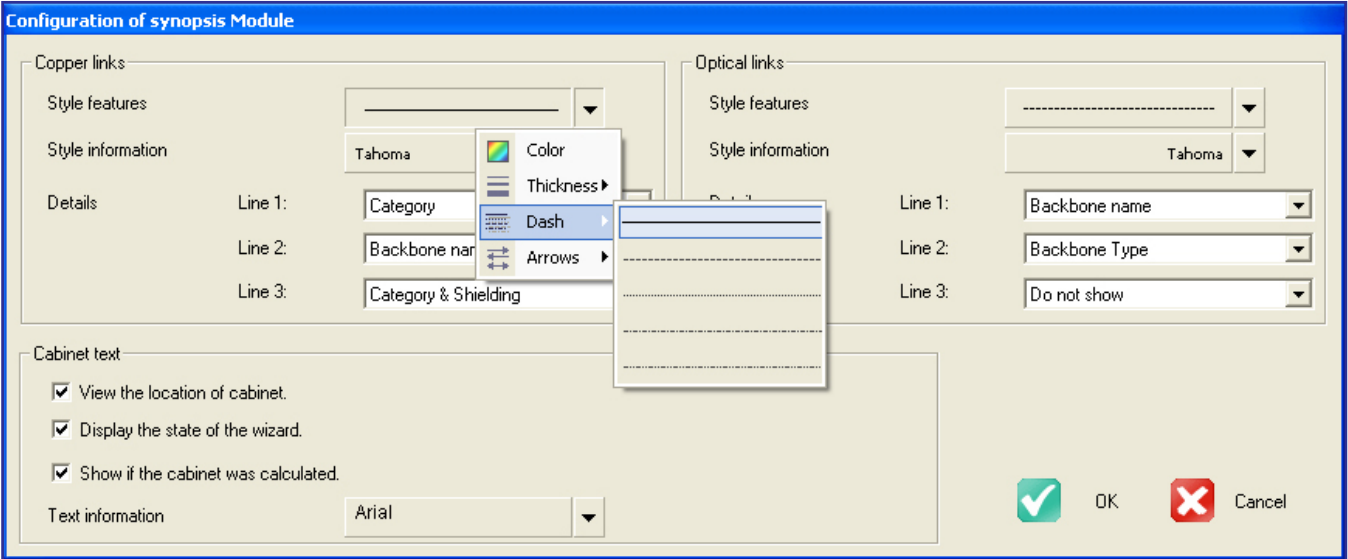
VI. Cabinet management (cont.)

B. Configuration synopsis module

In the toolbar, click the  icon to display the configuration window for the synopsis module.




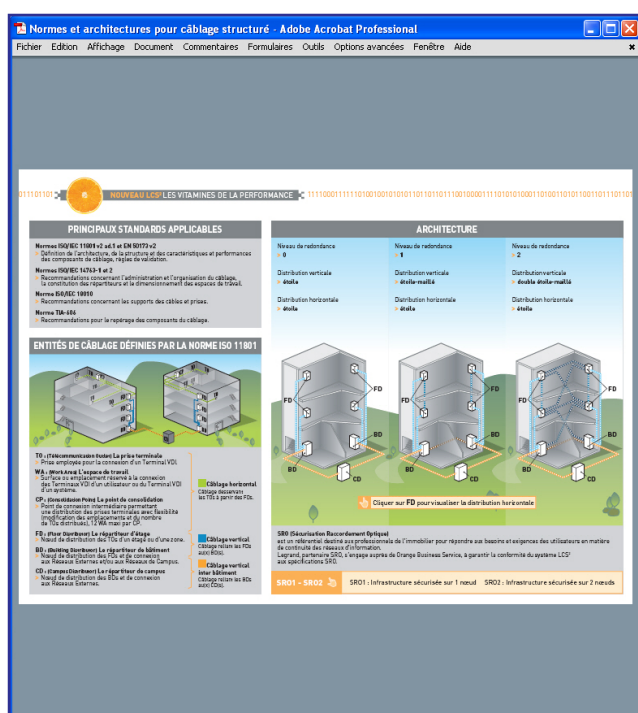
You can manage line styles, colours and fonts used on the design interface and the display method for information texts.



VI. Cabinet management (cont.)

C. Network infrastructure

In the toolbar right-click on  Infrastructure de réseau to display the network infrastructure window.



+ TIP

Double-click on an equipped cabinet for direct access to the parts list and to view the list of its equipment.

If the cabinet is empty, the assistant is displayed.

Parts List module

The Parts List module is used to add the products making up the VDI cabinet, by selecting their characteristics.

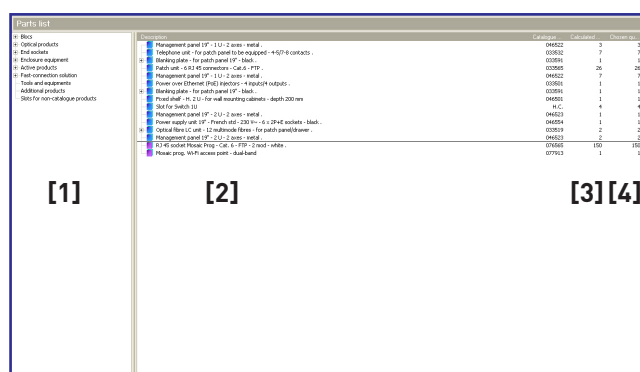
01110101011010100001100101001010010110010100101001000101000100010001010110101010100100100101011011011011100100

22

LCS PRO² IN PRACTICE > Parts List module > I. Introduction

I. Introduction

The Parts list module window has 4 panes.



■ **Pane [1]** shows all the products that may form part of a patch panel. They are classified by families and subfamilies. To display the content of a family, click on the sign to its left. Click on the sign to hide it again.

■ **Pane [2]** displays the products arranged in the order in which they were entered, grouping the accessories or the area of positioning in the enclosure under the main product. To display the accessory products or the areas, click on the sign to the left of the main product. This list is described as active as it can be used to make modifications.

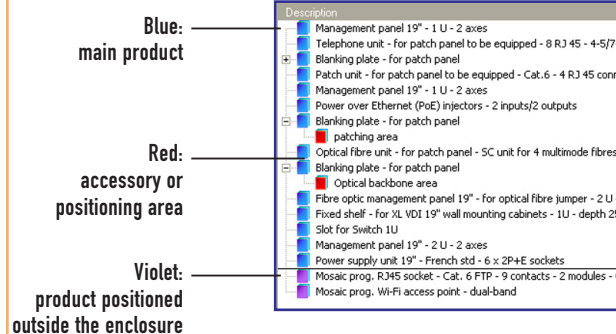
■ **Pane [3]** displays the quantity entered automatically by the Assistant.

■ **Pane [4]** displays a quantity that you can modify and which will be used in the remainder of the software (see page 26).

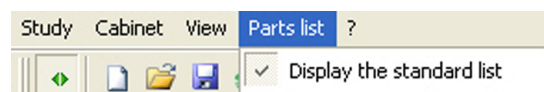
NB: A standard list can be displayed by ticking the corresponding option in the Parts list menu in the menu bar.

+ TIP

The colour helps to identify the products.



+ TIP



You can display or hide the second column by clicking on "Display the standard list" in the Parts List. Uncheck to hide.

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II. Selecting products

A. Characteristics selection windows

Selecting a subfamily in the first pane will open a window showing the characteristics and options for this type of product and its accessories. This window is different for each subfamily. However, the list of catalogue numbers corresponding to the characteristics and options selected is always shown in the bottom left-hand corner. The and buttons are used to adjust the quantity of products with identical characteristics and options that you want to add to the composition of the VDI cabinet.

Click on **Add** to confirm, then on **Close** to change product type.

B. Examples of selecting products

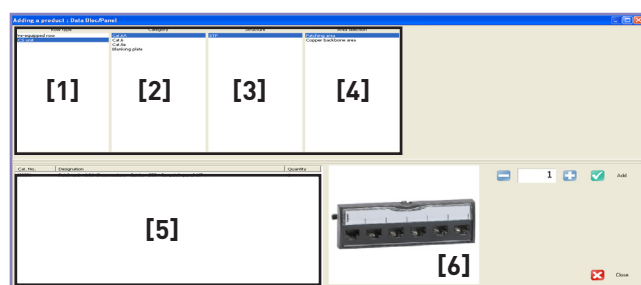
1. Selecting a copper LCS unit

In the first pane of the **Parts list** window, open the **Bloc/Panel** family.

The units are divided into several subfamilies:

- Data Bloc/Panel
- Telephone Bloc/Panel.

Select the **Data Bloc/Panel** subfamily.



The characteristics selection window is divided into several parts.

■ Column **[1]** relates to selection of the row type; here the selection is LCS unit. By default, a standard image is displayed **[6]**.

■ Column **[2]** corresponds to the category selection.

■ Column **[3]** is used to select the structure type. To ensure consistency of mounting with earthing, it is essential to select the same category for the unit and the panel to which it will come. For example: 1 FTP unit for mounting on 1 FTP panel.

■ Area **[4]** is used to pre-position the unit, at the correct location, in the VDI cabinet.

■ The summary **[5]** displays the catalogue number of the main product and all the catalogue numbers of the associated products in accordance with your selections.

The various options must be chosen in the order in which they are presented (from left to right and from top to bottom). You must therefore start by choosing the row type, the category, then the structure and finally the area.

The options offered in each column vary depending on the choices made in the preceding columns: they are an exact reflection of the Legrand offer.

Parts List module

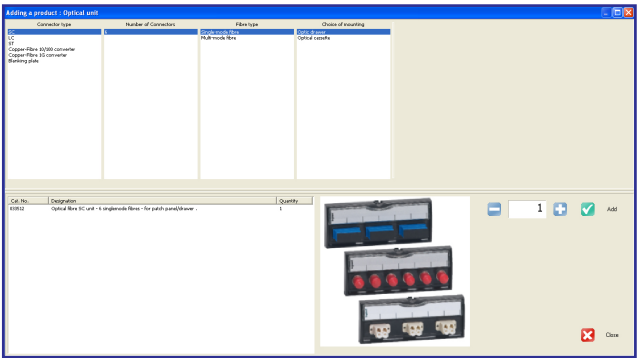
II. Selecting products (cont.)

2. Selecting an optical fibre LCS unit

Open the **Optical Products** family and select the **Optical unit** subfamily.

Selection of the characteristics always starts with the type of connector, and then the number.

This is followed by fibre type and choice of mounting.



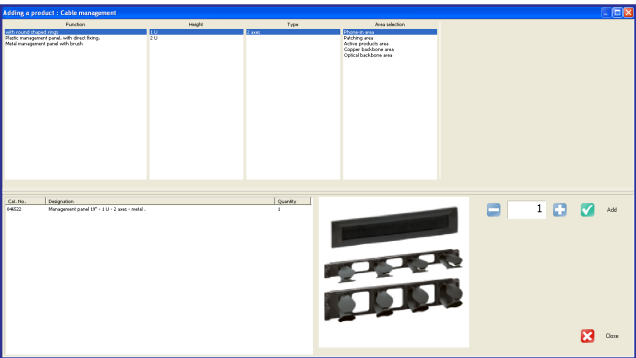
+ TIP

Blanking plates can be added to the installation in the families relating to blocs (data, telephone or optical).

3. Selecting enclosure equipment

Open the **Enclosure equipment** family, then select the **Cord management** subfamily (for example for selecting 1 feedthrough).

Selection of the characteristics always starts with the function, the height, the type and finally area selection.



+ TIP

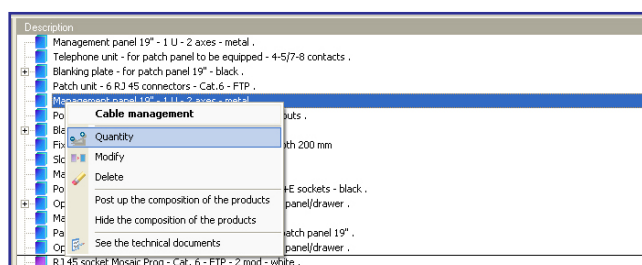
The Location family for non-catalogue products is used to reserve locations in the VDI cabinet for generic active equipment (switches, servers, etc.).

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II. Selecting products (cont.)

The active list can be used to make corrections to the parts list. If the names of the products are truncated, you can hide the standard list to free up more space on the screen (see page 22).

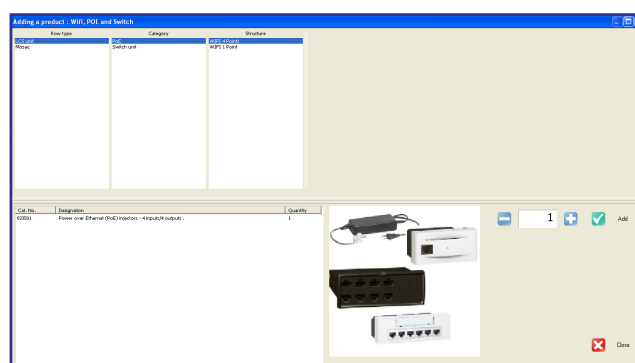
Right-click on the product you want to change, then select the required operation in the popup menu.



4. Selecting a POE injector

Open the **Active Products** family and select the Wi-fi, POE and Switch subfamily.

Selection of the characteristics always starts with the row type, the category and finally the structure.



Parts List module

III. Modifications

A. Changing the quantity

To change the quantity of identical products, select **Quantity**, then use the **-** and **+** buttons to set the new quantity required. The cursor or the keyboard (direction arrows) can also be used.



■ Adding LCS units

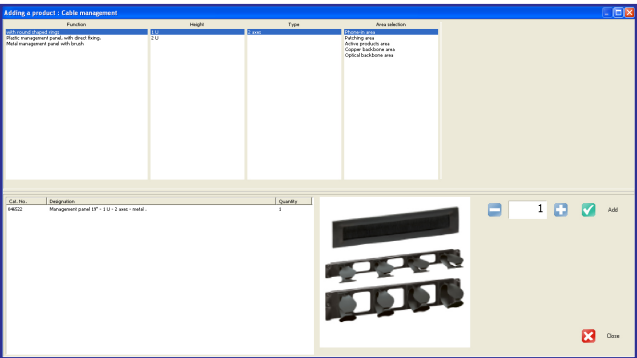
- Right-click on the line **Telephone input unit** in the active list
- Select **Quantity** in the popup menu
- Change the quantity to **5**
- Click on the **Confirm** button

The new quantity immediately appears in the last column in the list.

B. Modifying characteristics and options

1. Modifying a device

To modify the characteristics and options of a device, select Modify in the popup menu. The changes are made in a window which is identical to the Add a product window. The list of catalogue numbers [1] reflects the changes made. The **Confirm** button is replaced by the **Confirm** button [2].



! CAUTION

You can make as many changes as you want, but, as is the case when adding a product, the subsequent columns can be reset if the options that were previously chosen are no longer compatible with the modifications. Check your data carefully before confirming it.

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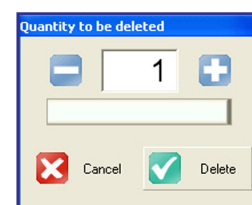
III. Modifications (cont.)

+ TIP

The “Quantity” field can be used to adjust the number of products to be modified. Thus, if the parts list of your VDI cabinet contains several identical products, it is possible to change only some of them by adjusting the quantity required before confirming the operation. By default, the quantity is set to the total number of products.

C. Deletion

To delete one or more products, select Delete in the popup menu. In the window that appears, adjust the number of products you want to remove then click on the **Delete** button.



+ TIP

It is not possible to delete an associated product or an accessory directly, as this operation would delete the main product. The latter forms a whole together with its associated products. The Modify option must be used to perform this type of operation.

! CAUTION

Consider configuring automatic saving in the menu:
Study > Parametrize the automatic backup.

Enclosures module

When the Enclosures module is opened, LCS PRO² automatically calculates the enclosures with the capacity to house all the products used in the cabinet. This calculation takes into account the dimensions of the devices, their fixing mechanisms and the space required to connect them.

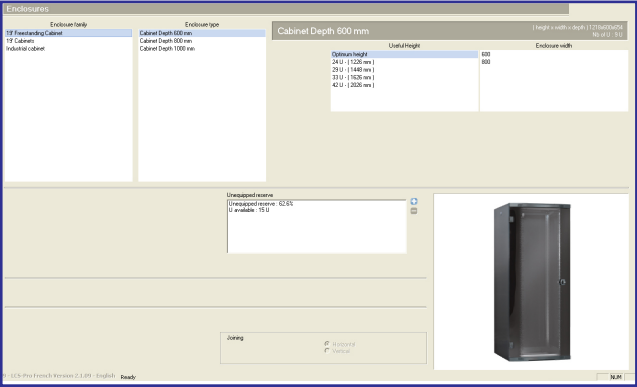
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I. Introduction

The module window shows the choices available and can be used to select the characteristics and adjust the reserve.

Depending on the type of enclosure chosen, LCS PRO² immediately calculates the overall dimensions and the total height of the elements in number of Us used, while taking into account the number of enclosures required.

This information is visible in the upper banner of the window.



II. Selecting the enclosure

Enclosures are classified into **several families**: freestanding cabinets, industrial cabinets, etc.

After choosing the family, select the **enclosure type** required. The information in the banner on dimensions and height in number of Us is updated automatically.

Next select the **useful height** and the **enclosure width**.

TIP

The photo can be used to check the type of enclosure selected but is not an accurate reflection of the dimensions calculated.

In the useful height column, LCS PRO² calculates the optimum height, but you can choose the required height (LCS PRO² will then reinstall the products in the selected enclosures).

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II. Selecting the enclosure (cont.)

A. U reserve

Enclosures are calculated with a reserve percentage expressed in U which can be adjusted with the and buttons.

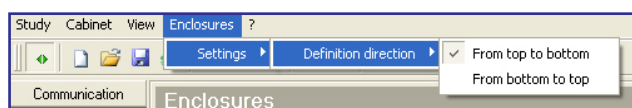
B. Joining

Depending on the enclosure type, horizontal joining may be possible. This choice will obviously modify the dimensions shown in the banner.

CAUTION

As when choosing device characteristics, ensure that you follow the required order when making selections. Any change in a column results in the subsequent columns being reset to their default values.

C. Enclosures menu



Direction of installation

By default, the devices will be installed in the enclosures starting from the top and working down. However, to comply with the practices used in some countries, it is possible to install the products starting from the bottom and working up, using the Enclosures menu > Settings > Definition direction.

Preview module

The preview module displays various views of the VDI cabinet and can be used to make certain adjustments to it: dimensions of the enclosures, product layout, addition of accessories, etc.

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30

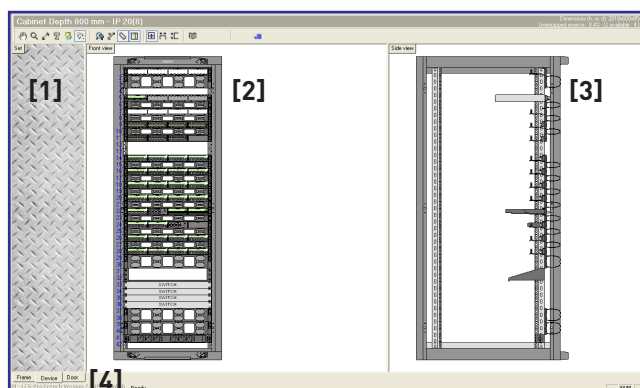
LCS PRO² IN PRACTICE > Preview module > I. Introduction

I. Introduction

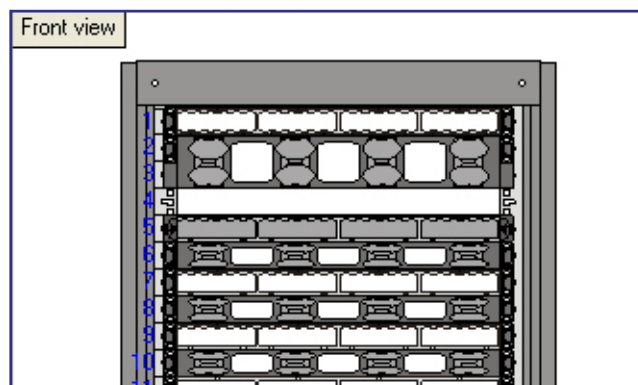
By default the **Visualisation** module window is divided into 2 parts:

- The workbench [1],
for putting products down temporarily
- The front view of the VDI cabinet [2].

A third pane [3] is available for displaying the side view of the VDI cabinet. When the VDI cabinet has several enclosures, you can choose which one will be shown in side view.



1. Chassis tab



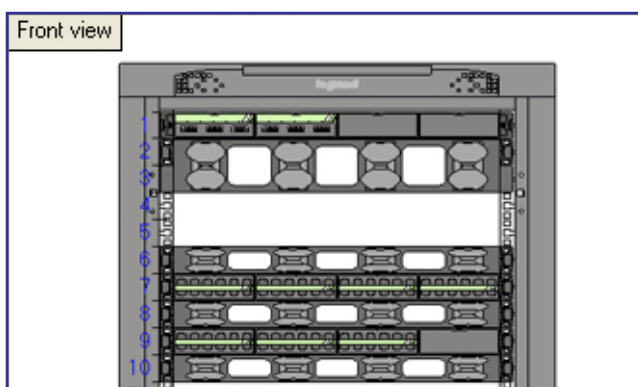
A. Tabs

Les onglets [4], permettent de changer le mode d'affichage

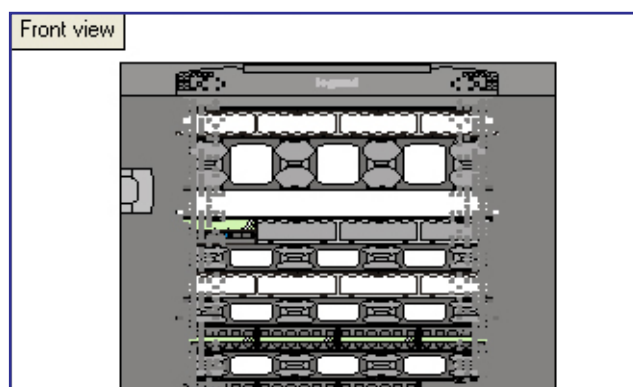
0011110101010001101001101011001101110110101010000110010100101010010110010100101001000101000100010101101010101010

I. Introduction (cont.)

2. Device tab



3. Door tab



B. Toolbars

HAND TOOL:
used for moving in the preview window.

MEASUREMENT TOOL:
calculates the distance between two points.

WORK TOOL:
this is the main tool used to modify the layout of the cabinet.

SHOW/HIDE RULERS:
vertical markings in U.

MAXIMUM WIDTH:
adjusts the size of the display to the width of the enclosure.

MAXIMUM HEIGHT:
adjusts the size of the display to the height of the enclosure.

LIBRARY:
Choice of additional accessories.
See page 35.

TEXT MODE AND DRAWING MODE:
for writing or drawing anywhere in the module.

SHOW/HIDE TEXT

SHOW/HIDE DIMENSIONS

VIEW ALL:
adjusts the size of the display to show the whole enclosure.

SHOW/HIDE SIDE VIEW

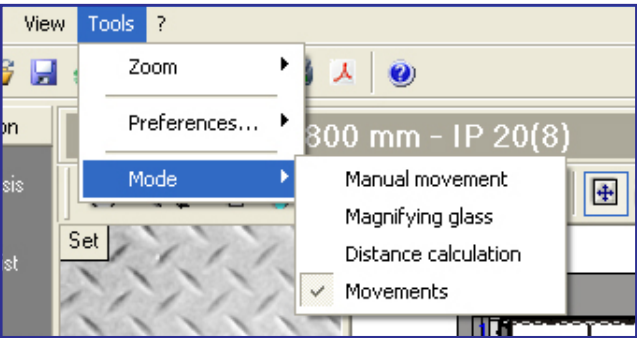
MAGNIFYING GLASS TOOL:
left-click to zoom in,
right-click to zoom out.

Preview module


I. Introduction (cont.)

C. Tools Menu

The **Tools** menu includes some of the functions of the tools described on the previous page.



D. Printing


By default, when you print the preview ( tool in the general toolbar), LCS PRO² automatically adapts the height of the VDI cabinet to the paper format.

The number of pages printed therefore depends on the width of the VDI cabinet. If you want the complete VDI cabinet to appear on a single page, tick **Print complete view** in the **Preferences** item in the **Tools** menu.

! CAUTION

The **Print marking** option can be used to print markers above each device. They may however be illegible on a complete view.

+ TIP

The preview can be exported in EMF or DXF format by selecting the  icon in the general toolbar.

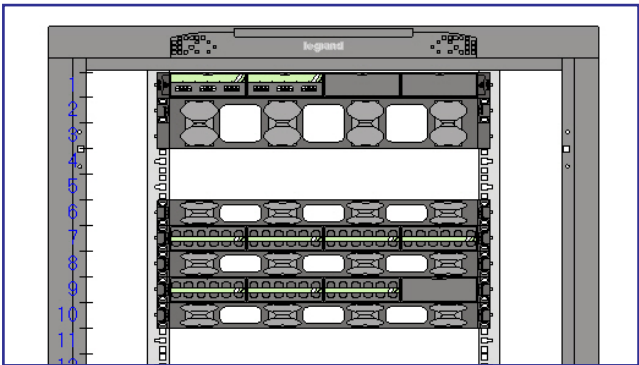
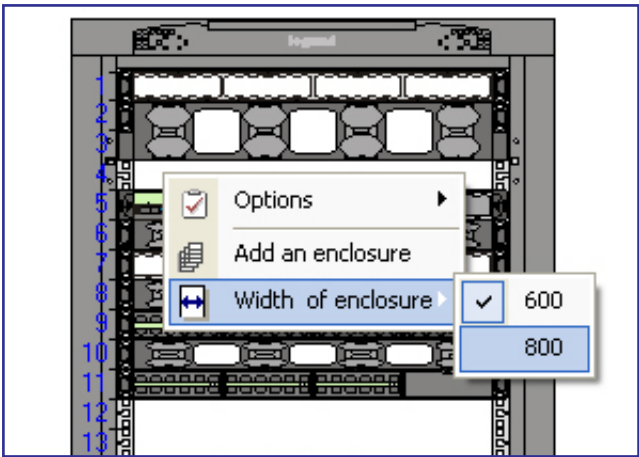
II. Modifying the VDI cabinet

Modifications can be made either directly with the mouse using the **Work tool**, or via the popup menus: right-click on the item to be modified.

The options offered will differ depending on the type of enclosure and where you click.

A. Modifying an enclosure

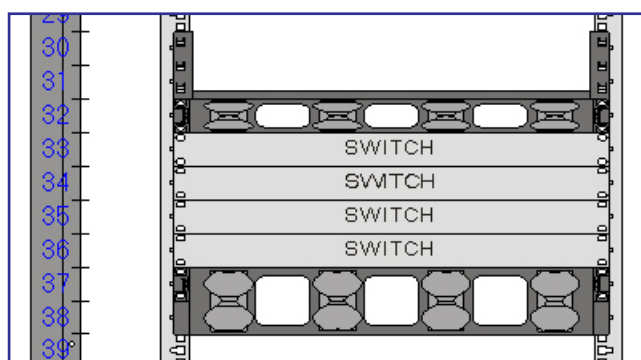
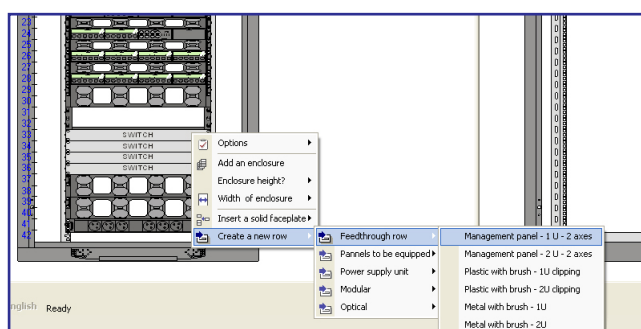
Modifications are limited to the choice of the height of the VDI cabinet, the options specific to the model of enclosure and the movement of devices from one row to another.



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II. Modifying the VDI cabinet (cont.)

B. Modifying an element of the enclosure



■ Inserting feedthroughs

The enclosure can be reorganised by inserting or deleting feedthroughs.

- Go into **Device** preview mode
- Right-click on a feedthrough
- In the popup menu, select **Create a new row/ Feedthrough row**, then select the type of feedthrough
- Choose the required height

The new feedthrough will be inserted above the feedthrough you clicked, shifting the other rows downwards. The rows of devices which no longer fit in the enclosure are placed on the workbench.

To delete a feedthrough, select it, then press the **Del** on the keyboard.

■ Creating or deleting a row

You can create a new row, for various functions, panel to be equipped, feedthrough, power supply unit, optical:

- Right-click below the row to be inserted
- Select **Create a new row** in the popup menu - Tick the type of row required

The new row will be inserted above the row you clicked.

To delete a row, the row must be empty and placed on the workbench. Select the row, then press the **Del** key on the keyboard. You will always be asked to confirm the delete operation.

+ TIP

A row can also be created using a product placed on the workbench.

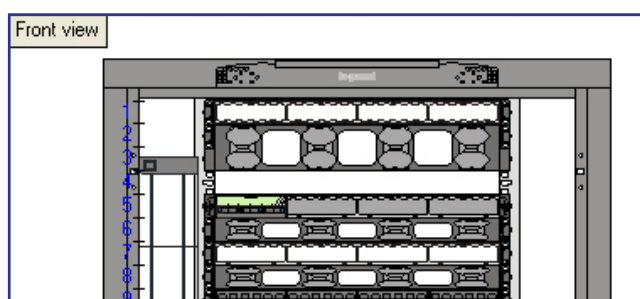
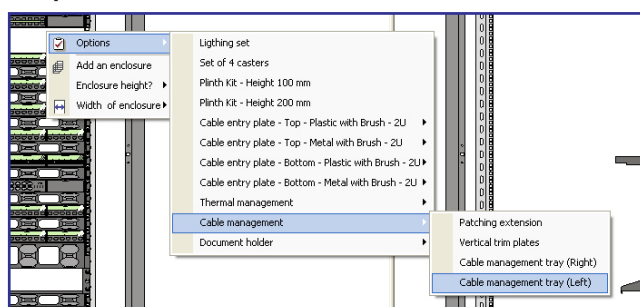
+ TIP

To manipulate the rows, go to **Device view** and click on the row. You can then move the devices, supports and rows. Check carefully that the row is selected before moving.

Preview module

II. Modifying the VDI cabinet (cont.)

Options



Specific equipment will appear, depending on your enclosure model and its configuration.

Simply click to select or deselect options.

CAUTION

The options chosen affect all the enclosures in your previewed VDI cabinets.

Enclosure displayed in side view

You can choose which enclosure you want to display in side view (tool):

- Right-click on the chosen enclosure
- Tick **Enclosure displayed in side view** in the popup menu.

Adding, moving and deleting an enclosure

- Right-click on an enclosure

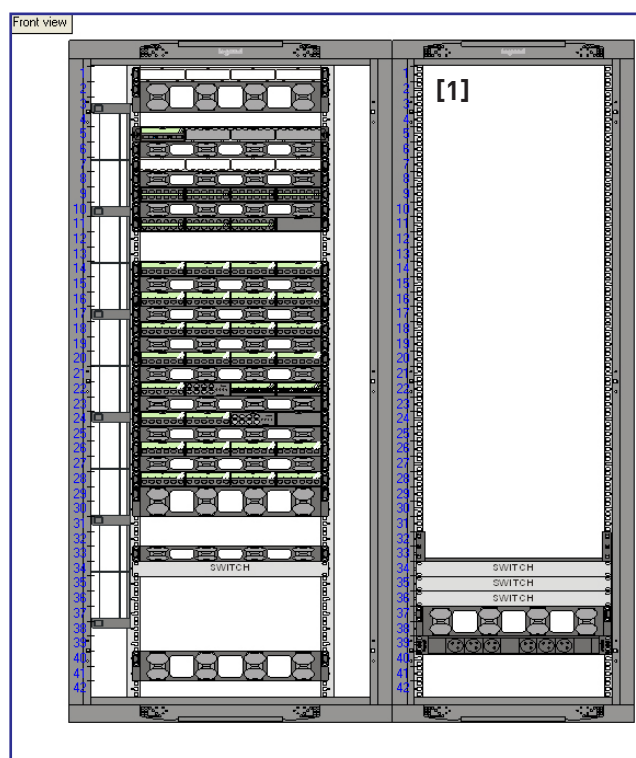
- Select **Add an enclosure**

An enclosure of the same type and with the same dimensions will be added. They are added to the right of the cabinet.

To move an enclosure:

- Left-click on the enclosure
- Drag it to the required location
- Release the mouse button

A coloured bar shows where it will be inserted [1].



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II. Modifying the VDI cabinet (cont.)

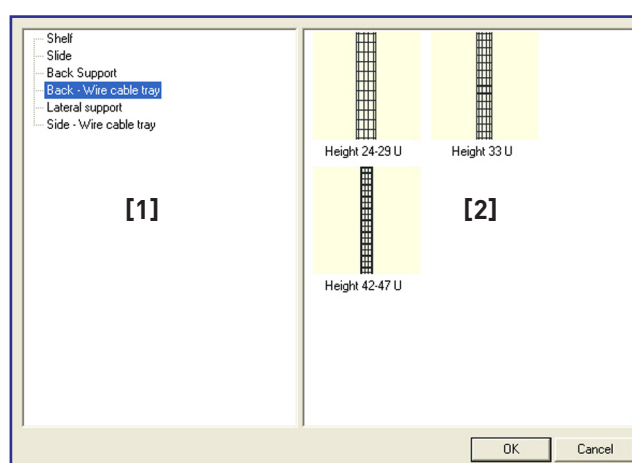
■ Adding new LCS units

To add LCS units, you must return via the **Parts List** module. Then return directly to the **Preview** module. You will see that the new products have been placed on the workbench. They can then be installed in the cabinet.

■ Adding additional equipment

Additional equipment is available in the library: shelves, slides, supports, cable trays.

- Open the library by clicking on the icon in the toolbar
- Select the type of equipment in pane [1]
- Select the model in pane [2]
- Click **OK** to confirm.

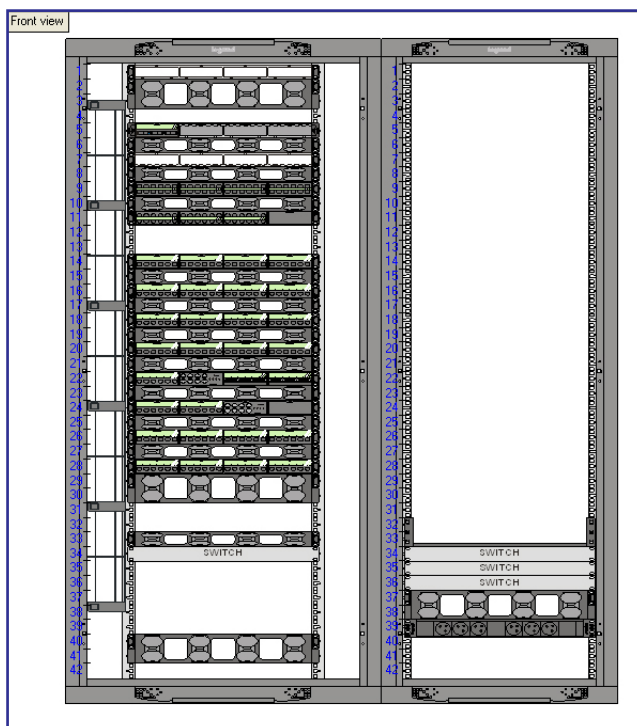


! CAUTION

This procedure should be used for LCS units only. If you add other elements, they may be incompatible with the type of enclosure already defined, resulting in an invalid configuration. Any recalculation of the VDI cabinet in the Enclosures module will result in all the changes already made in Preview being lost.

Preview module

II. Modifying the VDI cabinet (cont.)

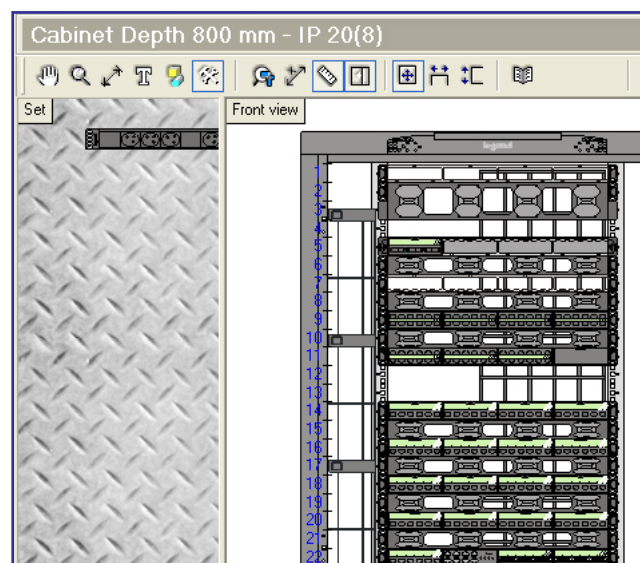


The product is temporarily placed on the workbench. To place it in the enclosure, drag it to the required location on the preview.

The catalogue numbers and quantities required are automatically added to the list of equipment.

■ Installing products in rear view

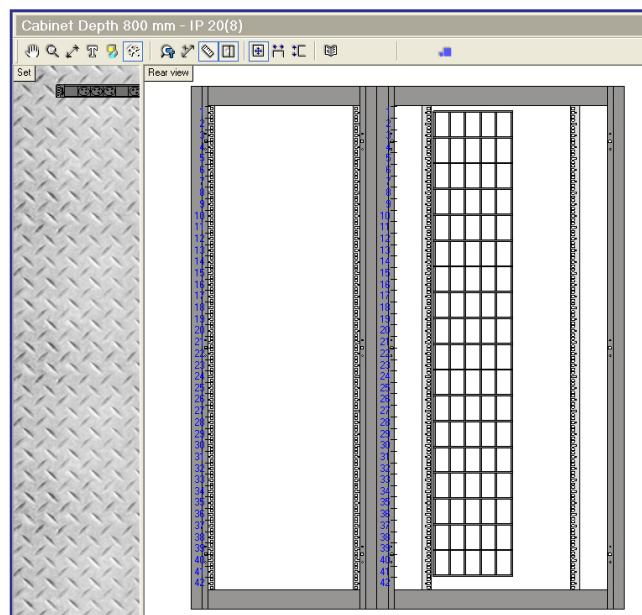
- Select the product you wish to install and drag it on to the workbench.
- Click on **Front view**



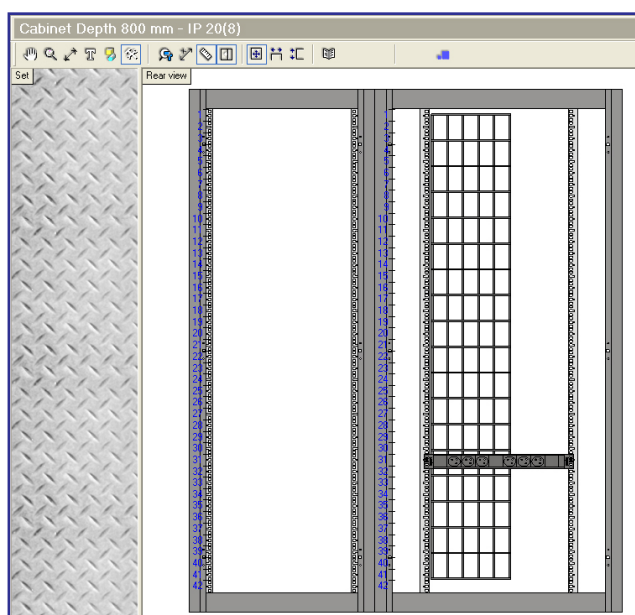
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II. Modifying the VDI cabinet (cont.)

■ The rear view is displayed



■ Drag the product from the workbench onto the rear view



Preview module

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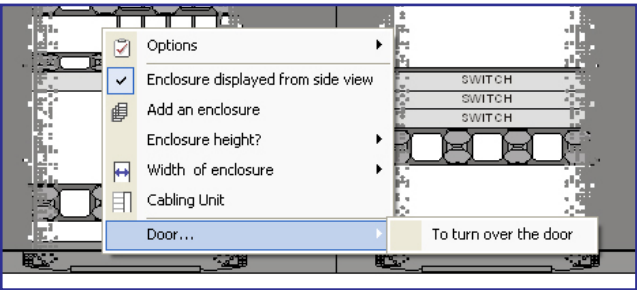
II. Modifying the VDI cabinet (cont.)

■ Enclosure height

- The height of VDI cabinets can be modified in two ways:
- Using the corresponding option in the popup menu which displays all the available heights according to the type of enclosure
 - Directly using the mouse by dragging the top or bottom of the enclosure

If the preview consists of several enclosures joined horizontally, they will all be modified simultaneously. When the height is reduced, the rows of devices which no longer have sufficient space are automatically placed on the workbench. They must then be reinstalled in the VDI cabinet manually (page 39).

1. Door view popup menu



■ Options

Here there are options specific to the doors [1].

■ Door

Option of turning over the selected door.


2. Modifying products

To modify your products, right-click to open the the popup menu: **Modify**. As in the **Parts list** module, the product characteristics window will appear.

3. Moving

■ Moving LCS units

In **Device** preview mode, LCS units can be moved by simply clicking and dragging.

The  sign indicates locations where you cannot place the device.

LCS units can be moved freely on their row or from one row to another provided there is sufficient space and the row is compatible (for example, FTP is associated with FTP).

This space can be temporarily freed up by moving devices to the workbench (left-hand pane of the preview window) or by creating a new row.

If there are a number of enclosures, to move several devices in one row to another enclosure you must press the **Control (Ctrl)** key on your keyboard at the same time as you move them. If you do not do this, you will move the whole enclosure.

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II. Modifying the VDI cabinet (cont.)

■ Moving complete rows or rows of equipment

Using the same procedure as for moving LCS units, whole rows can be moved within an enclosure or from one enclosure to another.

To do this, select **Device** preview mode. Click on the side of the row to be moved and drag it.

! CAUTION


To avoid moving products accidentally, make sure you select the row and not the devices below it.

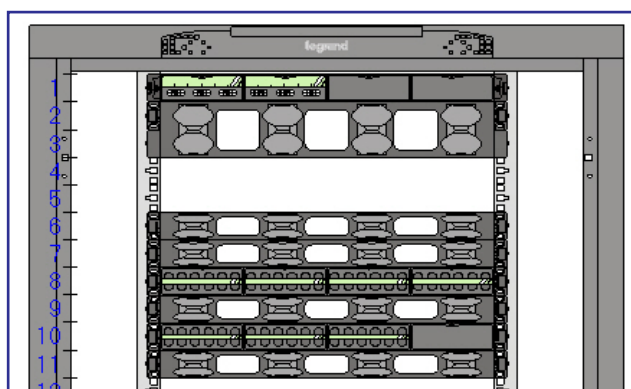
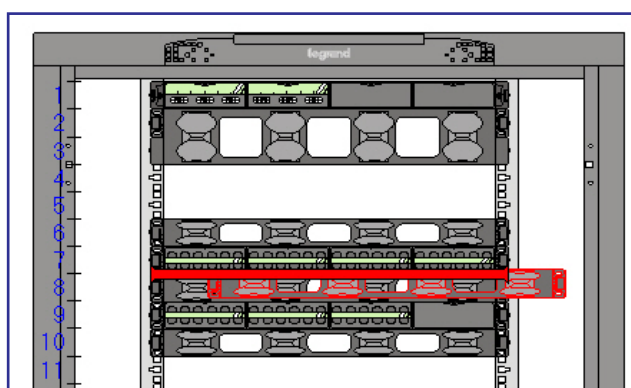
If there are a number of enclosures and several products are to be moved, ensure you press the **Control (Ctrl)** key before you make your selection.

+ TIP

The Del key can be used to send a row or an entire device directly to the workbench, without any risk of accidentally deleting them. Everything shown on the workbench belongs to the VDI cabinet and appears in the overall parts list.

A coloured bar shows where the row will be inserted.

The  sign indicates that the row cannot be inserted at that point. To free up space temporarily, rows can be placed on the workbench. When you move a row, the other rows are readjusted automatically. When moving rows from one enclosure to another, if there is insufficient space available, the surplus row(s) are placed on the workbench.



The Summary and Project Summary modules are used to draw up the purchase orders and provide the overall costing or costing per VDI cabinet, based on your personal parameters. All the documents contained in the study can be printed out to make up the folder.


A. Introduction

Copper Cords and Cables Optical Cable Equipment List Equipment Costing Cabinet Price Purchase Order Technical Summary

1. Tabs

■ Cords and Cables

Summary - Copper Cords and Cables														
Cable	Patch Cord		Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e	
	Length	SP5UTP	PL5UTP	UL5UTP	SP5UTP	PL5UTP	UL5UTP	SP5UTP	PL5UTP	UL5UTP	SP5UTP	PL5UTP	UL5UTP	
	0.5m	-	0	-	-	-	-	-	-	-	-	-	-	
	0.9m	-	0	-	-	-	-	-	-	-	-	-	-	
	1.5m	-	0	-	-	0	0	0	0	0	0	0	0	
	2.5m	-	0	-	-	0	0	0	0	0	0	0	0	
	3m	-	0	-	-	0	100	0	0	0	0	0	0	
User Cord	Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e	
	Length	SP5UTP	PL5UTP	UL5UTP	SP5UTP	PL5UTP	UL5UTP	SP5UTP	PL5UTP	UL5UTP	SP5UTP	PL5UTP	UL5UTP	
	2m	-	0	-	0	-	0	0	0	0	0	0	0	
	3m	-	0	-	0	-	0	0	0	0	0	0	0	
	5m	-	0	-	0	-	0	0	0	0	0	0	0	
Cable	Copper		Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e		Cat 5e	
	Pairs	Type	Screen	Pack	Quantity (m)	Type	Screen	Pack	Quantity (m)	Type	Screen	Pack	Quantity (m)	
	2x4 Pairs	UL5UTP	LS2N	500m	0	UL5UTP	LS2N	500m	0	-	-	-	-	
	2x4 Pairs	PL5UTP	LS2N	500m	0	PL5UTP	LS2N	500m	0	-	-	-	-	
	2x4 Pairs	-	-	-	0	SP5UTP	LS2N	500m	0	-	-	-	-	
	4 Pairs	UL5UTP	LS2N	300m	0	UL5UTP	LS2N	300m	0	-	-	-	-	
	4 Pairs	UL5UTP	LS2N	500m	0	UL5UTP	LS2N	500m	0	-	-	-	-	
	4 Pairs	PL5UTP	LS2N	300m	0	PL5UTP	LS2N	300m	0	SC8P	PL5UTP	LS2N	500m	
	4 Pairs	PL5UTP	LS2N	500m	0	PL5UTP	LS2N	500m	0	-	-	-	-	
	4 Pairs	-	-	-	0	SP5UTP	LS2N	500m	0	SP1TP	LS2N	500m	0	
4 Pairs	-	-	-	0	Multimedia	LS2N	250m	0	-	-	-	-		


[Go to Options Cable](#)

[Copper Cables and Cables](#) | [Optical Cables](#) | [Equipment Cords](#) | [Equipment Cabling](#) | [Cabinet Pans](#) | [Purchase Order](#) | [Technical Summary](#)

Pages for 2023/01/01

■ Optical cables

This screen consolidates the quantities of cables calculated by the assistant. You can modify the pre-filled metre values by doubleclicking on the table cells.

Summary - Optical Cable									
Optical	OM3	OM3Lpm	OM3	OM3Lpm	OM3	OM3Lpm	OM3	62 OM3Lpm	
	Pack	Quantity (x)	Pack	Quantity (x)	Pack	Quantity (x)	Pack	Quantity (x)	
34.0 Cat. 6 Fibre	2000m	0	2000m	0	-	-	-	-	-
Ext. 6 Fibre	2000m	0	-	-	-	-	-	-	-
34.0 Cat. 12 Fibre	-	-	2000m	0	-	-	-	-	-
Ext. 12 Fibre	-	-	-	-	-	-	-	-	-
34.0 Cat. 6 Fibre - Tight	-	-	-	-	2000m	0	-	-	-
34.0 Cat. 12 Fibre - Tight	-	-	-	-	2000m	0	-	-	-

+ TIP

 : recalculate

 : delete

■ Equipment List

This tab shows a complete list of the catalogue numbers making up the defined VDI cabinet(s).

[illegible]

I. Summary (cont.)

■ Equipment Costing

The **Equipment Costing** tab can consist of two windows:


- One for **Legrand** equipment
- A second for additional equipment, if any is used (page 58).

The **Rate U.P.** column gives the unit price of each catalogue number based on the **Legrand** price list included in LCS PRO².

The **Net U.P.** column shows the unit price for each catalogue number after deduction of your overall discount which you must enter in the **Discount** field below the table.

Each net price can also be modified individually by double-clicking on the corresponding line.

Any prices changed in this way are shown in red.

These changes can be cancelled by clicking on the **Return to default costing**  button.


The **Net total** of the **Legrand** equipment purchases is updated after each modification.

[illegible]

■ Purchase order

The **Purchase Order** tab displays the costed list of **Legrand** catalogue numbers used in the cabinet.

If you already have some of these products in stock, you can delete them or change the quantities you need to order by double-clicking on the relevant line.

The totals are then automatically recalculated. To cancel these changes, click on the **Return to default purchase order** button .

Summary - Purchase Order

Thank you to consult your regional agency Legend or the external EA Legend to know the fact applicable price

Reference	Description	Quantity	Rate Unit	Net Unit	Net Total
00296 V	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	520	1,200.00	1,560.00	414.00
00328	slide management 190 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	204,000.00	204,000.00	204.00
00330	new one threaded 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	204,000.00	204,000.00	204.00
00332	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	136,800.00	136,800.00	136.80
00351	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	4	30,000.00	120,000.00	30.00
00352	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	4	34,000.00	136,000.00	34.00
00353	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	2	71,000.00	142,000.00	142.00
00355	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	376,000.00	376,000.00	376.00
00362	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	3	37,000.00	111,000.00	111.00
00363	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	3	295,000.00	885,000.00	885.00
00364	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	2	54,000.00	108,000.00	108.00
00365	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	92,000.00	92,000.00	92.00
00366	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	8	54,000.00	432,000.00	432.00
00367	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	2	8,000.00	16,000.00	16.00
00413	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	1,500,000.00	1,500,000.00	1,500.00
00422	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	1,500,000.00	1,500,000.00	1,500.00
00423	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	41,000.00	41,000.00	41.00
00427	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	86,000.00	86,000.00	86.00
00430	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	8	70,000.00	560,000.00	560.00
00432	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	11	47,000.00	517,000.00	517.00
00433	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	4	54,000.00	216,000.00	216.00
00434	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	86,000.00	86,000.00	86.00
00435	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	220	15,000.00	3,300,000.00	3,300.00
00436	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	10	11,000.00	110,000.00	110.00
00763	pin-clip -C4 - 1/2" - 3/16" x 1/16" L326 (screws) (no rate)	1	762,000.00	762,000.00	762.00
Please print with correct price - dual band					
Total					12810.00
Copy Data Print Email Share Export Import Export Import Export Import					12810.00

■ Costing

The **Costing** tab features 3 zones that distinguish the 3 major cost types: equipment, materials, labour.

This tab enables you to manage your margins, in particular by modifying discount percentages.

Summary - Cabinet Price

Thank you to control your regional agency (logged in this website) (do I want to know the last applicable price)

EQUIPMENT

Discount

Logged-in equipment purchase net price

Additional equipment net price

Net equipment purchase

MATERIAL

Cable system ☐

Net for material purchase

Gross Weight

Net value of material

ESTIMATED LABOUR

Lab. unit

Labour estimate (in hour(s)) ☐

Hourly Rate

Labour costs

Transport

Validation

Cabinet net price incl. of taxes

Summaries

01110101011010100001100101001010010110010100101001000101000100010001010110101010100100100101011011011100100

42

LCS PRO² IN PRACTICE > Summaries > I. Summary

I. Summary (cont.)

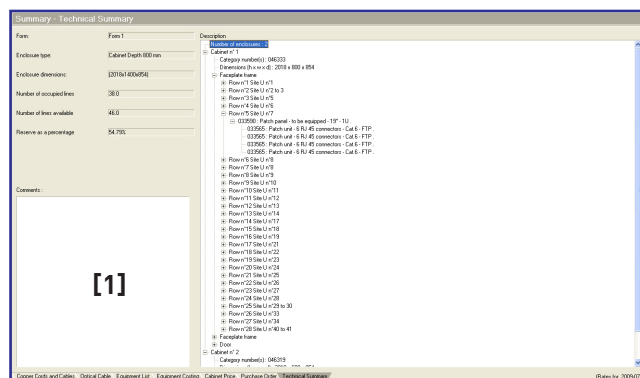
■ Technical summary

This page displays general technical information and a complete description of the cabinet.

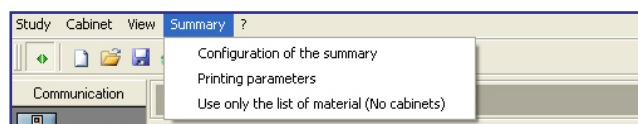
This is presented in the form of a tree structure. Its branches can be expanded or contracted by clicking on the **+** and **-** signs.

It contains all the catalogue numbers classified by enclosure and by row.

Comments can be added in the window next to it [1]. These comments can be printed out in the technical summary document.



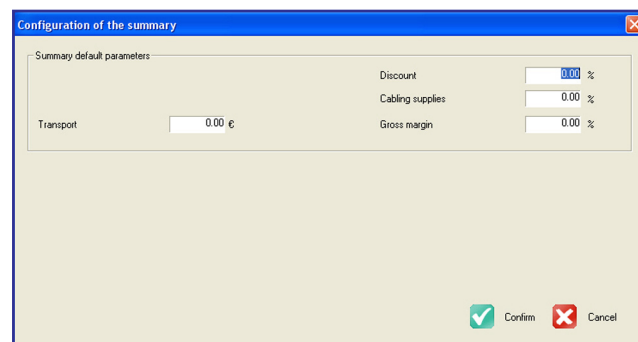
2. Summary menu



+ TIP

The Summary module displays the summary for the current cabinet.

■ Configuration of the summary

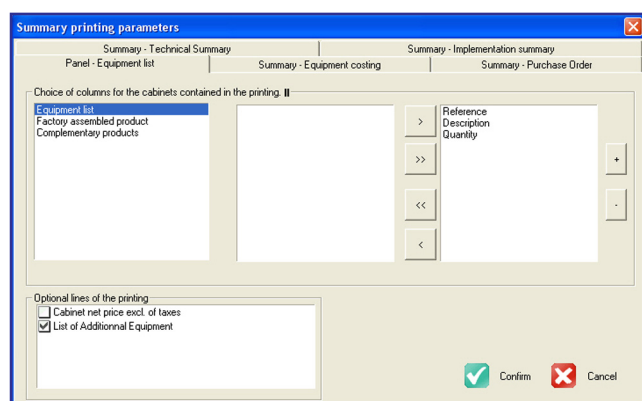


Here you can set the parameters for your current cabinet and for subsequent cabinets, for the following variables: **Discount**, **Cabling supplies**, **Gross margin** and **Transport**.

0011110101010001101001101011001101110110101010000110010100101010010110010100101001000101000100010101101010101010

I. Summary (cont.)

■ Summary printing parameters



Choosing columns for the tables

This window is used to select the data you want to show when printing all the tabs, and the order in which you want it to appear.

The fields selected are located in the right-hand part of the window in the respective tabs.

Use the and buttons to move the fields from one side to the other. The and buttons move all the fields at once.

The and arrows to the right of the window are used to change the order by moving the selected field up or down. Confirm the printing options by clicking on **Confirm**.

Optional printing lines

Depending on the selected tab, these are used to select or not select a type of information for printing. This function enables you to make certain information public.

Summaries

011101010110101000011001010010101001011001010010100100010100010001000101011010101010010010010101101101101100100

I. Summary (cont.)

! CAUTION

When you print your purchase order, the following will be produced:

- A purchase order for the Legrand equipment list
- A purchase order specific to your factoryassembled products
- A purchase order specific to the additional equipment.

These two specific purchase orders are only produced if they have been selected in the printing parameters.


■ **Only use the parts list (no enclosures)**

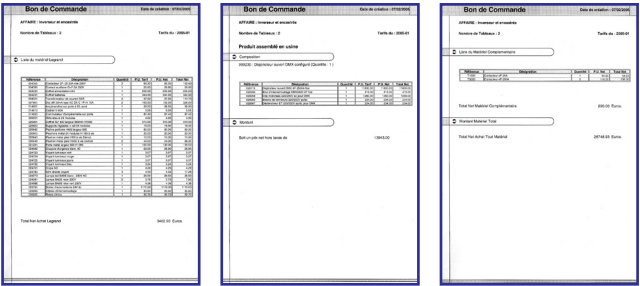
This menu is very useful if you want to order products with no enclosure. The enclosure and products specific to the enclosure are removed from the summary.

+ TIP

You can achieve the same result by not using the enclosures module.

+ TIP

You can export all or part of your Summary using the  icon. You can choose between text or CSV format.




Summaries

01110101011010100001100101001010100101100101001010010001010001000101011010101010100100100101011011011100100

II. Project summary (cont.)

■ Equipment List

This tab gives you a summary of the complete list of products in your study. The total quantity of each product and its catalogue number are given. All factory-assembled equipment is grouped together under one heading. To find out the specific composition of the product, click on  in the left-hand column.

Summary Study - Equipment list				
Reference	Quantity	Designation	Unit Price (EUR)	Total (EUR)
002701	7	Patch panel - Cat. A - equipped 24 RJ 45 - 1 U - FFP - 9 contacts	296.0000	2072.00
002706	1	Patch panel to be equipped - UFP - 1U - 24 RJ 45 connectors - plain	53.1000	53.10
002707	2	Patch panel to be equipped - FFP/STP - 1U - 24 RJ 45 connectors - plain	57.3000	114.60
002708	3	Telephone unit - for patch panel to be equipped - RJ 45 - 4/5/7/8 contacts	307.0000	921.00
002709	1	Panel for telephone networks - equipped 48 RJ 45 - UFP - contacts 4/5/7/8	347.0000	347.00
002710	2	Patch unit - for patch panel to be equipped - Cat. A - RJ 45 connectors - UFP	45.4000	90.80
002711	4	Patch unit - for patch panel to be equipped - Cat. A - RJ 45 connectors - FFP	45.5000	182.00
002712	2	Patch panel - 10 Giga - equipped 24 RJ 45 - STP - 1U - 9 contacts	416.0000	832.00
002713	2	Patch panel - 10 Giga - equipped 24 RJ 45 - STP - 1U - 9 contacts	416.0000	832.00
002714	9	Blanking plate - for patch panel	7.7700	69.93
002756	6650	LAN cable - Cat. 6 - F/UTP - 4 pairs - L 500m - LSZH sleeve (invoked by meter)	1.0000	6650.00
003139	1	Earthling kit - for RJ 45 19" cabinets - L 250 mm	37.8000	37.80
003200	1	Cabinet 18 VCE 19" - metal - 29 U - 1533x600x600 mm	1250.0000	1250.00
003256	12	Management panel 19" - 1 U - 2 axes	762.0000	9144.00
004051	1	Cabinet 18 VCE 19" - metal mounting printing version - RJ - 500x400x600 mm	762.0000	762.00
004645	1	Uprights 19" (2) - for 18 VCE 19" cabinets 600 mm depth - 29 U	83.3000	83.30
004646	40	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 1 m	7.1000	284.00
005762	150	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 2 m	10.3000	1545.00
005763	120	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 3 m	13.6000	1632.00
005764	190	House prep. RJ 45 socket - Cat. 6 FFP - 9 contacts - 2 modules - white	10.7000	2033.00

■ Equipment costing

The **Equipment costing** tab gives a list of the equipment with the Unit Prices, Net Unit Prices and the Net Total (see page 41).

A separate block gives you the same information for your additional products.

Summary Study - Legend equipment costing				
Reference	Quantity	Designation	Unit Price (EUR)	Total (EUR)
002701	7	Patch panel - Cat. A - equipped 24 RJ 45 - 1 U - FFP - 9 contacts	296.0000	2072.00
002706	1	Patch panel to be equipped - UFP - 1U - 24 RJ 45 connectors - plain	53.1000	53.10
002707	2	Patch panel to be equipped - FFP/STP - 1U - 24 RJ 45 connectors - plain	57.3000	114.60
002708	3	Telephone unit - for patch panel to be equipped - RJ 45 - 4/5/7/8 contacts	307.0000	921.00
002709	1	Panel for telephone networks - equipped 48 RJ 45 - UFP - contacts 4/5/7/8	347.0000	347.00
002710	2	Patch unit - for patch panel to be equipped - Cat. A - RJ 45 connectors - UFP	45.4000	90.80
002711	4	Patch unit - for patch panel to be equipped - Cat. A - RJ 45 connectors - FFP	45.5000	182.00
002712	2	Patch panel - 10 Giga - equipped 24 RJ 45 - STP - 1U - 9 contacts	416.0000	832.00
002713	2	Patch panel - 10 Giga - equipped 24 RJ 45 - STP - 1U - 9 contacts	416.0000	832.00
002714	9	Blanking plate - for patch panel	7.7700	69.93
002756	6650	LAN cable - Cat. 6 - F/UTP - 4 pairs - L 500m - LSZH sleeve (invoked by meter)	1.0000	6650.00
003139	1	Earthling kit - for RJ 45 19" cabinets - L 250 mm	37.8000	37.80
003200	1	Cabinet 18 VCE 19" - metal - 29 U - 1533x600x600 mm	1250.0000	1250.00
003256	12	Management panel 19" - 1 U - 2 axes	762.0000	9144.00
004051	1	Cabinet 18 VCE 19" - metal mounting printing version - RJ - 500x400x600 mm	762.0000	762.00
004645	1	Uprights 19" (2) - for 18 VCE 19" cabinets 600 mm depth - 29 U	83.3000	83.30
004646	40	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 1 m	7.1000	284.00
005762	150	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 2 m	10.3000	1545.00
005763	120	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 3 m	13.6000	1632.00
005764	190	House prep. RJ 45 socket - Cat. 6 FFP - 9 contacts - 2 modules - white	10.7000	2033.00

■ Purchase order

(see page 41)

Summary Study - Purchase order				
Reference	Quantity	Designation	Unit Price (EUR)	Total (EUR)
002701	7	Patch panel - Cat. A - equipped 24 RJ 45 - 1 U - FFP - 9 contacts	296.0000	2072.00
002706	1	Patch panel to be equipped - UFP - 1U - 24 RJ 45 connectors - plain	53.1000	53.10
002707	2	Patch panel to be equipped - FFP/STP - 1U - 24 RJ 45 connectors - plain	57.3000	114.60
002708	3	Telephone unit - for patch panel to be equipped - RJ 45 - 4/5/7/8 contacts	307.0000	921.00
002709	1	Panel for telephone networks - equipped 48 RJ 45 - UFP - contacts 4/5/7/8	347.0000	347.00
002710	2	Patch unit - for patch panel to be equipped - Cat. A - RJ 45 connectors - UFP	45.4000	90.80
002711	4	Patch unit - for patch panel to be equipped - Cat. A - RJ 45 connectors - FFP	45.5000	182.00
002712	2	Patch panel - 10 Giga - equipped 24 RJ 45 - STP - 1U - 9 contacts	416.0000	832.00
002713	2	Patch panel - 10 Giga - equipped 24 RJ 45 - STP - 1U - 9 contacts	416.0000	832.00
002714	9	Blanking plate - for patch panel	7.7700	69.93
002756	6650	LAN cable - Cat. 6 - F/UTP - 4 pairs - L 500m - LSZH sleeve (invoked by meter)	1.0000	6650.00
003139	1	Earthling kit - for RJ 45 19" cabinets - L 250 mm	37.8000	37.80
003200	1	Cabinet 18 VCE 19" - metal - 29 U - 1533x600x600 mm	1250.0000	1250.00
003256	12	Management panel 19" - 1 U - 2 axes	762.0000	9144.00
004051	1	Cabinet 18 VCE 19" - metal mounting printing version - RJ - 500x400x600 mm	762.0000	762.00
004645	1	Uprights 19" (2) - for 18 VCE 19" cabinets 600 mm depth - 29 U	83.3000	83.30
004646	40	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 1 m	7.1000	284.00
005762	150	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 2 m	10.3000	1545.00
005763	120	Patch console cord RJ 45 - Cat. A - F/UTP screened - LSZH - 3 m	13.6000	1632.00
005764	190	House prep. RJ 45 socket - Cat. 6 FFP - 9 contacts - 2 modules - white	10.7000	2033.00

■ Commercial summary

This tab provides the whole of your study in the form of a simple summary (for viewing only).

Summary Study - Commercial summary	
Rate total	19080.114
Number of cabinets	3
Total Net Legend Equipment	19080.114
Total Net Other Equipments	0.004
Total Equipment	19080.114
Total Cabling Supplies	0.006
Total Equipment Purchase	19080.114
Total Gross margin	0.006
Total Sale Equipment	19080.114
Total Net	0.00
Total Estimated labour	0.004
Total Transport	0.004

0011110101010001101001101011001101110110101010000110010100101010010110010100101001000101000100010101101010101010

II. Project summary (cont.)

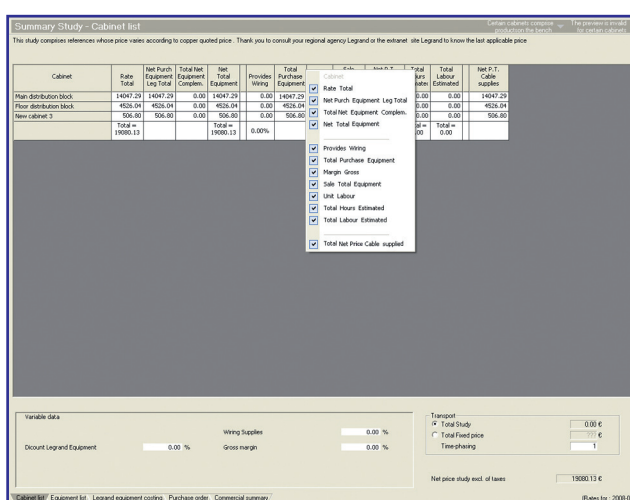
2. Project Summary menu

(see page 45)

B. Modifications

1. Configuring the VDI cabinet list

In the **Cabinet list** tab, you can select or deselect the columns to be printed or not printed by right-clicking on any column.



+ TIP

If you have a large number of columns to select or deselect, it is preferable to use **Project Summary > Printing parameters**, as in the **Summary module**.

2. Export

Click on in the menu bar to export all or part of your Project Summary.

There are two possible formats: text or CSV.

+ TIP

This option is also valid for the **Summary module**.

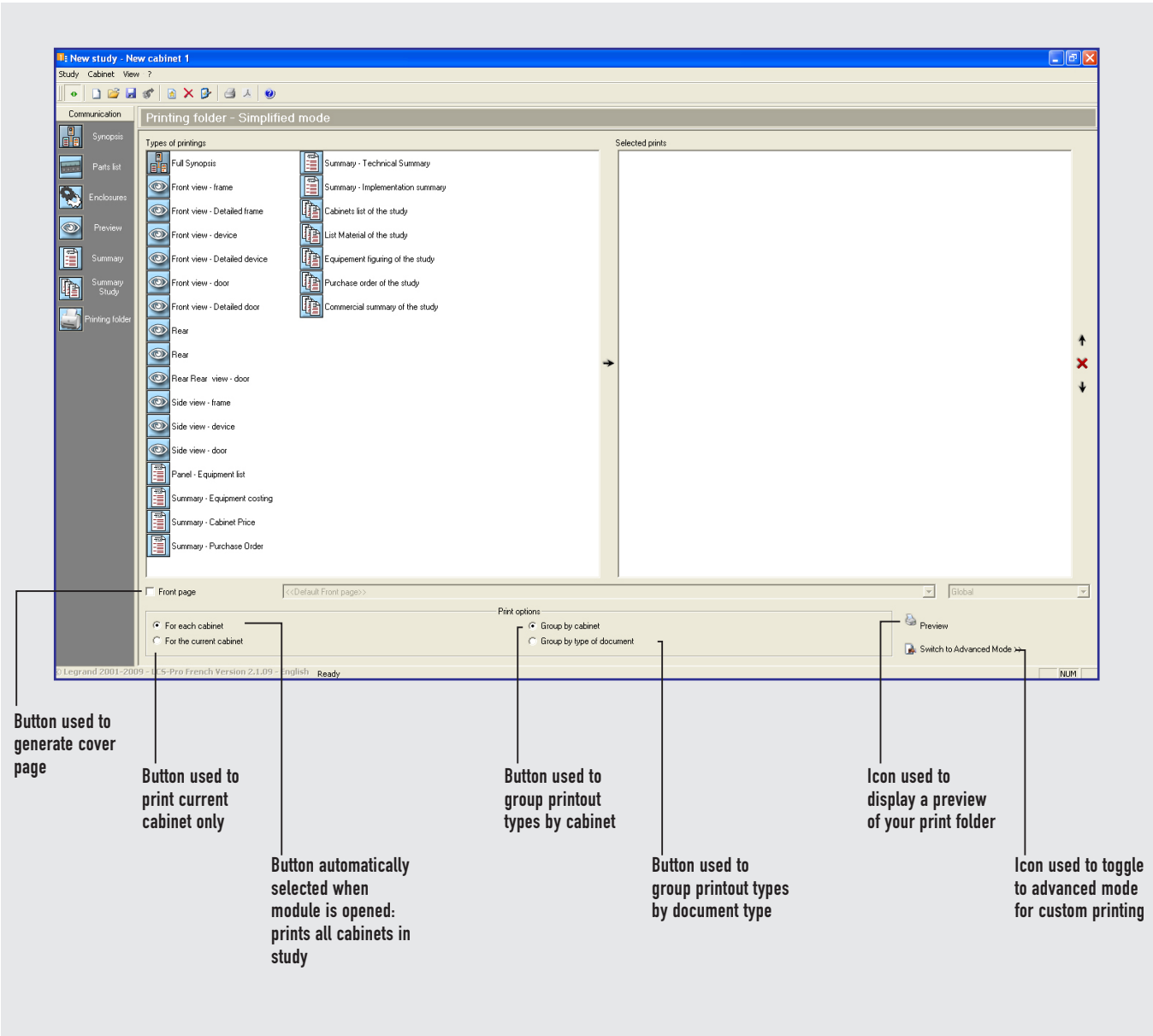
Folder management

The Folder management module allows you to print documents comprising the study in batches. This module allows you to print according to your needs:

- **Basic mode:** for simple and fast printing
- **Advanced mode:** for custom printing requirements

I. Printing in Basic mode

Use this module to select predefined page layout templates.

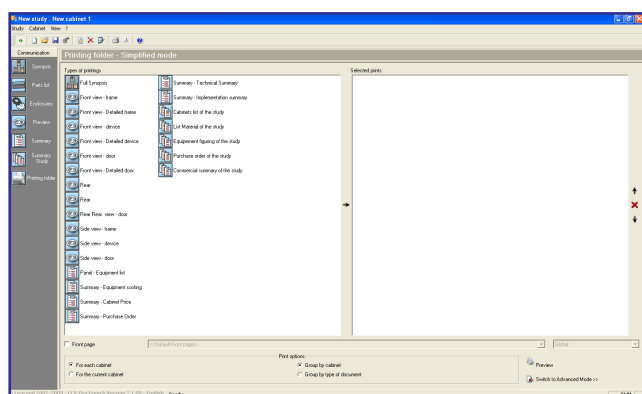


0011110101010001101001101011001101110110101010000110010100101010010110010100101001000101000100010101101010101010

I. Printing in Basic mode (cont.)

1. Selecting printout types

Select the **types of printout** that you would like to print in the left part of the screen in the **Printout types** window.



Then click on (or double-click on the selected icon).

The selected Printout types then appear on the right part of the screen in the **Selected printouts** window.

- You can delete a printout type by clicking on

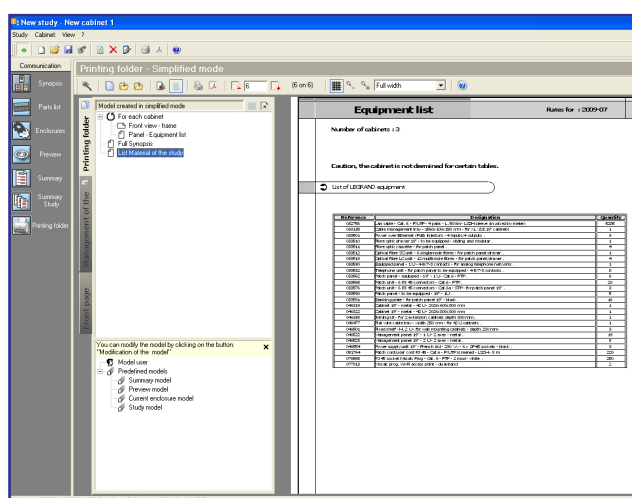
- You can also sort printout types in the order your wish using the arrows to the right of the screen.



2. Print preview

Once you have selected the printout types and display options, click on **Print preview** (at the lower right of the screen) to view your print folder.

A window is displayed.



The print preview mode enables access to customisation options.

+ ASTUCE

You can return to basic mode by clicking on

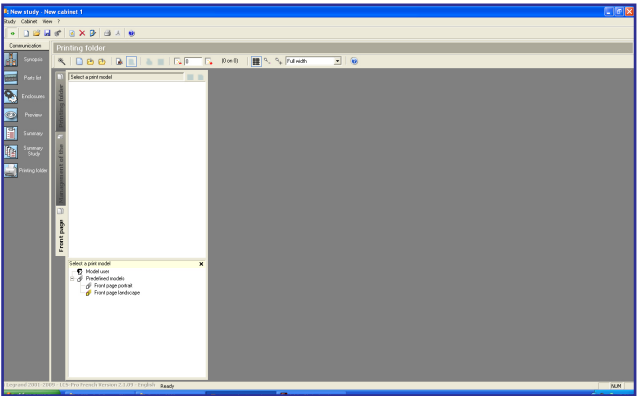
Folder management

01110101011010100001100101001010010110010100101001000101000100010001010110101010100100100101011011011100100


I. Printing in Basic mode (cont.)

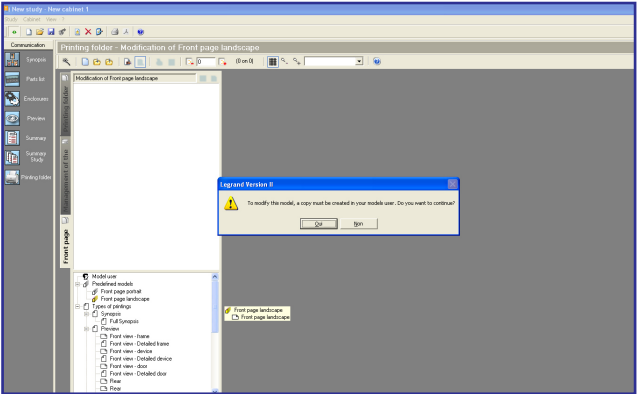
3. Folio management

Click on the **Folio Management** tab to access folio customisation options.

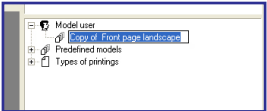


You can customise printouts by creating your own folio templates in portrait or landscape format.

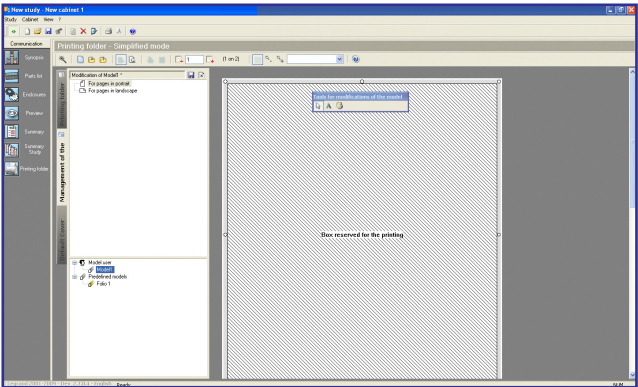
To do so, click on .
A confirmation window appears.



Click **Yes**.
A new template appears in **User Templates**.



You can rename your new template.
Folio templates in portrait and landscape format appear at the right of the screen.

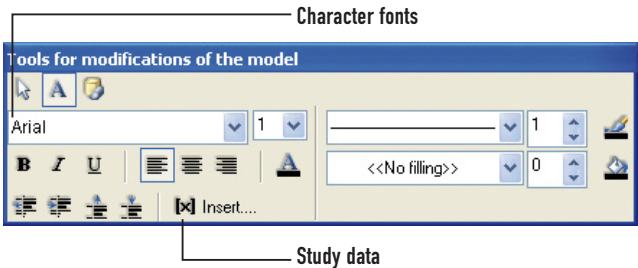


- Now you can customise your folios:
- add or delete text fields
 - add or delete image fields
 - move/resize text zones or image elements
 - etc.

You can customise Folios with the palette of **Template modification tools**.

You must customise both the portrait and the landscape formats.

■ Text toolbar



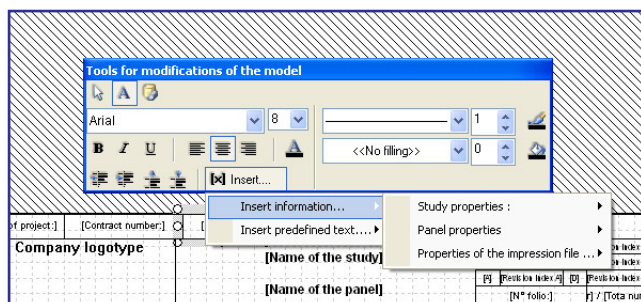
001111010101000110100110101100110111011010101000011001010010101001011001010010100100010100010001010110101010101

I. Printing in Basic mode (cont.)

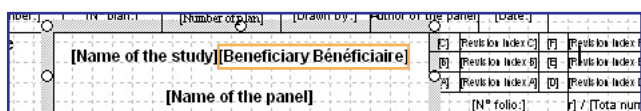
The **Insert** menu allows you to insert data specific to the study, cabinet or printout (company name, beneficiary, etc.).

It also enables you to insert pre-defined texts (folio no., date, etc.)

Select the frame where you wish to insert the data then select it in the **Insert** menu.

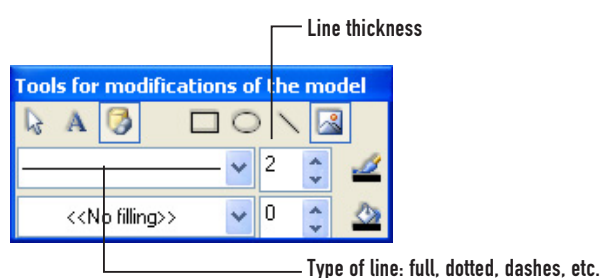


The element you have selected now appears in the desired zone.



+ TIP

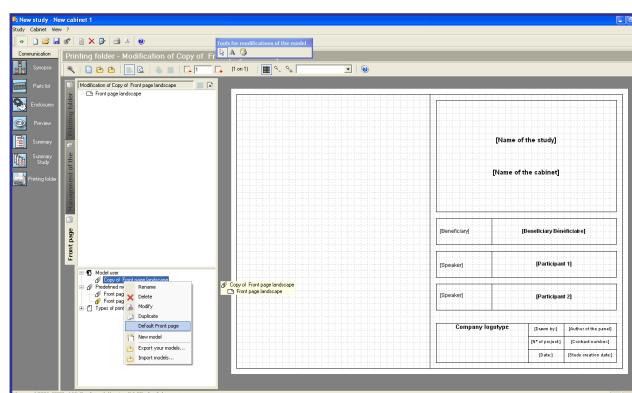
In order to appear on the printout, this specific information must have been entered in the study properties.



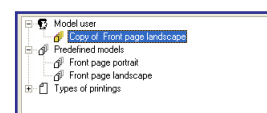
These tools are similar to those found in page layout programs. Their use is intuitive. The graphic elements added to the diagram are automatically justified to 2.5 mm-spaced grid (Management grid) to facilitate their alignment.

To save changes, click on

To set these new templates as your default folio, right-click on your template and select **Default Folio**.

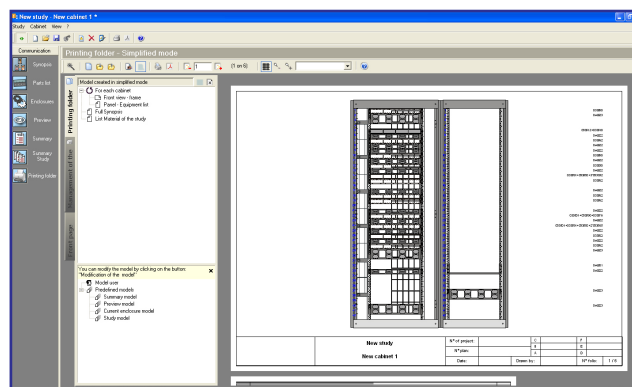


The default template turns yellow.



To view the new folio, click on to return to Basic mode.

Then click on **Print preview**.



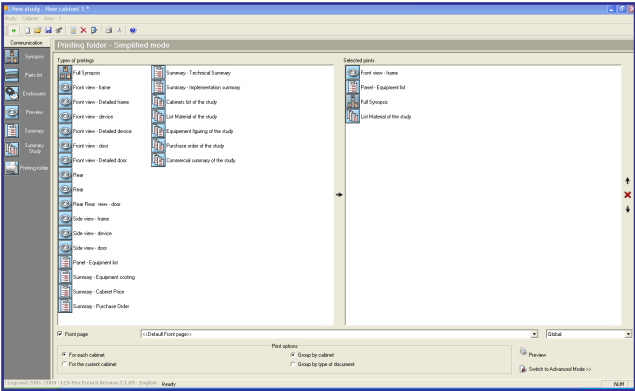
Folder management

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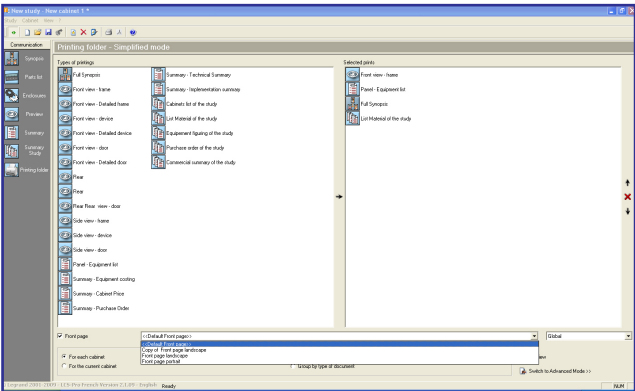
I. Printing in Basic mode (cont.)

4. Cover page management

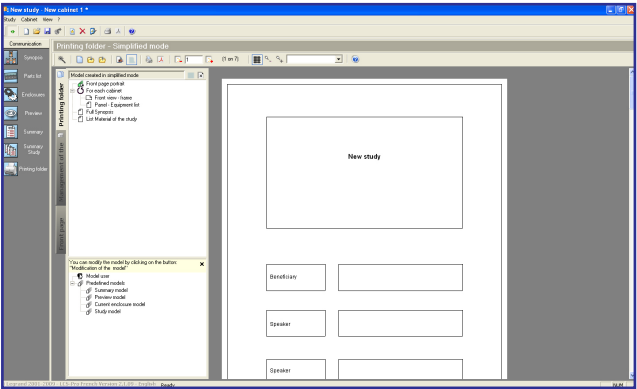
To generate cover pages, check the **Cover page** box. Select the cover page format.



Then the type of cover page: one cover page for the entire document or a cover page before each cabinet.



Click **Print preview** to view your cover page.



Click on the Cover page tab to access cover page customisation options. Customise your printouts by creating your own cover page templates. Cover pages can be modified the same way as folios (see p. 50). You can also set a cover page as the default template (see p. 51).

To view changes, click on  to return to Basic mode. Then click on **Print preview**.


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I. Printing in Basic mode (cont.)

5. Printing a folder

When you have finished customising your folder, you can print a hard copy or generate a PDF file.

In Basic mode,
click on **Print preview**
(in the lower right corner of the screen).

To print, click on 

LCS Pro² adapts printouts to the paper format (A0, A3, etc.).

To generate a PDF, click on 

This will produce an electronic file that you can send by email, for example.

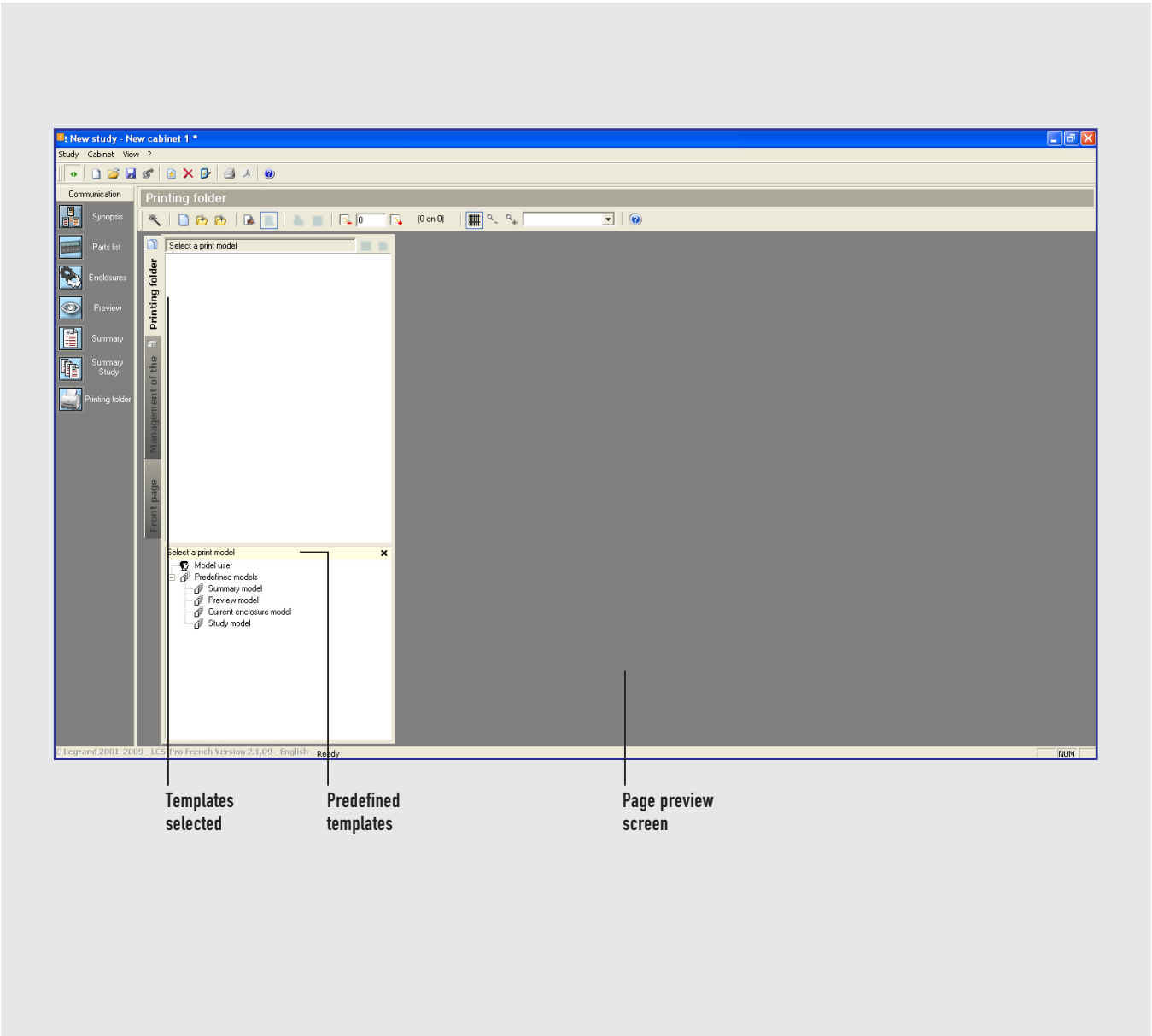
Folder management

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54

II. Printing in Advanced mode

Use this module to select predefined page layout templates.



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II. Printing in Advanced mode (cont.)

1. Selecting elements

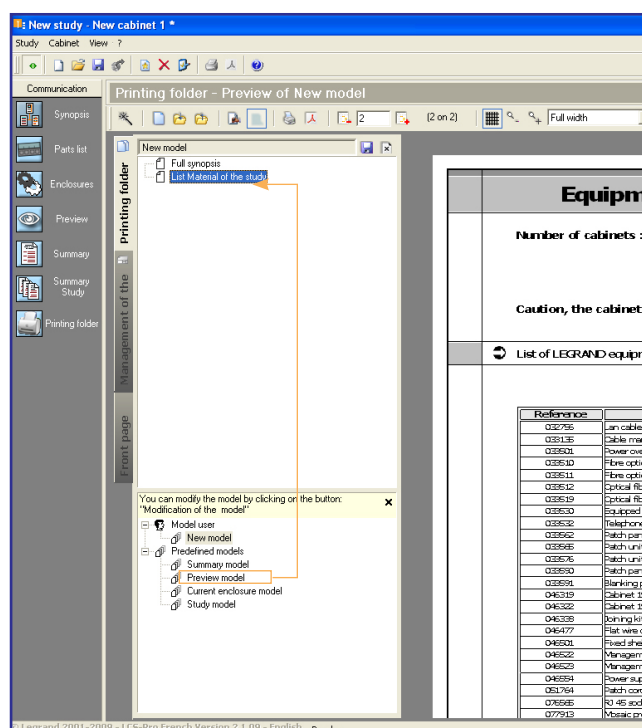
You can choose predefined templates by double-clicking on one of the templates proposed: **summary**, **preview**, **diagram**, **current cabinet** or **study**. The selected Templates appear in the upper part of the window.

You can also define a custom folder where you choose the printout types you would like to print.

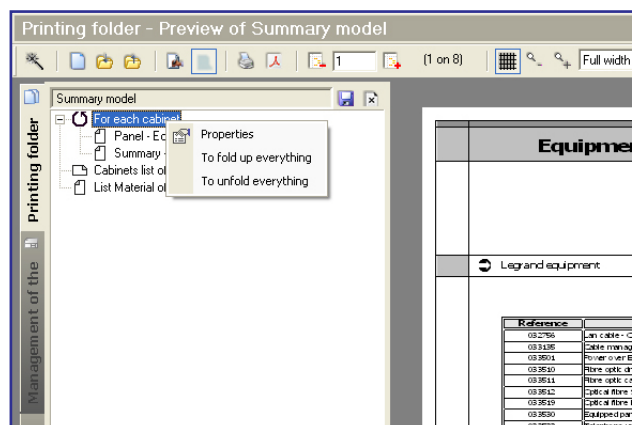
Right click on **User templates** then on **New template**.

Rename your template then double-click or drag and drop the printout types into the upper window.

To set this new templates as your default, right-click on your template and select **Default Template**. The default template turns yellow.



To delete an element, simply select it in the upper window then use the Delete button on your keyboard. Right-click on any cabinet to view its properties. Click on an element (diagram, purchase order, etc.) to access the properties of the element in question. Caution! Depending on your selection, the number of pages making up the folder can be significant.



+ TIP

Import and export:

You can import and export templates under each tab.




Folder management

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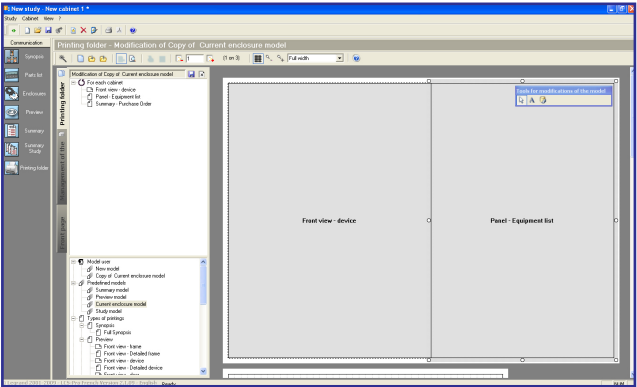
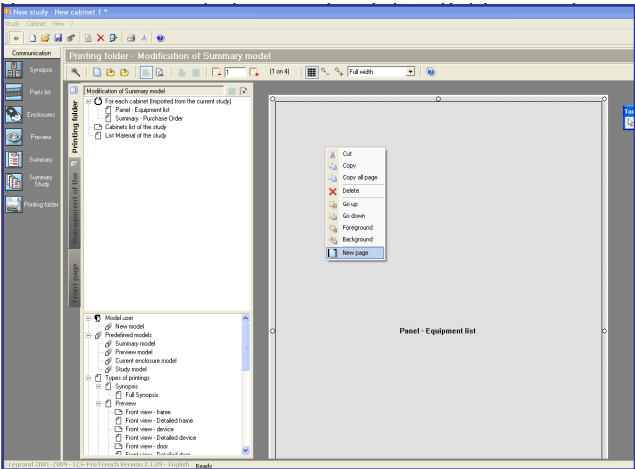
II. Printing in Advanced mode (cont.)

2. Customisation

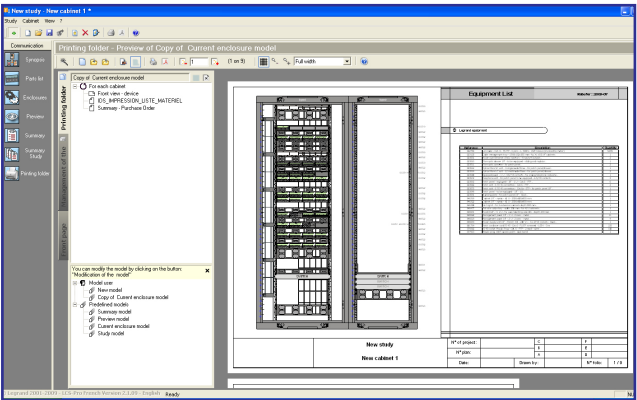
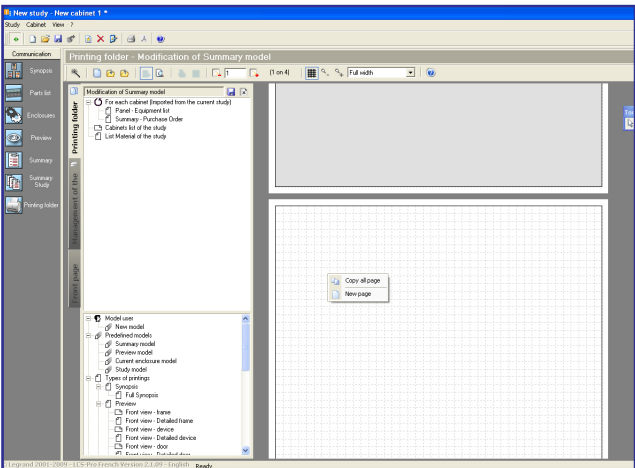
You can also customise your templates using the page layout options (the tools are the same as in Basic mode, see p. 50) by clicking on 

By right-clicking on a text zone or an image element, you can delete, duplicate or change its plane.

You can collate two views (for example the equipment list and a front view) by reducing the frame of each and dragging and dropping them onto one page.



Click on **Print preview** to display changes.




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II. Printing in Advanced mode (cont.)

3. Printing a folder

When you have finished customising your folder, you can print a hard copy or generate a PDF file.

To print, click on 

LCS Pro² adapts printouts to the paper format (A0, A3, etc.).

To generate a PDF, click on 

This will produce an electronic file that you can send by email, for example.

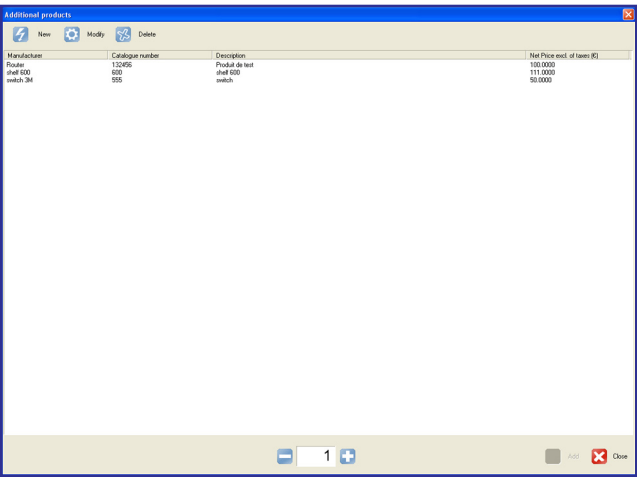
Additional products

The Additional Products family is used to add other manufacturers' products to the VDI cabinet. The list of additional products is initially empty. Before a product can be added to the VDI cabinet, it must first be created by describing a number of its characteristics. It can then be used in all future studies. It is therefore possible to build a personal library of products, which is automatically saved and always available, even after LCS PRO² has been updated.

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I. Creating an additional product

In the list of product families, select **Additional products**.



In the window which appears, click on the **New** button then fill in the various fields in the dialogue box.

- The text entered in the **Description** field will be used in the **Parts list** module.
- Information on estimated labour and the net price ex. tax is used by the **Summary** module (see page 40).
- **Type of marking** (modify using the list of marker letters).
- **Symbols**. One or more symbols corresponding to the additional product can be selected. The arrows are used to organise the order of the symbols.

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II. Adding an additional product

Select the product from the list of additional products, then adjust the quantity required and click on **Add**.
The product is automatically incorporated into the VDI cabinet parts list.

In the **Preview** module, the product represented by a geometric shape (square or rectangle) keeps to the dimensions that have been assigned to it.

It acts and moves in the same way as any other product.

III. Modifying an additional product

You can modify your additional product irrespective of the module you are in.

Right-click, **Modify**.

As for any other product, you open its characteristics window.

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