

Plan-Um[®]

www.jdsu.com/hbn

Software Instructions



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Introduction

Thank you for choosing **JDSU's Validator**[™] tool with **Plan-Um**[®] software. This booklet refers to the individual components as:

Validator^{$^{\text{TM}}$} or **Validator-NT**^{$^{\text{TM}}$} – the hand-held tool that tests and certifies cable, and downloads test results to the Plan-Um[®] software.

Plan-Um[®] – the software application that enables you to draw room layouts, a network topology, plan your cable installation, and create a cable test schedule.

System Requirements

Plan-Um[®] is an independent stand-alone software program and does not require interoperability with any other software. The following are requirements to successfully run Plan-Um[®] on your computer:

Minimum screen resolution:	800x600 dpi
Operating system:	Windows 2000, Windows XP, Windows Vista
	Mac OS X 10.4 (Tiger)
	Linux (tested on Debian 4, Red Hat 9, Ubuntu 7.04)
	Suse 9.3, Fedora Core 6, and Gentoo
Available Disk Space:	15 Mbytes
Memory:	256 Mbytes minimum
Printing:	Fully supports printing to PDF files, Adobe Acrobat 6.0 or higher

Data Entry Requirements

Field Limitations	20 characters maximum
Character Limitations	None

Installing Plan-Um®

Install Plan-Um® from the CD onto your PC. Plan-Um® does not run directly from the CD.

- 1. Close all Windows programs, including all virus-detection and screen saver software.
- 2. Insert the Plan-Um[®] CD into your CD drive. The PC automatically starts the installation.
- 3. Select a language to use for the software installation and Plan-Um®.
- 4. Follow the installation instructions and accept the License Agreement to complete the installation.
- 5. The installation automatically creates a desktop shortcut to Plan-Um®.
- 6. Plan-Um[®] and Validator documentation can be downloaded from www.jdsu.com/validator.

The files are in Portable Document Format (PDF). To view, store, or print the instructions, you must have Adobe Reader[™] installed on your pc. Adobe Reader[™] is available free from Adobe's web site.

Note: When downloading Plan-Um® updates from our web site, http://www.jdsu.com/validator, please follow the update instructions carefully. JDSU recommends that you un-install the current version of Plan-Um before re-installing the new software release. With Plan-Um 2.3.0, you must also download the associated Validator Firmware Update (Val_App 2.3.0) in order for the job files to work properly.

Starting Plan-Um®

- 1. Double click on the Plan-Um[®] icon.
- 2. The program opens to the Plan-Um[®] dialog box with eight tabs.



Job Information contains Tester Information and Site Information. Tester Information identifies contact information for the company performing the job. Site information contains information about the site you are designing. Tester and Site Information data prints on all job reports.

Network View allows you to create a network topology independent of the cables created in the floor plan view.

Network Devices summarizes the devices from the network view tab. This table is populated as the devices are added and can be printed.

Floor Plan allows you to design a home/office floor plan layout with ports and cable runs.

Cable Test Schedule summarizes the cabling job and creates a test schedule of all cable runs. This information is populated automatically as you design the cable installation in the floor plan.

Detailed Test Results displays individual cable test results after tests are performed using the Validator. These results include Pass/Fail, speed, wiremap, length, SKEW, SNR, and BERT.

Cable Types allows you to create a custom cable or modify and rename an existing cable definition.

Job Notes can be used to record pertinent job information that may be helpful to the installer in the future.

Menu Bar

A menu bar (File, Edit, View, Image, Help) appears at the top of the panel.

File Click to display New, Open, Save, Save As Job, Import and Export CTS File, Export Tut File, Page Setup, Print Preview, Print, Print Labels, and Exit.

File	Edit View Image Helr							
	New	Ctrl+N	Q %100 🗸	▶ 2				
Ĩ	Open	Ctrl+O	twork Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
	Save	Ctrl+S						
	Save As Job				Address			
	Import and Export CTS Fi Export TUT File	le			Address:			
	Page Setup Print Preview	Ctrl+G			City:			
5	Print	Ctrl+P			State / Province:			
đ	Print Labels	Ctrl+L			Zip / Mail Code:			
	Exit		-		Country:			

Edit Click to display Cut, Copy, Paste, Delete, and Settings, Undo, Redo.

File	Edit	View Image	e Help						
		Undo Add	Ctrl+Z	B 🔍 🔍 %100 🗸	• • (0				
		Redo Move	Ctrl+Y	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
т.	Ж	Cut	Ctrl+X						
	ď	Сору	Ctrl+C			Addrose			
	ß	Paste	Ctrl+V			Address			
		Delete	Del						
		Settings	Ctrl+E						

View Click to display Job Info, Network view, Network Devices, Floor Plan, Cable Test Schedule, Detailed Test Results, Cable Types, and Job Notes. Also included are options to Zoom, Show Room Name, Show Room Dimensions, Show Points and Use Metric Units.

File Edit	View Image Help		
I 🗅 🧩	Job Information	Ctrl+I	s100 🔄 📫 😰
Job Infor	Network View	Ctrl+W	vices Floor Plan Cable Test Schedule Detailed Test Results Cable Types Job Notes
	Network Device:	s Ctrl+K	
Resider	🖌 Floor Plan	Ctrl+F	
	Cable Test Sche	edule Ctrl+A	·
Ms	Detailed Test Re	esults Ctrl+D	
	Cable Types	Ctrl+B	
	Job Notes	Ctrl+J	
	Zoom		
	 Show Room Nar 	me	
	 Show Room Dim 	nensions	
	 Show Points 		
	Use Metric Units		

Image Click to display Center and Background.

File Edit View Image Hel		_					
🗈 🚅 🔚 👌 Center	Ctrl+T	%100 🗸	🗅 💕 🙆				
Job Information 🛃 Backg	round Ctrl+M	Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes

Help Click to display Contents, the Welcome Screen, or About.

File Edit View Image	Help		_					
🗋 🚅 🔚 🍊 🐠	2	Contents	100 🗸	🗅 😰 🙆				
Job Information Ne	t	Welcome Screen	vices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
		About						

Icon Toolbar

Use the icon toolbar as a shortcut to create a new file, open an existing file, save a file to your hard drive, save a file to some other media, and to cut, copy, and paste a floor plan. The last five icons allow you to magnify (Zoom) or shrink the floor plan view, move the floor plan on the desktop drawing canvas (Center), import a background, and open help window.



Plan-Um® Settings

To change Plan-Um[®] settings go to the edit menu and choose settings. This will bring up the settings dialog. There are five tabs to choose:

General

This tab allows you to change the number of recently opened job file names that appear in the file menu.



Language

This tab allows you to choose the current language for Plan-Um®.



Report

This tab allows you to change the pages that print when you select the print button. The current tab option prints the data displayed on the currently selected tab (i.e., what you see). The print all option will print the entire job report. The print selected option allows the user to print data on selected tabs on a tab-by-tab basis.



Font

This tab allows you to edit the application font for Plan-Um[®] and the font which appears in the Floor Plan and Network View tabs. Note: not all application fonts look good and are readable.

🖬 Settings							? 🛛
General	Language	Report	Font	Icon			1
Plan-U MSS 10 ▼	m Font hell Dlg]		•				
Networ MS S	k View Font hell Dlg]		•				
Floor F MS S	nan Font		•				
14 -]						
						ок	Cancel

lcon

This tab allows you to edit the sizes of the Icon scale in the Floor Plan and Network View.



Page Setup and Scale

Plan-Um[®] opens with a default page size, orientation, and scale appropriate to most drawings. However, the Page Setup dialog box allows you to select alternate Print Setup, Page Size, and Drawing Scale options to accommodate various layout sizes for the Floor Plan and Network View menu tabs. For all other menu tabs, the Page Setup allows you to select the paper size and print zoom options only.

The default print setup for the floor plan is 8.5" x 11" paper, landscape mode, with a drawing scale of 1" equals 20'. To adjust the floor plan Drawing Scale, Page Size, and Print Setup, click the Page Setup dialog from the File Menu and select alternate attributes on each menu tab.

You can also save these settings to a JDSU Template (TUT) file so that new job files that require the same settings can be easily reproduced. (See Managing Job Files, Save and Export As Template).

Print Setup

To select a paper size other than 8.5" x 11", click the down arrow and select the paper size you wish to print your drawing on from the list. To change the page orientation from landscape to portrait, click the alternate selection. To change the Print Zoom from 100%, click the down arrow and select the desired zoom from 25% to 400%, from the drop down menu.

🖬 Page Setup - Network View	? 🛛					
Print Setup Page Size Draw	ving Scale					
Printer Paper Size: Letter: 8.5 in. x 11 in.	Print zoom (all pages) ● Adjust to 100% ● Fit to 1 sheet(s) across by 1 sheet(s) down					
Printer Paper: Letter: 8.5 in. x 11 in. (Landscape) Drawing Page: Letter: 8.5 in. x 11 in. (Landscape)						
Target printer: Samsung CLP-600 Series Print Zoom: 100%						
A	pply OK Cancel					

Page Size

Typically the drawing page, represented by the white area on your screen, and the image printed on your paper are the same. However, to select a page size for your floor plan that is different than your printer paper, click Predefined Size and using the drop down menu select Standard, Metric (ISO), ANSI Engineering, or ANSI Architectural to adjust the scale for your drawing. Click the down arrow to select Letter, Folio, Legal, or Tabloid paper.

Or, click the Custom Size button and define a page size by entering the dimensions of your choice and selecting unit increments of inches, millimeters, centimeters, pixels, or feet. In addition, you can change the page orientation from landscape to portrait.

Page Setup - Network View	? 🛛					
Print Setup Page Size Drawing Scale						
Page Size	Page Orientation					
 Same as printer paper size 	 Portrait 					
O Pre-defined size:	Landscape					
Standard						
Letter: 8.5 in. x 11 in.						
O Custom size:						
11 × 8.5 inch 🗸						
Target printer: Samsung CLP-600 Series Print Zoom: 100%						
Apply OK Cancel						

Drawing Scale

To adjust the drawing scale, select either the Pre-defined Scale or Custom Scale to input a drawing scale of your choice. The Pre-defined scale allows you to select from a list of 6 choices ranging from 1" = 5' to 1" = 50' using English units, or 3 choices using metric measurement units. The drawing scale allows you to adjust the scale on the ruler to the size of the building you are cabling and then add the rooms and cables so that the drawing is appropriately proportioned to the building on the paper you print your job on. Changing these settings modifies the Page Size measurement units.

To display or hide the room dimensions on your drawing, click the View drop down dialog box and select Show Room Dimensions to alternately show or hide the room dimensions using the scale you have selected.

Print Setup Page Size Drawing Scale	ale ge size (in measurement ur 11" × 8.5"
Target printer: Samsung CLP-600 Series Print Zoom: 100%	OK Cancel

Print Preview

To see what will be printed you can open the print preview. Specify the pages you would like to print using the report tab in the settings dialog and the appearances and paper sizes using the page setup dialog. Print preview serves as a snapshot of what would result by hitting print. At the top of the print preview there are buttons to do a quick print (bypass the print dialog), normal print (shows print dialog first), page setup, and the navigation tools. To navigate one page at a time click the left and right arrows. The arrows with the line go to the first and last pages of the print results. To jump to a specific page edit the number in the line edit and press enter.



Import and Export CTS File

Plan-Um[®] provides the capability to export cable test schedule data to files and import cable test schedule data from files. Plan-Um[®] can import and export data in three types of file formats – tab delimited format, comma separated format, and Microsoft[®] Office Excel Workbook format. The following procedures are used to import or export cable test schedule data from Plan-Um[®]:

- 1. Select the 'Import and Export CTS File...' option from the File menu. The 'Import and Export Wizard' dialog appears.
- 2. Select the option to either import cable test schedule data or export cable test schedule data to a file and select Next.

🖬 Import and Export Wizard 🛛 🔹 💽
Choose an action to perform:
Export to a file
Import from a file
Description
Export Cable Test Schedule data to a file for use in other programs
< <u>B</u> ack <u>N</u> ext> <u>C</u> ancel

3. Select the file type to import or export and select Next.

🖬 Export to a file	?×
Create a file of type:	
Comma Separated Values	
Microsoft Excel	
Tab Separated Values	
< <u>B</u> ack <u>N</u> ext> <u>C</u> a	ncel

4. By default, all cable test schedule fields are imported or exported. To change the default, select the 'Select Fields' button and select those items desired for import or export. The 'Cable ID' item is always selected for either import or export.

🖬 Import and Export Field Selection 🛛 🔹 💽					
Select Cable Test Schedule Fields					
Cable ID From Port To Port Cable Type Cable Category Cable Use Cable Color					
Select All Clear All					
Help <u>OK</u>	ancel				

5. Enter a filename into the text field or browse to select a filename.

Export to a file	<
Save exported file as:	
	-
Documents/My Plan-Um CTS Files/mytest.xls Browse	
Select Fields	
< <u>B</u> ack <u>F</u> inish <u>C</u> ancel]

🖬 Export Cable Test Schedule			X
Look in: 🔄 nd Settings/hef47241/My Docume	nts/My Plan-Um	n CTS Files/ 🔽 🗲 🖻	r 🛱 🏢 🏢
Name	Size Type	Date	Attributes
<u> </u>	Dir	11/2/2006 8:39:31 AM	Read-only
🐏 mytest.xls	14848 File	8/31/2006 4:05:19 PM	Read-write
🗃 test.xls	14848 File	8/30/2006 10:04:27 AM	l Read-write
🗃 test2.xls	13824 File	8/23/2006 4:00:35 PM	Read-write
🗃 test3.xls	13824 File	8/23/2006 4:00:51 PM	Read-write
🗃 test4.xls	18432 File	8/23/2006 4:01:03 PM	Read-write
🗃 test5.xls	3084 File	8/23/2006 4:01:17 PM	Read-write
File <u>n</u> ame:		(<u>S</u> ave
File type: Microsoft Excel (*.xls)		v (Cancel

6. Select Finish to import or export the cable test schedule data to the file.

Export to a file
Save exported file as:
Documents/My Plan-Om CTS File/mytest.xls. Browse
Select Fields
<pre> Back Finish Cancel</pre>

Defining Job Information

Click the Job Information tab to display the Tester Information and Site Information entry fields. Job information prints on the Cable Test Schedule and Detailed Test Results.

Tester Information

In the upper portion of the Job Information dialog, fill in your Company's contact information.

- 1. Type the Company Name, the name of the Installer, the Phone Number, and the Email address.
- 2. Fill in the Address fields on the right side of the screen.

-Tester Information-			
Contact Information	on	Address	
Company:	Test-Um Inc.	Address:	808 Calle Plano
Installer:	Noah Xiong		
Phone:	(805) 383-1500	City:	Camarillo
Email:	nxiong@test-um.com	State / Province:	CA
Company Logo:	Browse	Zip / Mail Code:	93012
🗹 Use Pics whe	en printing	Country:	USA

3. If you are including your company's logo on the printed Cable Test Schedule or Detailed Test Results, use the Browse button to locate your company's logo in an image file. Once found, click on the image to fill the Company Logo field with the path to that file location. Plan-Um[®] supports the following image file formats: .PNG, .BMP, .JPEG, .PNM, .MNG, .XBM, and .XPM. The maximum pixel dimensions of the logo you insert should not exceed a width of 200 pixels and a height of 60 pixels. The Use Pics box is a default setting that can be unchecked if printing images causes problems with your printer.

Site Information

The bottom portion of the Job Information window contains Site Information. Fill in the information about the site you are designing.

- 1. Type a JOB ID # or name to identify the job on which you are working. The Job ID # appears at the bottom of each screen in the left corner. It also appears on printed documentation associated with the job.
- 2. Complete the Customer Contact Information: Company Name, Contact, Phone Number, and Email address.
- 3. Fill in the Address fields on the right side of the screen.

site morma	1001			
Job ID #: Residential		Address		
-Contact Ir	formation	Address:	235642 Elm Street	
Company	/ Home Improvement			
Contac	t: Joe Smith	City:	Springfield	
Phone	e: (747) 555-3333	State / Province:	CA	
Ema	l: jsmith@hi.com	Zip / Mail Code:	89562	
		Country:	USA	

Creating a Network View

The **Network View** feature in Plan-Um[®] allows you to quickly and easily create a topological representation of your physical network, annotate each piece of equipment, and generally characterize the connection method. It is a simple tool that documents and illustrates network connections independent of the cable run information you may create in the Floor Plan section of Plan-Um[®].

Network View provides a quick way to see the architecture of your network and document moves, adds, and changes in an organized and effective manner. You can designate a name and add notes to each network device. In addition, the free text features and angled connection features allow you to create a professional looking network diagram for presentation to your customer. It is easy to customize and update equipment notes to record the legacy information so necessary for good network management.

Placing Network Icons

Network icons include computers, telephones, routers, hubs, the internet, printers, access points, bridges, firewalls, servers, and faxes. Use these icons to identify network devices in the layout.

1. When you click an icon on the left tool menu, it pops into the upper left corner of the canvas. Multiple clicks will create multiple icons numbered in the order of your clicks.



- 2. Click on the Network icon on the canvas again and drag it to the position where you want to place it.
- 3. Repeat this process with the same or other icons until all Network icons are placed on your layout.



Customizing the Name of the Network Device Icon

You can customize the icon name that displays on the canvas and add notes using different methods.

 Click on the New Device dialog box at the top of the left toolbar. Type the Name you wish to specify and then click the icon you wish to add. The custom name will appear on the canvas under the icon. Text entered in the New Device dialog box will automatically be associated with every icon placed on the canvas until you highlight and delete the text from the dialog box.



 Double click the icon once it is placed on the canvas. A popup dialog box appears titled "Properties". Type the new name information and any notes you want to add. Click OK to display the new name.

	📑 Prope	rties		? 🛛
	Name:	Name: Wireless Network01		
	lcon Sc	Icon Scale: 100%		
	Notes:			
Wireless Network01				
			ОК	Cancel

3. You may also right click the icon once it is placed on the canvas, and select **Properties**. A popup dialog box appears titled "**Properties**". Type the new name information and any notes you wish to add. Click OK to display the new name.



Placing Free Text on the Network View Layout

You can also place text with information regarding the network anywhere on the Network View canvas. For example, you can title your Network View drawing, insert general information about the network, or identify specific user groups, floors, etc.



1. Click **Add Text** on the network toolbox in the Graphic Tools page.

2. Double click **Text** once it is placed on the canvas. When the **Properties** dialog box pops up, enter the text, select the font size, and click **OK** to place the text on the canvas. Click and hold the left mouse button to move the text anywhere on the screen.

		a (
Modem01	Server01	Properties ? 🗙
		Font Size: 12 💌
star and a star		Notes: COMPUTER LAB
Printer01	FrWall01	
Comp01	Compli2	
Compor	COMPUTER LAB	OK Cancel

3. To delete text, click on the text on the Network View canvas and press Delete or right click on the text and choose delete text in the context menu.

Adding Lines

Once the Network Port icons have been added, draw the lines between each piece of equipment to simulate the physical layout of your network.

1. Click the **Lines** button at the bottom of the left toolbar menu and select one of three line types. You may differentiate between the types of connections by clicking the down arrow and selecting a dash line, a solid line, or a dash/dot line to denote a connection type of your choice.



- 2. Click **Add Line**. When you move the mouse to the floor plan, the cursor changes from a cross to an arrow.
- 3. Position the cursor over a network icon, hold the left mouse button down, and drag the cursor to the network icon you want to connect to. This creates a line between the two icons.



Angling Lines

You may also create angled lines that bend to allow you to change the direction of the path in any direction. Adding multiple inflection points on a line path allows you to go around devices displayed in the Network View.

1. Double click on a line at a point where you would like to bend the line to create an inflection point or right click and select add point. You can drag the point to any desired location. Note that the point may disappear if the "Show Points" option is not checked on the View menu.



2. You can add as many inflection points as you want to create complex paths.



3. To delete an a line segment left click on the segment and press delete or right click on the segment and choose delete line.

Adding Network Sheets to the Topological View

Depending upon the complexity of the network layout you create, you may require additional Network View sheets to depict other portions of the network or other floors. For example, you could create separate topologies for phone, computing, security, or by department, campus location, or floor. Select the **Network Sheet** you wish to print with your job.

1. On the bottom left toolbar, click **Network Sheets**. Three menu tabs appear, Add Sheet, Remove Sheet, or Refresh Layout. Select the desired sheet option.



Printing the Network Topology

The Network View can be printed to illustrate the Network Topology. Attach the network sheets to your End of Job Report, including the floor plan and test results, present it to your customer with your invoice, and keep a copy for your records. Unless otherwise specified, Network Sheets will print on 8.5" x 11" paper in landscape mode.

1. Select **Print** from the File pull down menu.



2. Or, use the print icon on the main toolbar.

Using Device Notes

The device notes tab contains a read-only table for viewing devices along with their type, sheet, and corresponding notes. This table is populated as the devices are added to the Network View and can be printed.

Job	Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
	Name	Type	Sheet	Notes				
1	Comp01	computer	Sheet 1	.0.00				
2	Web01	internet	Sheet 1		-			
3	Comp02	computer	Sheet 1					
4	Comp03	computer	Sheet 1					
5	Printer01	printer	Sheet 1					
6	FrWall01	firewall	Sheet_1					
7	Server01	server	Sheet_1		-			
8	Router01	router	Sheet_1					
9	Modem01	router	Sheet_1					

Defining the Floor Plan

The Floor Plan tab allows you to draw a simple floor plan to scale and place the ports and cables to be installed. Drawing a room layout adds to the documentation of the job, making it very clear what cables and ports are being installed, and where they will be placed. The ports and cables placed on the floor plan are used to automatically create a Cable Test Schedule.

As an alternative to drawing the room layout using the Plan-Um[®] tools, a background image can be imported from a CAD or other drawing software tool. See the section in this document titled Adding a Background Image for the details of that approach. In either case, placing ports and cables over the room layout or background image is the easiest way to create a Cable Test Schedule manually.

Note that by using the Cable Test Schedule tab you can enter a cable list directly, without creating the Floor Plan if you prefer. See the section in this document titled Creating a Cable Test Schedule Manually.

The following steps detail the process of creating the optional room layout for the Floor Plan:

Adding Rooms

 Click the Floor Plan tab. A toolbar menu appears in the left panel with several labeled buttons. Use the vertical scroll bar to the right of the buttons to view all buttons, including those that do not display in the initial view. The list of buttons includes Residential Rooms, Commercial Rooms, Specific Use Ports, General Use Ports, Cables, Floor Tools, and Cable Manager.

The list of Residential Rooms includes a living room, family room, home office, kitchen, bathrooms, bedrooms, and closets. Additional icons are available to create a garage, wire closet, foyer, etc. The list of Commercial rooms includes a lab, cubicles, offices, a conference room, bathrooms, warehouse, hallways, and wiring closets. Plan-Um[®] gives you the opportunity to change the name of any room by placing the cursor on the room, then clicking the right mouse button to display a pop-up menu that lists 3 options: Copy room, Rename Room, or Delete Room.

- **Copy Room** makes a copy of the room. Click on the room and place it anywhere on the floor plan.
- When you click **Rename Room**, a dialog box appears which allows you to type a unique name for the room, and then click the OK key. Plan-Um[®] replaces the name of the room with the new name.
- **Delete Room** removes the room from the floor plan.



2. Begin by selecting either a **Residential** or **Commercial** floor plan. Whichever you choose, a list of rooms appears in the left column. Use the vertical scroll bar to see the entire list.

Job Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
Residential Roor	ms	α				40	
Bedroo	m 15 ^ [^
Master Bed	room						
Closet							
Hall							
Home Off	ice	-					
Bathroo	m	-					
Commercial Roo	ims N						
Subrooms	7						
Specific Use Por	ts	-					
General Use Por	ts	-					
Cables		_					
Floor Tools	2	_					
Cable Manager		_					
Choose Flo	or	-					~
Floor_1	~	<					

3. Plan-Um[®] opens with a default drawing scale of 1" equals 20' and a print zoom of 100%. The upper left hand corner of the drawing canvas is viewable on your screen. To view the page as it would print, select the Page print zoom from the zoom drop down menu on the toolbar. See the Page Setup and Scale section of this manual for details on how to manipulate these options.

Note: The Page Setup and Scale settings are automatically saved for each tab in the job file so that when you re-open the job or create a new job, the selected Page Setup options remain.

4. When you click a room name, the room displays in the upper left hand corner of the drawing canvas. Each room defaults to a pre-defined size and appears on the canvas based on the drawing scale you select. Resize the rooms by placing the cursor over a horizontal or vertical wall line. When the cursor changes to a double arrow, drag the wall to expand or contract the size of the room. The room name can also be dragged around inside the room to the desired location.



5. Continue to add rooms, dragging and placing them anywhere on the floor plan area according to the actual layout of the office or home.



Adding Custom Rooms

- 1. To add custom rooms, click inside the blank box labeled Custom Room Name at the bottom of the rooms list. Type the name of the room, such as a Gym or Loft. The name of the room is limited to 20 characters. Then click the Add Custom Room button. Place and size it as described above.
- 2. If you add more than one room with a custom label, Plan-Um[®] will automatically increment the room number by clicking the Auto Increment check box.



Adding Free Text

1. To add free text to the Floor Plan go to the Floor Tools page of the toolbox and click the **Add Text** button. The text behaves the same as the text from the Network View Tab.



Copying and Pasting Rooms

When there are multiple rooms of the same size to place on a floor, such as cubicles, you can copy one or more and paste them in specific locations. This eliminates the need to place and size each cubicle separately.

To copy the same type of room or sub-room, click on the room you want to copy on the floor plan, and then click the Copy icon on the menu bar. You can perform the same function by selecting the Copy option on the Edit menu or right clicking on the room and selecting Copy Room from the pop-up menu.



1. To complete the Copy Room function after selecting the room you want to copy, click the Paste icon. The new room appears on the floor plan. Click on it and move it to the location you want. The Paste option on the Edit menu performs the same function.



Adding a Background Image

Although Plan-Um[®] software operates completely independently, you can also export a CAD or other drawing software floor plan to a .png, .bmp, or .jpg file, and import the image for your design layout. Use this design layout instead of creating rooms to define your job. All other advanced features and functions of Plan-Um[®] work in the same manner with this image.

Follow these instructions to import a background image:

- 1. Click on the **Background Image** icon on the toolbar.
- 2. Use the Browse button to locate the image file you wish to insert. Once found, click on the file name to populate the Background Image field with the path to that file location.

Background Image	? 🔀				
Location: ound Images/Floor Plan Layout jpg Browse	, Dpen				×
Center OK Canc	Look in:	🔄 l:/Noah Xiong/Plan-um/E	ackground Images	/ 🖌 🗢	£ 💣 🎟 🏢
Fit To Page	Name		Size Type	Date	Attributes 🛆
Stretch	Floo	r Plan Layout 2.jpg	441612 File	1/21/2005 11:49:59 AM	Read-write
	🗖 🔂 Floo	r Plan Layout.jpg	538667 File	1/19/2005 11:23:48 AM	Read-write
	FLO	DR PLAN.bmp	2519156 File	1/20/2005 8:50:14 AM	Read-write
	FLO	DR PLAN.jpg	30096 File	1/20/2005 9:01:49 AM	Read-write
	FLO	DR PLAN_2.jpg	15912 File	1/20/2005 9:02:31 AM	Read-write
	Floo	r Plan_2nd Floor.bmp	721700 File	1/20/2005 8:51:23 AM	Read-write
	🖬 hous	e.bmp	2798646 File	1/20/2005 1:33:03 PM	Read-write
	🖬 Italia	n Office.bmp	873686 File	3/9/2005 3:26:25 PM	Read-write 🔽
	File nan	ne: Floor Plan Layout.jpg			Open
	File type	e: All Supported (*.BMP *.GI	F*.JPG*.JPEG*.PI	NG *.PNM *.MNG *.XE 🗸	Cancel
		All Supported (*.BMP *.Gll	F*.JPG*.JPEG*.PI	NG *.PNM *.MNG *.XBM	
		Bitmap (*.BMP)			
		GIF (*.GIF)			
		JPEG (*.JPG *.JPEG)			
		PNG (*.PNG *.PNM *.MNC	à)		
		XBM (*.XBM *.XPM)			

3. Press OK and the image file you selected appears as a background image on your screen. If images are moved to another directory, re-linking the image will be required.



Defining the Port Layout

After you design the room layout, you must now identify the ports in each room that the cabling supports. This process is the key to generating a Cable Test Schedule that can be uploaded to the Validator. Before adding cables to the Floor Plan, you must first add Ports that are the termination points for cables. The ports represent wall plates or other cable termination hardware. The ports can be added to a room layout, placed on top of a background image, or simply placed on an empty canvas. Once the ports are placed on the canvas, cables can be connected between them.

On the left tool menu, there are two buttons, Specific Use Ports and General Use Ports. The difference between the specific and general use ports is both the appearance of the icons, and the Use attribute that is shown on the Cable Test Schedule.

Placing Specific Use Ports

Specific use ports include fire and security alarms, cable televisions, telephones, speakers, satellite dishes, computers, and other equipment. An icon appears next to each. There is also an Add Custom Port box that works like the Custom Room box described above.



1. When you click an icon, it pops into the upper left corner of the floor plan.

2. Click on the port icon on the canvas again and drag it to the position where you want to place it.

Job Information Network View	Network Devices	Floor Plan	Cable Test	Schedule Detailed Test Re	esults Cable	e Types 🔰 Job Note	es
Residential Rooms	α					40	
Commercial Rooms		I					^
Subrooms						1	
Specific Use Ports					Clocot1		
Network	-				6×10		
Stephone				UINetUI MBd-1			
Television	-	Bdr1 16 × 1	8	21 X 21			
🔋 Speaker	-						
Fire Alarm	-					Nook1	
Security Alarm	- -					97.10	
General Use Ports	-	Bath2					
Cables	-	12 \ /					
Floor Tools			_			Dining1 9 ⊻ 14	
Cable Manager	-			Living1		0.7.14	
Choose Floor -			Haii1 4 × 22	21 X 14			~
Floor_1	<		•			>	

3. Repeat this process with the same or other icons until all specific use ports are placed appropriately.



Placing General Use Ports

General use ports are wall plates with one to six jacks, patch panels, or a communications center. An icon represents each port.

- 1. When you click on a port, it pops into the upper left corner of the floor plan.
- 2. Click on the port icon on the canvas again and drag it to the location where you want to place it.
- 3. Repeat this process with the same or other icons until all specific use ports are placed.



Adding Cables

Once ports have been added to the floor plan, the next step is to connect cables between the ports. In addition to adding cables one at a time, the Cable Manager tool allows you to connect multiple cables between one port, referred to as the End Point (To port) and any number of other ports.

To Add One Cable

1. Click the **Cables** button on the left tool menu. This displays the **Cable Types to Display** and the **Cable Type to Add** fields.



2. When you click the down arrow on the Cable Type to Add field, a list of Cable Types displays. The available Cable Types are CAT5, CAT5E, CAT6, CAT3_4P, CAT3, CAT3_2P, RG-6, RG-59, RG-58, Fire, Security, Audio, Tel_Cord, CAT5STP, CAT5ESTP, and CAT6STP. If the type needed is not on the drop down list, you can define a custom cable type. This feature is discussed in the Advanced Features section of this document, Adding Custom Cables.

RG-6	~
CAT5	^
CAT5E	
CAT6	
CAT3_4P	=
CAT3	
CAT3_2P	
RG-6	
Fire	
Security	
RG-58	~
3. Click **Cable Type To Add** and select a cable type from the drop down list and click the **Add Cable** button. When you move the mouse cursor to the floor plan and place it over a general or specific port, the mouse cursor changes to a vertical, upwards pointed arrow.



4. Position the cursor over the port icon which will be one end of the cable, press the left mouse button down, and drag the cursor to the port icon which will be the other end of the cable. This creates a color-coded cable "run" (a line between the two ports).



5. There are three basic Cable Types supported by the Validator, Data, Phone, and 2-Wire. Each cable type is assigned a specific color: Data cables are solid gray lines, Phone cables are blue-dashed lines, and 2-Wire cables are green-dotted lines.



6. Each time you add a cable run, a line is displayed on the floor plan. If the floor plan becomes cluttered or difficult to view, click the down arrow on the **Cable Type to Display** field and select the cable types which you want to view at the time.



7. If you click the left mouse button on empty space while adding cables a point will be created to create a bend in the cable. You can add as many points as needed or hit escape or right click in empty space to cancel creating that cable. Clicking on another port finishes creating that cable run.



8. You can also double click on an existing line at a point where you would like to bend the line to create an inflection point or right click and select add point. You can drag the point to any desired location. Note that the point may disappear if the "Show Points" option is not checked on the View menu.



Adding Bundled Cables

When you need multiple cables grouped together you want to use a Bundled Cable. Bundled Cables are added the same way as regular cables and look like one cable on the Floor Plan but show up as multiple cables in the Cable Test Schedule.

To Add Cables Using the Cable Manager

1. Click the **Cable Manager** button on the left tool menu. This displays the **End Point, Cable Type, Port ID Checkbox, Short by** and the **Auto-Check** fields.



2. Using the **End Point** drop down menu on the left toolbar, select the End Point you wish to connect your cables to. This port will be the "To" port on the Cable Test Schedule.



3. Use the drop down menu to select the **Cable Type** you wish to add. The **Sort By** drop down dialog box allows you to sort the table alphabetically or by the number of connections.



- 4. Select the Port ID check boxes from the list that you wish to connect to the End Point.
- 5. Click **Add Cables** to add cable connections from the selected ports to the selected End Point using the Cable Type you selected. The number of connections for each Port ID are automatically updated in the table.



6. The **Auto-Check** drop down menu allows you to automatically check all Cable IDs of a particular Cable Type and click **check** to select or **uncheck** to deselect these Cable IDs.



For example, to check all of the phone ports in the connection table, select Auto-Check Phone, and click on Check. To uncheck all of the phone ports, select Uncheck. Click **Add Cables** to complete the operation.



To Remove Multiple Cables Using the Cable Manager

- 1. Use the drop down dialog box to select the **End Point** you connected cables to. For port reference, click on the Cable Test Schedule tab and look at the To port ID.
- 2. Select the **Cable Type** you wish to remove from the Cable Type drop down menu.
- 3. Select the port ID check boxes you want to remove. Note that even though all port ID boxes can be checked, the only cables that will be removed are the ones that actually have a connection to the selected End Point.
- 4. Click **Remove Cables** to remove all of the cables of the selected cable type. The number of connections for each Port ID are updated in the table.



Advanced Features

In addition to the basic functions for designing room layouts and placing ports and cables, Plan-Um[®] provides advanced features in the Floor Plan Tab to allow you to design a multiple-floor home or commercial building and connect cables between floors. There are also Floor Plan tools to allow the importing of image files created in other CAD or drawing programs, shrink or expand the floor plan view (using Zoom) and move the objects on the floor plan around on the canvas (using Center.)

There is also another Tab, the Cable Types Tab with a set of tools to allow you to add custom cables.

Adding, Removing, and Copying Floors

Follow these instructions for adding a floor.

1. Click the **Floor Tools** button to display the Vertical Run feature, and options for adding, removing and copying a floor. The Choose Floor field initially displays Floor_1.



2. To add a floor, click the Add Floor button. The floor number in the Choose Floor field changes from Floor_1 to Floor_2 and displays a blank floor plan on the desktop. Click the down arrow under Choose Floor, Floor_1 and Floor_2 appear as selections. To select the floor plan you want to work on, click the appropriate floor. The selected floor plan appears on the screen.

Job Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes	
Residential Roor	ms	a	I	20	1	40	1	
Commercial Roo	ims							
Subrooms	0	_						
Specific Use Por	ts	-						
General Use Por	ts	-						
Cables		-						
Floor Tools		-						
		-						
		-						
		-						
Finish Ca	ble							
Add Vertic	al Run	10						
Add Flo	or N							
Bemove F								
ConvElo								
Сорунс		-						
		-						
	~	-						
Cable Manager		-						
Choose Flo	or	-						~
Floor_2	~	<						

3. If you defined multiple floor plans and want to delete one, click the down arrow on the Choose Floor field, select the floor you want to remove and click the **Remove Floor** button.



4. You can also add a floor that is identical to an existing floor by displaying the floor layout you want to copy in the Choose Floor field. When you click the **Copy Floor** button, the Floor number automatically increments and appears in the Choose Floor drop down box. The same floor plan, port layout and cable runs appear on the copied floor.



5. If any of the ports or rooms differs from the original floor plan, you can delete and add by using the instructions above, thereby creating a unique layout.

Adding Custom Cables

The Validator is designed to verify that cables meet specifications defined in a very flexible fashion. The specifications set for a cable type define the tests that must be passed by a cable of that type for it to be given a "Pass" result. Any test which a cable fails causes that cable to be given a "Fail" result. Many standard cable types are pre-defined in the default list provided with the Validator. In addition to the default types, you can define new types by creating new or modifying existing cable type definitions. To define a new cable type, open the **Cable Types** tab. This displays the Cable Types window shown below.

Job Information	Network Viev	w Netwo	rk Devices	Floor Plan	Cab	e Test Schedule	Detaile	d Test Re	esults	Cable Types	Job Notes
Data Jack Pho	ne Jack 2	-Wire Jack	Bundled C	ables						4	
Load Data Type:	New	~	Save Tvp	e Delete Tv	pe						
- Test Parameters	B										
Type Name:							Length:	Yes			~
Speed:	None					🖌 Length Consta	ant (pF/ft):				
Max Skew (ns):						Max	Length (ft):				
Min SNR (db):							Comment:				
Color:				Cha	nge Co	lor					
						_					
Wire Mapping											
In Use:		Ma	ар То:			Pair Polarity:			Split Te	est	
✓ 1-2		1-3	2		~	Don't Care		~	Yes		*
☑ 3-6		3-	6		*	Don't Care		*	Yes		*
✓ 4-5		4-	5		*	Don't Care		*	Yes		~
7-8		7-	8		~	Don't Care		~	Yes		~
Shield: No 🗸	•										

The screen shows four tabs: **Data Jack, Phone Jack, 2-Wire,** and **Jack Bundled Cables**. The first three tabs define the basic cable categories that the Validator supports, and correspond to the three test jacks on the Validator and its remote unit. The bundled cable tab is used to define a grouping of multiple cables that the Validator supports, and may correspond with either the three test jacks on the Validator and its remote unit. Choose the cable category tab for which you are creating a custom cable type.

Data Jack Tab

The Data Jack tab controls the detailed specifications for 8 wire, 4 pair cables that are normally terminated with RJXX connectors and used for Ethernet. Inserting them into the 8-pin connector on the Validator tests cables in this category. The mapping in this connector is standard Ethernet pairing 1-2, 3-6, 4-5, 7-8.

1. To start creating a new cable type in this category, choose a type from the drop down list in the Load Data Type field. If you select New, you must enter data manually in all other fields. If you choose an existing type, the pre-defined specifications for that type populate the fields on the rest of the form.

Job Information	Network View	Network Devices	Floor Plan	Cabl	e Test Schedule	Detailed	d Test Results	Cable Types	Job Notes
Data Jack Ph	ne lack 2-Wi	re lack Bundled	Cables						
		Te sack Dundled	Capies						
Load Data Type	: New	Save T	/pe Delete Ty	зе					
_ Test Paramete	rs New								
Type Name	CATSE	N				Length:	Yes		~
Speed	CAT6	7			🔽 Length Consta	int (pF / ft):			
Max Skew (ns)	CAT5STP				 Max I	_ength (ft):			
Min SNR (db)	CATESTP					Comment:			
Color			Char		lor				
0000	·			ige oo					
- wire mapping-		Mar Tak			Deix Delevitur		0-12	T+	
In Use:		марто:		_	Pair Polarity:		Split	Test	
☑ 1-2		1-2		*	Don't Care		Yes Yes		~
3-6		3-6		~	Don't Care		🖌 Yes		~
✓ 4-5		4-5		~	Don't Care		Ves		~
7-8		7-8		~	Don't Care		Ves		~
Shield: No	~								

2. Modify the specifications and save a new cable type by typing a unique name in the Type Name field. The default types included with Plan-Um[®] cannot be modified and stored under the original type name, but can be stored with a new name.

b Information	Network View	Network Devices	Floor Plan	Cabl	e Test Schedule	Detaile	d Test Results	Cable Types	Job Notes
ata Jack Phor	ne Jack 2-Wi	re Jack Bundled C	ables						
.oad Data Type:	CAT5STP	Save Tyr	Delete Ty	pe					
Test Parameters	3			ablo Ty	me				
Type Name:	Uplink					Length:	Yes		~
Speed:	100MB				🚽 Length Consta	ant (pF/ft):	15		
Max Skew (ns):	0				Maxl	Length (ft):	300		
Min SNR (db):	20					Comment:			
Color:			Cha	nge Co	lor				
				_					
Wire Mapping									
In Use:		Map To:			Pair Polarity:		Split	Test	
I -2		3-6		~	Normal		🖌 Yes		~
☑ 3-6		1-2		~	Normal		🖌 Yes		~
✓ 4-5		4-5		~	Normal		Ves		~
		7-8		~	Normal		Ves		*
✓ 7-8									
Shield: Yes	1								

Test Parameters

Date Jack Cables are primarily for testing Ethernet cables, the *Speed* specification determines what data rate the Validator will use to test for proper operation. Validator supports SNR and BERT testing at either 100Mb or 1000Mb. If you want to define an 8-wire type which is not for Ethernet use and does not need to have a speed verified, the speed can be set to None, and no BERT test will be run.

The *Max Skew* (ns) is the maximum difference in delay allowed between pairs in nanoseconds. This specification only applies to 1000Mb Ethernet, and is only applicable to a cable that can support that data rate. 40nS is the absolute maximum allowed due to the symbol rate at 1000Mb. This specification can be set to 0 to allow cables to pass the testing without requiring this parameter to be met.

Min SNR is the minimum signal-to-noise ratio allowed. Generally, 20db is the minimum acceptable level in 100 Mb and 1000Mb mode. It can be set higher to require the testing to show a higher margin in the noise level. This specification can be set to 0 to allow cables to pass the testing without requiring this parameter to be met.

The *Length* field allows you to specify whether the Maximum Length field will be checked during testing. If this field is set to "Yes", the measured cable length will be compared to the Maximum Length specification, and the Pass/Fail result will be stored. If this field is set to "Don't Care", the length will be measured and recorded, but the Maximum Length is not checked. Note that the pF/ft (length constant) must be set to match the characteristics of the cable for the length measurement to be accurate.

The *pF/ft.* field specifies the length constant used for capacitive length measurements in Pico farads per unit length. This measure can display as meters if you selected Metric on the View menu. Length of cable is rounded to feet or .5 meters.

The Connector field is simply a comment field for the operator.

Wire Mapping

The section labeled Wire Mapping defines the connection between the pin assignment of the wires in the connections between one end of the cable and the other. If the In Use box is checked, the pair will be tested. If it is not checked, that pair is not tested. By default, all boxes are checked.

The *Map To* field defines the pair at the remote end to which the main unit pair is connected. Each pair can be used only once.

Pair Polarity indicates whether or not the connection is Normal, Reverse, or Don't Care. For example:

- 1-2 Map To: 1-2 Normal means 1 goes to 1 and 2 goes to 2
- 1-2 Map To: 1-2 Reverse means 1 goes to 2 and 2 goes to 1
- 1-2 Map To: 1-2 Don't Care means either normal or reverse is acceptable

The *Split Test* field determines that the cable wire pairing is verified and must be correct for the cable to "Pass". Don't care means that pairing is unimportant.

Shield defines Shield continuity will be tested and required for the cable to "Pass". If Yes is selected in the Shield box, shield continuity will be tested. If No is selected, the shield continuity is not a Pass/ Fail criteria.

Phone Jack Tab

The Phone Jack tab controls the detailed specifications for 6 wire, 3 pair cables that are normally terminated per USOC 3-pair definition, and used for telephone connections. Cables in this category are tested by inserting them into the 6-pin connector on the Validator. As described above, a new type can be defined by selecting an existing type from the drop down list to modify, or New, to define a new type from scratch. As with Data Types, the default types included with Plan-Um[®] cannot be modified and stored under the original type name, but can be stored with a new name.

You can customize types in the phone jack category by modifying or entering new specifications into the Connector, Length, pF/ft, and Max Length (ft) fields. See descriptions in the Data Jack Table on page 26.

Wire mapping is defined as 1-6, 2-5, and 3-4. Remaining fields and check boxes are the same or similar to the data jack definitions described on page 27.

When the specification of the new type is complete, a unique Type Name can be entered, and the new type saved in the .job file.

Job Information	Network View	Network Devices	Floor Plan Cable	est Schedule	Detailed Te	est Results	Cable Types	Job Notes	
Data Jack Phor	ne Jack 2-Wi	re Jack Bundled C	ables						
Load Phone Type	e: Tel_Cord	Save T	Delete Type						
Test Parameters	5		Save Phone Cable T	vpe					
Type Name: T	Cable				Length:	Don't Care			~
Comment				Length Cor	nstant (pF / ft):	18			
Color:			Change C	olor M	ax Length (ft):				
		Man Tai		Deix Delevitur			Qualit Tarat		
mose.		Map TU.		Pair Pularity.			Split Test.		
I-b		1-6	î	Normai		×	DontCare		
2-5		3-4	•	Normal		*	Don't Care		~
☑ 3-4		2-5	٩	Normal		~	Don't Care		~

2-Wire Jack Tab

The 2-Wire Jack tab controls the detailed specifications for 2 wire, single pair cables. Cables in this category are tested by inserting them into the F-connector or connecting them to the banana jacks on the Validator. As described above, a new type can be defined by selecting an existing type from the drop down list to modify, or New, to define a new type from scratch. As with Data Types, the default types included with Plan-Um[®] cannot be modified and stored under the original type name, but can be stored with a new name.

2-Wire category cables are only tested for continuity and length. Accurate length testing relies on the 2 wires in the cable forming a single pair, such as coax and 2-wire twisted security cables. The Polarity selection box determines whether the Pass/Fail criteria for this type, is point-point (Normal), Reverse or Don't Care.

The Connector field for this category is shown on the Test Results screen on the Validator and can be used to define a visual check for the technician at the job site to verify that the proper termination is on the cable.

Job Information	Network View	Network Devices	Floor Plan	Cable Test	Schedule	Detailed Te	est Results	Cable Types	Job Notes	
Data Jack Pl	hone Jack 2-W	ire Jack Bundled C	ables							
Load 2-Wire Ty	/pe: RG-6	Save Ty	pe Delete T	Vpe						
- Test Paramet	ers		7		-					
Type Name:	2-Cable		Save 2-Wir	e Cable Type		Length:	Don't Care			~
Comment:					Length Const	tant (pF / ft):	16			
Polarity:	Don't Care			~	Max	Length (ft):				
Color:			0	hange Color						

Bundled Cable Tab

You can create bundled cable types and give them a name, a color, and between 2 and 8 default and/ or custom cable type categories. The user shall be able to save this bundled cable type to the job file and to delete this bundled cable type from the job file. The user shall be able to select a bundled cable type that was previously saved and change the name, color, and the number and/or types of cables used in the bundle.

lob Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
Data Jack Pł	none Jack 2-Wi	ire Jack Bundled (Cables				
Load Bundled (Cable Type: New	/	Save Type	Delete Type			
Bundled Cabl	e Configuratio <mark>n New</mark> HTh Ie Type Nam MMC	eatre					
Bundled Cabl	e Color: MMC Transi	Combo4 Flex	Change Colo	r			
Section:	CAT5	~					
Cable 2:	CAT5	~					
Cable 3:	CAT5	~					
Cable 4:	CAT5	~					
Cable 6:	CAT5	~					
🔲 Cable 7:	CAT5	~					
Cable 8:	CAT5	~					

1. Select a cable from the Load Bundled Cable Types to edit or select New.

2. Enter a name in the line edit next to the **Bundled Cable Type Name** label. If you selected a cable to edit you must enter a new name to be able to edit the selected cable and then save.

Job Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes	
Data Jack F	Phone Jack 2-W	ire Jack Bundled C	ables					
Load Bundled	Cable Type: New	/	Save Type	Delete Type				
Bundled Cat	ole Configuration							
Bundled Cal	ble Type Name: 固	Cable						
Bundled Cal	ble Color:		Cha	ange Color				
Section:	Туре:							
🔲 Cable 1	CAT5	\sim						
Cable 2:	CAT5	~						
Cable 3:	CAT5	~						
Cable 4:	CAT5	~						
Cable 5:	CAT5	\sim						
Cable 6:	CAT5	\sim						
Cable 7:	CAT5	~						
Cable 8:	CAT5	~						

3. To Select a Bundled Cable Color, click the **Change Color** button. Select colors from the basic colors or create your own colors, then press OK.

Job Information Network V	/iew Network Device	es Floor Plan	Cable Test	Schedule	Detailed Test Results	Cable Types	Job Notes	
Data Jack Phone Jack	2-Wire Jack Bundle	d Cables	_					
Load Bundled Cable Type: Bundled Cable Configurati Bundled Cable Type Nam Bundled Cable Color: Section: Type: Cable 1 CAT5 Cable 2: CAT5	New on ne: BCable	Save Type	Delete Type	Basic color	or S S S S S S S S S S S S S S S S S S S			
Cable 3: CAT5 Cable 4: CAT5 Cable 5: CAT5 Cable 5: CAT5 Cable 6: CAT5 Cable 7: CAT5 Cable 8: CAT5				Custom colo	ors Custom Colors >> Cancel	Hun Se Ve Add to	e: -1 Red at 0 Green al: 255 Blue Custom Colors	: 255 : 255 : 255

4. Choose at least 2 cables of any type (except other bundled cables) as part of the bundle. The eight cable check boxes to the left must be checked in sequence and unchecked in reverse sequence. If the user has the first 4 check boxes checked, you can only check Cable 5 or uncheck Cable 4.

Job Informatio	n Network∨	iew N	letwork Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes	
Data Jack	Phone Jack	2-Wire J	lack Bundled C	ables					
Load Bundle	d Cable Type:	BCable	(Save Type	Delete Type				
-Bundled Ca	able Configurati	on							
Bundled C	able Type Nam	ie: BCab	ile						
Bundled C	able Color:			Cha	ange Color				
Section:	Туре:								
🗹 Cable 1	CAT5		*						
🔽 Cable 2	2: CAT5E		~						
🔽 Cable 3	B: Audio		~						
🔽 Cable 4	4: RG-6		~						
Cable 5	5: CAT5		~						
🔲 Cable 8	6: CAT5		~						
🔲 Cable 7	CAT5		~						
Cable 8	B: CAT5		~						

4. Click **Save Type** to save cable.

Using the Zoom Feature

The default page setup is set to 100% zoom which allows the user to view the top left corner of the drawing canvas. The more complex the floor plan, the more difficult it becomes to view the complete floor plan. To adjust the view, click the Plus or Minus Zoom button on the icon toolbar while on the floor plan. You may also click the down arrow on the Zoom dialog box and select a specific percentage rate for viewing the image, from 25% to 400%. Or, to see the entire drawing page as it will print with the current Page Setup and Scale options, select Page.



Plan-Um[®] remembers the last selected zoom used for the floor plan and Network View when you exit the program, and reopens the program with those zoom settings.

Centering the Image

The Center feature on the Icon Toolbar allows you to center the reduced or enlarged image on the desktop. When you click the Center icon, a dialog pop-up appears showing four buttons labeled Up, Left, Right, Down. Click the appropriate buttons as many times as needed to center the image on the desktop. When it is positioned where you want it, click the Close button.



Showing Room Information

To improve the visibility of other details on the Floor Plan, room dimensions and room name can be hidden. On the Floor Plan tab, click the View drop down dialog box and select Show Dimensions to alternately show or hide room dimensions and room name. The free text will still appear for more flexible text creation.



Cabling Between Floors (Vertical Run Feature)

You can run cabling from one floor to another with the Vertical Run feature. This allows you to have one main patch panel as a single point of concentration for floor plans with multiple floors. Use these steps to set up vertical runs.

- 1. Create multiple floors and define the ports on each floor.
- 2. Since you are creating vertical runs between floors, identify the floor where the main concentrator panel for the building is located. For example, this is often Floor 1. On the floor where the main concentrator panel is located, create the cable runs from the ports to the patch panel.
- 3. Click the **Add Vertical Run** button on the Floor Tools menu. A icon labeled Vertical Run appears on the floor plan. Drag and drop a vertical run icon to each floor. A label appears depicting the floor number, VR for Vertical Run and 01 for the first occurrence.



4. Terminate the cable runs designated to be run between floors at the VR icon on that floor.



5. When complete, click the **Choose Floor** button and select the Floor where the cabling will terminate.



6. Click the **Vertical Run** drop down box and select the VR from which the cable originated.



 An Incomplete Cables field on the Floor Tools menu displays cables that are not yet terminated. Select the cable you want to terminate from this list, then click the Finish Cable button and drag it from the Vertical Run icon to the concentrator panel.



8. Repeat this step until all incomplete cables are terminated to the patch panel.



Cable Test Schedule

Each cable run you define is recorded in the Cable Test Schedule, the fourth tab on the Plan-Um[®] desktop. This test schedule, including results, becomes the job report that the customer receives.

Viewing the Cable Test Schedule

To see the complete list of defined cables, click the Cable Test Schedule tab.

Each cable in the Cable Test Schedule includes a cable ID, the port ID of the To and From terminations, Type, Test Jack, Use, Length, Results, Bundle Type, Bundle #, Color, and Response Plot. The Length and Results columns are populated after you upload the Cable Test Schedule to the Validator, test each cable, and download the results back to Plan-Um[®].

You can sort the cable list in ascending or descending order, grouping the same cable types for testing. To sort the cable list, click on the Type heading.

Job	Information	Network View	Network Devices	Floor Plan	Cable Test S	Schedule	Detailed Test Resu	lts Cable Types	Job Notes			
Ac	dd Cable(s)	Define Cable(s)										
	ID	From	То	Туре	Test Jack	Use	Length	Result	Bundle Type	Bundle #	Color	Response Plot
1	Cable001	01Net01	01Panel01	CAT5E	🖌 Data	Network	. 🗸	🕐 Untested	NA	NA		🕐 No Data
2	Cable002	01Net02	01Panel01	CAT5E	🖌 Data	Network	. 🖌	🕐 Untested	NA	NA		🕐 No Data
3	Cable003	01TV03	01Panel01	RG-6	2Wire	TV	~	🕐 Untested	NA	NA		? No Data
4	Cable004	01TV02	01Panel01	RG-6	2Wire	TV	~	🕐 Untested	NA	NA		? No Data
5	Cable005	01Fire01	01Panel01	Fire	2Wire	Fire	~	🕐 Untested	NA	NA		no Data?
6	Cable006	01Fire02	01Panel01	Fire	2Wire	Fire	~	🕐 Untested	NA	NA		no Data?
7	Cable007	01Fire03	01Panel01	Fire	2Wire	Fire	*	🕐 Untested	NA	NA		🕐 No Data
8	Cable008	03TV03	01Panel01	RG-6	2Wire	TV	~	🕐 Untested	NA	NA		🕐 No Data
9	Cable009	03TV02	01Panel01	RG-6	2Wire	TV	~	🕐 Untested	NA	NA		🕐 No Data
10	Cable010	03Fire03	01Panel01	Fire	2Wire	Fire	~	🕐 Untested	NA	NA		no Data?
11	Cable011	03Fire02	01Panel01	Fire	2Wire	Fire	~	🕐 Untested	NA	NA		🕐 No Data
12	Cable012	03Fire04	01Panel01	Fire	2Wire	Fire	~	🕐 Untested	NA	NA		🕐 No Data
13	Cable013	03Net02	01Panel01	CAT5E	🖌 Data	Network	. 🖌	🕐 Untested	NA	NA		🕐 No Data
14	Cable014	03Phone02	01Panel01	Tel_Cord	Phone	Phone	~	🕐 Untested	NA	NA		🕐 No Data
15	Cable015	03Phone01	01Panel01	Tel_Cord	Phone	Phone	~	🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03	01Panel01	Tel_Cord	Phone	NA	~	🕐 Untested	NA	NA		🕐 No Data
17	Cable017	03Plate02	01Panel01	Tel_Cord	Phone	NA	~	🕐 Untested	NA	NA		🕐 No Data
18	Cable018	03Plate01	01Panel01	Tel_Cord	Phone	NA	~	🕐 Untested	NA	NA		🕐 No Data

Editing the Cable Test Schedule

Individual cells or rows on the Test Schedule can be edited using cut, copy, paste or delete. Plan-Um[®] does not allow you to select and edit multiple cells at once. A Cable Test Schedule which has been generated using the Floor Plan tools is linked to that floor plan, and editing entries on the Test Schedule screen can affect the floor plan.

The Cable ID field can be edited. A new Cable ID must not match another ID already on the Test Schedule.

Job	Information	Network View	Network Devices	Floor Plan	Cable Test Schedule		Detail	ed Test Results	Cable Types	Job Notes			
Ad	d Cable(s)	Define Cable(s)											
	ID	From	To	Туре	Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot
1	Cable001	01Net01	01Panel01	CAT5E	🖌 Data	Network	< 🔽		😤 Untested	NA	NA		🕐 No Data
2	Cable002	01Net02	01Panel01	CAT5E	🖌 Data	Network	< 🗸		🕐 Untested	NA	NA		🕐 No Data
3	Cable003	01TV03	01Panel01	RG-6	 2Wire 	TV	~		🕐 Untested	NA	NA		🕐 No Data
4	Cable004	01TV02	01Panel01	RG-6	2Wire	TV	~		🕐 Untested	NA	NA		🕐 No Data
5	Cable005	01Fire01	01Panel01	Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
6	Cable006	01Fire02	01Panel01	Fire	2Wire	Fire	~		🕐 Untested	NA	NA		🕐 No Data
7	Cable007	01Fire03	01Panel01	Fire	2Wire	Fire	~		🕐 Untested	NA	NA		🕐 No Data
8	Cable008	03TV03		RG-6	2Wire	TV	~		🕐 Untested	NA	NA		🕐 No Data
9	Cable009	03TV02		RG-6	2Wire	TV	~		🕐 Untested	NA	NA		🕐 No Data
10	Cable010	03Fire03		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
11	Cable011	03Fire02		Fire	2Wire	Fire	~		🕐 Untested	NA	NA		🕐 No Data
12	Cable012	03Fire04		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
13	Cable013	03Net02		CAT5E	🖌 Data	Network	< 🔽		🕐 Untested	NA	NA		🕐 No Data
14	Cable014	03Phone02		Tel_Cord	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
15	Cable015	03Phone01		Tel_Cord	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03		Tel_Cord	Phone	NA	~		Ontested	NA	NA		🥐 No Data
17	Cable017	03Plate02		Tel_Cord	Phone	NA	~		🕐 Untested	NA	NA		🕐 No Data
18	Cble2000	03Plate01		Tel_Cord	Phone	NA	~		🕐 Untested	NA	NA		🕐 No Data

The To and From Port ID's can be edited on this screen, but the floor plan will not automatically update. If you enter a Port ID that matches one on the same floor as the original port on the floor plan, the cable termination will move to that port. To move a cable from one port to another, edit either the "From" or "To" cable values with the desired port name and select "Enter".

Job	Information	Network View	Network Devices	Floor Plan	Cable Test S	Schedule	Detail	ed Test Results	Cable Types	Job Notes			
A	dd Cable(s)	Define Cable(s)			_								
	ID	From	То	Туре	Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot
1	Cable001	01Net01	01Panel01	CAT5E	🖌 Data	Network	< 🔽		🕐 Untested	NA	NA		🕐 No Data
2	Cable002	01Net02	01Panel01	CAT5E	🖌 Data	Network	< 🔽		🕐 Untested	NA	NA		🕐 No Data
3	Cable003	01TV03	01Panel01	RG-6	 2Wire 	TV	*		🕐 Untested	NA	NA		🕐 No Data
4	Cable004	01TV02	01Panel01	RG-6	 2Wire 	TV	~		🕐 Untested	NA	NA		🕐 No Data
5	Cable005	01Fire01	01Panel01	Fire	 2Wire 	Fire	*		🕐 Untested	NA	NA		🕐 No Data
6	Cable006	01Fire02	01Panel01	Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
7	Cable007	01Fire03	01Panel01	Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
8	Cable008	03TV03		RG-6	2Wire	TV	~		🕐 Untested	NA	NA		🕐 No Data
9	Cable009	03TV02		RG-6	 2Wire 	TV	~		🕐 Untested	NA	NA		🕐 No Data
10	Cable010	03Fire03		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
11	Cable011	03Fire02		Fire	2Wire	Fire	~		🕐 Untested	NA	NA		🕐 No Data
12	Cable012	03Fire04		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
13	Cable013	03Net02		CAT5E	🖌 Data	Network	< 🔽		🕐 Untested	NA	NA		🕐 No Data
14	Cable014	03Phone02		Tel_Cord	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
15	Cable015	03Phone01		Tel_Cord	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03		Tel_Cord	Phone	NA	~		Ontested	NA	NA		🕐 No Data
17	Cable017	03Plate02		Tel_Cord	Phone	NA	~		🕐 Untested	NA	NA		🥐 No Data
18	Cble2000	05Plate03	01Comm01	CAT5	🖌 Data	NA	~		🕐 Untested	NA	NA		🕐 No Data

If you enter a Port ID that does not match one on the floor plan, the cable will not be visible on the floor plan.

Cable Types can be changed by clicking on the drop down box, and then selecting a Cable Type in the list.

	ID	From	To	Туре		Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plr
1	Cable001	01Net01	01Panel01	CAT5E	~	Data	Network	~	•	Ontested	NA	NA		🕐 No Data
2	Cable002	01Net02	01Panel01	CAT5E	~	Data	Network	~	•	🕐 Untested	NA	NA		🕐 No Data
3	Cable003	01TV03	01Panel01	RG-6	~	2Wire	TV	~	•	🕐 Untested	NA	NA		🕐 No Data
4	Cable004	01TV02	01Panel01	RG-6	~	2Wire	TV	~	•	🕐 Untested	NA	NA		😤 No Data
5	Cable005	01Fire01	01Panel01	Fire	~	2Wire	Fire	~	•	🕐 Untested	NA	NA		🕐 No Data
6	Cable006	01Fire02	01Panel01	Fire	~	2Wire	Fire	~	•	🕐 Untested	NA	NA		🕐 No Data
7	Cable007	01Fire03	01Panel01	Fire	~	2Wire	Fire	~	1	🕐 Untested	NA	NA		🕐 No Data
3	Cable008	03TV03		CATE		2Wire	TV	~	•	🕐 Untested	NA	NA		🕐 No Data
3	Cable009	03TV02		CATSE	=	2Wire	TV	~	1	🕐 Untested	NA	NA		🕐 No Data
10	Cable010	03Fire03		CATE		2Wire	Fire	~	•	🕐 Untested	NA	NA		🕐 No Data
1	Cable011	03Fire02		CAT3 4P		2Wire	Fire	~	•	🕐 Untested	NA	NA		🕐 No Data
12	Cable012	03Fire04		CAT3		2Wire	Fire	~	1	🕐 Untested	NA	NA		🕐 No Data
13	Cable013	03Net02		CAT3 2P		Data	Network	~	•	🕐 Untested	NA	NA		🕐 No Data
14	Cable014	03Phone02		RG-6	1	Phone	Phone	~	•	🕐 Untested	NA	NA		🕐 No Data
5	Cable015	03Phone01		Fire		Phone	Phone	~	1	🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03		Security		Phone	NA	~	•	? Untested	NA	NA		🕐 No Data
17	Cable017	03Plate02		RG-58	~	Phone	NA	~	•	🕐 Untested	NA	NA		no Data ?
18	Cble2000	05Plate03	01Comm01	CAT5	~	Data	NA	~	*	Ontested	NA	NA		no Data ?

The Test Jack field cannot be edited, as it is set to display the connector on the Validator, which is used to test cables of the Type selected in that field.

The Use field is informational only, and can be set to any of the built-in Uses by clicking on the drop down box, then clicking on the desired Use. A Use is automatically assigned to a cable when a cable is connected between 2 Specific Use ports or 1 Specific Use and 1 General Use port on the floor plan. If a cable is connected between 2 different Specific Use ports or 2 General Use ports, no Use is assigned to that cable.

The Length and Results fields cannot be changed by editing them on this screen. They are filled in during the actual cable test on the Validator. Note that changing the Type of a cable on the Test Schedule screen will clear the Length and Results fields, as those fields are no longer valid.

Clicking on the Results field on the Test Schedule will switch the display to the Detailed Test Results for that cable.

Job	Information	Network View	Network Devices	Floor Plan		Cable Test Sc	hedule	Detail	ed Test Results	Cable Types	Job Notes			
Ac	ld Cable(s)	Define Cable(s)												
	ID	From	То	Туре		Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot 🔺
1	Cable001	01Net01	01Panel01	CAT5E	~	Data	Network	~		? Untested	NA	NA		🕐 No Data
2	Cable002	01Net02	01Panel01	CAT5E	~	Data	Network	~		? Untested	NA	NA		🕐 No Data
3	Cable003	01TV03	01Panel01	RG-6	*	2Wire	TV	~		🕐 Untested	NA	NA		? No Data
4	Cable004	01TV02	01Panel01	RG-6	*	2Wire	TV	*		🕐 Untested	NA	NA		? No Data
5	Cable005	01Fire01	01Panel01	Fire	۷	2Wire	Fire	~		🕐 Untested	NA	NA		🕐 No Data
6	Cable006	01Fire02	01Panel01	Fire	~	2Wire	Fire	~		🕐 Untested	NA	NA		🖓 No Data
7	Cable007	01Fire03	01Panel01	Fire	*	2Wire	Fire	*		🕐 Untested	NA	NA		🕐 No Data
8	Cable008	03TV03		RG-6	۷	2Wire	TV	~		🕐 Untested	NA	NA		🕐 No Data
9	Cable009	03TV02		RG-6	~	2Wire	TV	~		🕐 Untested	NA	NA		🖓 No Data
10	Cable010	03Fire03		Fire	*	2Wire	Fire	*		🕐 Untested	NA	NA		🕐 No Data
11	Cable011	03Fire02		Fire	*	2Wire	Fire	*		🕐 Untested	NA	NA		🕐 No Data
12	Cable012	03Fire04		Fire	~	2Wire	Fire	~		🕐 Untested	NA	NA		🕐 No Data
13	Cable013	03Net02		CAT5E	۷	Data	Network	~		😤 Untested	NA	NA		? No Data
14	Cable014	03Phone02		Tel_Cord	*	Phone	Phone	*		🕐 Untested	NA	NA		🕐 No Data
15	Cable015	03Phone01		Tel_Cord	۷	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03		Tel_Cord	۷	Phone	NA	~		🕐 Untested	NA	NA		🕐 No Data
17	Cable017	03Plate02		Tel_Cord	*	Phone	NA	*		🕐 Untested	NA	NA		🕐 No Data
18	Cble2000	05Plate03	01Comm01	RG-6	*	2Wire	NA	~		🕐 Untested	NA	NA		🥐 No Data

Each cable on the Cable Test Schedule has a color attribute which can be edited by left clicking on the cell showing the color.

Job	Information	Vetwork View	Network Devices	Flo	or Plan	Cable Test Schedule	Detaile	d Test Results	Cable Types	Job Notes			
Ac	id Cable(s)	efine Cable(s)		6	🚽 Select	color				3			
	ID	From	To	Туре	Basic c	lors	_			ndle Type	Bundle #	Color	Response Plot 🔺
1	Cable001	01Net01	01Panel01	CAT							NA	N	🕐 No Data
2	Cable002	01Net02	01Panel01	CAT							NA	1 N	🕐 No Data
3	Cable003	01TV03	01Panel01	RG-6							NA		? No Data
4	Cable004	01TV02	01Panel01	RG-6		🔳 📕 🔳 📕					NA		🕐 No Data
5	Cable005	01Fire01	01Panel01	Fire							NA		? No Data
6	Cable006	01Fire02	01Panel01	Fire							NA		🕐 No Data
7	Cable007	01Fire03	01Panel01	Fire							NA		😤 No Data
8	Cable008	03TV03		RG-6							NA		🕐 No Data
9	Cable009	03TV02		RG-6							NA		? No Data
10	Cable010	03Fire03		Fire	Custom	colors					NA		😤 No Data
11	Cable011	03Fire02		Fire	Custom			Hue: -1	Bed: 255		NA		😤 No Data
12	Cable012	03Fire04		Fire				1140.	1 (CG. 200		NA		😤 No Data
13	Cable013	03Net02		CAT				Sat: 0	Green: 255		NA		? No Data
14	Cable014	03Phone02		Tel_(ofina Quatam Calara እ		Val: 255	Blue: 255		NA		😤 No Data
15	Cable015	03Phone01		Tel_(enne custorri Culturs >>					NA		🕐 No Data
16	Cable016	03Plate03		Tel_0	OK	Cancel		Add to Custor	n Colors		NA		🥐 No Data
17	Cable017	03Plate02		Tel_(NA		🥐 No Data
18	Cble2000	05Plate03	01Comm01	RG-6	~	2Wire NA	*	2	Ontested N	JA.	NA		🥐 No Data

If the cable is in a bundled cable, the type of bundled cable and the number of the cable in the bundle will be displayed in the Bundle Type and Bundle # columns, respectively.

Job	Information	Network View	Network Devices	Floor Plan	Cable Test S	chedule	Detaile	ed Test Results	Cable Types	Job Notes			
A	d Cable(s)	Define Cable(s)											
	ID	Erom	To	Type	Test Jack	Hee		Length	Result	Bundle Tyne	Bundle #	Color	Besnonse [^
5			011 0110101	ria o		1 1		Longu				00101	
4	Cable004	01TV02	01Panel01	RG-6	 2Wire 	TV	~		🕐 Untested	NA	NA		🕐 No Data
5	Cable005	01Fire01	01Panel01	Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		no Data 🚽
6	Cable006	01Fire02	01Panel01	Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
7	Cable007	01Fire03	01Panel01	Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
8	Cable008	03TV03		RG-6	 2Wire 	TV	~		🕐 Untested	NA	NA		🕐 No Data
9	Cable009	03TV02		RG-6	 2Wire 	TV	~		🕐 Untested	NA	NA		🕐 No Data
10	Cable010	03Fire03		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
11	Cable011	03Fire02		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
12	Cable012	03Fire04		Fire	 2Wire 	Fire	~		🕐 Untested	NA	NA		🕐 No Data
13	Cable013	03Net02		CAT5E	🗸 Data	Network	< 💌		🕐 Untested	NA	NA		🕐 No Data
14	Cable014	03Phone02		Tel_Cord	 Phone 	Phone	~		🕐 Untested	NA	NA		🕐 No Data
15	Cable015	03Phone01		Tel_Cord	 Phone 	Phone	~		🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03		Tel_Cord	 Phone 	NA	~		🕐 Untested	NA	NA		🥐 No Data
17	Cable017	03Plate02		Tel_Cord	 Phone 	NA	~		🕐 Untested	NA	NA		🥐 No Data
18	Cble2000	05Plate03	01Comm01	RG-6	 2Wire 	NA	~		🕐 Untested	NA	NA		? No Data
19	Cable018	01Panel01	01Plate04	CAT5E	🗸 Data	NA	~		🔁 Untested	VCable	1		🔁 No Data 👘
20	Cable019	01Panel01	01Plate04	CAT5E	🗸 Data	NA	~		🔁 Untested	VCable	2		😪 No Data
21	Cable020	01Panel01	01Plate04	CAT6	🗸 Data	NA	~		🔁 Untested	VCable	3		😪 No Data
22	Cable021	01Panel01	01Plate04	RG-6	2Wire	NA	~		🔁 Untested	VCable	4		😪 No Data 🗸
<							111						

The last column, Response Plot, displays whether there is any cable frequency response plot data available for the cable. If data exists for the cable, the cell will show the same information as the Result column. If there is no data, then the cell will display 'No Data'. If data is available for a cable, clicking on the Response Plot field on the Test Schedule will pop-up a separate dialog (Frequency Response Plot) displaying the cable's frequency response plot.

Job	Information	Network View	Network Devices	Floor Plan	Cable Test S	chedule	Deta	iled Test Results	Cable Types	Job Notes			
Ad	d Cable(s)	Define Cable(s)											
	ID	From	To	Туре	Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot
1	Cable002	01Net02	01Panel01	CAT5E	/ Data	Network	1	< 102.9 ft	% 1000MB	NA	NA		%≽1000MB N
2	Cable001	01Net01	01Panel01	CAT5E	Data	Network	`	/ 9 ft	%⊮ 1000MB	NA	NA		% 1000MB
3	Cable006	01Fire02	01Panel01	Fire	2Wire	Fire	`	1	🕐 Untested	NA	NA		🕐 No Data
4	Cable005	01Fire01	01Panel01	Fire 🔉	2Wire	Fire	1	70.3 ft	🗶 FAIL	NA	NA		? No Data
5	Cable007	01Fire03	01Panel01	Fire 🔉	2Wire	Fire	1	/	🕐 Untested	NA	NA		🕐 No Data
6	Cable003	01TV03	01Panel01	RG-6	2Wire	TV	1	2 32.6 ft	V PASS	NA	NA		🕐 No Data
7	Cable004	01TV02	01Panel01	RG-6	2Wire	TV	1	2 96.7 ft	V PASS	NA	NA		? No Data

Creating a Cable Test Schedule Manually

Rather than generating a cable list using the Floor Plan tools, a complete Test Schedule can be created using the Add Cable(s) or Define Cable(s) features to automatically assign the next incremental Cable ID.

You can also manually enter Cable IDs and select a Type for each cable, or copy and paste selected Cable IDs on the Cable Test Schedule to create identical cable runs that can be edited. The remaining fields are completely optional.

Download this Test Schedule to Validator to perform all test functions. You may also use this process to create a Cable Test Schedule directly in the Validator.

Add Cable(s)

On the Cable Test Schedule tab, click the **Add Cable(s)** button to add a cable of the selected type. Use the drop down dialog boxes to edit the Type or Use fields.

Job Info	rmation	Network View	Network Devices	Floor Plan	Cable Test Sc	chedule	Detail	ed Test Results	Cable Types	Job Notes			
Add C	able(s)	Define Cable(s)											
ID	Ad	ld Cable(s)	To	Туре	Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot
1 Ca	able001			CAT5 💌	Data	NA	~		🕐 Untested	NA	NA		🕐 No Data
2 Ca	able002			CAT5 💌	Data	NA	~		🕐 Untested	NA	NA		🕐 No Data

Define Cable(s)

On the Cable Test Schedule tab, click the **Define Cable(s)** button. A dialog box pops up that allows the user to select the Number of Cables to Add using the default Cable ID format of Cable001, Cable002, etc., or to select a Custom Cable ID template and define the Cable ID sequence they wish to add. Click OK and **Add Cable(s)** on the Cable Test Schedule and the Cable IDs you created will appear on the Cable Test Schedule.

Jo	b Information	Network View	Network Devices	Floor Plan	Cable Test Sch	nedule	Detaile	ed Test Results	Cable Types	Job Notes			
Ā	dd Cable(s)	Define Cable(s)											
	ID	From	То	Туре	Test Jack	Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot
1	Cable001			CAT5	🖌 Data	NA	~		🕐 Untested	NA	NA		🕐 No Data
2	Cable002			CAT5	🖌 Data	NA	~		🕐 Untested	NA	NA		😤 No Data
				Tyr Fro	e <mark>fine Cables</mark> Istom Cable ID N De: CAT5 m Port	lumber of	f Cables Vse: To P	to Add per Addit NA ort OK	ion: 1 1				

Define Custom Cable ID

To define a Custom Cable ID template, click the **Custom Cable ID** button on the **Define Cable(s)** dialog box. Click Use template for Cable ID, choose numbers or letters, the beginning number or letter in the sequence, and the number of padding digits (Max 5). In the template box, type the root Cable ID and the # sign to indicate the letter or number digits to sequentially add. Click OK. Click OK again, and then click **Add Cable(s)** on the Cable Test Schedule and the Cable IDs you just created will appear on the Cable Test Schedule.

Job Information	Network View	Network Devices	Floor Plan	Cable Test	Schedule	Detailed Test Results	Cable Types	Job Notes			
Add Cable(s)	Define Cable(s)										
ID	From	To	Туре	Test Jack	Use	Length	Result	Bundle Type	Bundle #	Color	Response Plot
Job ID #:			το Γου Γου Γιο	efine Cables Istom Cable ID De: CAT5E m Port) Number a	f Cables to Add per Addi Use: Network To Port: Custom Cable Custom Cable Use template Use template Use num O Use num Custom Cable Custom Cable Custom Cable Use template Custom Cable Custom Custom Cu	tion: 1 tion: 1 tor:	sed by numeric o	ralphabetic er Start at Padding:	Image: Control of the second	
						202 203 Preview: 204 205	202 303 404 505				
									ОК	Cancel	

Viewing Detailed Cable Test Results

To view a Detailed Cable Report for each tested cable, download your test results from Validator. Click on Detailed Test Results and select individual cables in the pull down menu to display Pass/Fail Results, and all the other details of the tests run for that cable.

Job Info	ormation	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes	
Cable:	Cable001		~						
Te Fra Fra To Bu	Cable001 Cable002 Cable003 Cable004 Cable005 Cable006 Cable007 Port: 01Pane ndle Name:	101		୯ଜ P 1 ପ ¢A	ass Gbit/s IT5E				
	1 — 2 —	Expected 1	1 2	s 1 2					
	3 — 6 — 4 — 5 —	3 6 4 5	3 6 4 5	3 6 					~

Comments that may have been added in the Cable Types tab print below the test results, as well as the Validator serial number and software version used to test.

This information can be presented to your customer or archived for future reference. Print specific Test Results for each cable or select Print All to print Test Results for all cables on the Test Schedule.

Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
e: Cable001		~					
Test Time: 11:12 From Room: From Port: 01Ne To Room: To Port: 01Pane Bundle Name:	1 ble001 2 Wed 2006 Nov 22 101 101		%⊮ Pa 1 G CAT	ISS bit/s '5E			
1 — 2 — 3 — 4 — 7 — 8 — 5	Expected 1 2 2 3 3 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Results 1 2 3 6 4 5 7 7 8 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ 1 2 3 6 4 5 7 8 S				
Length Max: 300 f A ,8 B ,8 C ,9 D ,8	t .8 ft .9 ft .1 .3 ft	Skew Max: SNR Min: 20db 2.0 33.2 2.0 30.8 0.0 33.1 0.0 30.4	BERT R	esults: 0 errors			
Lomment: Validator Seria Validator Soft Validator Rem	l Number: 60418 vare Version: 02.20 ote ID: 1						

Frequency Response Plot

The cable frequency response plot data consists of three types of cable loss data measured in decibels in the frequency domain: Channel Response (the signal loss associated with frequency dependent channel characteristics), Echo Response (the signal loss associated with reflected signals), and Near-End Cross Talk (the signal loss associated with noise generated by signals carried on other cable pairs). The data is measured using Validator and stored in the job file for each cable tested.

The Frequency Response Plot depicts each cable's channel response, echo response and near-end crosstalk (NEXT). The plot is measured in decibels (dB) over the frequency domain (MHz). The channel response plot is drawn in green, the echo response in blue and the NEXT in red.



The plot can be zoomed by toggling the Zoom Plot button on the dialog and then using the pointer to select a rectangle to zoom in on.



Zooming out can be achieved by right clicking on the plot. To turn off zoom, toggle the Zoom Plot button.



The plot can be printed by selecting the Print button on the dialog which pops-up the standard print dialog. Choose the desired printer and click on Print. The plot will also print during regular printing if the cable has data to print.



Job Notes

The Job Notes section is provided so that general information regarding the job file can be recorded and printed. Notes are free text and can be used to record pertinent information that may be helpful to the installer in the future. Job Notes print on a separate page of the job report to avoid cluttering the floor plan.

Note: Device Notes created in the Network View section of Plan-Um[®] print separately from text entered in the Job Notes section of Plan-Um[®].

1. Click Job Notes and type the desired text on the canvas.

Job Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
MS Shell Dig	✓ 10 ✓	b i u ==					
Job Notes							
The Job Notes s printed. Notes ar installer in the futu	ection is provided re free text and car ire. Job Notes priv	so that general inform be used to record pe nt on a separate page	ation regarding rtinent informat of the job repo	g the job file can be record ion that may be helpful to t rt to avoid cluttering the flo	ed and he ior plan.		
<			111				>

2. You can select alternate font and point sizes by clicking on the respective drop down menus on the formatting toolbar. You can also apply bold or italic formatting, underline, or right, left, or center justify the text by clicking on the formatting icons on the toolbar.

Job Information	Network View	Network Devices	Floor Plan	Cable Test Schedule	Detailed Test Results	Cable Types	Job Notes
Job Information MS Shell Dlg Dialog 9 .Ruler ADMUI3Lg ADMUI3Sm Arial Black Arial Narrow AvantGarde Bk B AvantGarde Md E Baby Kruffy	Network View	Network Devices	Floor Plan	Cable Test Schedule g the job file can be record ion that may be helpful to t int to avoid cluttering the flo	Detailed Test Results	Cable Types	Job Notes
<							>

Managing Job Files

Plan-Um[®] uses several different types of files, each identified by a specific filename extension.

Job Files (*.job) - The basic file type which stores Job Information, Cable Test Schedule (with test results), Floor Plans, and Custom Cable Types.

JDSU Template Files (*.tut) - save the Contractor Information and any Custom Cable Types defined in a .job file for use when creating a new job. Use of the template (*.tut) file simplifies creation of a new job because you can load the template instead of reentering the information when a new job is created.

You can also import images as described in the section titled Defining Contractor Information. Image files (.PNG, .BMP, .JPEG, .PNM, .MNG, .XBM, and .XPM) are used for adding a custom logo to printed job reports, and displaying a floor plan from another drawing program in the floor plan view.

The following paragraphs describe the details of using the tools available in the File menu that is accessed by clicking the word File in the upper left hand corner of the Plan-Um[®] screen.

Note: As with any software, it is always recommended to Save data occasionally.

Save As Job

Use the Save As option to save a .job file on the PC under a new filename. For example, you may want to use the Job ID as the file name.

 Click File on the menu bar and select Save as Job. This displays the standard Windows Save As dialog box. When Plan-Um[®] is started for the first time the default Save In folder is My Documents>My Plan-Um Jobs.

File	Edit View Imag	je Help											
	New					Ctrl+N							
	Open					Ctrl+O	Detai	ed Test Results	Cable Types	Job Notes			
	Save					Ctrl+S							
	Save As Job												
	Import and Expor	t CTS File						Length	Result	Bundle Type	Bundle #	Color	Response Plot
	Export TUT File						~		🕐 Untested	NA	NA		🥐 No Data
							~		🕐 Untested	NA	NA		🕐 No Data
	Page Setup	Page Setup					~	1	Ontested	NA	NA		🥐 No Data
	Print Pre∨iew					~		🕐 Untested	NA	NA		🥐 No Data	
	Print Ctrl+F					Ctrl+P	~		🕐 Untested	NA	NA		🥐 No Data
a	Printlabels Ct				Ctrl+L	~		🕐 Untested	NA	NA		🥐 No Data	
-							~		🕐 Untested	NA	NA		🥐 No Data
	1 C:/Documents a	and Settings/xio	47260/My Docum	ents/My Plan-U	m Jobs/Untitled6.j	ob	~		🕐 Untested	NA	NA		🕐 No Data
	2 C:/Documents a	and Settings/xio	47260/My Docum	ents/My Plan-U	m Jobs/Untitled7.j	ob	~		🕐 Untested	NA	NA		🕐 No Data
	3 C:/Documents a	and Settings/xio	47260/My Docum	ents/My Plan-U	m Jobs/Untitled5.j	ob	~		🕐 Untested	NA	NA		🕐 No Data
	4 C:/Documents a	and Settings/xio	47260/My Docum	ents/My Plan-U	m Jobs/Untitled4.j	ob	~		🕐 Untested	NA	NA		🥐 No Data
	Exit						~		🕐 Untested	NA	NA		🕐 No Data
	3 Capieora	OJINEIUZ	ormaneior	LAISE	V Dala	INEWURK	~		🕐 Untested	NA	NA		🕐 No Data
1	4 Cable014	03Phone02	01Panel01	Tel_Cord	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
1	5 Cable015	03Phone01	01Panel01	Tel_Cord	✓ Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
1	6 Cable016	03Plate03	01Panel01	Tel_Cord	✓ Phone	NA	~		🕐 Untested	NA	NA		🥐 No Data
1	7 Cable017	03Plate02	01Panel01	Tel_Cord	 Phone 	NA	~		🕐 Untested	NA	NA		🕐 No Data
1	8 Cable018	03Plate01	01Panel01	Tel_Cord	 Phone 	NA	~		🕐 Untested	NA	NA		🕐 No Data

- 2. Plan-Um[®] remembers the last folder used to save or open a .job file and returns to that folder on subsequent .job file operations. You can save the job here or in a folder of your choice.
- 3. To optionally create a new folder, click the Create New Folder icon. A New Folder appears on your screen. Type a unique name for the new folder in the box and press enter.

📑 Save As		
Look in: 🔄 My Documents/My I	Plan-Um Jobs	
Name	Size Type	Date Attrib
🛅	Dir	11/15/2006 4:34:37 PM Read-only
🛅 New Folder 1	Dir	11/27/2006 7:16:46 PM Read-write 🔜
📑 Manual.job	9310 File	11/14/2006 11:28:34 PM Read-write
PLAN22~1.JOB	66458 File	11/27/2006 4:05:12 PM Read-write
📑 Untitled1.job	9474 File	11/15/2006 4:10:27 PM Read-write
📑 Untitled10.job	13224 File	11/22/2006 4:34:41 PM Read-write 💌
File name: PLAN22~1.JOB		Save
File type: *.job		Cancel

4. To complete the Save As operation, drop down to the File name field and type in a new filename and click the Save button.

Save As					X
Look in: 🔄 My Documents/My Plan-Um J	obs			🗈 💣 🏢	
Name	Size	Туре	Date	Attributes	^
i i i i i i i i i i i i i i i i i i i		Dir	11/15/2006 4:34:37 PM	Read-only	
🛁 Manual.job	9310	I File	11/14/2006 11:28:34 PM	/I Read-write	
🛁 Untitled1.job	9474	l File	11/15/2006 4:10:27 PM	Read-write	
🛁 Untitled2.job	11103	File	11/20/2006 8:05:26 PM	Read-write	
🛁 Untitled3.job	14302	File	11/21/2006 11:02:29 PM	/ Read-write	
🛁 Untitled4.job	14285	File	11/22/2006 12:02:26 AM	/I Read-write	
🛁 Untitled5.job	54758	File	11/22/2006 12:58:23 AM	/ Read-write	
📑 Untitled6.job	55129	I File	11/22/2006 1:16:35 AM	Read-write	~
File name: 061122 job				Save	R
File type: *.job			×	Cancel	<u> </u>

Save and Export as Template

'Export Tut File...' is used to save the Contractor Info, Custom Cable Types, and Page settings defined in an open .job file for use when creating a new job. To save this information as a template:

1. Select **Export Tut File...** on the File menu. When you select this option, the Windows **Save As** dialog box appears.

File	Edit View Image Help								
	New	Ctrl+N							
1	Open	Ctrl+O	Deta	iled Test Results	Cable T	ypes	Job Notes		
	Save	Ctrl+S							
	Save As Job								
	Import and Export CTS File								
	Export TUT File								_
	Page Setup 🔨	Ctrl+G			Length:	Yes			 ~
	Print Preview			 Length Constar 	nt (pE / ft):	15			511
2	Print	Ctrl+P		Max L	ength (ft):	300			511
•	Print Labels	Ctrl+L		c c	omment				511
	1 C:/Documents and Settings/xio47260/My Docum	ents/My Plan-Um Jobs/Untitled6.job	ae Co	lor	L				-
	2 C:/Documents and Settings/xio4/260/My Docum 2 C:/Documents and Settings/xio4/260/My Docum	ents/My Plan-Um Jobs/Untitled7.job	9						
	4 C:/Documents and Settings/xio47260/My Docum	ents/My Plan-Um Jobs/Untitled4.job							
	Exit			Pair Polarity:				Split Test:	
	✓ 1-2	1-2	*	Normal			*	Yes	~
	☑ 3-6	3-6	~	Normal			~	Yes	~
	✓ 4-5	4-5	*	Normal			*	Yes	~
	7-8	7-8	~	Normal			~	Yes	~
	Shield: Yes 💌								

2. When Plan-Um[®] is started for the first time, the default folder used for .tut files is C:\Program Files\Test-Um Inc\tut if the installation was done to the default folder. Plan-Um[®] remembers the last folder used to select a .tut file for a new job and returns to that directory on subsequent .tut file operations.

🖬 Save TUT File					X
Look in: 🔄 C:/Program Files/Test-Um Inc/tut/				🗸 🔶 💽	- 💣 🖩 🏢
Name	Size	Туре	Date		Attributes
	1	Dir	11/14/2006	5:50:06 PI	M Read-write
🖬 Default.tut	8165	File	11/2/2006 9	3:24:02 AM	I Read-write
🖬 Example.tut	82041	File	11/2/2006 9	3:24:02 AM	I Read-write
File name: Default.tut					Save
File type: *.tut				~	Cancel

- 3. A new folder can be created as described above if desired.
- 4. To save your new template, type a unique name in the **File name** field and click **Save**.

🖬 Save TUT File			
Look in: 🔄 C:/Program Files/Test	t-Um Inc/tut/) 💣 🎟 🏢
Name	Size Type	Date	Attributes
🛅	Dir	11/14/2006 5:50:06 Pt	vl Read-write
🖬 Default.tut	8165 File	11/2/2006 9:24:02 AM	Read-write
🖻 Example.tut	8204 File	11/2/2006 9:24:02 AM	Read-write
File name: Test-Um.tut			Save
File type: *.tut		~	Cancel
Creating a New File

1. Select **New** on the file menu to create a new file.

File Edit View Image Help					
New	Ctrl+N				
🚰 Open	Ctrl+O	Detailed Test Results	Cable Types Job	Notes	
Save	Ctrl+S				
Save As Job		Address			
Import and Export CTS File Export TUT File		Address:			
Page Setup Print Preview	Ctrl+G	City:			
Print	Ctrl+P	State / Province:			
Frint Labels	Ctrl+L	Zip / Mail Code:			
1 C/Documents and Settings/xio47260/My Documents/My Plan-Um Jobs/U 2 C/Documents and Settings/xio47260/My Documents/My Plan-Um Jobs/U 3 C/Documents and Settings/xio47260/My Documents/My Plan-Um Jobs/U 4 C/Documents and Settings/xio47260/My Documents/My Plan-Um Jobs/U	ntitled6.job ntitled7.job ntitled5.job ntitled4.job	Address			
Exit		Address:			
Company.		City:			
Phone:		State / Province:			
Emeil:		Zip / Mail Code:			
		Country:			

2. Type a **unique filename** for your new .job file in the **Filename** box. Select the folder where you want this file to be saved by clicking the Browse button.

📄 New File		? 🛛
Job File:	PLAN24.job	Browse
Template File:	C:/Program Files/Test-Um Inc/tut/Example.tut	Browse Job Files
	ОК	Cancel

3. Navigating through the Browse For Folder dialog, or create and name a New Folder if desired. Click OK once you have highlighted the folder you wish to create the file in. Note that when Plan-Um[®] is started for the first time, the default folder for .job files is My Documents. Plan-Um[®] remembers the last folder used for a .job file operation and returns to that folder on subsequent .job file operations.

🖬 New Job File			
Look in: 🔄 My Documents/My	Plan-Um Jobs	→	t 💣 🎟 🏢
Name	Size Type	Date	Attributes 🔼
🛃 Manual.job	9310 File	11/14/2006 11:28:34 PM	l Read-write 🚽
PLAN22~1.JOB	66458 File	11/27/2006 4:05:12 PM	Read-write 📒
📑 Untitled1.job	9474 File	11/15/2006 4:10:27 PM	Read-write 🚽
🛁 Untitled10.job	13224 File	11/22/2006 4:34:41 PM	Read-write
📇 Untitled11.job	63315 File	11/27/2006 2:43:52 PM	Read-write
🛁 Untitled2.job	11103 File	11/20/2006 8:05:26 PM	Read-write 💌
File name: PLAN24.job			Save
File type: *.job		~	Cancel

4. In the Template File field, the last template file used to create a new .job file is already selected. If you want to use that template, click OK to create the new file. If you want to use a different template, click the Browse button and select the template you wish to use for this new file. In either case, clicking OK will create the new file, and that file becomes the active file for Plan-Um[®] to work with.

📄 New File		? 🛛	
Job File:	'My Documents/My Plan-Um Jobs/PLAN24.job	Browse	
Template File:	C:/Program Files/Test-Um Inc/tut/Example.tut	Browse	
	ОК	Cance N Brov	wse Test-Um Template File

Two template files are loaded into the default tut folder during the installation process, Default. tut and Example.tut. Using Default.tut will create a new Job with blank information. Example.tut can be used to preview how using a template file will work.

🖬 Open			×
Look in: 🔄 C:/Program Files/Test-U	Jm Inc/tut/	✓	£ 💣 🏭 🏢
Name	Size Type	Date	Attributes
`	Dir	11/14/2006 5:50:06 F	PM Read-write
🖻 Default.tut	8165 File	11/2/2006 9:24:02 /	AM Read-write
🖻 Example.tut	8204 File	11/2/2006 9:24:02/	AM Read-write
File name: Default.tut			Open
File type: *.tut		*	Cancel

Archiving/Saving Test Results

After downloading a .job file containing test results from the Validator as described above, that .job file can be copied or saved to a special folder for backup. This is no different from copying any other Windows file, but is a good idea to prevent accidental overwriting of valuable data inadvertently.

Creating a folder to store jobs that have not been tested in the field and a separate folder to store jobs with test results is a good practice since often jobs may be edited in the field, and may not be saved with a new filename. The timestamp on the file may be the only way to determine what copy of a file is the latest one. Updates done to a file simultaneously on the Validator and Plan-Um[®] cannot be merged automatically, so if this is done, the files must be stored in separate folders so they do not overwrite each other.

Uploading the Cable Test Schedule to the Validator

Now that the floor plans and cable runs are defined, you are ready to upload the Cable Test Schedule to the Validator for testing and verification.

The *.job file is a standard windows file. When the Validator is connected to the host system via the USB cable it becomes a Local Disk (usually drive L:) to the PC. Use Windows Explorer to **copy** and **paste** the job file to the compact flash card in your Validator or use the **File Open** and **Save As Job** method described here.

- 1. Plug the USB cord into the Validator and power it on. The USB mode screen will appear on Validator.
- 2. From Plan-Um[®], open the job you want to upload.
- 3. On the File menu, select **Save As Job**. When the Save As Job dialog box displays, click the down arrow on the Save In drop down box and select the Local Disk drive connected to the Validator (usually drive L:). Select **Save** to close the dialog box and save the file to the Validator.

🖬 Save As			×
Look in:	🔄 D:/	· 🗢 🖿	I 🍅 🏢 🏢
Name	lado/ lado/		Attributes
	(a)d./ (a)d./		
	(a) ↓ / (b) ↓ / (b		
	3, /a_K/		
File name	(a) Q:/ (⇒) C:/Documents and Settings/vio47260		Save
File type:	*.job	· (Cancel ,;

4. On your Task Bar (lower right side on your desk top), click the "**Unplug or Eject Hardware**" icon. **№**

 Click on the message to Safely Remove or Stop the USB Mass Storage Device and click again to Safely Remove Hardware. The messages vary slightly depending on the version of the Windows Operating System on your PC.

Safely remove USB Mass Storage Device - Drives(E:)

- 6. Click **OK** to close the window and upload the Cable Test Schedule from Plan-Um[®] to the Validator.
- 7. This completes the upload operation. Remove the USB cable from the Validator and it will automatically power down.

Note: If your computer has a compact flash card reader, you can copy Jobs from Plan-Um to the compact flash card directly using standard windows utilities, and then upload the jobs to the Validator by inserting the card into the Validator.

Downloading the Cable Test Results to Plan-Um®

After you complete testing and verifying the cable job with the Validator, you will download the test results to Plan-Um[®], populating the Length and Results columns on the Cable Test Schedule. In addition, the Detailed Test Results tab is populated. Use Windows Explorer to **copy** and **paste** the job file to the My documents>My Plan-Um Jobs folder on your PC or use the **File Open** and **Save As Job** method described here.

- 1. Validator should be powered on and the current job should be saved, if Validator is not powered on your pc will not find the drive.
- 2. Plug the USB cord into the USB port on your PC and into the Validator.
- 3. From Plan-Um[®], press File Open.
- 4. When the Open dialog box displays, click the down arrow on the Look In drop down dialog box and select the local disk drive (usually L:) that is connected to the Validator.
- 5. Select the job you want to download to Plan-Um[®] and click Open.

🖬 Open			X
Look in: 🔄 E:/			I 📸 🏢 🏢
Name	Size Type	Date	Attributes
📑 Plan-Um 2.1.0.job	21778 File	7/19/2006 6:05:28 PM	Read-write
🚮 TurnKeySolutions.job	15518 File	5/22/2006 10:33:44 AM	Read-write
🚮 Untitled1.job	8214 File	9/1/2006 9:53:38 AM	Read-write
🚮 Untitled2.job	8631 File	6/13/2006 1:50:30 PM	Read-write
🔂 Untitled3.job	7427 File	7/10/2006 9:14:44 PM	Read-write
File name: Untitled11.job			Open
File type: *.job		~ (Cancel 5

6. Select the Cable Test Schedule tab or Detailed Test Results tab to view Cable Test Results.

Jo	b Information	Network View	Network Devices	Floor Plan	Cable Test S	chedule	Detailed Test Results	Cable Types	Job Notes			
A	dd Cable(s)	Define Cable(s)										
	ID	From	To	Туре	Test Jack	Use	Length	Result	Bundle Type	Bundle #	Color	Response Plot 🔺
1	Cable001	01Net01	01Panel01	CAT5E	/ Data	Network	💙 9 ft	%⊮ 1000MB	NA	NA		% 1000MB
2	Cable002	01Net02	01Panel01	CAT5E	🖌 Data	Network	🗸 102.9 ft	%⊮ 1000MB	NA	NA		% 1000MB
3	Cable003	01TV03	01Panel01	RG-6	2Wire	TV	💙 32.6 ft	V PASS	NA	NA		🕐 No Data
4	Cable004	01TV02	01Panel01	RG-6	2Wire	TV	💙 96.7 ft	V PASS	NA	NA		🕐 No Data
5	Cable005	01Fire01	01Panel01	Fire 💉	2Wire	Fire	💙 70.3 ft	🗶 FAIL	NA	NA		🕐 No Data
6	Cable006	01Fire02	01Panel01	Fire 💉	2Wire	Fire	*	🕐 Untested	NA	NA		🕐 No Data
7	Cable007	01Fire03	01Panel01	Fire	2Wire	Fire	~	🕐 Untested	NA	NA		🕐 No Data

7. Archive the test results to the PC.

Printing the Job Report

The Floor Plan, Cable Test Schedule and Detailed Test Results can be printed to aid the installer performing the job or as verification of the cable installation for the customer. Your company can attach this End of Job report, including test results, to an invoice and present this information to your customer. You may also want to maintain a hard copy for your records.

To change the output of the printing select settings in the edit menu and go to the report tab of the settings dialog. This allows you to change the pages which will be printed. The steps to execute a print are as follows.

1. Select Print from the File pull down menu.

New New		Ctrl+N				
🗃 Open		Ctrl+O	est Schedule	Detailed Test Results	Cable Types	Job Notes
Save		Ctrl+S				
Save As Job.				Addroce		
Import and E>	port CTS File			Address	401.0	
Export TUT Fi	e			Address:	421 Central Avenue	3
Page Setup		Ctrl+G				
Print Preview				City:	Los Angeles	
Print		Ctrl+P		State / Province:	CA	
Print Labels	2	Ctrl+L	Browse	Zip / Mail Code:	93105	
1 E:/TurnKeys	Solutions.job			Country	LISA	
2 E:/Untitled3	.job			oounay.	00/1	
3 C:/Documer 4 C:/Documer	its and Settings/xio4/26U/My Documents/My Plan-Um Jobs/i its and Settings(xio47260/My Documents/My Plan-Um Jobs/i	Intitled3.job Intitled2.job				
Exit			-	A dalama a		
				Address		
Contact Info	rmation			Address:	560 Broadway	
Company:	Estate Management Inc.					
Contact	George Adams			City:	Los Angeles	
Phone:	(888) 555-1212			State / Province:	CA	
Email:	george@estatemanagement.com			Zip / Mail Code:	93011	
				Country	LISA	

2. Or use the print icon.



Printing Floor Plans

- 1. To print a floor layout, choose the Floor Plan tab (if in current tab mode).
- 2. To adjust print setup, page size and drawing scale options, click on page setup from the File drop down menu.

🖬 Page Setup - Floor Plan	? 🗙
Print Setup Page Size Draw	ing Scale
Printer Paper Size: Letter: 8.5 in. x 11 in.	Print zoom (all pages) ● Adjust to 200% ▼ ● Fit to 1 sheet(s) across
 Portrait Landscape 	by 1sheet(s) down
Printer Paper: Letter: 8.5 in. x 11 in	. (Portrait)
Drawing Page: Letter: 8.5 in. x 11 i	n. (Portrait)
Print Zoom: 200%	
A	pply OK Cancel

- 3. Select Print from the File pull down menu or use the Print icon. Unless otherwise specified, floor plans print on 8.5 x 11 paper in landscape mode.
- 4. Job ID number, customer name, and the floor plan level prints in the upper left hand corner.

Printing Cable Test Schedule

- 1. Click the Cable Test Schedule tab (if in current tab mode).
- 2. Select Print from the File pull down menu or use the Print icon.
- 3. The Cable Test Schedule prints on 8.5" x 11" paper in portrait mode unless otherwise specified. If you imported your company logo, it prints in the upper right corner of the report. The Site and Contractor Information, plus a signature line for the installer also print.
- 4. The Cable Test Schedule lists all identified cable runs. The Length and Result columns display test data downloaded from the Validator. (See the instructions for Downloading Test Results from Validator in this guide.)

		1	Cable Te	st Schedule	2	1	Date: 07.19.06 Time: 9:59 pm
Site Info	ormation			Tester Informat	tion		
Job ID: G Estate Ma George Ar (888) 555- george@e 560 Broad	C110 magement Inc. dams -1212 statemanageme way	ant.com		Global Cable Insta Frank Ford (888) 690-1212 frank@globalcable 421 Central Avenu	.com e		
Los Angel CA 93011 USA	les			Los Angeles CA 93105 USA			
Tested by:							
Cable S	(INSTALLEF	RS SIGNATURE)		(INSTALLE)	R COMPANY]		
CABLE ID	TO	FROM	TYPE	TEST JACK	USE	LENGTH	RESULT
Cable001	01Panel01	01Net04	CAT5E	Data	Network	6.66667 f	1000MB
Cable002	01Panel01	01Net01	CAT5E	Data	Network	8 fi	1000MB
Cable003	01Panel01	01Net06	CAT5E	Data	Network	7.33333 f	1000MB
Cable004	01Panel01	01Net03	CAT5E	Data	Network	9.33333 f	V 1000MB
Cable005	01Panel01	01Net02	CAT5E	Data	Network	13.3333 f	× FAIL
Cablo006	01Panel01	01Net05	CAT5E	Data	Network	8.33333 f	🗶 FAIL
Cable007	01Comm01	01Phone03	CAT3	Phone	Phone	6.84211 f	PASS
Cable008	01Comm01	01Phone04	CAT3	Phone	Phone	10.5263 f	V PASS
Cable009	01Comm01	01Phone02	CAT3	Phone	Phone	11.0526 f	PASS
Cable010	01Comm01	01Phone01	CAT3	Phone	Phone	5.78947 f	PASS
Cable011	01Comm01	01Phone05	CAT3	Phone	Phone	6.05263 f	× FAIL
Cable012	01Cblbx01	01TV01	RG-59	2Wiro	TV	11.0429 f	V PASS
Cable013	01Comm01	01Sec01	Security	2Wiro	Security	12.5 ft	🖓 Unknown
Cable014	01Comm01	01Fire01	Fire	2Wire	Fire	9.16667 f	Unknown
Cable015	01Comm01	01Intr01	CAT3	Phone	Intercom	6.84211 f	? Unknown
Cable016	01Comm01	01Intr02	CAT3	Phone	Intercom	7.36842 f	😤 Unknown
Cable017	01Panel01	01Plate02	CAT3	Phone	NA		🖓 Untested
Cable018	01Panel01	01Plate03	CAT3	Phone	NA		2 Untested
C-14-010	01Dappel01	01Diste01	CAT3	Phone	NA		2 Unterted

Printing Detailed Test Results

- 1. Click the Detailed Test Results tab (if in current tab mode).
- 2. When you click the down arrow on the Cable field, a list of cables you have tested displays. Print test results for a single cable or select Print All to print the test results for each cable on a separate page.
- 3. Select Print from the file pull down menu or use the Print icon.
- 4. Detailed Test Results prints on 8.5" x 11" paper in portrait mode unless otherwise specified. If you imported your company logo, it prints in the upper right corner of the report. The Site and Contractor Information also prints.
- 5. The serial number and software version of the Validator used to test the cables prints on the bottom left hand corner of the document. (The serial number and software version will only be recorded by the Validator after a firmware update to a version later than the current 01.07.)

	Detail	ed Cab	le Report		
ite Information		Tes	ter Informatio	n	
b ID:					
	Cable001			Pass	
	Test Time: 19:06 Wed 2006 Jul 19			1 Ghit/s	
	To Port: 01Panel01			CATSE	
	From Poom: From Port 01Router01				
	Expected		Results		
	1	1		1	
	3	3 3		-3	
	6	6 6		6	
	5	5 8		- 5	
	7 8	8 8		- 7 8	
	s	s s	8-x	8	
	Longin Mare: 300 tr	Skow Mar:35m	SNR Man:2046		
	4 19 ft	2.0	30.0		
	P. 20 ft	2.0	20.0		
	19 ft		20.0	BERT Results:	0 errors
	C 19 R	0.0	20.0		
	0,	0.0	30.0		
	Validates Cardal Namber 22022				
	varianter onnie reimpel: 3/932	-			

Printing Cable Labels

You can also print custom laminated cable labels using Brother P-Touch printers. Label templates are provided that allow you to print professional-looking flag, wrap, patch panel, or wall plate labels directly from the Cable Test Schedule to the following Brother P-Touch labeling systems: PT-9600, PT-9500PC, and PT-18R. Brother recommends using Flexible ID tape designed especially for wrapping and flagging cables, and Extra Strength Adhesive Tape for labeling patch panels and wall plates.

1.	Select Print Labels	from the File	pull down m	enu or print label icon

File E	Edit View Image	Help											
\square	New				Ctrl+N								
Ž	Open				Ctrl+O	est Schedule	Detail	ed Test Results	Cable Types	Job Notes			
H	Save				Ctrl+S								
	Save As Job												
	Import and Export	CTS File				(Use		Length	Result	Bundle Type	Bundle #	Color	Response Plot 🔺
	Export TUT File					TV	~		2 Untested	NA	NA		2 No Data
	Page Setup				Ctrl+G	Fire	~		2 Untested	NA	NA		2 No Data
	Print Preview					Fire	~		Ontested	NA	NA		2 No Data
5	Print				Ctrl+P	Fire	~		Untested	NA	NA		No Data
e de la	Print Labels				Ctrl+L	TV	~		Untested	NA	NA		? No Data
	C:/Documents and Settings/sio47260/My Documents/My Plan-Um Jobs/Untitled11.job C:/Documents and Settings/sio47260/My Documents/My Plan-Um Jobs/Untitled10.job C:/Documents and Settings/sio47260/My Documents/My Plan-Um Jobs/Untitled10.job C:/Documents and Settings/sio47260/My Documents/My Plan-Um Jobs/Untitled10.job				TV	~		Ontested	NA	NA		? No Data	
					Fire	~		Ontested	NA	NA		🕐 No Data	
					Fire	~		🕐 Untested	NA	NA		🕐 No Data	
					Fire	*		🕐 Untested	NA	NA		🕐 No Data	
				Network	k 🗸		🕐 Untested	NA	NA		🕐 No Data		
	CODICOTT	031 11011000	on ancior	Tel_Colu	- none	Phone	*		🕐 Untested	NA	NA		🕐 No Data
15	Cable015	03Phone01	01Panel01	Tel_Cord	Phone	Phone	~		🕐 Untested	NA	NA		🕐 No Data
16	Cable016	03Plate03	01Panel01	Tel_Cord	 Phone 	NA	~		🥐 Untested	NA	NA		🥐 No Data
17	Cable017	03Plate02	01Panel01	Tel_Cord	Phone	NA	~		🕐 Untested	NA	NA		🕐 No Data
18	Cble2000	05Plate03	01Comm01	RG-6	🔽 2Wire	NA	~		🕐 Untested	NA	NA		🥐 No Data
19	Cable018	01Panel01	01Plate04	CAT5E	🔽 Data	NA	~		🥐 Untested	VCable	1		🥐 No Data
20	Cable019	01Panel01	01Plate04	CAT5E	🔽 Data	NA	~		🕐 Untested	VCable	2		🥐 No Data
21	Cable020	01Panel01	01Plate04	CAT6	🔽 Data	NA	*		Ontested	VCable	3		🥐 No Data
22	Cable021	01Panel01	01Plate04	RG-6	🔽 2Wire	NA	*		🕐 Untested	VCable	4		🥐 No Data 💦 🕴
<													>

2. Using the drop down arrow, select the desired label template, wrap, patch panel, flag, or wall plate. The Cable ID, To and From locations of the cable run, and Type of cable will print on the flag label and only the Cable ID will print on the wrap, patch panel and wall plate labels. The flag and wrap labels require 1" label tape and the patch panel and wall plate labels require 3/8" label tape. In order to accommodate standard patch panel spacing between ports, there are three different patch panel templates. Patch Panel 1 has a center-to-center length of 0.6", Patch Panel 2 has a center-to-center length of 1.0" and Patch Panel 3 has a center-to-center length of 1.5". These different patch panel templates are useful, when combined with the continuous printing option, when printing the Cable ID names on one continuous label for application to a patch panel.



3. Click the All or Select button to select the labels from the cable list to print.

📄 Print Label	? 🔀						
Label Template: Wall Plate							
Select Labels To Print							
🔘 Select	O Select Cable001						
	Cable002						
	Cable003						
	Cable004						
	Cable005	<u></u>					
Continuous Printing: 🔲							
	ОК	Cancel					

4. If you click Select, a list box activates that allows the user to select the cables to print.

🖬 Print Labels 🛛 💽 🔀								
Label Template: Wall Plate								
Select Labels To Print								
🔿 Select	Select Cable001							
	Cable002							
	Cable003							
	Cable004							
	Cable005	~						
Continuous Printing:								
	ОК	Cancel:						

- 5. If you select All, the entire cable list will print using the selected label template.
- 6. Select 'Continuous Printing' if you want the labels printed on one continuous length of tape. If you want each label cut separately, de-select the 'Continuous Printing' option.



Emailing Job Reports

Plan-Um[®] job files can be emailed using one of two methods.

If both parties have Plan-Um[®] software installed on their computers, simply attach the .JOB files to an email and send the email.

If only the originator has Plan-Um[®] software installed, he will need to print the job information to a .PDF file before emailing it. You can print job reports to PDF files using various PDF writers. Follow these steps to create a PDF file:

- 1. Start the print function in Plan-Um[®] by clicking the printer icon on the toolbar or selecting Print from the File menu.
- 2. Select the PDF writer or Adobe Distiller instead of a printer in the print dialog box.
- 3. Click the Print button to start the PDF file generation process.
- 4. You will be prompted to save the PDF file, given the chance to select a folder in which your file will be stored, and enter a unique name for the file. The PDF file can be attached to an email and sent.

Portable Document Format (PDF) is a file format created by Adobe Acrobat to provide a standard form for storing, editing, and printing publishable documents on a variety of computer systems. To view files of this type, download the Adobe Acrobat Reader, which is available free from Adobe's Web site.

Context-Sensitive Help Topics

Plan-Um AP[®] help is now available on all supported platforms including Mac OS X and Linux. The help system is now context-sensitive so that when the user selects help contents, the help topic displayed pertains to the specific section of Plan-Um AP[®] software being used. To use context-sensitive help select Contents from the Help menu or press F1 from a dialog. This causes a program called Qt Assistant to run and display information for the specific topic of interest in the currently selected language.



Qt Assistant displays a table of contents in the Contents tab to the left, an Index tab where keyword searches can be performed, and Bookmarks and Search tabs. Qt Assistant works in a similar way to a web browser. If you click underlined text, the documentation window will present the relevant page. You can bookmark pages of particular interest and you can click the Previous and Next toolbar buttons to navigate within the pages you've visited.

Qt Assistant indexes all the pages in the documentation that it presents so that you can search for particular words and phrases. To perform an index search, click the Index tab on the Sidebar (or click Ctrl+I). In the 'Look For' line edit enter a word, e.g. 'cable'. As you type, words are found and highlighted in a list beneath the line edit. If the highlighted text matches what you're looking for, double click it, (or press Enter) and the documentation window will display the relevant page. Note that for some words there may be more than one possible page that is relevant.

Qt Assistant also provides full text searching for finding specific words in the documentation. Documents with the highest occurrences of the word that you are looking for appear first, and every occurrence of the word within the documentation is highlighted.

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