Vijeo Designer configuration software





Presentation

The cross-platform Vijeo Designer configuration software can be used to create operator-dialog applications for controlling automation systems for:

- New Technology Magelis XBT G and XBT GT terminals
- Magelis Smart *i*PC HMI edition and Magelis Compact *i*PC HMI edition

Vijeo Designer and a suitable terminal can be combined to provide a solution for each and every control station requirement, at the cost of a simple software reconfiguration.

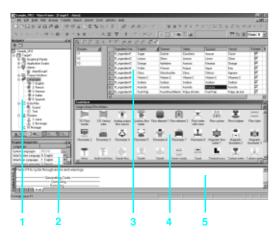
Because it supports video-image streaming, the Magelis Vijeo Designer offer provides access to new types of application. Users can visualize their processes immediately or subject to a delay, on the same screen as the HMI dialog. Vijeo Designer uses Magelis Ethernet TCP/IP connectivity and is, therefore, able to support WEB Gate remote access, the sharing of application data between terminals, the transfer of recipes and logs for variables, and much more - all with total security.

Applications can take on an international nature, thanks to the ability of Vijeo Designer to support up to 10 languages simultaneously in one project (38 alphabets are available on the XBT GT terminal).

The interface and documentation for Vijeo Designer are available in 6 languages: English, French, German, Italian, Simplified Chinese, and Spanish.

Vijeo Designer will run on any PC with Windows 2000 or Windows XP Professional. It supports WYSIWYG (1) simulation of the expanded application (without XBT G/GT terminal or target Magelis *i*PC), the simulation of PLC variables (I/O, internal bits and words), and ensures that the application runs in total security on the XBT G/GT terminal or Magelis Smart/Compact *i*PC HMI edition.

Note: For other Magelis XBT displays and terminals, see the XBT L1003 development software on pages 36355/2 to 36355/5.



Configuration

Vijeo Designer configuration software enables operator-dialog projects to be processed quickly and easily thanks to its advanced ergonomics using up to five configurable windows:

- Browser window
- 2 Object List window
- 3 Recipes window
- 4 Library of Animated Graphic Objects and Image Objects window
- 5 Report window

The software also offers a complete set of application-management tools for: ■ Project creation, whereby a project comprises one or a number of applications for XBT G/XBT GT/Smart *i*PC/Compact *i*PC with sharing of variables between terminals (up to 8 terminals and 300 variables)

- Recipe management (32 groups of 256 recipes with up to 1024 ingredients)
- Cross-referencing of application variables
- Documentation of views for an application
- A simulation mode enabling easy testing of the application from the design office
- Bar code reader management via:
- □ USB port on multifunction XBT GT terminals and Magelis Smart *i*PC and Compact *i*PC HMI editon industrial PCs
- COM1 serial port on XBT G, or COM2 on XBT G and XBT GT (2)
- Recovery of symbols files for PLC variables generated by TwidoSuite, PL7, Concept, ProWORX 32, and Unity Pro software (3)

(1) WYSIWYG: What you see is what you get on the screen of the target terminal. (2) Except XBT GT11 terminals.

(3) With the exception of "unlocated" or structured "Derived Data Type" Unity Pro variable symbols.

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Script	Creat	nd'	101	19.	20

If Description: If

7 Replace this line with your acrip

(movebattles.getIntValue() = 0) // if conveyor is OFP, do not move battles

pos = BattlePas.getinfVak

Graphics editor

The graphics editor in Vijeo Designer offers interface consistency for simple objects as well as for more sophisticated ones. It enables application developers to create views easily based on:

- Simple objects to be configured:
- De Points, lines, rectangles, ellipses, arcs
- □ Bar graphs, meters, tanks, fillers, pie charts, curves
- Delylines, polygons, regular polygons, Bézier curves, scales
- □ Texts, images or alarm summary, etc.

Preconfigured advanced objects: Switches, radio buttons, indicators, buttons, tanks, bar graphs, potentiometers, selector switches, text or number fields, enumerated lists, etc.

Object animations

8 types of graphic-object animation support the rapid creation of animated views on the basis of:

- □ Pressing the touch panel
- Change of color
- □ Filling
- □ Movement
- □ Rotation
- Size
- □ Visibility
- Display of associated value

Library of animated graphic objects

The library of animated graphic objects makes the creation of views very efficient thanks to the numerous "ready-made" animation objects. It includes more than 4,000 vector images of an "industrial" nature in 2 or 3 dimensions. Simply "drag and drop" the object using the mouse to position it on the view being created. User-defined objects can be added to this library using the same simple "drag and drop" method.

Java scripts

Vijeo Designer supports the processing of information using Java language scripts. This function facilitates the running of complex animations, the automation of tasks within the terminal and the management of calculations in order to relieve the load on the PLC programs.

The scripts (50 lines, max.) can be associated with:

- Variables
- Operator actions
- Screens
- The application itself

User-customizable resources

To enable applications to be customized in accordance with customer requirements, Vijeo Designer V4.5 features a new resource concept, i.e., the possibility of defining styles (colors, images, character fonts, text lists).

To customize a generic application in accordance with customer requirements quickly, simply assign these styles to the objects concerned.

The resource concept is supported by the following native objects: *Meter, Bar Graph, Slider, Potentiometer, Selector, Text List* and *Image List*.

Presentation (continued)

HMI software and Web servers

Vijeo Designer configuration software



Data Manager: Transfer recipes, videos, images, etc. simply by clicking with the mouse.

Advanced functions

Based on new information technologies, Vijeo Designer features a large number of advanced functions for processing a higher volume of data, both faster and more reliably:

- Multimedia data management in the most popular formats:
- $\hfill\square$ Image display (jpeg, bmp, emf, and png files)
- □ Text display and processing (txt files)
- □ Sound-message processing (wav files)
- Alarm or curve logs recorded for data storage and transfer

■ Alarm management. All variables can be categorized as "Alarms" and can be customized in respect of visualization and acknowledgment. These Boolean and analog-threshold type alarms can be printed in real time.

 Multimode application transfer: via serial link, Ethernet and Compact Flash memory card (on multifunction terminals)

- Backup of application source files on the terminal or *i*PC to facilitate maintenance
- User-friendly data exchange between PC and terminal using the Data Manager tool

■ Integrated FTP server for downloading/uploading recipes via Ethernet TCP/IP and restoring logs to XBT G/GT terminals

■ Multiport communication for multifunction terminals - 2 serial links and 1 Ethernet network can be active simultaneously.

Action table for associating a particular behavior with an event.

WEB Gate remote connection

Vijeo Designer can provide a WEB Gate remote connection for any platform equipped with an Ethernet port and Compact Flash or hard disk memory, i.e., XBT G, XGT GT (XBT GT2 and higher), Magelis Smart and Compact *i*PC HMI edition.

WEB Gate supports remote visualization of Vijeo Designer applications with Internet Explorer on any PC running Windows 2000 or Windows XP. The size of the page displayed is determined by the terminal.

WEB Gate supports the display of pages similar to those in the Vijeo Designer application, or of different pages, i.e., startup pages and navigation pages can be differentiated in order to indicate the type of access (terminal/WEB Gate).

WEB Gate's high-security mode excludes any risk of applications jamming as a result of variables being modified via the terminal and WEB Gate at the same time. For increased confidentiality:

- WEB Gate access can be restricted to only those PCs whose IP address appears in the licensing list.
- in the licensing list.
- Some Vijeo Designer functions are not supported by WEB Gate:
- □ Application shutdown, restart
- Terminal configuration
- □ Alarms: Suppress, clear
- □ Recipes: Load, send, save, compare
- □ Read an acoustic animation (sound file)
- Display a recorded video sequence

WEB Maintenance remote diagnostics

In addition to WEB Gate, Vijeo Designer V4.5 features the embedded diagnostics service WEB Maintenance - Transparent Ready WEB Server Class B15 (1). This server's navigation bar features an option for accessing the WEB Gate function.



WEB browser: Providing remote and totally secure access to the Vijeo Designer application.



WEB maintenance: Embedded diagnostics

(1) Please consult our "Control and automation, Ethernet TCP/IP and the Web" catalog.

General characteristics						
Number of targets	32 (XBT GT terminals or Magelis Smart <i>i</i> PC HMI edition (1) and Compact <i>i</i> PC HMI edition industrial PCs)					
Number of internal and external variables	8,000					
Number of lines per Java script	50 (2)					
Sharing data between terminals	Up to 300 variables between 8 terminals, without router PLC Proprietary protocol above TCP/IP					
Internationalization	Up to 10 languages supported by 34 western alphabets and 4 Asian alphabets:					ets:
Western alphabets	Afrikaans Swedish Russian Norwegian Italian Greek	Belarusian Albanian Czech Serbian Polish Latvian	Spanish Bulgarian German Turkish Slovak Portuguese	Dutch Estonian Catalan English Ukrainian Slovenian	Lithuanian Hungarian Finnish Croatian Basque	Romanian Macedonian Indonesian French Danish
Asian alphabets		Korean	Japanese	Taiwanese	_	
Functions	Chinese Languages can be programmed or selected dynamically via the menu. The character fonts are embedded in the application. The process is based on the export/import of texts in CSV format, which can be edited by t translator (each text is stamped with a unique ID).				be edited by the	
Keyboards that can be used to enter data	 Standard AZ Alphabetical Compact, suite 		RTY screens and for			
Storage of source code	 A password e On request, t 	ensures confide	can be verified e			
Characteristics of pages						
Internal or external variables	800					
Objects	800					
Switches	30					
Pop-up windows	3					
Number of lines per Java script	50 <i>(2)</i>					
Library of graphic objects						
Number of objects available	> 4,000					
Туре	2D and 3D "inc	dustrial" type ve	ctor images			
Can be expanded?	Yes					
Recipes						
Number of groups	32					
Composition of a group	Up to 1,024 ing	predients for 25	6 recipes			
Multilingual support	Complete for la	Complete for labels and ingredients				
Action tables						
Number of actions	100					
Composition	Maximum of 16	6 commands pe	er action			
Action type	 Periodic Planned Conditioned Event-trigger 	ed				
	(1) Requires the the other wit	e use of two Cor h PCMCIA ada	npact Flash card ptor for the appl executed cyclica	ication data.	Run-Time and o	perating sy

Alarms	0.000				
No. of alarms activated, record or logs	9,999				
Гуре	Any variable (internal or external, Boolean or analog-threshold) can act as an alarm.				
Customization	Any alarm-type variable can be customized in respect of visualization and acknowledgment.				
Associated reflex functions	Any alarm-type variable can be associated with reflex functions linked to the appearance of th alarm concerned: - Action on appearance - Action on selection - Message for the alarm bar, etc.				
Integrated diagnostics	1				
The PLC "Diag buffer" function can be accessed via the		Modicon M340	Premium	Premium	Quantum
following protocols:		Unity Pro	PL7	Unity Pro	Unity Pro
	UNITE series		_		
	UNITE-TCP/IP XWAY				
	UMAS Modbus TCP				
	UMAS Modbus RTU				
	UMAS Modbus Plus				
	UMAS UNITE series				
	UMAS UNITE-TCP/IP XWAY				
	UMAS Modbus TCP USB PPP				
			Accessible		
Video functions			Not accessi		
Video functions Platform	XBT GT terminals		Not accessi	ble art <i>i</i> PC HMI ed npact <i>i</i> PC HMI	
	XBT GT terminals NTSC, PAL video channel		Not accessi	art <i>i</i> PC HMI ed	
Platform Video source		+luminance)	Not accessi Magelis Sma Magelis Con	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI	
Platform	NTSC, PAL video channel Composite video (chrominance-	+luminance)	Not accessi Magelis Sma Magelis Con Webcam Webcam via	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara	edition
Platform Video source nput format Display resolution Duration of dynamic	NTSC, PAL video channel Composite video (chrominance via RCA plug NTSC: 640 x 480 pixels	ed.	Not accessi Magelis Sma Magelis Com Webcam Webcam via	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara	edition
Platform Video source nput format Display resolution Duration of dynamic memorization	NTSC, PAL video channel Composite video (chrominance- via RCA plug NTSC: 640 x 480 pixels PAL: 768 x 576 pixels 10 mins. max., can be configure	ed.	Not accessi Magelis Sma Magelis Con Webcam Webcam via Depending o (usually 640	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara	edition
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Platform /ideo source nput format Display resolution Duration of dynamic memorization Recording of sequences Media	NTSC, PAL video channel Composite video (chrominance- via RCA plug NTSC: 640 x 480 pixels PAL: 768 x 576 pixels 10 mins. max., can be configure in circular memory (MPEG-4 for	ed.	Not accessi Magelis Sma Magelis Con Webcam Webcam via Depending o (usually 640 – Compact Fla	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara x 480 pixels)	edition
Platform Video source nput format Display resolution Duration of dynamic nemorization Recording of sequences Vedia Number of sequences	NTSC, PAL video channel Composite video (chrominance- via RCA plug NTSC: 640 x 480 pixels PAL: 768 x 576 pixels 10 mins. max., can be configure in circular memory (MPEG-4 for Compact Flash card	ed.	Not accessi Magelis Sma Magelis Con Webcam Webcam via Depending o (usually 640 – Compact Fla	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara x 480 pixels)	edition
Platform Video source nput format Display resolution Duration of dynamic nemorization Recording of sequences Vedia Number of sequences Recording format	NTSC, PAL video channel Composite video (chrominance- via RCA plug NTSC: 640 x 480 pixels PAL: 768 x 576 pixels 10 mins. max., can be configure in circular memory (MPEG-4 for Compact Flash card Up to 200	ed.	Not accessi Magelis Sma Magelis Con Webcam Webcam via Depending o (usually 640 – Compact Fla	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara x 480 pixels)	edition
Platform Video source nput format Display resolution Duration of dynamic memorization Recording of sequences	NTSC, PAL video channel Composite video (chrominance- via RCA plug NTSC: 640 x 480 pixels PAL: 768 x 576 pixels 10 mins. max., can be configure in circular memory (MPEG-4 for Compact Flash card Up to 200 Simple MPEG profile	ed.	Not accessi Magelis Sma Magelis Con Webcam Webcam via Depending o (usually 640 – Compact Fla Hard disk	art <i>i</i> PC HMI ed npact <i>i</i> PC HMI USB port n webcam chara x 480 pixels)	edition

Screen capture	
Format	JPEG
Resolution	Display resolution
Ranges supported	XBT GT terminals (XBT GT2 and higher), Magelis Smart <i>i</i> PC HMI edition and Magelis Compact <i>i</i> PC HMI edition industrial PCs
Video window included	Yes
Storage	
Format	JPEG
XBT GT terminals (XBT GT2 and higher)	On Compact Flash card
Magelis Compact <i>i</i> PC ndustrial PCs	On Compact Flash card On hard disk
Transfer	Via Data Manager, on terminal or <i>i</i> PC equipped with an Ethernet link
Printing	
From XBT GT terminal (XBT GT2 and higher)	Via USB port (1) or Ethernet port, with a compatible printer (2): □ PCL5 - HP Officejet Pro - HP LaserJet □ PCL3 - HP Deskjet series - HP Business InkJet - HP Officejet Pro - HP LaserJet - HP Photosmart series □ ASCII
From Magelis Smart <i>i</i> PC and Compact <i>i</i> PC HMI edition ndustrial PCs	With any printer equipped with a suitable driver for Windows
Internet Explorer browse	r object
Management	Pages created in Vijeo Designer 4.5 for Magelis Smart and Compact <i>i</i> PCs (HMI edition) can feature a Microsoft Internet Explorer browser object.
Possible functions	 Display, in all or part of the Vijeo Designer 4.5 screen page, of: HTML format pages: e.g., websites, pages from Microsoft Office Word, Excel and Powerpoin documents saved in HTML format Documents in Adobe pdf format Macromedia Flash presentations Video sequence (<i>streaming</i>) originating from a video server on IP Any other Active X featuring a USB port
Schneider Electric applic	ations
Management	Pages created with Vijeo Designer 4.5 for Magelis Compact <i>i</i> PC can run Schneider Electric software in a window that is independent of the Windows system.
Possible functions	It is also possible to run frequently-used application software as and when required, e.g.,: - Unity Pro - Twido Suite - Advantys STB configuration software - PL7 - PowerSuite, etc.
	 A printer can be connected to the USB port of XBT GT terminals (XBT GT2 and higher) as long as the printer connection is serial or parallel. A serial-to-USB or parallel-to-USB conversion cable is also required. For a complete list of Hewlett Packard and other manufacturer printers supported, please consult your Regional Sales Office.

	ijeo Designer ap	•			
Traceability, logs					
	Vijeo Designer V4.5 offers increased flexibility for implementing data traceability by means of sampling and management of log files. Every variable can be written in a recording group. A recording group defines the following elements:				
Recording type	- Periodic - Event-based				
Storage media	Compact Flash memory card SRAM terminal memory (for alarms) Hard disk (Magelis Compact <i>i</i> PCs only)				
Maximum size	 Maximum number of recordings Maximum file size 				
Capacity	sampled and the sam target).	The designer of the application concerned is entirely free to select the number of variables sampled and the sampling frequency (these will be determined by the media present on the target). The following are typical example values:			
Target terminal	XBT G	XBT GT	Magelis Smart <i>i</i> PC HMI edition	Magelis Compact <i>i</i> PC HMI edition	
Number of variables sampled	80	100	250		
Target storage medium	Compact Flash card		Compact Flash card	Hard disk	
Maximum number or size of samples per variable	Up to 5 years of record Up to 8 MB of sample				
Data Manager					
	The user-friendly Data Manager tool is used to transfer data from and to a terminal. This copyright-free program does not require Vijeo Designer to be installed and can be installed independently for the following types of transfer:				
Logs		 Recovery of log data for variables Conversion into a single CSV format file 			
Recipes	 Transfer from and te Modification using a 				
Project	- Download to PC of	the project stored on the	Compact Flash memory	/ card	
Video sequences, screen captures	- Download to PC				
Data sharing					
, , , , , , , , , , , , , , , , , , ,	needs to be configure		·		
	needs to be configure The system works with maximum of 8 termina The exchange protoc The high-security more	ed). thout a router PLC. Up to als. ol is a TCP/IP proprietary de excludes any risk of a	9 300 variables can be sl / upper layer. pplications jamming, wh	nared between a ich can occur when	
	needs to be configure The system works with maximum of 8 termina The exchange protoc The high-security more	ed). thout a router PLC. Up to als. ol is a TCP/IP proprietary	9 300 variables can be sl / upper layer. pplications jamming, wh	nared between a ich can occur when	
Restrictions	needs to be configure The system works wit maximum of 8 termin. The exchange protoc The high-security mo attempts are made to	ed). thout a router PLC. Up to als. ol is a TCP/IP proprietary de excludes any risk of a	9 300 variables can be sl 7 upper layer. pplications jamming, wh ore than one terminal at	nared between a ich can occur when the same time.	
	needs to be configure The system works wit maximum of 8 termin. The exchange protoc The high-security mo- attempts are made to Vijeo Designer V4.5 in These variables cann - Alarm summary dis - Trend graphs - Historical trend grap - Data graphs	ad). thout a router PLC. Up to als. ol is a TCP/IP proprietary de excludes any risk of a modify a variable via mo mposes the following res to be used in the followin <i>plays</i>	9 300 variables can be sl y upper layer. pplications jamming, wh ore than one terminal at trictions on data sharing ng objects:	nared between a ich can occur when the same time.	

Terminal access security	
,	Access to all or some of the objects in Vijeo Designer V4.5 can be made subject to users entering a user name and password to prove that they are in possession of sufficient rights.
Type of right	 Application: pages, buttons with confirmation, etc. Data Manager: access via FTP service Web Gate: intranet/extranet access (IP address filtering)
Number of users per group of rights	Up to 100
Number of groups of rights	Up to 20
Automatic locking	If active: automatic blocking of access via keyboard if no entries are made for a set period of time
Target security	
	Vijeo Designer V4.5 can increase the confidentiality of applications on Magelis Smart iPC HM edition and Compact iPC HMI edition industrial PCs by putting protection mechanisms in place at two levels:
BIOS	 Disabling of startup via peripheral connected to USB port Disabling of USB ports Password protection for BIOS access
Run-Time Vijeo Designer	 Hiding of Windows taskbar Disabling of toggling between tasks (ALT+TAB) Disabling of Windows Security Manager (CTRL+ALT+DEL), including the Task Manager Disabling of Windows shortcuts Disabling of the "Windows logo" key on the keyboard Disabling of shortcut to exit run time (CTRL+Z)
Telemecanique protocols	
	 Vijeo Designer V4.5 supports the following Telemecanique protocols: Modbus RTU Master Modbus TCP/IP Master Modbus Plus (1) Unitelway UniTE TCP/IP USB terminal port for Modicon M340 CPUs
Third-party protocols	
	Vijeo Designer V4.5 also supports the following protocols and PLCs:
Mitsubishi	Melsec protocols: A/Q CPU (SIO), A/Q Ethernet (TCP), A Link (SIO), QnA CPU (SIO), Q Ethernet (UDP), and FX (CPU). Except for Melsec-A Link (SIO), Mitsubishi serial link protocols do not work on the RJ45 port (1)
Omron	Sysmac protocols: FINS (SIO), LINK (SIO) and FINS (Ethernet). OMRON serial link protocols do not work on the RJ45 port. (2)
Rockwell Automation	Allen-Bradley protocols: DF1-Full Duplex, RS DataHighway 485, Ethernet IP (3) (PLC5, SLC500, MicroLogix, ControlLogix), Ethernet IP native (2) (ControlLogix)
Siemens	Simatic protocols: MPI (S7-300/400), MPI Direct, RK512/3964R (S7-300/400), PPI, Siemens Ethernet. The S7-300/400 MPI Adapter and RK512/3964R - RS485 connection serial link protocols do not work on the RJ45 port. (<i>2</i>) Profibus DP protocol: via XBT ZG PDP (<i>4</i>)
	 Via USB cable: XBT ZG UMP for XBT GT 2000 terminals and higher, TSX C USB MBP for Smart iPC and Compact iPC. They are supported on XBT G and XBT GT (SUB-D connector, XBT GT2 and higher). Certified ODVA compatibility Certified by Profibus Foundation

Operating system compatibility	Windows 2000 Windows XP Professional
Graphic library	Library of vector graphic objects shared with Vijeo Citect
Number of objects available	> 4,000
Туре	2D and 3D "industrial" type vector images
Can be expanded?	Yes
Application validation	Calculation of the maximum memory space occupied by the application Verification of the capacity of the target (XBT GT terminal or Magelis Smart/Compact <i>i</i> PC HM edition) configured to run the application in total security: - limits of the physical memory - available functions If applicable: - disabling of application upload/download - direction towards sections of the online help, which will provide tips for optimizing the application
Interface languages	Vijeo Designer software screens and online help available in English, French, German, Italiar Simplified Chinese, and Spanish
Documentation	Available in electronic format in English, French, German, Italian, Simplified Chinese, and Spanish. Not available in hard copy
Self-learning	Multimedia tool (1 hour 30 minutes) in English/French included
User licenses	Four types of license are available: - Single: One station - Group: 3 stations - Team: 10 stations - Facility: Unlimited number of stations on one site Supplied with or without transfer cable(s) for USB port, see Table of references for each Magelis terminal on page 36349/9.
Registration	Recommended (via fax, e-mail or website www.schneider-electric.com/swregistration), provides access to additional resources such as application examples, etc.
Services	
Services Switch2VijeoDesigner: Migration of XBTL 1000 applications	The Switch2VijeoDesigner service offer makes it even easier to migrate XBTL 1000 applications created on XBT F terminals to VijeoDesigner applications for use on XBT GT terminals. The service provides: Analysis of the complexity of migration in terms of hardware, software, communication wit PLCs, etc. Analysis of the new functional requirements Proposal for migration methodology The possible deliverables include: Simple conversion Full migration of complex machines Migration to SCADA system Standardization process for multiple machines For more information on this service offer, please consult your Regional Sales Office.

Vijeo Designer configuration software

References

All licenses for the Vijeo Designer configuration software listed below consist of a CD-ROM containing: □ Vijeo Designer software V4.5, including:

- Copyright-free *stand-alone* installation of Data Manager
 - Online help
 - User's Manual for the supported targets
 - Setup Manual for the different protocols supported
- □ A multimedia self-learning tool lasting 1 hour 30 minutes in English/French
- □ The communication protocols described on page 36349/8

Single-station	licenses				
Designation	Type of	Application tr	ansfer cable included	Reference	Weight
	license	PC-side port	Terminal side Magelis XBT/ Magelis <i>i</i> PC		kg
	Single – (1 station)	-	- (1)	VJD SND TGS V45M	0.280
software		USB	XBT G/GT11	VJD SUD TGS V45M	0.420
			XBT GT20GT73 Magelis Smart <i>i</i> PC HMI edition Magelis Compact <i>i</i> PC HMI edition	VJD SUD TGA V45M	0.410

Multistation lie	censes			
Designation	Type of license	Number of stations (1)	Reference	Weight
Vijeo Designer configuration	Group	3	VJD GND TGS V45M	0.280
software	Team	10	VJD TND TGS V45M	0.280
	Facility	Unlimited number of stations on one site	VJD FND TGS V45M	0.280

(1) Separate parts: For application transfer cables (PC to Magelis XBT terminal), see page 36356/3.



VJD SUD TGS V45M