



The main enhancements to XTEL-DOC TXT L DCT V5 over the previous version, XTEL-DOC TXT L DCT V42 comprise:

Support for the documentation produced by new X-TEL V5 functions

XTEL-DOC V5 supports new X-TEL and MINI X-TEL V5 functions for creating the application documentation file:

- **PL7-PMS2:** for implementing and using a complete library of process control application algorithms and their related calculations along with the man-machine interface for PMX7 V5 process control PLCs,
- **XBTL940:** for implementing and using an XBT operator console,
- **XTEL-CONF:** for creating the local rack and remote I/O configuration and generating the application structure for TSX/PMXV5 PLCs,
- **XTEL-SDBASE:** to manage the symbol data base,
- **XTEL-MOD:** to manage the module data base.

Compatibility with installed systems

TXT L DCT V5 software can only be installed on an X-TEL or MINI X-TEL V5 system. XTEL-DOC V5 can:

- Read a documentation file generated by XTEL-DOC V4 or V42,
- Regenerate a documentation file created by XTEL-DOC V4 or V42,
- Generate a file from the documentation files generated by V4 or V42 level applications.





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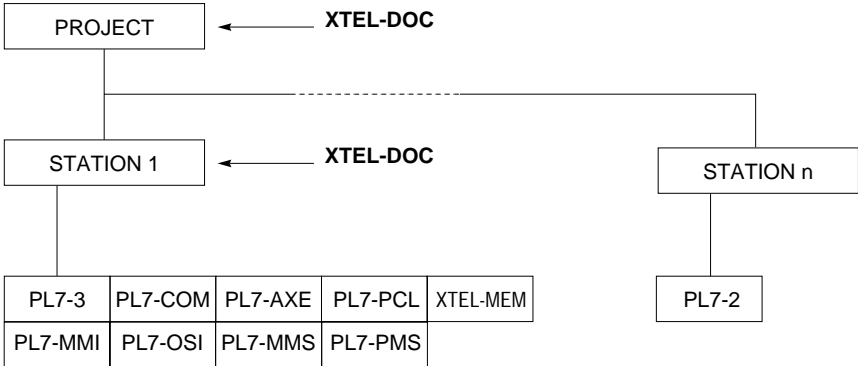
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1.1 Presentation

1.1-1 Program Presentation

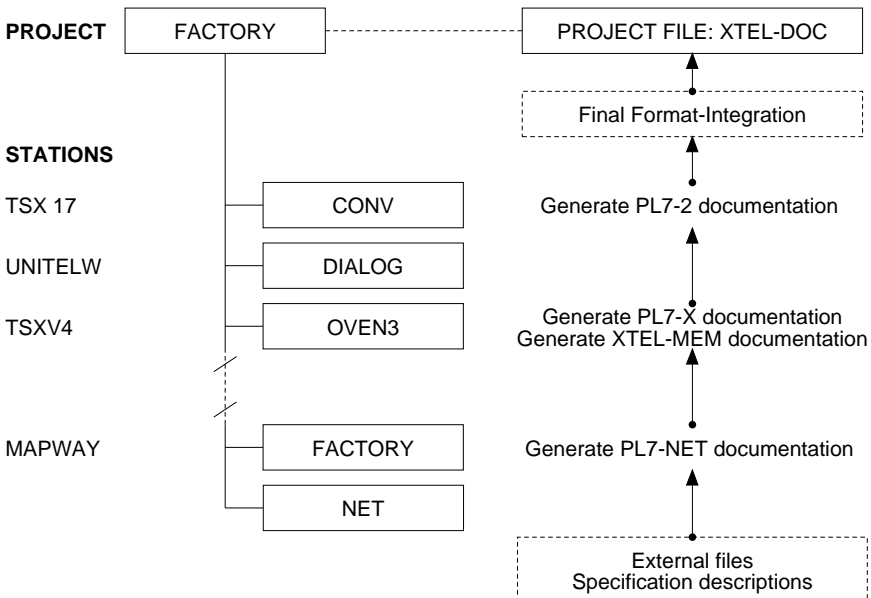
XTEL-DOC is an optional X-TEL Software Workshop program. It is used to manage the application documentation file, in single and multiple station applications.

This program can be accessed at two levels:



The XTEL-DOC program is based on the various documentation files generated by the PL7-X specialized function programs and the station tools.

XTEL-DOC, will also integrate imported ASCII, semi-graphic or Postscript files in order to generate a coherent and complete A4 or A3 format documentation file.



1.1-2 Building Application Documentation Files

The documentation file generated by XTEL-DOC can be:

Printed, it is generated in landscape (horizontal) format and can be printed-out in A4 or A3 size, depending on the ability of the connected Postscript printer:

- Configuration and program are condensed,
- Each page is split into two A5 format sheets and includes a footer,
- A single page combines a number of contact networks,
- The Grafcet framework, transitions and associated actions are displayed on the same pages.

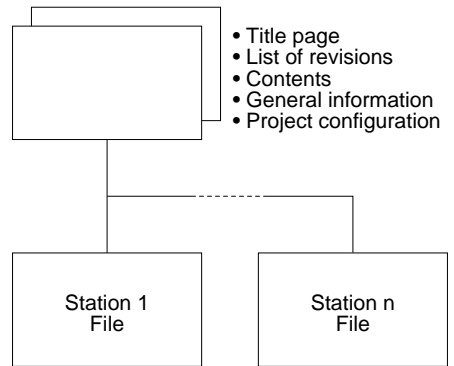
Accessed on line:

- Paragraph selection, browsing the pages,
- Automatic updating of revisions and changes,
- Zoom on part of the displayed window.

XTEL-DOC can generate two types of documentation file laid out in sections and paragraphs:

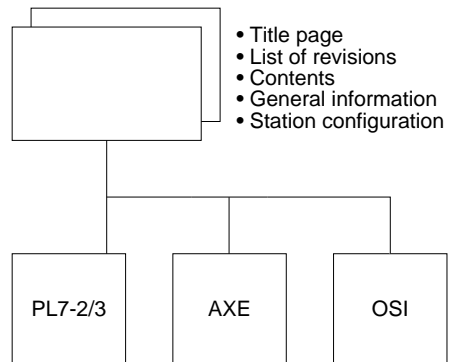
Project file, comprising:

- A title page,
- A list of revisions,
- A table of contents,
- General information,
- The project configuration,
- The station files (station files must be generated at individual station level).



Station file, comprising:

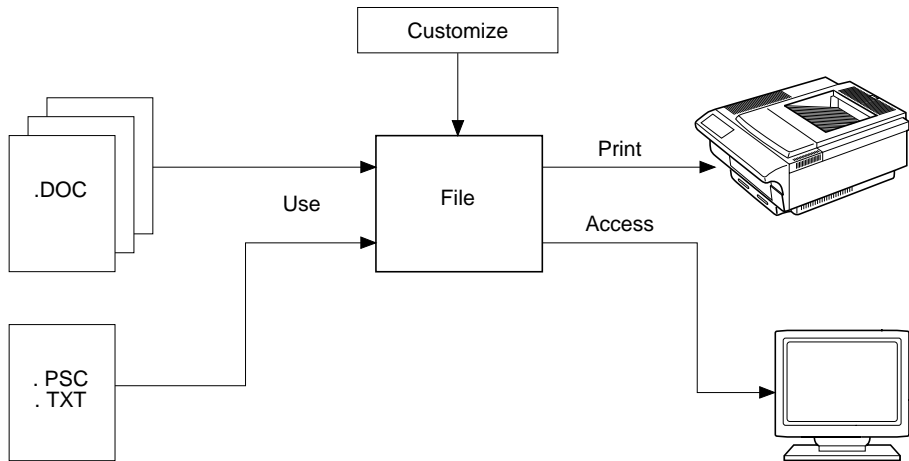
- A title page,
- A list of revisions,
- A table of contents,
- General information,
- The station configuration,
- The PL7 program,
- The axis control program,
- The communication program,
- The process control program,
- The man-machine interface program,
- The network program.



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1.2 XTEL-DOC Program Features

1.2-1 Basic Functions



1.2-2 Customizing the Documentation File

XTEL-DOC lets the user enter the following documentation file components:

- Documentation file contents,
- The footer to be placed at the bottom of each page,
- Title page,
- General information pages using the OS/2 text editor.

1.2-3 Using Documentation Files Generated by other Programs

XTEL-DOC **allows** the user to build the application documentation file from .DOC files generated by specialized application programs or by standard X-TEL tools.

XTEL-MEM	TSX/PMX V4 station configuration,
XTEL-CONF	TSX/PMX V5 station configuration,
XTEL-SDBASE	Symbol data base management,
XTEL-MOD	Program module management,
PL7-NET	Project configuration,
PL7-2	PL7-2 program documentation file,
PL7-3	PL7-3 program documentation file,
PL7-AXE	Axis control program,
PL7-COM	Communication program,
PL7-PCL	TSX process control program,
PL7-PMS	PMX process control program,
PL7-PMS2	PMX process control program,
PL7-MMI	Man-Machine Interface program,
PL7-OSI	OSI network program,
PL7-MMS	MMS program and symbols,
XBTL940	XBT terminal configuration.
XTEL-DOC	Also supports the integration of text, Postscript or Encapsulated Postscript files generated by other programs and accepted as general information.

1.2-4 Accessing the Documentation File

XTEL-DOC displays the contents of the application documentation file on-screen.

The documentation file can therefore be accessed on-line:

- For application debug operations (access to cross-references and to the table of symbols, etc.),
- For maintenance operations (configuration display, general information, etc.).

XTEL-DOC provides fast access via the table of contents. XTEL-DOC provides an overall view (displaying a chart with actions and associated conditions) or a detailed view (Zoom function).

1.2-5 Printing the Documentation File

XTEL-DOC can print-out all or part of the documentation file (a single section, a single paragraph or a part of a paragraph) to a Postscript laser printer.

XTEL-DOC manages the different versions of the application file.

1.3 Print-out Examples


Title Page

	Station		conf2_3	File Rev. : 02
	TSX 47400		Title Page	Paragraph Rev. : 02
	Trial		Documentation	Author : xtel
			VMK	Date : 11/21/90
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Contents (Station Documentation File)

		<p>1 Title Page 1 p</p> <p>2 List of Revisions 1 p</p> <p>3 Contents 1 p</p> <p>4 General Information 0 p</p> <p>5 Station Configuration</p> <p>5.1 Configuration header 1 p</p> <p>5.2 I/O configuration 1 p</p> <p>5.3 I/O wiring 4 p</p> <p>5.4 Mnemonics 11 p</p> <p>6 PL7 functions</p> <p>6.1 General information 4 p</p> <p>6.2 Software configuration 2 p</p> <p>6.3 Functions blocks 3 p</p> <p>6.4 Configurations of OFBs 0 p</p> <p>6.5 Constant words 1 p</p> <p>6.6 Network information 0 p</p> <p>6.7 Program 0 p</p> <p>6.8 Program structure 0 p</p> <p>6.9 Grafcet structure 0 p</p> <p>6.10 Xref by variable 0 p</p> <p>6.11 Xref by mnemonics 0 p</p> <p>6.12 Xref program 0 p</p> <p>6.13 Occupation grid 0 p</p>		
		Station	conf2_3	File Rev. : 01
		TSX 47400	Contents	Paragraph Rev. : 01
		Trial	Documentation	Author : xtel
			VMK	Date : 11/21/90
			F. LE ROY	Page : 3-1

General Information

INTERNAL BITS		INTERNAL BITS	
VARIABLE	COMMENT	VARIABLE	COMMENT
B0	RESUME	B70	RESUME STORE RTA2
B1	AUX. GRAFCET INITIALIZATION	B71	TRANSFER OUTPUT WORDS
B2	CHECK GRINDING WHEEL ROTATION	B72	TRANSFER OUTPUT WORDS
B3	GRINDING WHEEL ROTATION FAULT	B73	TRANSFER OUTPUT WORDS
B4	LUBRICATION FAULT	B74	TRANSFER OUTPUT WORDS
B5	ROLLER MOTOR TEMP. SENSOR FAULT	B75	TRANSFER OUTPUT WORDS
B6	LUBRICATION LEVEL FAULT	B76	TRANSFER OUTPUT WORDS
B7	DIAMOND TRAVEL ERROR	B77	TRANSFER OUTPUT WORDS
B8	DIAMOND TRAVEL ERROR	B78	TRANSFER OUTPUT WORDS
B9	DIAMOND TRAVEL ERROR	B79	TRANSFER OUTPUT WORDS
B10	DIAMOND TRAVEL ERROR	B80	TRANSFER OUTPUT WORDS
B11	DIAMOND TRAVEL ERROR	B81	AUX. SHIFT
B12	DIAMOND TRAVEL ERROR	B82	AUX. SHIFT
B13	DIAMOND TRAVEL ERROR	B83	AUX. SHIFT
B14	DIAMOND TRAVEL ERROR	B84	AUX. SHIFT
B15	DIAMOND TRAVEL ERROR	B85	AUX. STORE RTA1
B16	DIAMOND TRAVEL ERROR	B86	AUX. STORE RTA2
B17	DIAMOND TRAVEL ERROR	B87	AUX. STORE RTA3
B18	DIAMOND TRAVEL ERROR	B88	AUX. STORE RTA4
B19	DIAMOND TRAVEL ERROR	B89	AUX. STORE RTA5
B20	DIAMOND TRAVEL ERROR	B90	AUX. STORE RTA6
B21	DIAMOND TRAVEL ERROR	B91	AUX. STORE RTA7
B22	DIAMOND TRAVEL ERROR	B92	AUX. STORE RTA8
B23	DIAMOND TRAVEL ERROR	B93	AUX. STORE RTA9
B24	DIAMOND TRAVEL ERROR	B94	AUX. STORE RTA10
B25	DIAMOND TRAVEL ERROR	B95	AUX. STORE RTA11
B26	DIAMOND TRAVEL ERROR	B96	AUX. STORE RTA12
B27	DIAMOND TRAVEL ERROR	B97	AUX. STORE RTA13
B28	DIAMOND TRAVEL ERROR	B98	AUX. STORE RTA14
B29	DIAMOND TRAVEL ERROR	B99	AUX. STORE RTA15
B30	DIAMOND TRAVEL ERROR	B100	AUX. STORE RTA16
B31	DIAMOND TRAVEL ERROR	B101	AUX. STORE RTA17
B32	DIAMOND TRAVEL ERROR	B102	AUX. STORE RTA18
B33	DIAMOND TRAVEL ERROR	B103	AUX. STORE RTA19
B34	DIAMOND TRAVEL ERROR	B104	AUX. STORE RTA20
B35	DIAMOND TRAVEL ERROR	B105	AUX. STORE RTA21
B36	DIAMOND TRAVEL ERROR	B106	AUX. STORE RTA22
B37	DIAMOND TRAVEL ERROR	B107	AUX. STORE RTA23
B38	DIAMOND TRAVEL ERROR	B108	AUX. STORE RTA24
B39	DIAMOND TRAVEL ERROR	B109	AUX. STORE RTA25
B40	DIAMOND TRAVEL ERROR	B110	AUX. STORE RTA26
B41	DIAMOND TRAVEL ERROR	B111	AUX. STORE RTA27
B42	DIAMOND TRAVEL ERROR	B112	AUX. STORE RTA28
B43	DIAMOND TRAVEL ERROR	B113	AUX. STORE RTA29
B44	DIAMOND TRAVEL ERROR	B114	AUX. STORE RTA30
B45	DIAMOND TRAVEL ERROR	B115	AUX. STORE RTA31
B46	DIAMOND TRAVEL ERROR	B116	AUX. STORE RTA32
B47	DIAMOND TRAVEL ERROR	B117	AUX. STORE RTA33
B48	DIAMOND TRAVEL ERROR	B118	AUX. STORE RTA34
B49	DIAMOND TRAVEL ERROR	B119	AUX. STORE RTA35
B50	DIAMOND TRAVEL ERROR	B120	AUX. STORE RTA36
B51	DIAMOND TRAVEL ERROR	B121	AUX. STORE RTA37
B52	DIAMOND TRAVEL ERROR	B122	AUX. STORE RTA38
B53	DIAMOND TRAVEL ERROR	B123	AUX. STORE RTA39
B54	DIAMOND TRAVEL ERROR	B124	AUX. STORE RTA40
B55	DIAMOND TRAVEL ERROR	B125	AUX. STORE RTA41
B56	DIAMOND TRAVEL ERROR	B126	AUX. STORE RTA42
B57	DIAMOND TRAVEL ERROR	B127	AUX. STORE RTA43
B58	DIAMOND TRAVEL ERROR	B128	AUX. STORE RTA44
B59	DIAMOND TRAVEL ERROR	B129	AUX. STORE RTA45
B60	DIAMOND TRAVEL ERROR	B130	AUX. STORE RTA46
B61	DIAMOND TRAVEL ERROR	B131	AUX. STORE RTA47
B62	DIAMOND TRAVEL ERROR	B132	AUX. STORE RTA48
B63	DIAMOND TRAVEL ERROR	B133	AUX. STORE RTA49
B64	DIAMOND TRAVEL ERROR		
B65	DIAMOND TRAVEL ERROR		
B66	DIAMOND TRAVEL ERROR		
B67	DIAMOND TRAVEL ERROR		
B68	DIAMOND TRAVEL ERROR		
B69	DIAMOND TRAVEL ERROR		

Station	conf2_3		File Rev. : 01
	General Information		Paragraph Rev. : 01
TSX 27 47	VMK		Author : xtel
Trial	Customer Application		Date : 11/08/90
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	Station	n126s2	File Rev. : 03
			Paragraph Rev. : 03
	General Information		Author : xtel
			Date : 11/29/90
			Page : 4-1



PL7-3 Program

<p>VARIABLE</p> <p>12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.A 12.B 12.C 12.D 12.E 12.F 13.0 13.1 13.2 13.3</p> <p>MNEMONIC</p> <p>S120 S121 S122 S123 S124 S125 S126 S127 S128 S129 S12A S12B K12C X12D X12E X12F S130 S131 S132 S133</p> <p>COMMENT</p> <p>EMERGENCY STOP SELECT : 0 END CYCLE/1 CONTINUOUS SELECT MANUAL MODE PB HOIST PB START HOOK PB STOP HOOK PB DOWN MEASUREMENT PB UP MEASUREMENT SELECT BRAKING : 0 YES/1 NO BRAKE RELEASED EJECT BAD PART EJECT GOOD PART PART READY TO TRANSFER</p>	<p>VARIABLE</p> <p>14.8 14.9 14.A 14.B 14.C 14.D 14.E 05.1 05.2 05.3 05.4 05.5 05.6 05.7 05.8 05.9 05.B</p> <p>MNEMONIC</p> <p>K148 K149 K14A K14B K14C K14D K14E K151 X152 Y153 Y154 Y155 Y156 Y157 X158 X159 X15A X15B X15C</p> <p>COMMENT</p> <p>CONT. UNDER POWER CONT. ADJUST CONT. MEASUREMENT DONE CONT. CALIBRATION CONT. CALIBRATION CONT. BAD CALIBRATION ROTATE HOOK RELEASE HOOK BRAKE RAISE HOIST FWD. TRANSFER RAISE MEASUREMENT LOCK MEASUREMENT CLOSE EXIT HATCH</p>	<p>VARIABLE</p> <p>05.C 05.D 05.E 05.F 06.0 06.1 06.2 06.3 06.4 06.5 06.6 06.7 06.8 06.9 06.A 06.B 06.C 06.D 06.E 06.F</p> <p>MNEMONIC</p> <p>H15C H15D H15E X15F H160 H161 H162 H163 H164 H165 H166 X167 X168 X169 X16A X16B K16C K16D K16E K16F X16F</p> <p>COMMENT</p> <p>CC320 AUTOMATIC OPERATION HOLD SERIOUS PROBLEM INITIAL STEP HOIST STOP NO PART CHOKE SENSOR ERROR LEVER BAD CALIBRATION MEASUREMENT ORDER MEASUREMENT ORDER AUTOMATIC ORDER</p>
<p>Station conf2_4</p>		
	<p>TSX 27 47</p> <p>Trial</p>	<p>List of Mnemonics</p> <p>Customer Application</p>
<p>File Rev. : 01 Paragraph Rev. : 01 Author : xtel Date : 11/07/90 Page : 5.4-1</p>		

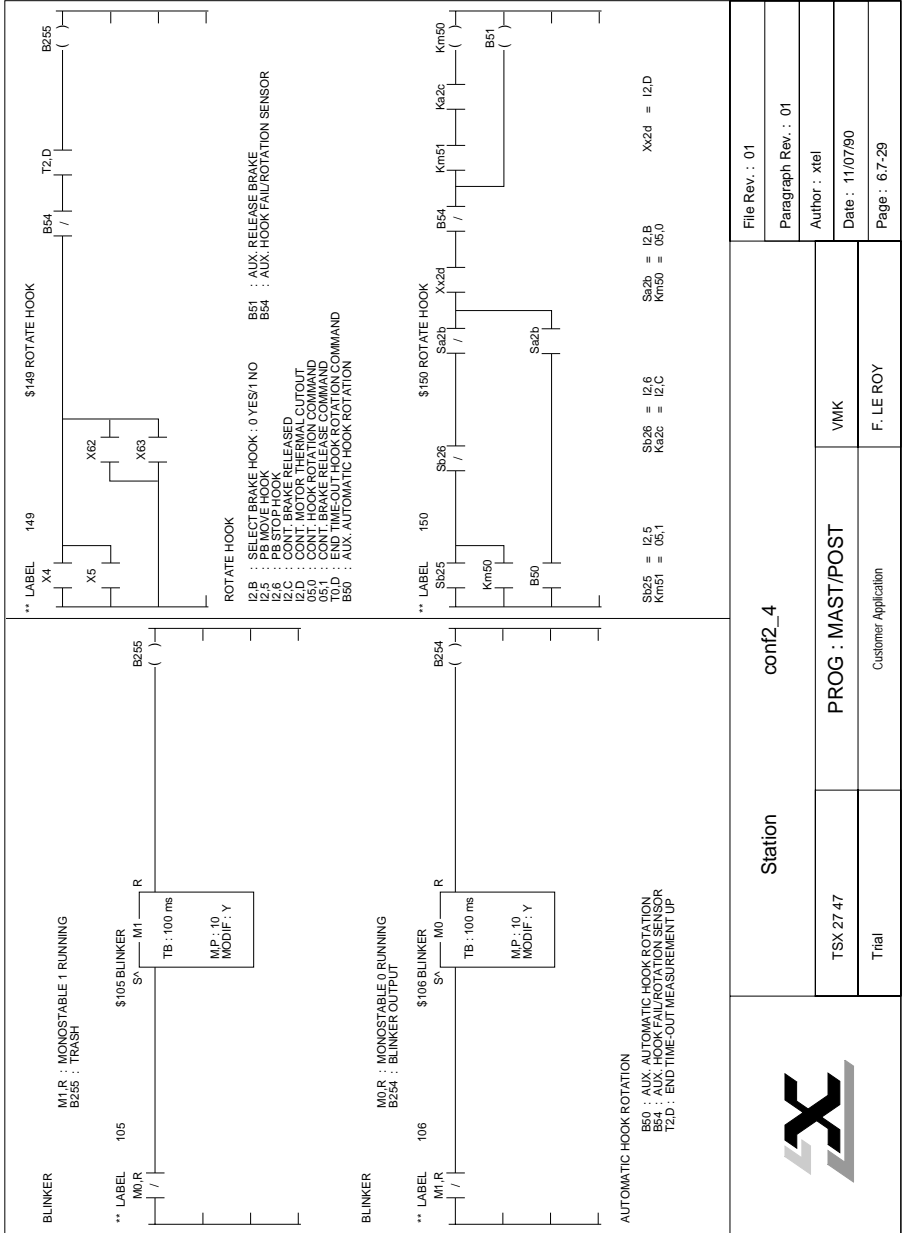
Cross References

Rack 0 Mod 2		Code : 56		Module :		Rack 0 Mod 3		Code : 56		Module :	
Task : MAST		Mnemonic		I/O bit		Task : MAST		Mnemonic		I/O bit	
Wire	Ter.Bk.	I/O bit	Mnemonic	Comment	Wire	Ter.Bk.	I/O bit	Mnemonic	Comment		
101	BLK7	1			101	BLK7	1				
120	2	12.0	MULTIPLEXER - COL 1		130	3	13.0		SUPPLY YES		
121	3	12.1	MULTIPLEXER - COL 2		131	3	13.1		GRINDER RUNNING STAR		
122	4	12.2	MULTIPLEXER - COL 3		132	3	13.2		GRINDER RUNNING TRIANGLE		
123	5	12.3	MULTIPLEXER - COL 4		133	3	13.3		PART INSERT YES		
124	6	12.4	MULTIPLEXER - COL 5		134	6	13.4		AUTOMATIC CONTROL		
125	7	12.5	MULTIPLEXER - COL 6		135	7	13.5		CONTINUOUS CONTROL		
126	8	12.6	MULTIPLEXER - COL 7		136	9	13.6		LUBRICATE DIAMOND		
127	10	12.7	ROLLER MOTOR TEMP. SENSOR		137	10	13.7		CONTINUOUS REPLACE YES		
128	11	12.8	THERMAL CUTOFF TRIGGERED		138	11	13.8		RESTART AFTER REPLACE YES		
129	12	12.9	LIGHT CUT OFF		139	12	13.9		RESTART AFTER REPLACE NO		
130	13	13.0	OIL FILTER BLOCKED		140	13	14.0		MANUAL SELECTOR YES		
131	14	13.1	OIL OVERHEAT		141	13	14.1		MANUAL SELECTOR NO		
132	14	13.2	AXIS BOARD OK		142	14	14.2		MANUAL SELECTOR YES		
133	14	13.3	HOOK OIL SUPPLY		143	14	14.3		MANUAL SELECTOR NO		
134	16	13.4	GRINDER TURNING		144	16	14.4		SELECTORS CLOSE		
135	17	13.5	DIAMOND FWD.		145	17	14.5		SELECTORS CLOSE		
136	18	13.6	DIAMOND REV.		146	18	14.6		PUMP MOTOR BACK-UPS		
137	18	13.7	DIAMOND OVER		147	18	14.7		ROLLER STATUS		
138	19	13.8	DIAMOND FERRIN		148	19	14.8		OIL LEVEL		
139	20	13.9	NO PART SUPPLY		149	20	14.9				
140	21	14.0	CHOKE		150	20	15.0				
141	22	14.1	LUBRICATED								
142	23	14.2	POS - PRETRAVEL NEG.		153.8	23	153.8		REPLACE YES		
143	24	14.3	POS - PRETRAVEL POS.								
144	25	14.4	POS - DEVIATION NEG.								
145	25	14.5	POS - DEVIATION POS.								
146	26	14.6	RTA1 NOT EXECUTED								
147	27	14.7	ROLLER EMERGENCY								
148	28	14.8									
149	28	14.9									
150	29	15.0									
151	30	15.1									
152	31	15.2									
153	31	15.3									
154	32	15.4									
155	32	15.5									
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157	33	15.7									
158	34	15.8									
159	35	15.9									
160	36	16.0									

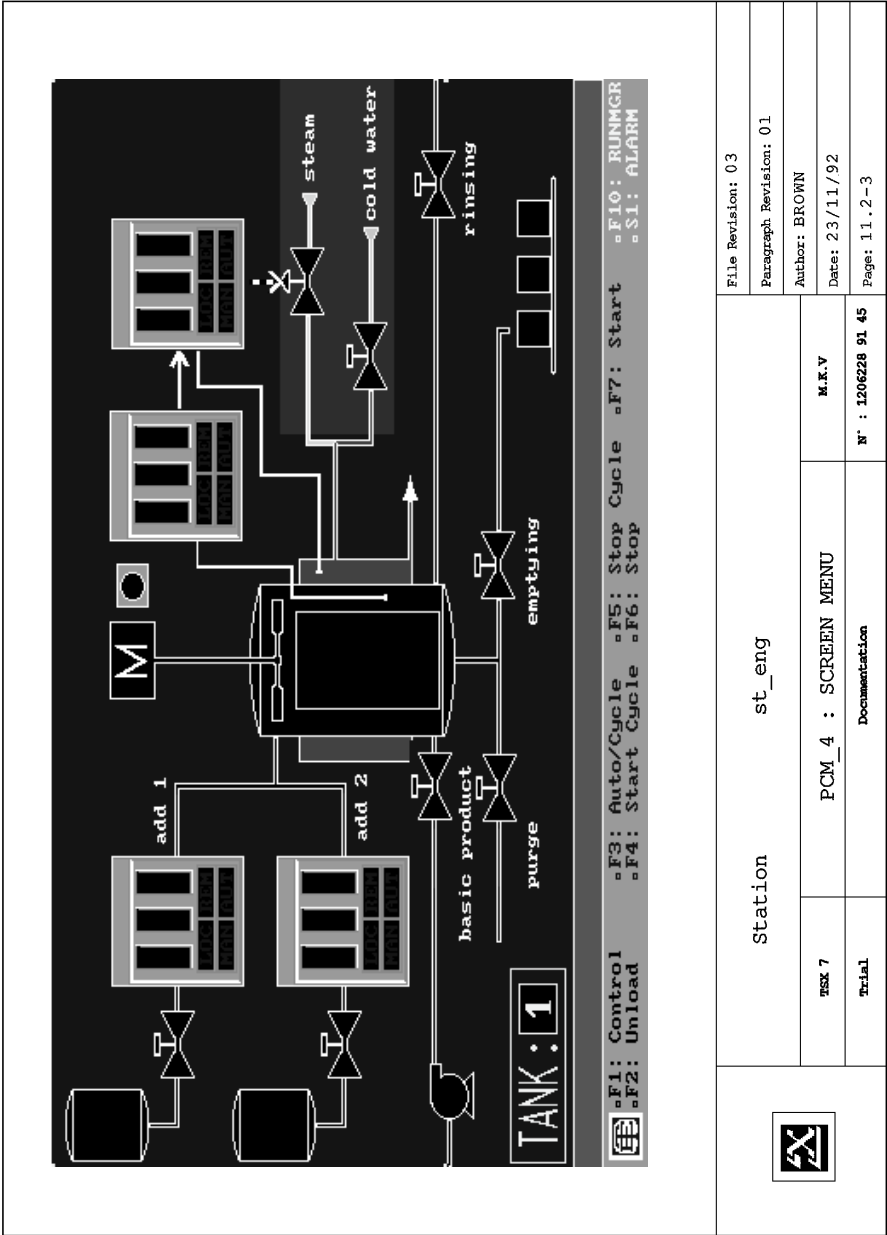
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TSX 27 47		I/O WIRING		Paragraph Rev. : 01	
Trial		Customer Application		Author : xiel	
				Date : 11/08/90	
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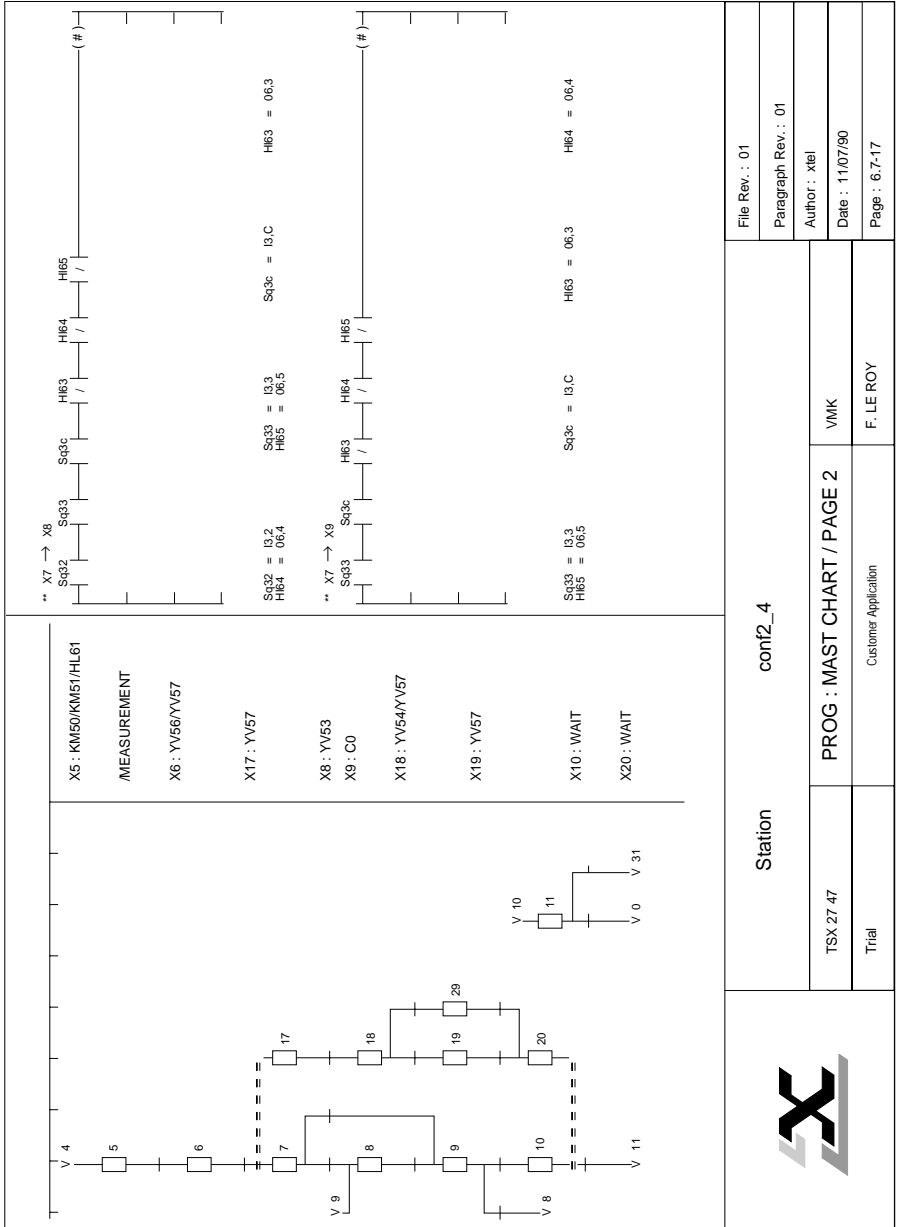
PL7-MMI Man-Machine Interface



Station		st_eng	
TSK 7	PCM_4 : SCREEN MENU		M.K.V
Trial	Documentation		N° : 1206228 91 45
File Revision: 03		Paragraph Revision: 01	
Author: BROWN		Date: 23/11/92	
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PL7-MMI Man-Machine Interface



PL7-MMI Man-Machine Interface Program

BITS

MNEMONIC	VARIABLE	TASK	LABEL	SYMBOL
Km50	05.0	POST	p50	- / -
		POST	p150	- / -
		POST	p150	- / -
Km51	05.1	POST	p150	- / -
		POST	p15	- / -
Sa21	I2.1	PRM	X11	- / -
		CHART	X9 → X31 2/12 /7	- / -
		CHART	X9 → X8 2/10 /0	- / -
		CHART	X9 → X10 2/10 /1	- / -
		CHART	X9 → X0 2/12 /6	- / -
Sa22	I2.2	PRM	p15	- / -
		PRM	p15	- / -
		POST	p154	- / -
		POST	p155	- / -
		POST	p156	- / -

BITS

MNEMONIC	VARIABLE	TASK	LABEL	SYMBOL
H86	0.6	POST	p162	- / -
		POST	p164	- / -
		POST	p176	- / -
		POST	X0 → X5 1/2 /2	- / -
		POST	X0 → X1 1/2 /1	- / -
Ka2c	I2.C	CHART	p150	- / -
Ka44	I4.4	PRL	p11	- / -
		PRL	p30	- / -
		PRL	p35	- / -
Ka45	I4.5	PRL	p11	- / -
		PRL	p30	- / -
Ka46	I4.6	PRL	p30	- / -
		PRL	p35	- / -

BITS

MNEMONIC	VARIABLE	TASK	LABEL	SYMBOL
Sa22	I2.2	CHART	X60 → X61 02 /1	- / -
		CHART	X11 → X31 2/12 /7	- / -
Sa23	I2.3	POST	p153	- / -
		POST	p154	- / -
		POST	p155	- / -
		POST	p156	- / -
Sa27	I2.7	CHART	X60 → X61 02 /1	- / -
Sa2b	I2.B	CHART	X11 → X31 2/12 /7	- / -
		PRM	p154	- / -
		PRM	p15	- / -
		POST	p150	- / -
		POST	p150	- / -
		CHART	X7 2/4 /1	- / -
		CHART	X6 → X7 2/4 /1	- / -

BITS

MNEMONIC	VARIABLE	TASK	LABEL	SYMBOL
Ka48	I4.8	PRL	p10	- / -
		PRL	p11	- / -
Ka49	I4.9	CHART	X63 → X64 08 /1	- / -
Ka4a	I4.A	CHART	X5 → X6 2/2 /1	- / -
Ka4b	I4.B	PRL	p10	- / -
Ka4c	I4.C	PRL	p15	- / -
		PRL	p30	- / -
		PRL	p35	- / -
		POST	p157	- / -
		POST	p176	- / -
Ka4d	I4.D	POST	p176	- / -
Ka4e	O6.C	POST	p182	- / -
Ka4f	O6.D	POST	p183	- / -
Ka4g	O6.E	POST	p184	- / -
		POST	p184	- / -



Station

conf2_4

File Rev. : 01
 Paragraph Rev. : 01
 Author : xtel
 Date : 11/07/90
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XREF BY MNEMONICS BITS

VMK

F. LE ROY

Customer Application



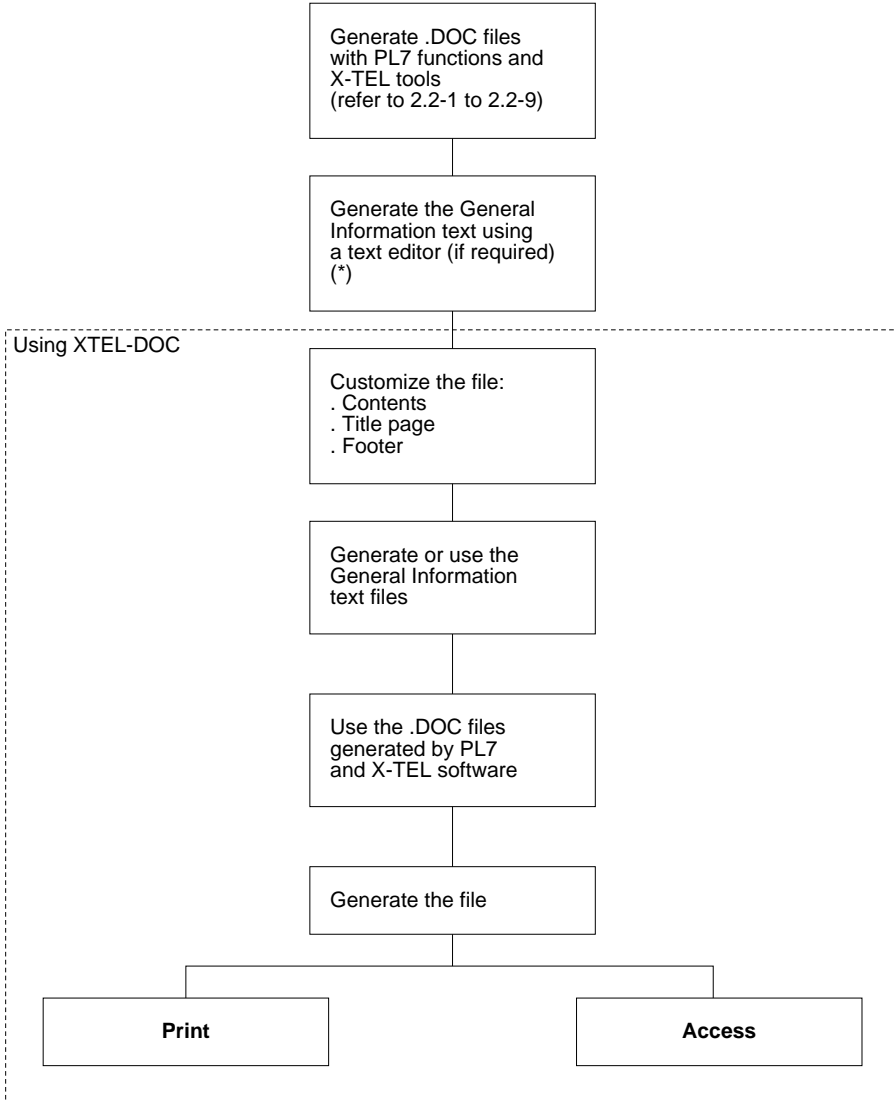
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F

2.1 XTEL-DOC General Principles

The same principles apply to the creation and generation of Project or Station documentation files:



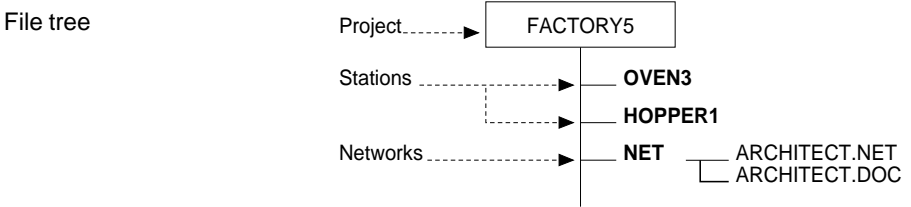
(*) General information can also be entered directly into XTEL-DOC using the OS/2 text editor.

2.2 Generating .DOC Files with PL7 Functions and X-TEL Tools

2.2-1 Generating a .DOC File in PL7-NET (Project File)

Select the "Documentation" operating mode and select "XTEL DOC output" item from the documentation menu. The ARCHITECT.DOC project layout file that is generated can be included in the project documentation file.

(Refer to PL7-NET program documentation, section 4)



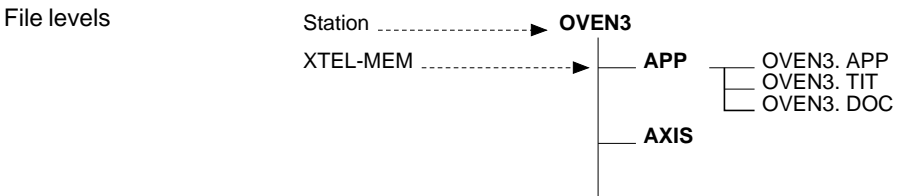
2.2-2 Generating a .DOC File in XTEL-MEM (Station File)

Select the "Document/Print" menu and select the Print action. Select the following parameters from the dialog box that is displayed:

- Print-out: File
- Type of Printer: Semi-Graphic

OK starts generation of the .DOC file that can be integrated into the station documentation file.

(Refer to X-TEL documentation: TXT DM TLS V5E, Divider D, Sub-section 2.5)



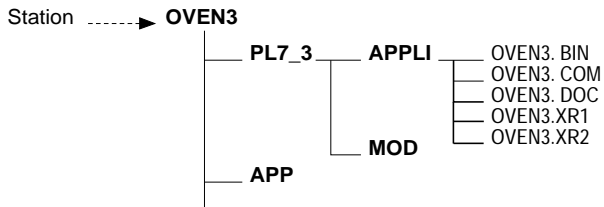
2.2-3 Generating a .DOC File in PL7-3 (Station File)

From the Document/Print screen:

- Call-up the Listing Contents screen and select the headings that will be used in the documentation file. By default, all headings are selected,
- Select the print parameters "Type of printing: LL or SL",
- Select the "Print Listing" action and validate the selection. Answer [YES] to the XTEL-DOC? prompt. The .DOC file will then be generated by PL7-3. It comprises all of the selected headings and can be included in the application file using XTEL-DOC.

Note: When the listing is generated for the first time, all headings must be selected.

File tree



Important:

If the user requires cross-references in the XTEL-DOC documentation file, it is necessary to store .XRi files (refer to the PL7-3 Operating Modes documentation, TXT DM PL7 3 V5E, Divider A, Sub-section 3.10).

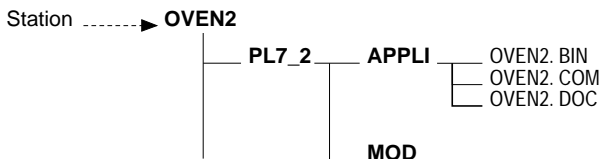
2.2-4 Generating a DOC File in PL7-2 (Station File)

From the Document/Print screen:

- Call-up the Listing Contents screen and select the headings that will be used in the documentation file. By default, all headings are selected,
- Select the print parameters "Type of printing: LL or SL",
- Select the "Print Listing" action and validate the selection. Answer [YES] to the XTEL-DOC? prompt. The .DOC file will then be generated by PL7-2. It comprises all of the selected headings and can be included in the application file using XTEL-DOC.

(Refer to PL7-2 Operating Modes documentation, TXT DM PL7 V5E, Section 14).

File tree



2.2-5 Generating a DOC File in PL7-AXE (Station File)

From the Operating Modes Selection screen:

- Select the TSX working memory (the terminal must be connected to a PLC that supports TSX AXM 172/182 modules with applications to document).
- To document all applications for all axes, enter "*" as the axis number and "*" as the application number:

AXIS = *
APPLI = *

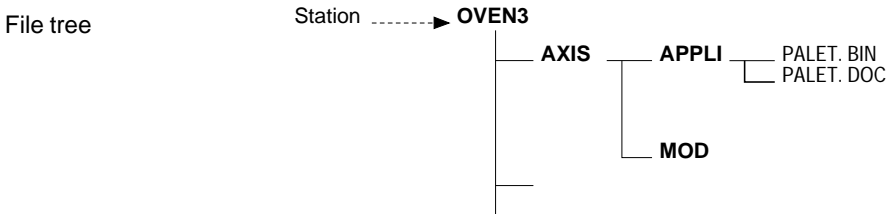
- Select the "Documentation" operating mode and set the parameters listed below via the dynamic soft keys that can be accessed in the selection screen for this mode:

[PRI/FILE] Print to disk file,
[FILE] Enter the name that the .DOC file will be stored under,
[GRA Y/N] Graphic printing: Yes,
[DIR Y/N] Print directory: Yes.

<Enter> Starts generation of the .DOC file.

(Refer to the PL7-AXE axis control software documentation: TXT DM PL7 AXS V5E, Section 9).

Note: The message "XTEL-DOC compatible" is displayed opposite the graphic print-out item.



2.2-6 Generating a .DOC File in PL7-COM (Station File)

From the Operating Modes Selection screen:

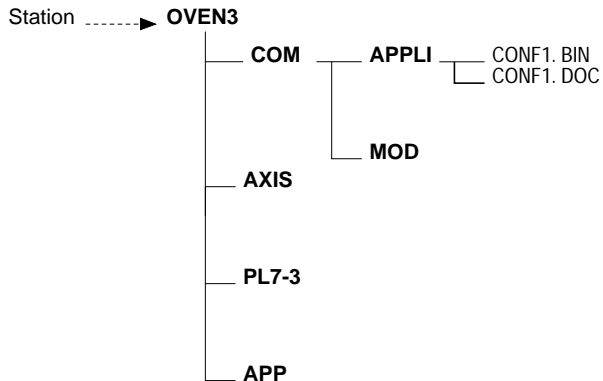
- Select the TSX FILE memory to work off-line in Local mode or select TSX memory to work on-line with the terminal connected to a PLC that supports TSX SCM modules with applications to document.
- To document all applications for all modules, enter "*" as the module number and "*" as the channel number:
COM = *
CHANNEL = *
- Select the "Documentation" operating mode and set the parameters listed below via the dynamic soft keys that can be accessed in the selection screen for this mode:
[PRI/FILE] Print to disk file,
[FILE] Enter the name that the .DOC file will be stored under,
[GRA Y/N] Graphic printing: Yes,
[DIR Y/N] Print directory: Yes.

<Enter> Starts generation of the .DOC file.

(Refer to the PL7-COM Operating Modes documentation: TXT DM CMM V5E, Section 9).

Note: The message "XTEL-DOC compatible" is displayed opposite the graphic print-out item.

File tree



2.2-7 Generating a .DOC File in PL7-PCL or PL7-PMS/PMS2 (Station File)

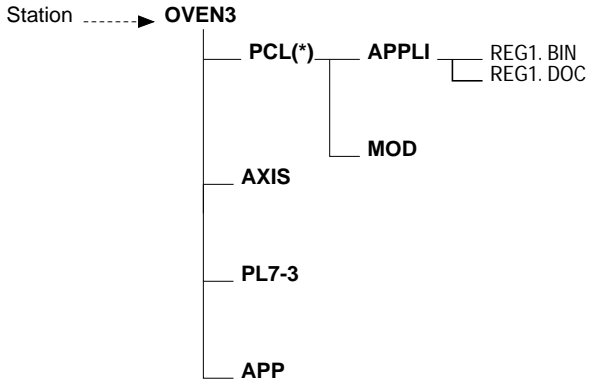
From the Operating Modes Selection screen:

- Select the TSX FILE (PMX FILE for PL7-PMS or PL7-PMS2) memory to work off-line in Local mode or select TSX (PMX for PL7-PMS or PL7-PMS2) memory to work on-line with the terminal connected to a PLC.
- To document all applications for all TSX AEM modules, enter "*" as the module number and "*" as the application number:
 AEM = *
 APPLI = *
- Select the "Documentation" operating mode and set the parameters listed below via the dynamic soft keys that can be accessed in the selection screen for this mode:
 [PRI/FILE] Print to disk file,
 [FILE] Enter the name that the .DOC file will be stored under,
 [GRA Y/N] Graphic printing: Yes,
 [DIR Y/N] Print directory: Yes.
 <Enter> Starts generation of the .DOC file.

(Refer to the PL7-PCL (TXT DM PL7 PCL V5E), PL7-PMS (TXT DM PL7 PMS V5E) or PL7-PMS2 (TXT DM PL7 PMS2 V5E) documentation.)

Note: The message "XTEL-DOC compatible" is displayed opposite the graphic print-out item.

File tree



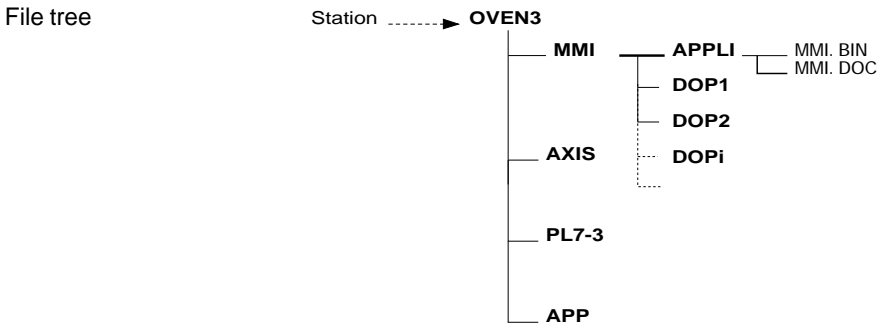
(*) PMS for PL7-PMS or PL7-PMS2 software

2.2-8 Generating a DOC File in PL7-MMI (Station File)

- From the PL7-MMI program primary window, select "Documentation" from the "Utilities" menu.
- Once the "Application Documentation" window is open, select "Station Documentation" from the "Print" menu.
- Select all of the tasks from the dialog box and click on "OK" to confirm, the documentation file is generated.

(Refer to PL7-MMI documentation, Divider C, Sub-section 2.6)

Note: Documentation must be generated for each PCM module in the application. PL7-MMI generates a single MMI.DOC file that contains all documentations.

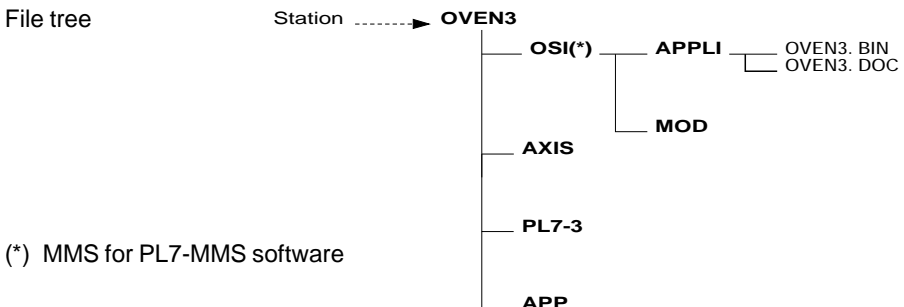


2.2-9 Generating a .DOC File in PL7-OSI or PL7-MMS (Station File)

From the PL7-OSI or PL7-MMS primary window, select the "Document/Print" menu, then select the Print action. Select the following parameters from the dialog box that is displayed:

- Print-out: File
- Type of Printer: Semi-Graphic

OK starts generation of the .DOC file that can be integrated into the station documentation file.



(*) MMS for PL7-MMS software

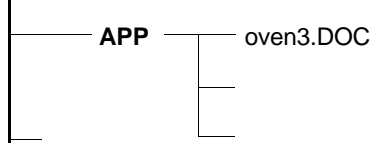
2.2-10 Generating the .DOC in XTEL-CONF (Station File)

- From the XTEL-CONF primary window, pull-down the "Documentation" menu and select "Generate".

(Refer to the TXT DM TLS V5E documentation, Divider D, Sub-section 1.8).

File tree

Station → OVEN3



2.2-11 Generating the .DOC File in XTEL-SDBASE (Station File)

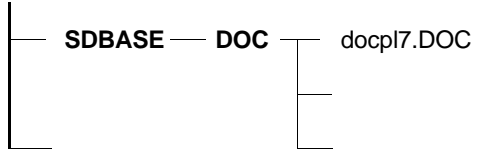
From the XTEL-SDBASE primary window, pull-down the "Documentation" menu and select "Generate". In the dialog box that is displayed, select the following parameters.

OK starts generation of the .DOC file that can be integrated into the station documentation file.

(Refer to the TXT DM TLS V5E documentation, Divider D, Sub-section 3.8).

File tree

Station → OVEN3



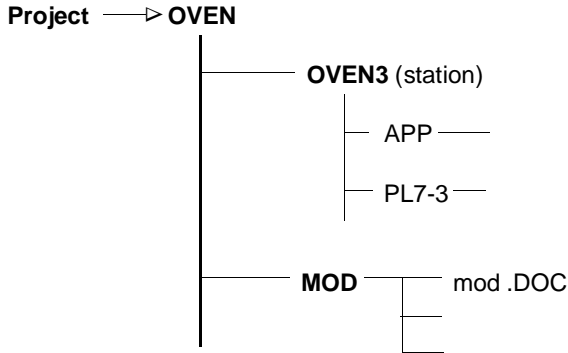
2.2-12 Generating a .DOC File in XTEL-MOD (Project and Station Files)

- From the XTEL-MOD primary window, pull-down the "Documentation" menu and select "Generate". From the dialog box displayed, select the parameters.

OK Starts generation of the .DOC file that can be integrated into the station documentation file.

(Refer to TXT DM MDD V5E documentation, Divider E, Sub-section 3.6).

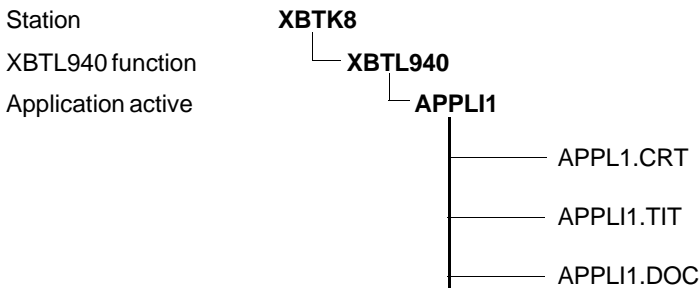
File tree



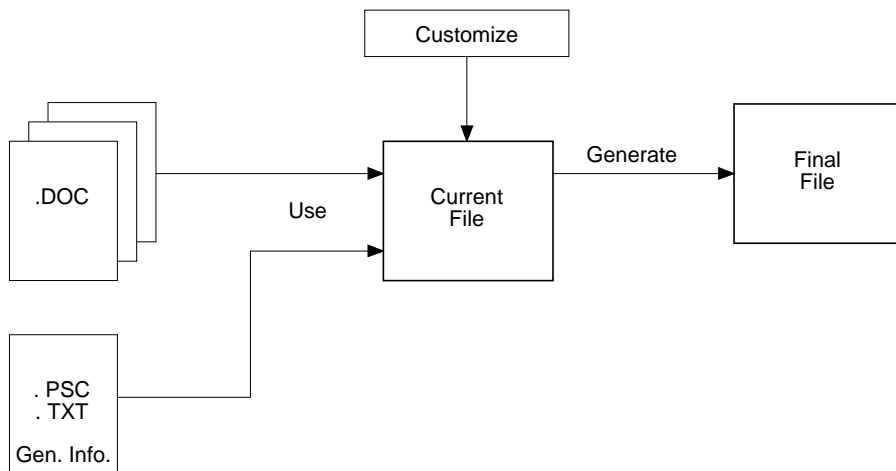
2.2-13 Generating the .DOC File with XBTL940 (Station File)

- Pull-down the "Documentation" menu and select the "Edit" command. Generate the title page and the footer.
 - Pull-down the "Documentation" menu once again and select the "Print" command. From the dialog box displayed, select the following parameters:
 - Listing output: File,
 - Type of printer: Semi-Graphic.
 - "OK" starts generation of the .DOC file that can be integrated into the station documentation file.
- (Refer to XBTL940 documentation: Divider A, Sub-section A7).

File tree



2.3 Integrating and Managing Application Files in XTEL-DOC



2.3-1 Customizing the Documentation File

Customizing the documentation file comprises:

- Generating the table of contents of the application (refer to sub-section 3.4),
- Entering footer information (refer to sub-section 3.5),
- Entering title page information (refer to sub-section 3.6).

2.3-2 Generating and Using General Information Files

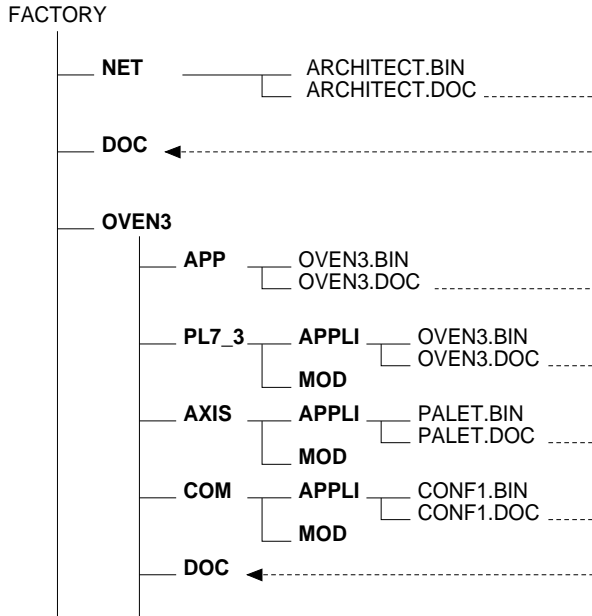
For general information:

- Use the general information type files previously generated using other text processor applications (refer to sub-sections 3.7 and 4.2),
- If necessary, create new files with the OS/2 editor that can be directly accessed from XTEL-DOC (refer to sub-section 3.7).

2.3-3 Using Files Generated with PL7 Functions and X-TEL Tools

For configuring PL7 ... programs:

- Select the files generated by PL7 functions or X-TEL tools (refer to sub-section 3.8). The file levels shown opposite, illustrate the transfers performed by the XTEL-DOC program.



2.3-4 Generating Documentation Files

All of the above operations are only taken into account in the final documentation file when the file generation command is confirmed.

Until this command is executed, any operations in progress are stored in a "file in progress" disk file.

2.3-5 Managing Documentation Files

The XTEL-DOC program automatically manages the documentation file versions and the versions of each paragraph (refer to the list of versions in sub-section 1.3).

When the documentation file is generated, XTEL-DOC increments the version (revision) level of the generated sections and paragraphs and that of the complete documentation file (it does not take into account modification of the title page, table of contents or footer).

Note: If a section is not regenerated when the selected .DOC files imply an update of this section, a star is displayed in place of the version number (revision level).



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3.1 Hardware Description

A terminal with OS/2 and the X-TEL or MINI X-TEL Software Workshop installed, is required to use the XTEL-DOC program.

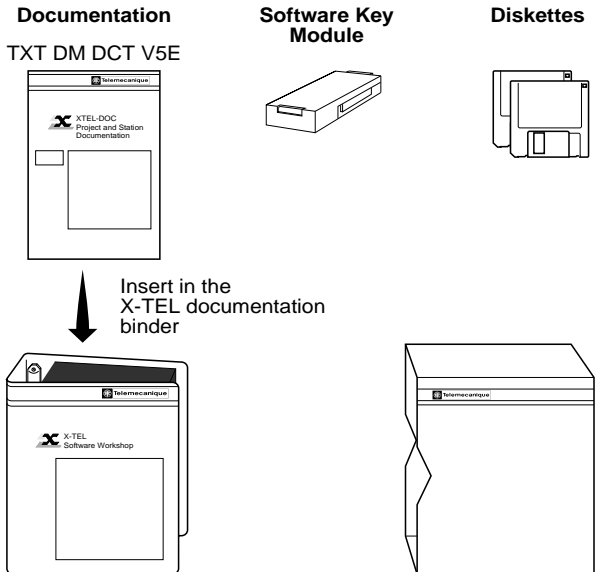
This means using one of the hardware configurations recommended below:

- An FTX 507 or FTX 417 with:
 - 6 to 8 MB of RAM,
 - A 40 MB hard disk (120 MB recommended for large or multiple station applications),
 - OS/2 version 1.3 or 2.1 operating system software,
 - A mouse (recommended).
- An IBM PS/2 or PC compatible configuration, comprising:
 - At least an 80386 microprocessor based microcomputer,
 - 6 to 8 MB of RAM,
 - A 40 MB hard disk (120 MB recommended for large or multiple station applications),
 - OS/2 version 1.2, 1.3 or 2.1 operating system software,
 - A high resolution VGA monitor and the appropriate national or international keyboard,
 - A mouse (recommended).

To print out the documentation files, a graphics capable Postscript printer is required (refer to sub-section 3.2-5).

The complete XTEL-DOC software package comprises:

- A 3 1/2" program diskette,
- A software key module,
- This manual, ref. TXT DM DCT V5E.



3.2 Software Installation

3.2-1 Fitting the Software Key Module

Fit the software key module into the empty location in the software key module holder.

Ensure that the microcomputer is powered-down before inserting the software key module.

Note: The software key module contains the right of use required to run the XTEL-DOC program. The Key Manager, part of the X-TEL or MINI X-TEL Software Workshop, lets the user transfer this right of use to the work key module, freeing a software key module holder slot. For further information on using the Key Manager, refer to the X-TEL Software Workshop documentation (TXT DM XTEL V5E), Divider C, Section 9 or the MINI X-TEL Software Workshop documentation (TXT DM BJR V5E), Divider C, Section 2.

3.2-2 Initial Preparations

Before installing the XTEL-DOC program on the hard disk, it is recommended that the user:

- Make a copy of the program disk and that this disk be used for all installation procedures to avoid accidental damage to the original. Once it has been copied, the original disk should be kept in a safe place,
- Carefully read the licence and guarantee certificates that come with this program and that detail the conditions of use and the restrictions that apply to copying and installing the program.

Important:

The XTEL-DOC program diskette is supplied write protected. Do not change the position of the write protect tab on the diskette.

Important:

To install XTEL-DOC on an FTX 507 terminal, first update the Operating System version as described in the Information Sheet (W9 1329 098 01.01.A01) supplied with the terminal.

3.2-3 Installation Conditions

XTEL-DOC is run in the X-TEL or MINI X-TEL Software Workshop environment. The appropriate Software Workshop must already be installed on the microcomputer.

Once XTEL-DOC is installed, ensure that at least:

- 1 MB of free space is available on the XTEL-DOC target hard disk,
- 5 MB of free space is available on the application file hard disk partition.

3.2-4 Installation Procedure

The following operations must be performed before the XTEL-DOC program is installed:

1. **Ensure that the X-TEL or MINI X-TEL Software Workshop is already installed** (refer to the corresponding documentation):
If so, proceed with the XTEL-DOC installation procedure described below. If not, first install the X-TEL (TXT L BASE V5E) or MINI X-TEL (TXT L BJR V5E) Software Workshop (refer to the corresponding documentation).
2. Close all work sessions in progress (refer to the corresponding documentation).

XTEL-DOC program installation

- Open an **OS/2 full screen session**, to do so:
 - **Insert the XTEL-DOC diskette** into the diskette drive,
 - **Type the drive identification letter** (a: or b:), where the diskette is located and press <Enter> to confirm,
 - Once a new prompt is displayed on-screen (e.g. [A:\] or [B:\]) type **install** and press <Enter> to confirm,
 - Follow the prompts displayed on-screen and press <Enter> to confirm the entries made,
 - Once the **installation procedure is complete**, and if this is the last program to install, run the configuration check as prompted on-screen,
 - Remove the XTEL-DOC diskette from the drive and return to the Software Workshop by pressing <Ctrl> <Esc>.

When the installation procedure is started, the first screen displayed is:

```

INSTALLATION LOGICIEL XTEL-DOC

XTEL-DOC SOFTWARE INSTALLATION

(C) TELEMECANIQUE 1990, V5
  
```

Press <Enter> to continue:

Note: To use XTEL-DOC version 5, a Software Workshop version 5 or higher is required.

Once the installation procedure is started by pressing <Enter>, the XTEL-DOC program files are copied to the appropriate Software Workshop sub-directories.

Once this is complete, the following screen is displayed:

CONFIGURATION CHECK...

The installation procedure can perform a check on the program configuration of the XTEL Software Workshop installed under OS/2.

If you have just completed the last program installation required before starting the XTEL Software Workshop, you can run a complete check on the program configuration. If not, run the complete check once you have installed all XTEL software.

- 1 Last installation completed, run configuration check.
- 2 Run check later, other programs still waiting to be installed in the XTEL Software Workshop.

Your choice :

The user can select:

1 to run the X-TEL installation check procedure.

2 to skip the installation check. In both cases the XTEL-DOC installation procedure is completed and the following screen displayed:

INSTALLATION COMPLETE...

The installation procedure is complete.

The tool XTEL-DOC is now installed on the X-TEL software workshop of Telemecanique.

Press <Enter>:

<Enter> Returns the user to the OS/2 full screen window.

3.2-5 Installing the Printer Driver

A Postscript printer able to print out in landscape mode, in A4 or A3 format, is required. The printer interface can be serial or parallel.

In order to print an XTEL-DOC documentation file, the printer driver must first be installed in the system.

The following printer parameters must be selected:

- From the Printers List, select the appropriate Postscript printer driver for your printer,
- From the Papers List, select "Letter",
- From the Fonts List, select "Courier",
- Select "Landscape" layout mode
- Select 100% scaling.

These selections are made:

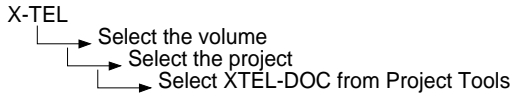
- From the Print Manager in OS/2 1.2 and 1.3 (refer to Sub-section 4.1),
- From the printer object for OS/2 2.1 (refer to the OS/2 2.1 documentation).

3.3 General

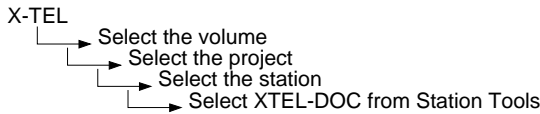
3.3-1 Accessing XTEL-DOC

In X-TEL, XTEL-DOC can be run at:

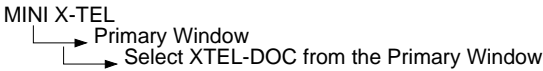
- **Project level**, when preparing the Project file:



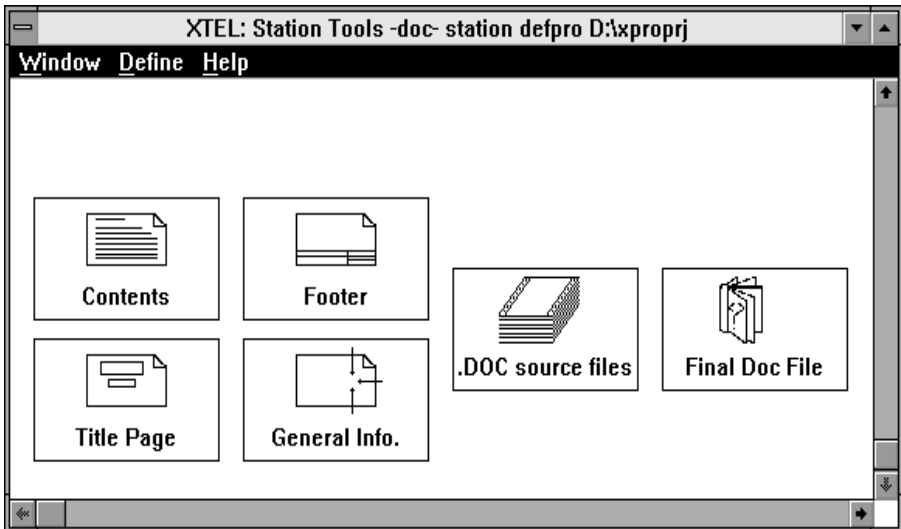
- **Station level**, when preparing the Station file:



In MINI X-TEL, XTEL-DOC is invoked from the primary window:

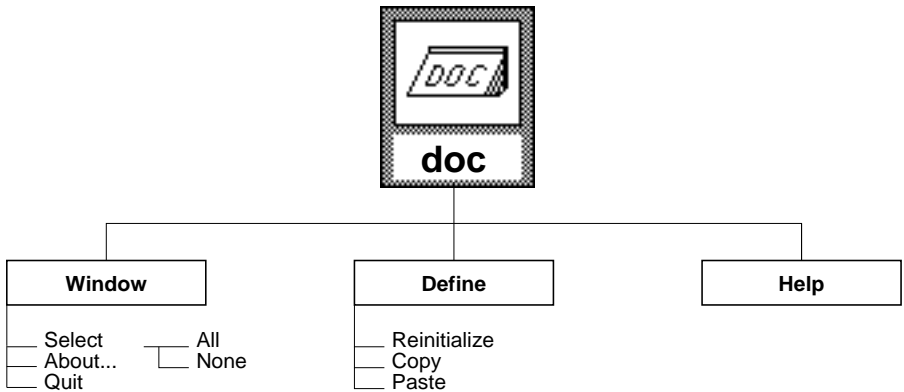


Primary window



The primary window displays the icons of the functions that available for preparing the application file. These functions are named to match the functions they perform.

3.3-2 Primary Window Menu



Window menu command

Select → All

Simultaneously selects all icons.

Select → None

Simultaneously deselects all icons.

About...

Displays the program information screen.

Quit

Quits XTEL-DOC.

Define menu command

Reinitialize

Reinitializes all selected icons (clears the actions performed with each of the icons).

Copy

Copies the selected element to the clipboard.

Paste

Pastes the contents of the clipboard to the selected element.

The Copy/Paste actions let the user exchange elements (footer, title page, general information) between two stations or two projects.

Help

Selects on-line help.

3.4 Contents

3.4-1 Contents Icon Commands



Contents	
<input type="checkbox"/>	Configure
<input type="checkbox"/>	Next
<input type="checkbox"/>	Previous
<input type="checkbox"/>	Select
<input type="checkbox"/>	Help

- Configure** Lets the user access the Contents icon.
- Next** Activates the next icon (Footer icon).
- Previous** Activates the previous icon (File icon).
- Select** Selects the icon.
- Help** Calls-up the on-line help screen.

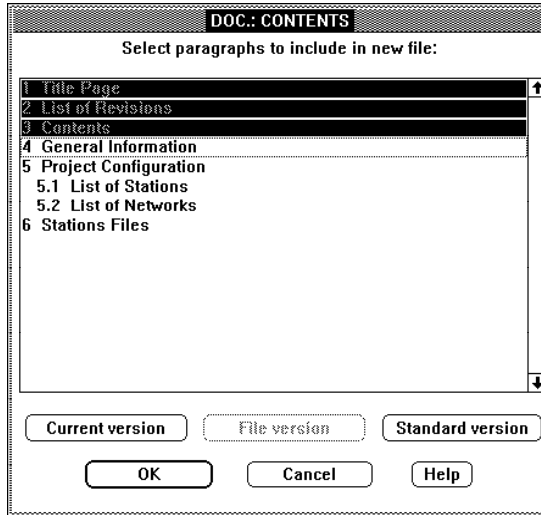
3.4-2 Contents Dialog Box

This dialog box displays the contents of the documentation file. When the documentation file is created, a standard table of contents is offered to the user. The table of contents is built by selecting or deselecting the sections and paragraphs available. It is not possible to change the number of paragraphs or their order.

For a paragraph assigned to a function or a tool to be available, the function or the tool must first be installed and defined.

The sections and paragraphs can be enabled or not, selected or not.

Color	Enabled	Selected
Grey on White	No	-
Black on White	Yes	No
Grey on Black	Yes	Required
White on Black	Yes	On Request

**Current version**

Displays the contents of the current documentation file.

File version

Displays the contents of the last documentation file generated.

Standard version

Displays the standard table of contents, where all enabled paragraphs are selected.

OK

Quits the function and saves the selections made.

Cancel

Quits the function without saving the selections made.

Help

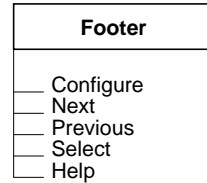
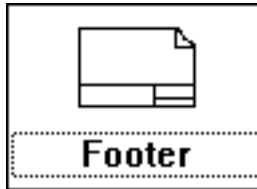
Calls-up the on-line help screen.

3.4-3 Contents Example

Refer to sub-section 1.3.

3.5 Footer

3.5-1 Footer Icon Commands



- Configure** Lets the user access the Footer icon.
- Next** Activates the next icon (Title Page icon).
- Previous** Activates the previous icon (Contents icon).
- Select** Selects the icon.
- Help** Calls-up the on-line help screen.

3.5-2 Footer Dialog Box

This dialog box lets the user enter footer information.

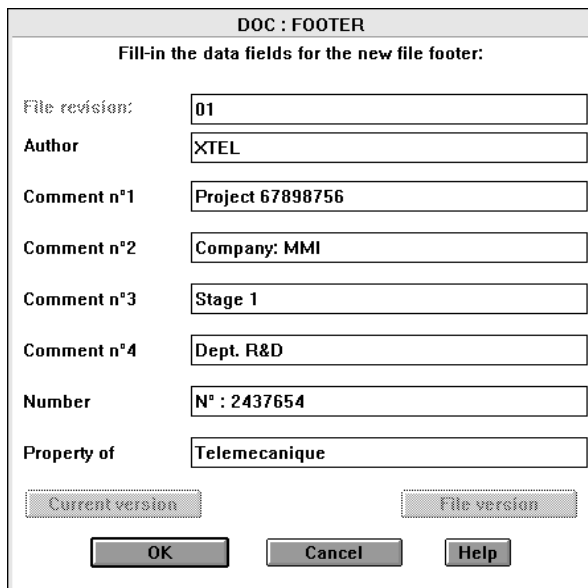
File revision: Automatically generated by XTEL-DOC. Cannot be modified,

Author: Automatically generated by XTEL-DOC from the user name entered in X-TEL. Can be modified,

Four comment fields of up to 20 characters each can be entered,

Number: This line starts with N° and will normally accept 15 characters (up to 20 if "N°:" is deleted),

Property of: This line lets the user specify a company name of up to 30 characters. The name entered becomes part of the copyright line printed below the footer, as shown in the example on the next page.

The screenshot shows a dialog box titled "DOC : FOOTER". Below the title is the instruction "Fill-in the data fields for the new file footer:". The dialog contains several input fields:

- File revision:** A text box containing "01".
- Author:** A text box containing "XTEL".
- Comment n°1:** A text box containing "Project 67898756".
- Comment n°2:** A text box containing "Company: MMI".
- Comment n°3:** A text box containing "Stage 1".
- Comment n°4:** A text box containing "Dept. R&D".
- Number:** A text box containing "N° : 2437654".
- Property of:** A text box containing "Telemecanique".

At the bottom of the dialog are three buttons: "Current version" (disabled), "File version" (disabled), "OK", "Cancel", and "Help".

Current version

Displays the contents of the current documentation file.

File version

Displays the contents of the last documentation file generated.

OK

Quits the function and saves the selections made.

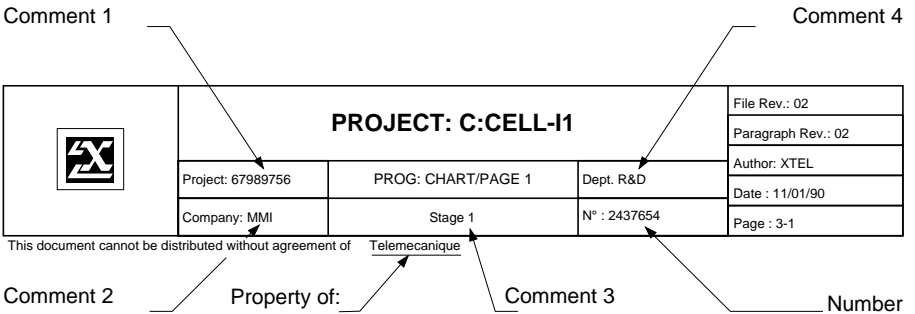
Cancel

Quits the function without saving the selections made.

Help

Calls-up the on-line help screen.

3.5-3 Footer Example

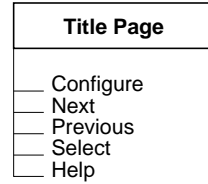
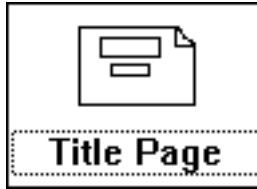


The File Rev., Paragraph Rev., Date and Page information is automatically generated by XTEL-DOC. The Author information can be entered by the user and takes XTEL by default.



3.6 Title Page

3.6-1 Title Page Icon Commands



- Configure** Lets the user access the "Title Page" dialog box,
- Next** Activates the next icon (General Info. icon),
- Previous** Activates the previous icon (Footer icon),
- Select** Selects the icon,
- Help** Calls-up the on-help screen.

3.6-2 Title Page Dialog Box

This dialog box lets the user enter information (up to 30 characters max.) that will appear on the title page:

1st. Line: COMPANY: Up to 30 characters can be entered,

2nd. Line: PROJECT: Up to 30 characters can be entered,

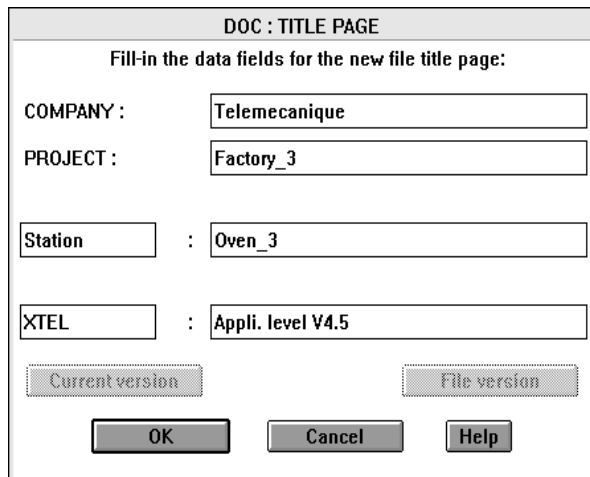
3rd. Line: This line comprises two entry fields:

One where Station is the default display where up to 10 characters can be entered, for station level documentation,

One where up to 30 characters can be entered,

4th. Line: This line comprises two entry fields:

One where up to 10 characters can be entered,
The other where up to 30 characters can be entered.



DOC : TITLE PAGE

Fill-in the data fields for the new file title page:

COMPANY : Telemecanique

PROJECT : Factory_3

Station : Oven_3

XTEL : Appli. level V4.5

Current version File version

OK Cancel Help

OK

Quits the function and saves the selections made.

Cancel

Quits the function without saving the selections made.

Help

Calls-up the on-line help screen.

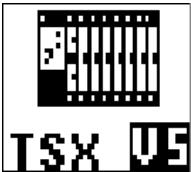
Current version

Displays the contents of the current documentation file.


File version

Displays the contents of the last documentation file generated.

3.6-3 Title Page Example



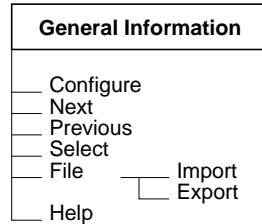
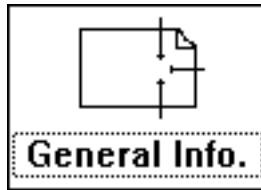
TECHNICAL FILE	
Company	Telemecanique
Project	Factory_3
Station	Oven_3
XTEL	V5 level application

	Station	wag_exl	File Rev.:
	Comment 1	Title Page	Paragraph Rev.:
	Comment 2	Comment 3	Number
			Author:
			Date:
			Page:

This document cannot be released with approval of Telemecanique

3.7 General Information

3.7-1 General Information Icon Commands



Configure Lets the user access the "General Information" dialog box.

Next Activates the next icon (.DOC icon).

Previous Activates the previous icon (Title Page icon).

Select Selects the icon.

File → Import

Lets the user access the "Import General Information" dialog box.

File → Export

Lets the user access the "Export General Information" dialog box.

Help Calls-up the on-line help screen.

3.7-2 General Information Dialog Box

This dialog box lets the user select from the files available in the .DOC directory of the selected Project or Station. These files are used to create the General Information page.

If no files are available, it is possible to:

- Create new ones with the OS/2 editor, or
- Import them with the File → Import action.

Reminder:

The files selected for importing must be:

- ASCII text files (.TXT extension),
- Postscript files (.PSC extension) or Encapsulated Postscript files (.EPS).

Postscript (.PSC) files can be generated in Word 5.0 and Encapsulated Postscript (.EPS) files in Word for Windows (refer to sub-section 4.3).

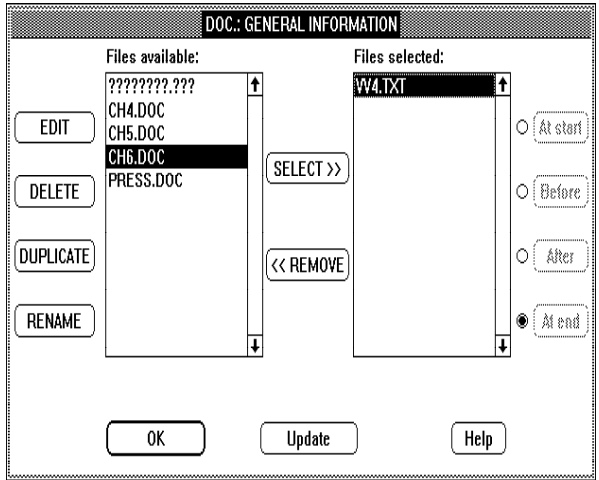
Note: Files with an .EPS extension must be renamed with a .PSC extension.

• **EDIT**

Lets the user create or modify files with the OS/2 text editor. To create a file, select the ????????.??? file and rename it with the editor (refer to the OS/2 documentation for information on how to use the OS/2 text editor).

• **Update**

Once a file is created with the OS/2 text editor, this action lets the user update the "Files available:" list. This ensures that a newly generated file is displayed.



- **DELETE** Deletes the selected file,
- **DUPLICATE** Duplicates the selected file and prompts the user to rename the file,
- **RENAME** Renames the selected file.

• **SELECT>>**

Transfers the selected file from the "Files available:" list to the "Files selected:" list. Only files with a .TXT or .PSC extension can be selected. The position of the files in the right hand list is determined by the buttons that apply to this list (the position of a file in the list determines the order in which it is printed):

- Start, places the file at the top of the list,
- Before, places the file above the previously selected file,
- After, places the file below the previously selected file,
- End, places the file at the end of the list.

• **<<REMOVE**

Transfers the selected file from the "Selected files:" list, to the "Files available:" list. This file is no longer part of the current documentation file.

OK

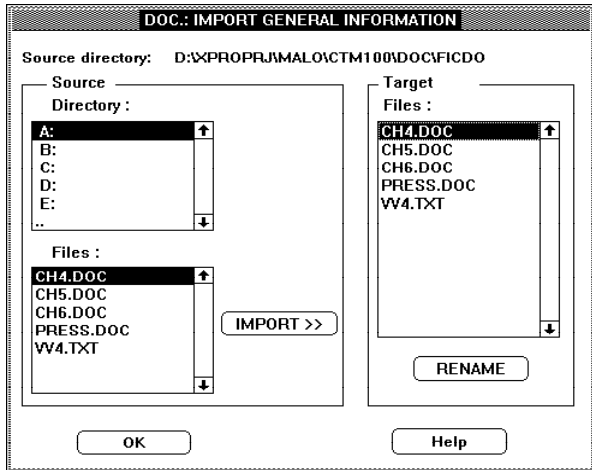
Quits the function and saves the selections made.

Help

Calls-up the on-line help screens.



3.7-3 Import General Information Dialog Box



This dialog box lets the user import Postscript or ASCII text files as files available for General Information from any logical drive and any directory.

The "Source directory: " line displays the current directory,

The "Directory:" list displays all of the logical drives and directories that are accessible.

Double clicking on ".." in the directory list, lets the user return to the next higher level.

By selecting a logical drive, a directory or ".." and clicking on it, it is possible for the user to scan all of the directories available on a logical drive.

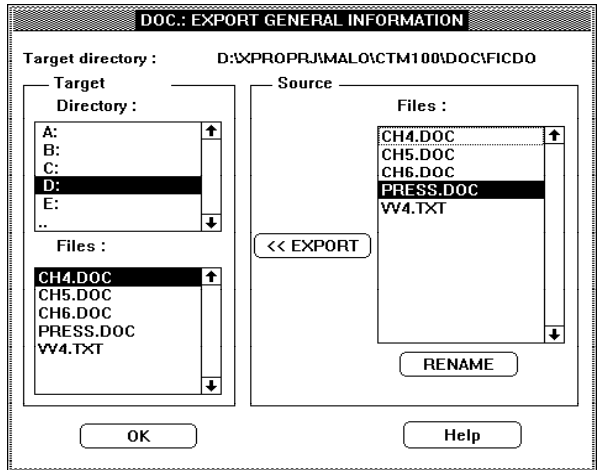
IMPORT>> Copies to the "Target" list one or more selected text files. These files can then be selected from the current directory by the "Configure" action accessed from the General Info icon.

RENAME Renames the file selected from the "Target files" list.

OK Quits the function.

Help Calls-up the on-line help screen.

3.7-4 Export General Information Dialog Box



This dialog box lets the user export copies of files available for General Information to any logical drive and any directory, for use in other applications.

The "Target directory: " line displays the current directory.

The "Directory:" list displays all of the logical drives and directories that are accessible.

Double clicking on ".." in the directory list, lets the user return to the next higher level. By selecting a logical drive, a directory or ".." and clicking on it, it is possible for the user to scan all of the directories available on a logical drive.

<<EXPORT Copies to the "Target" list one or more files selected from the "Source" list.

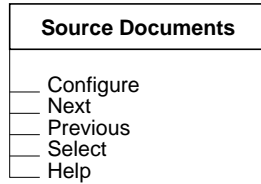
RENAME Renames the file selected from the "Source" list.

OK Quits the function.

Help Calls-up the on-line help screen.

3.8 Source Documents

3.8-1 .DOC Source Files Icon Commands



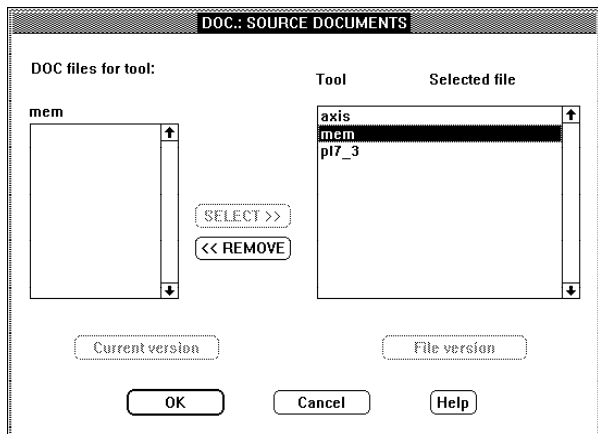
- Configure** Lets the user access the "Source Documents" dialog box.
- Next** Activates the next icon (File icon).
- Previous** Activates the previous icon (General Info. icon).
- Select** Selects the icon.
- Help** Calls-up the on-line help screen.

3.8-2 Source Documents Dialog Box

This dialog box lets the user select PL7-2, PL7-3 (V3, V4 or V5), PL7-AXE, PL7-COM, PL7-NET, PL7-MMI, PL7-PCL, PL7-PMS, PL7-OSI, XTEL-MEM, XTEL-CONF, XTEL-SDBASE, XTEL-MOD, XBTL940 "Source Documents" for integration into the application file.

The list field on the right displays a list of functions and tools available.

The list field on the left displays a list of .DOC files available to the function or tool selected from the list on the right.



SELECT>> Transfers the file selected from the list on the left to the documentation file (list on the right, opposite the appropriate tool).

<<REMOVE Removes the selected file from the list on the right and transfers it to the list on the left. This file is no longer part of the current documentation file.

Current version

Displays the contents of the current documentation file.

File version

Displays the contents of the last documentation file generated.

OK

Quits the function and saves the selections made.

Cancel

Quits the function without saving the selections made.

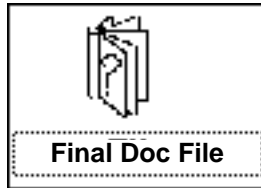
Help

Calls-up the on-line help screen.

Note: All of the .DOC files that are generated by the various tools and functions must use the same language. The same language must also be selected for XTEL-DOC.

3.9 Documentation File

3.9-1 Final Doc File Icon Commands



File	
<input type="checkbox"/>	Access
<input type="checkbox"/>	Generate and Print
<input type="checkbox"/>	Print
<input type="checkbox"/>	Partial Print
<input type="checkbox"/>	Next
<input type="checkbox"/>	Previous
<input type="checkbox"/>	Select
<input type="checkbox"/>	Help

Access	Lets the user access the documentation file access window.
Generate and Print	Lets the user access the "Select paragraphs to generate" dialog box.
Print	Lets the user access the "Select paragraphs to print" dialog box.
Partial Print	Lets the user access the "Select paragraph to print" dialog box.
Next	Activates the next icon (Contents icon).
Previous	Activates the previous icon (.DOC icon).
Select	Selects the icon.
Help	Calls-up the on-line help screen.

3.9-2 Select Paragraphs to Generate Dialog Box

This is the final operation that lets the user generate and, if necessary, print-out the final documentation file, based on the selected configurations and icons.

To access the dialog box, all of the .DOC files that form the various paragraphs declared in the table of contents must already have been selected.

The dialog box will then display a list of all of the sections and paragraphs to generate. The first time generate is selected, all of the paragraphs selected in the table of contents are proposed. Once files have been updated with one of the specialized X-TEL tools, only updated files are proposed.

Any file that is regenerated is incremented by one version level (refer to sub-section 2.3-5).

Initial State

Returns to the selection initially proposed when the icon was first opened.

Select all

Selects all sections and paragraphs.

GENERATE

Starts generation of the final documentation file. A dialog box is displayed to allow the user to identify the modification. The modification can be identified by a comment of up to 30 characters that is displayed in the documentation file update revision list (refer to sub-section 1.3).

GENERATE and PRINT

Links documentation file generation and printing-out.

Cancel

Returns the user to primary window of the mode.

Help

Calls-up the on-line help screen.

Continue

Starts generation of the selected paragraphs and displays a dialog box with a "Stop Generation" button which displays information while file generation is in progress: page name, current processing etc.

Stop

Returns the user to the primary window without starting generation.

DOC.: SELECT PARAGRAPHS TO GENERATE

Select the paragraphs to [re]generate for use in the new file:

- 4 General Information
- 5 Station Configuration
 - 5.1 Configuration header
 - 5.2 I/O configuration
 - 5.3 I/O wiring
 - 5.4 Mnemonics
- 6 PL7 function
 - 6.1 General informations
 - 6.2 Software configuration
 - 6.3 Function blocks
 - 6.4 Configuration of OFB's
 - 6.5 Constant words
 - 6.6 Network informations
 - 6.7 Program
 - 6.8 Program structure
 - 6.9 Grafcet structure

Initial State Select all

GENERATE GENERATE and PRINT Cancel Help

DOC.: MODIFICATION DESCRIPTION

Enter comments in the "modification" field of the new file

Revision file: 01

Author: xtel

Modification description:

Continue Stop Help

Selecting cross-reference generation mode

If the documentation file compares a PL7-3 program paragraph, XTEL-DOC will offer a choice by dialog box.

none

No cross-references are generated.

by symbol

Starts generation and for the PL7-3 program, displays a simplified view of the cross-references as shown below.

complete

Starts generation and for the PL7-3 program, displays a complete view of the cross-references as shown on the next page.

Generate Cross-References

**Cross-References
in paragraph 6.7 "Program" :**

none
 by symbol
 complete

Validate starts generation of the selected paragraphs.

Cancel returns the user to the primary window.


Cross-references "by symbol":

	<pre> Comments X INITIAL STEP ** TRANSITION: X 0 > XM 0 0-460 = START CYCLE I M50 M0 LOAD ** TRANSITION: XM 0 > XM 2 I M02 M50 M2 WEIGH P1 ** TRANSITION: XM 2 > X 1 I End10.MOV Alarm M2 WEIGH P2 I 10,0 : End10 Limit switch 0 B100 : Alarm Alarm Factory 5 2 10 10 X1 MIX ** TRANSITION: X 1 > XM 4 I MOV End17. (No3.No5.MOV Def_som0) M4 FILL I 10,7 : End17 Limit switch 7 03,3 : End17 Emergency stop 3 05,5 : End5 Emergency stop 5 89 : Def_som9 Temperature default: oven 9 1 10 X2 EMPTY ** TRANSITION: X 1 > X 2 I M55 03,5 : M55 Emergency stop 5 1 10 ** TRANSITION: XM 4 > X 2 I M51 </pre>	<p style="text-align: right;"> XREF Pages</p>
<p>Station st_eng</p>		<p>File Revision: 01</p>
<p>TRX 7 PROG: MAST CHART/ PAGE 1 M.K.V</p>		<p>Paragraph Revision: 01</p>
<p>Total Documentation N° : 1206228 91 45</p>		<p>Author: BROWN</p>
<p><small>This document cannot be distributed without permission of Telemecanique.</small></p>		<p>Date: 11/20/92</p>
		<p>Page: 6.7-3</p>

This simplified presentation avoids increasing the number of pages in the program documentation file.

In the PL7-3 program, XTEL-DOC adds the page numbers where the variable is accessed in write mode. This information is displayed opposite the description of the variables and their symbol, and after a "|" separator character. If the variable requires more than 4 or 5 pages of references, XTEL-DOC prints the numbers of the pages around the current page and before or after these numbers prints a specific character (" $<$ " or " $>$ ") to indicate that the sequence of cross-references is incompletely printed-out.

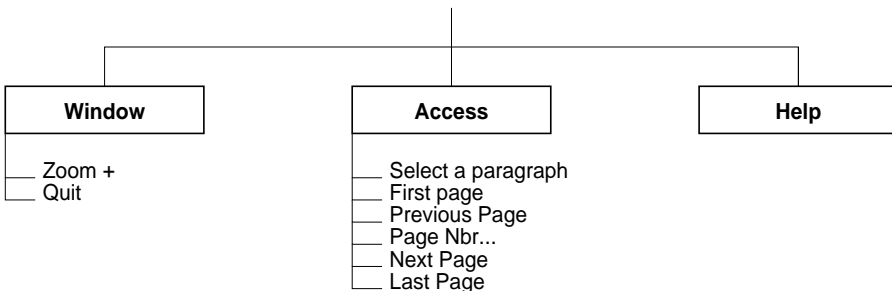
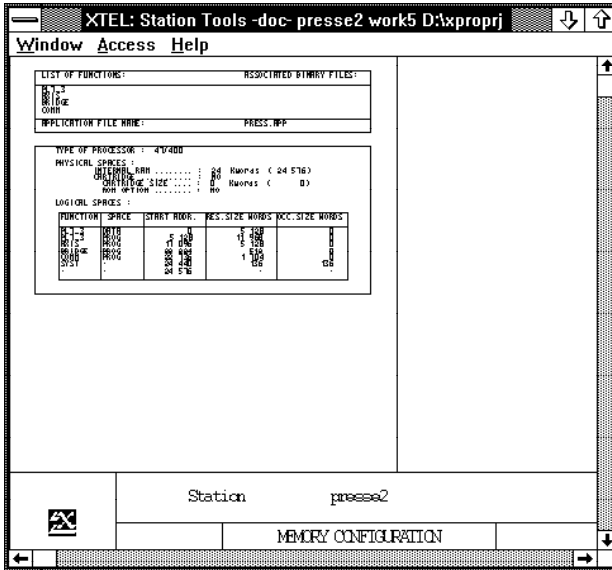
Complete cross-references:

<pre> <Control oven 1 1160 :IF Def_tem1_Red11 MESS DEF Es1 B1 : Def_tem1 Temperature default oven 1 R1_1 : Eut11 Limit switch 1 OS,1 : Es1 Emergency stop 1 <Control oven 2 1190 :IF Def_tem2_Red11 MESS DEF Es2 B2 : Def_tem2 Temperature default oven 2 R2_1 : Eut11 Limit switch 1 OS,2 : Es2 Emergency stop 2 <Control oven 3 1180 :IF Def_tem3_Red11 MESS DEF Es3 B3 : Def_tem3 Temperature default oven 3 R3_1 : Eut11 Limit switch 1 OS,3 : Es3 Emergency stop 3 <Control oven 4 1110 :IF Def_tem4_Red11 MESS DEF Es4 B4 : Def_tem4 Temperature default oven 4 R4_1 : Eut11 Limit switch 1 OS,4 : Es4 Emergency stop 4 <Load setpoint values 1120 :\$Setp_0[0]->M00[0] M00 : Setp_0 Setpoint N°0 <Monitoring factory 5 1130 :IF Def_tem5+Def_tem4+Def_tem3+Def_tem2+Def_tem1+Def_tem0 MESS DEF Alarm B0 : Def_tem0 Temperature default oven 0 B1 : Def_tem1 Temperature default oven 1 B2 : Def_tem2 Temperature default oven 2 B3 : Def_tem3 Temperature default oven 3 B4 : Def_tem4 Temperature default oven 4 B5 : Def_tem5 Temperature default oven 5 B6 : Def_tem6 Temperature default oven 6 B00 : Alarm Alarm factory 5 <Check temperature 1140 :IF M00[0]1001 MESS DEF Es5 M0 : M00[0] Channel 0 measurement OS,5 : Es5 Emergency stop 5 </pre>	<table border="1"> <thead> <tr> <th>VARIABLE</th> <th>MNEMO</th> <th>PAGE</th> <th>VARIABLE</th> <th>MNEMO</th> <th>PAGE</th> <th>VARIABLE</th> <th>MNEMO</th> <th>PAGE</th> </tr> </thead> <tbody> <tr> <td>E2</td> <td>Def tem2</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R100</td> <td>Alarm</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OS,1</td> <td>Es1</td> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OS,2</td> <td>Es2</td> <td>17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OS,3</td> <td>Es3</td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OS,4</td> <td>Es4</td> <td>19</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OS,5</td> <td>Es5</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M0</td> <td>M000[0]</td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M100</td> <td>.....</td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	VARIABLE	MNEMO	PAGE	VARIABLE	MNEMO	PAGE	VARIABLE	MNEMO	PAGE	E2	Def tem2	8							R100	Alarm	15							OS,1	Es1	16							OS,2	Es2	17							OS,3	Es3	18							OS,4	Es4	19							OS,5	Es5	20							M0	M000[0]	13							M100	13									14									15						
VARIABLE	MNEMO	PAGE	VARIABLE	MNEMO	PAGE	VARIABLE	MNEMO	PAGE																																																																																																					
E2	Def tem2	8																																																																																																											
R100	Alarm	15																																																																																																											
OS,1	Es1	16																																																																																																											
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Serial	Documentation	N° : 1206220 91 45 Page: 6, 7-15																																																																																																											

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This presentation doubles the number of pages in the PL7-3 paragraph. It prints-out the Ladder Diagram program on the left half-page and the Literal program or Grafcet on the right-half page: 3 tables of three columns, comprising all of the variables that appear in the left-half page, printed in alphabetical order. The first column comprises the name of the variable, the second column the mnemonic assigned to it and the third column, the reference of the pages where the variable is accessed in write mode.

3.9-3 Access Window



This window lets the user display the contents of the documentation file. Before this screen can be accessed, the user must first ensure that the Courier font is installed in the system (refer to sub-section 4.2).

Window menu

Zoom+

Displays the page currently being accessed either in large scale (Zoom active) or so that the entire page can be displayed on-screen (zoom not active).

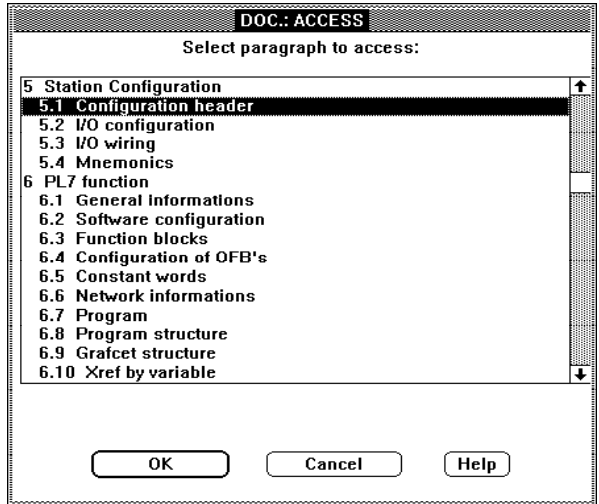
Quit

Quits the Access window.

Access menu

Select a paragraph

Lets the user access the Access dialog box. This dialog box is used to select the paragraph to access.



First page

Access to the first page of the paragraph to display.

Previous Page

Access to the page before the one currently being displayed.

Page Nbr...

Direct access to the page specified by its number.

Next Page

Access to the page after the one currently being displayed.

Last Page

Access to the last page of the paragraph to display.

Help

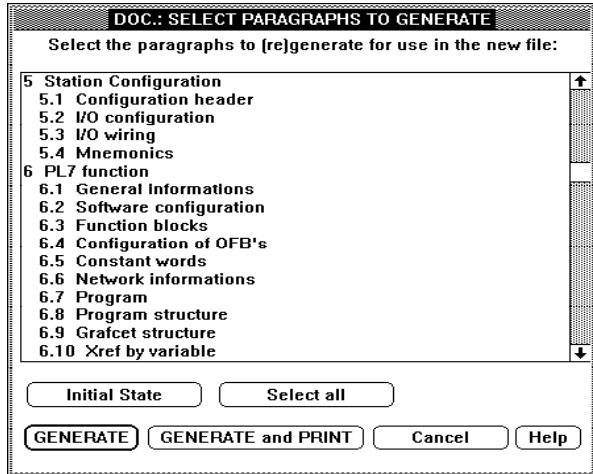
Calls-up the on-line help screen.

3.9-4 Select Paragraphs to Generate Dialog Box

This dialog box displays the table of contents of the final documentation file, with the following display attributes:

- Dimmed: Paragraphs that are not present in the documentation file,
- White on black: Paragraphs to print first to ensure an up to date documentation file.

Select paragraphs to generate.



Initial State

Returns the user to the selection displayed when the icon was first selected.

Select all

Selects all sections and paragraphs.

GENERATE

Generates the documentation file.

GENERATE and PRINT

Generates and prints the documentation file.

Cancel

Returns the user to the previous window.

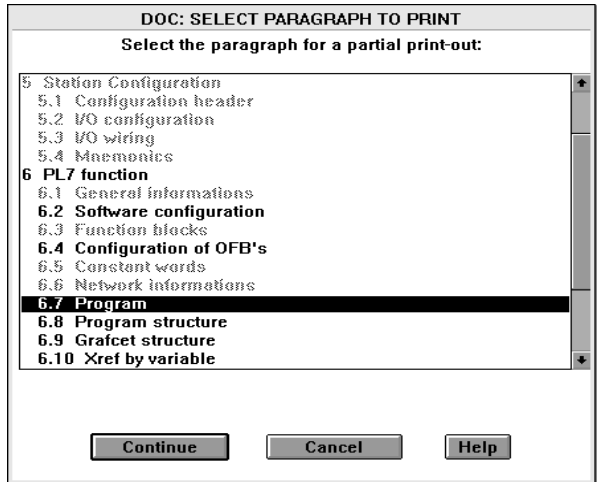
Help

Calls-up the on-line help screen.

3.9-5 Select Paragraph to Print Dialog Box

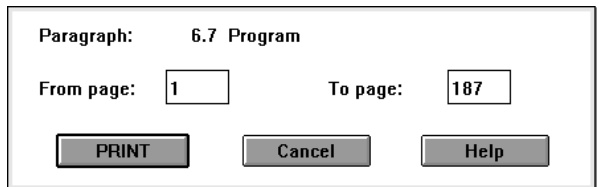
The Dialog box displays the table of contents for the final documentation file with any paragraphs that do not exist in the documentation shown dimmed.

Select a paragraph for a partial print-out.



Continue

Lets the user access the dialog box shown below allowing the user to select pages in the paragraph to print-out.



Select the pages to print.

PRINT

Prints the selected pages.

Cancel

Returns the user to the previous window.

Help

Calls-up the on-line help screen.

3.10 Error Messages

"Are you sure you want to replace xxxx ?"

Probable cause	Remedial action
----------------	-----------------

The user is asked to confirm the replacement of xxxx by the result of the Copy command.

"Cannot find the .DOC files for tool xxxx."

Probable cause	Remedial action
----------------	-----------------

The directory indicated in the description of Tool/Station xxxx cannot be accessed.

"CAUTION: Error in file xxxx to import."

Probable cause	Remedial action
----------------	-----------------

File xxxx could not be imported.

Check that the file is not protected.

"CAUTION: File not deleted: xxxx."

Probable cause	Remedial action
----------------	-----------------

File xxxx selected for deletion could not be deleted.

Check that it is not write protected or open in an application in another session.

"CAUTION: File not duplicated: xxxx."

Probable cause	Remedial action
----------------	-----------------

File xxxx entered as the target file for duplication could not be created.

Check that there is not already a file xxxx that is write protected or open in an application in another session.

"CAUTION: file xxxx does not exist."**Probable cause**

The General Information file xxxx referred to by the Copy command no longer exists.

Remedial action**"CAUTION: file xxxx not renamed."****Probable cause**

File xxxx entered as the new name of the renamed file could not be created.

Remedial action

Check that there is not already a file xxxx that is write protected or open in an application in another session.

"CAUTION: File xxxx will be overwritten."**Probable cause**

The name entered for the resulting file (xxxx) corresponds to an existing file.

Remedial action

Change the filename.

"CAUTION: Only files *.TXT or *.PSC can be selected."**Probable cause**

The selected file does not have a .TXT or .PSC extension.

Remedial action

Rename the file so that it takes one of these extensions, depending on its type (Text or Postscript) or select another file.

"CAUTION: operation impossible, not enough room on the disk"**Probable cause**

There is not enough space on the volume containing the Project/Station where XTEL-DOC is running to perform the operation.

Remedial action

Release enough space on the selected volume.

"CAUTION: operation impossible, not enough room on the disk"

Probable cause

There is not enough space on the target disk.

Remedial action

Clear enough space from the target disk.

"CAUTION: operation impossible, not enough room on the disk"

Probable cause

There is not enough space on the volume containing the Project/Station where XTEL-DOC is running to perform the operation.

Remedial action

Release enough space on the selected volume.

"CAUTION: operation impossible. Refer to file: xxxx."

Probable cause

The command cannot be executed with file xxxx as target.

Remedial action

Check that:

- The syntax of xxxx corresponds to the filename,
- File xxxx is not write protected.

"CAUTION: Operation impossible, same path xxxx."

Probable cause

It is not possible to import or export to and from the space that already contains the General Information files.

Remedial action

Select another path.

"DOC file : xxxx is invalid"

Probable cause

Remedial action

Check that:

- this file is in semi-graphic format,
- that it was generated in the same language as XTEL-DOC.

F

"Drive xxxx access not available"

Probable cause	Remedial action
The contents of drive xxxx are: <ul style="list-style-type: none"> • not formatted or • unreadable 	

"Error: Proprietary font xxxx not found. Access terminated."

Probable cause	Remedial action
No .DLL file in path XPROSYS\DLL.	Reinstall XTEL-DOC.

"Error: Public font xxxx not found. Access terminated."

Probable cause	Remedial action
Font xxxx is not installed.	Install and add font xxxx using the OS/2 control panel, refer to sub-section 4.2.

"Error while reading index list."

Probable cause	Remedial action
One of the files assigned to paragraph xxxx was modified.	Regenerate the paragraph.

"Error while reading page: xxxx or index: yyyy file."

Probable cause	Remedial action
The files assigned to paragraph xxxx were modified.	Regenerate the paragraph.

"Execution Error: Initialization Impossible."

Probable cause	Remedial action
XTEL-DOC cannot determine the tools or functions installed for the current Station or Project where it is running.	Reinstall XTEL-DOC

"Execution Error on xxxx."

Probable cause

An error occurred while running .DLL file xxxx.

Remedial action

Use another Project/Station to check if the same problem occurs with the same Tool/Function combination. If so, reinstall XTEL-DOC.

"File xxxx selected for Tool/Function xxxx does not exist."

Probable cause

File xxxx previously selected by Tool/Function xxxx, no longer exists in the .DOC file space assigned to this Tool/Station.

Remedial action

Replace or select another .DOC file.

"Footer list error. Stop printing?"

Probable cause

The Project/Station footer is incoherent.

Remedial action

Reconfigure the footer. If the message persists, check the installation of XTEL-DOC.

"Footer not found."

Probable cause

The Project/Station footer or the type of footer was not found.

Remedial action

Reconfigure the footer. If the message remains, check for correct XTEL-DOC installation.

"Impossible to export, drive xxxx is write protected"

Probable cause

The target drive for the export action is write protected.

Remedial action

Remove write protection.

"Impossible to paste: files do not exist."

Probable cause	Remedial action
The space where General Information was stored and referenced by the Copy command is no longer present.	The original XTEL-DOC tool was removed from the system.

"Impossible to start: not enough room on the disk"

Probable cause	Remedial action
Not enough space left on the disk/ volume containing the Project/Station that XTEL-DOC is run from.	Leave at least 30 Kbytes free space.

"Incompatible buffer: Nothing pasted."

Probable cause	Remedial action
There is an incompatibility between the elements selected for the Copy command and the elements selected for the Paste command.	Select compatible elements.

"Load error on xxxx."

Probable cause	Remedial action
An error occurred while loading .DLL file xxxx.	Use another Project/Station to check if the same problem occurs with the same Tool/Function combination. If so the .DLL file was modified and XTEL-DOC must be reinstalled.

"Memory allocation error on font loading."

Probable cause	Remedial action
There is not enough memory available to load the font.	Release memory by closing other applications. If necessary, quit XTEL-DOC then restart it again later.

"Not enough room on the disk"

Probable cause	Remedial action
----------------	-----------------

For each paragraph to generate, a test is made to ensure that there is at least enough space for the .DOC file of the related tool.

Clear extra space on the Disk/Volume that contains the Project/Station from which XTEL-DOC is run, before the file can be generated.

"Paragraph page and index files not found: xxxx"

Probable cause	Remedial action
----------------	-----------------

The files assigned to paragraphs xxxx are no longer accessible.

Regenerate the paragraph.

"Read error in general information file xxxx."

Probable cause	Remedial action
----------------	-----------------

File xxxx, that contains the list of files selected to make up the General Information paragraph was damaged.

Reselect the files that for the paragraph.

"Tool/Function xxxx not loaded."

Probable cause	Remedial action
----------------	-----------------

The Tool or Function xxxx is not loaded and therefore not documented in XTEL-DOC. The paragraphs related to it are therefore not included in the contents.

Remove and reinstall this Tool/Function.

"Update error."

Probable cause	Remedial action
----------------	-----------------

An error occurred while updating the internal structure of XTEL-DOC.
A file may have remained open due to a generating error.

Generate the file again. If the error persists, reinitialize the entire file.



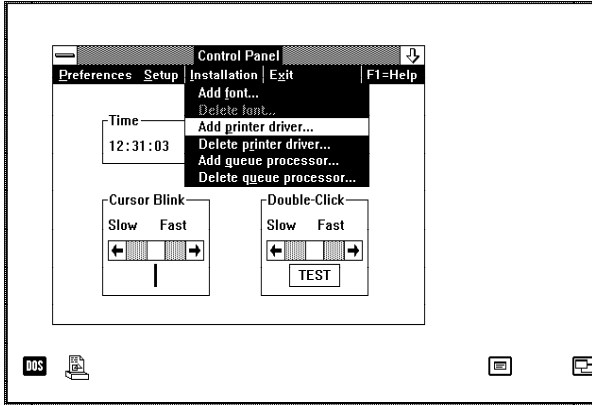
Sub-section	Page
4.1 Printer Driver Installation and Configuration	4/2
4.1-1 Printer Driver Installation for OS/2 1.2/1.3	4/2
4.1-2 Printer Driver Configuration for OS/2 1.2/1.3	4/4
4.1-3 Printer Driver Installation for OS/2 2.1	4/6
4.1-4 Printer Driver Configuration for OS/2 2.1	4/6
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4.2 Courier Font Installation	4/7
4.2-1 For OS/2 1.2/1.3	4/7
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4.3 Generating Text Files in Word 5.0 or Word for Windows	4/9
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4.4 Storing Documentation Files on Diskette	4/10

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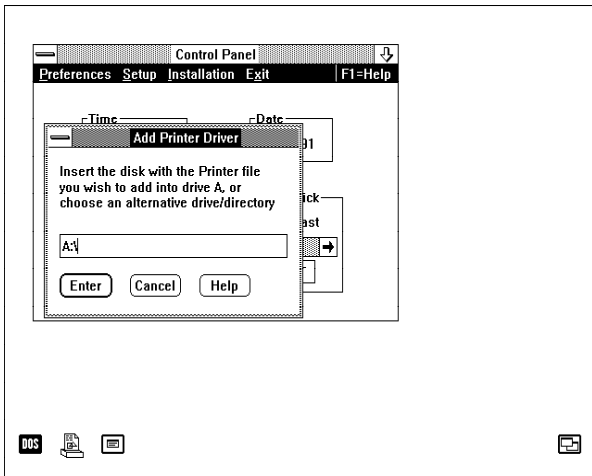
4.1 Printer Driver Installation and Configuration

4.1-1 Printer Driver Installation for OS/2 1.2/1.3

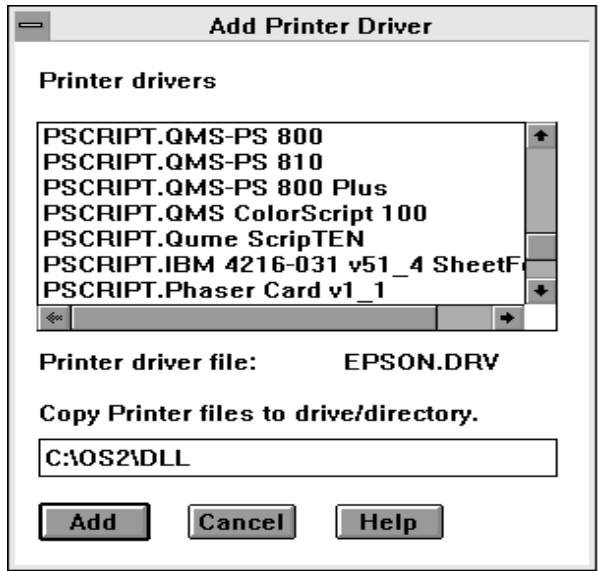
- Open the Desktop Manager window and select the Utilities Group,
- From the Utilities Group menu, select the Control Panel,
- From the Control Panel, select the Installation menu,
- Select the Add Printer Driver action which displays the screen shown below:



- Insert the printer driver diskette,
- Select the Enter button to list all of the printer drivers available on the diskette.



- Select the printer driver required,
- Select the Add button.



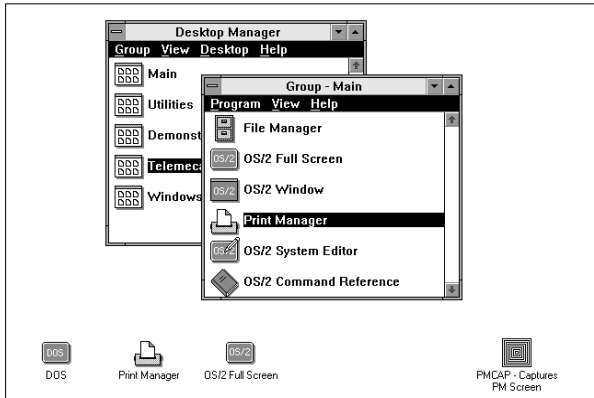
- If the printer driver is already present on the hard disk, the following screen is displayed:



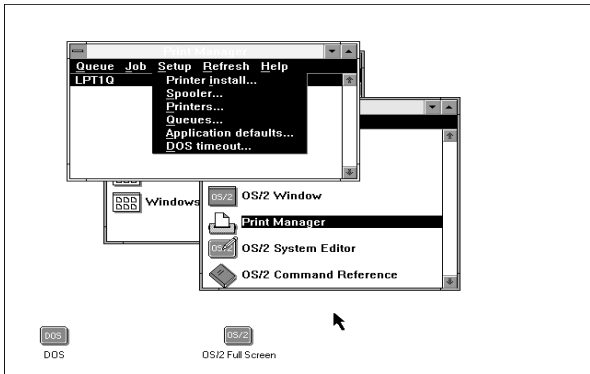
- * Select **Yes** to replace the existing version or **No** to add the newly selected printer driver without replacing the previous version.

4.1-2 Printer Driver Configuration for OS/2 1.2/1.3

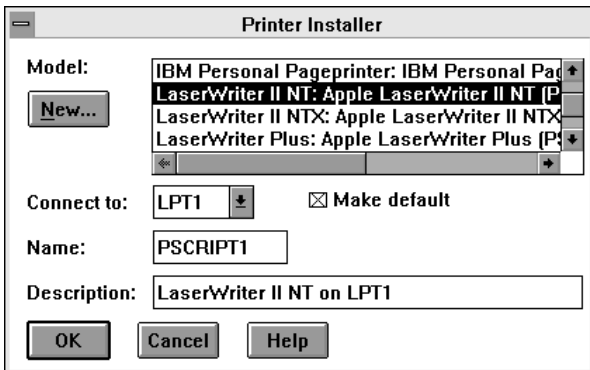
- Select the Print Manager by double clicking on its icon,



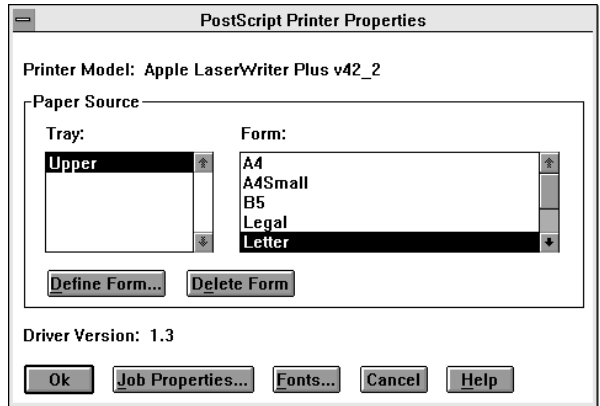
- Select Setup, then select Printer install,



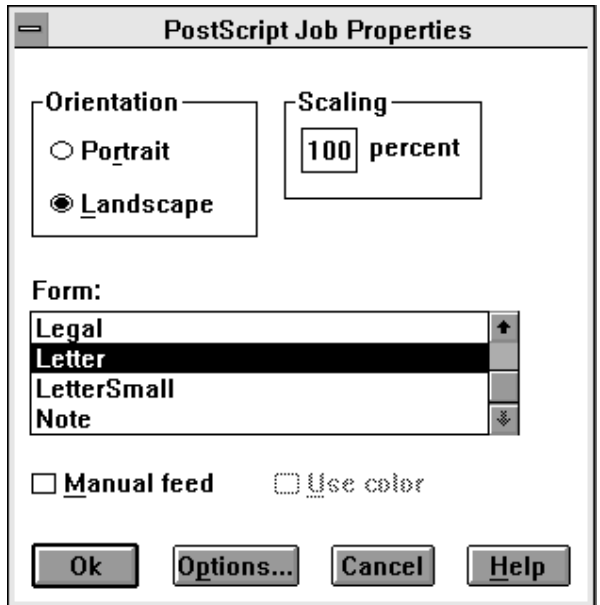
- Select the appropriate printer driver for the Postscript printer to be used,
- Select port LPT1 and assign a name to the printer,
- Click on OK to confirm.



- Select the options shown opposite,
- Click on the Job Properties button,



- Select the options shown opposite,
- Click on Ok to confirm.



4.1-3 Printer Driver Installation for OS/ 2.1

Refer to the OS/2 Version 2.1 User's Guide, Section 16 - Printers and Plotters.

4.1-4 Printer Driver Installation for OS/2 2.1

The parameters defined for a printer driver are known as printer characteristics and define the hardware configuration of the printer. The parameters to select are listed below:

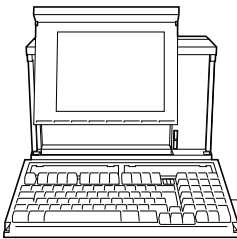
- Paper format : A4 ,
- Presentation : Landscape
- Scale : 100%,
- Font : Courier.

To define the printer characteristics, refer to the OS/2 Version 2.1 User's Guide, Section 16 - Printers and Plotters.

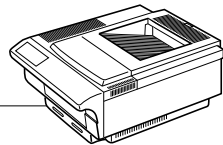
Note:

If the results obtained when printing are not satisfactory (shifted page layout, etc.), refer to the OS/2 Version 2.1 User's Guide, Section 28 - "Printing Errors" paragraph.

4.1-5 Example



FTX 507



QMS PS 810

Microcomputer

Telemecanique T FTX 507 55 11E microcomputer with:

- 120 MB hard disk,
- 8 MB RAM memory.

Printer

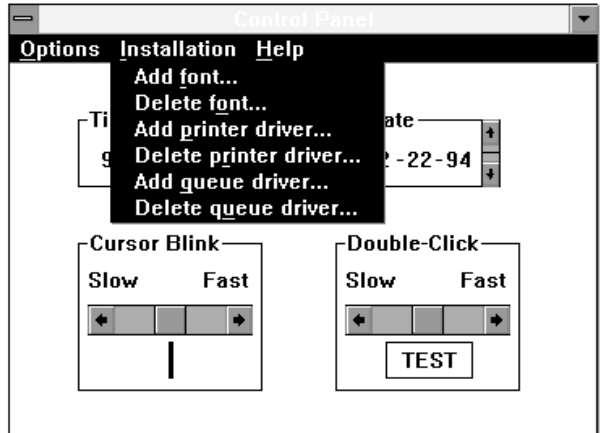
QMS PS 810 Postscript laser printer.

The FTX 507/Printer interface uses the parallel ports on the two devices. The printer is set-up as described in Sub-section 3.2-5.

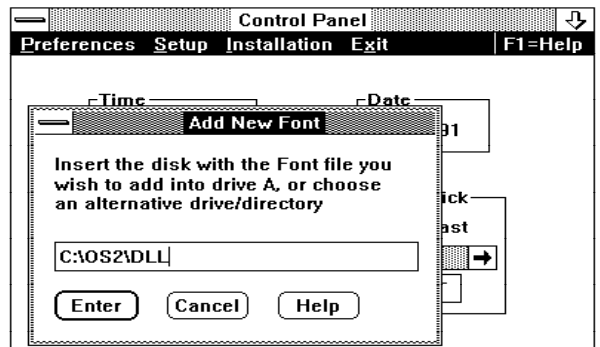
4.2 Courier Font Installation

4.2-1 For OS/2 1.2/1.3

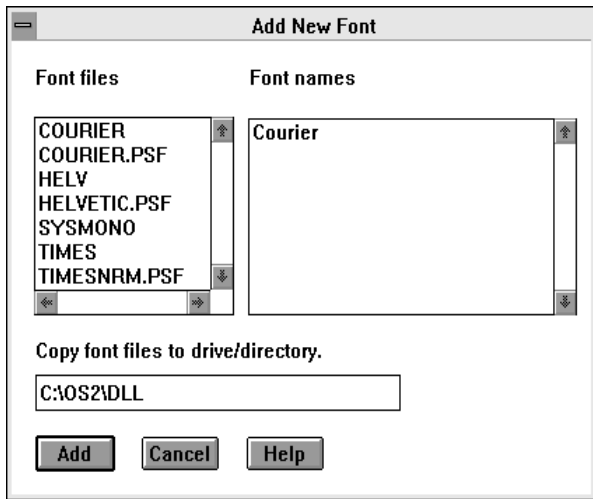
- Open the Desktop Manager window and select the Utilities Group,
- From the Utilities Group menu, select the Control Panel,
- From the Control Panel, select the Installation menu,
- Select the Add Font action which displays the screen shown below:



- Insert the printer driver diskette,
- Select the Enter button to list all of the fonts available on the diskette.



- Select the file with the courier font from the list displayed.
- Select **Add**.



4.2-2 For OS/2 2.1

If the courier font was not installed when OS/2 2.1 was installed, proceed as described below:

- Select the "**OS/2**" icon,
- Select the "**System Configuration**" icon,
- Select the "**Custom Installation**" icon,
 - Skip the first screen by selecting **OK**,
 - From the second screen, select "**Fonts**" and click on the "**Next**" button,
 - Insert the OS/2 2.1 installation diskette and follow the instructions.

4.3 Generating Text Files in Word 5.0 or Word for Windows

In order to integrate Postscript (.PSC) files generated with Microsoft Word 5.0 or Encapsulated Postscript (.EPS) files generated with Microsoft Word for Windows into XTEL-DOC General Information paragraphs, select the following page layout values from the Word 5.0 Format Division Margins menu:

- To select A4 Landscape (i.e. Horizontal) format:
 - Page length = 21 cm
 - Page width = 29.7 cm
- To avoid exceeding the correct page size and to leave room for the footer:
 - Top margin ≥ 0 cm
 - Bottom margin ≥ 5 cm
 - Left margin + Gutter ≥ 2 cm
 - Right margin ≥ 2 cm
 - Even/Odd margins: No

In Word 5.0 select "Postscra" from the Output Options menu in order to generate a Postscript file that can be used by XTEL-DOC.

Note:

If styles are used to format the document, ensure that they are present before printing the file to disk.

4.4 Storing Documentation Files on Diskette

To store XTEL-DOC documentation files, the context must be stored too (especially when managing different documentation file versions).

Backing-up and Restoring a Project to/from a diskette in X-TEL:

The complete procedure for backing-up and restoring a project to/from a disk are described in the X-TEL Software Workshop documentation (TXT DM XTEL V5E), Divider C, Sub-section 3.2-2.

Backing-up a Station to a diskette:

- First identify the directories where the required Station files are stored,
- Open a full-screen OS/2 session,
- Type **BACKUP**

BACKUP D:\XPROPRJ\project_name\station_name A:/F/S

Note: /F is not required if the inserted diskettes are already formatted.

Once the command has been executed, copy to a diskette the:

- station_name.sta file.

E.g.: COPY D:\XPROPRJ\project_name\station_name.sta A:

Restoring a Station from a diskette:

- First identify the directories where the required Station files are stored,
- Open a full-screen OS/2 session,
- Type **RESTORE**

RESTORE A: D:\XPROPRJ\project_name\station_name/S

Once the command has been executed, restore from the diskette the:

- station_name.sta file.

E.g.: COPY A: D:\XPROPRJ\project_name\station_name.sta

Backing-up and Restoring a Project to/from a diskette in MINI X-TEL:

The complete procedure for backing-up and restoring a project to/from a disk are described in the MINI X-TEL Software Workshop documentation (TXT DM BJR V5E), Divider C, Sub-section 1.2-7 and 1.2-8.