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## **Tractors and machinery for agriculture and forestry — Serial control and communications data network —**

### **Part 6: Virtual terminal**

*Tracteurs et machines agricoles et forestiers — Réseaux de commande  
et de communication de données en série —*

*Partie 6: Terminal virtuel*



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## Contents

	Page
Foreword .....	xiii
Introduction.....	xv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions .....	1
4 Technical requirements .....	5
4.1 Overview.....	5
4.2 Operator input and control.....	7
4.3 Acoustic alarm.....	9
4.4 Coordinate system .....	9
4.5 Display areas .....	9
4.5.1 General .....	9
4.5.2 Data Mask.....	9
4.5.3 Soft Key Mask area and Soft Key designators.....	9
4.6 Behaviour .....	13
4.6.1 Object pools.....	13
4.6.2 Working Sets.....	13
4.6.3 Multiple Visually Similar Working Sets .....	15
4.6.4 Displayed Working Set number .....	16
4.6.5 Language, formats and measurement units selection .....	16
4.6.6 Initialization.....	17
4.6.7 System Shutdown .....	18
4.6.8 Working Set object and active masks.....	20
4.6.9 Connection management.....	22
4.6.10 Updating the operator interface.....	25
4.6.11 Special objects .....	25
4.6.12 Relative X/Y positions.....	30
4.6.13 Overlaid objects.....	31
4.6.14 Alarm handling .....	32
4.6.15 Clipping .....	33
4.6.16 Scaling.....	34
4.6.17 Operator input.....	34
4.6.18 Soft Key and Button activation.....	37
4.6.19 Font rendering .....	38
4.6.20 Object Rendering Accuracy, Quality and VT Developer Freedom .....	47
4.6.21 Filling output shape objects.....	48
4.6.22 Events.....	49
4.6.23 Touch screens and pointing devices .....	50
4.6.24 Proprietary Means .....	51
4.6.25 VT Number .....	51
4.6.26 Packet Padding.....	51
4.7 Displaying Data from Multiple Working Sets on One Mask .....	51
4.7.1 General .....	51
4.7.2 User-Layout Data Mask.....	52
4.7.3 Window Mask object .....	53
4.7.4 Window Mask content.....	53
4.7.5 Window Cell Size and Borders.....	55
4.7.6 Window Mask Scaling.....	55
4.7.7 Using Window Masks Outside of User-Layout Data Masks.....	56

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4.7.8	User-Layout Soft Key Mask .....	56
4.7.9	Key Group Objects .....	57
4.7.10	Key Cell Size and Borders .....	58
4.7.11	Key Group Scaling.....	58
4.7.12	Using Key Group Objects outside of User-Layout Soft Key Masks .....	58
4.7.13	Operator Inputs .....	59
4.7.14	Refreshing On Screen Data .....	59
4.7.15	Look and Feel.....	60
4.7.16	Uploading New Window Mask and Key Group objects .....	61
Annex A	(normative) Object, event, colour and command codes .....	63
A.1	Object types .....	63
A.1.1	General.....	63
A.1.2	Nomenclature .....	65
A.1.3	Object relationships .....	66
A.2	Event types.....	68
A.3	VT standard colour palette .....	70
A.4	Command/parameter code summary .....	72
Annex B	(normative) Object definitions .....	78
B.1	Working Set object .....	78
B.2	Data Mask object.....	81
B.3	Alarm Mask object .....	83
B.4	Container object.....	86
B.5	Soft Key Mask object.....	88
B.6	Key object.....	89
B.7	Button object.....	91
B.8	Input field objects .....	95
B.8.1	General.....	95
B.8.2	Input Boolean object .....	97
B.8.3	Input String object .....	98
B.8.4	Input Number object.....	101
B.8.5	Input List object .....	104
B.9	Output field objects .....	108
B.9.1	General.....	108
B.9.2	Output String object .....	109
B.9.3	Output Number object.....	110
B.9.4	Output List object .....	113
B.10	Output shape objects .....	115
B.10.1	General.....	115
B.10.2	Output Line object .....	115
B.10.3	Output Rectangle object .....	118
B.10.4	Output Ellipse object.....	120
B.10.5	Output Polygon object .....	123
B.11	Output graphic objects .....	125
B.11.1	General.....	125
B.11.2	Output Meter object.....	125
B.11.3	Output Linear Bar Graph object .....	129
B.11.4	Output Arched Bar Graph object .....	133
B.12	Picture Graphic object .....	137
B.12.1	General.....	137
B.12.2	Picture Graphic object raw data format and compression .....	139
B.13	Variable objects .....	139
B.13.1	General.....	139
B.13.2	Number Variable object.....	140
B.13.3	String Variable object.....	140
B.14	Attribute objects .....	141
B.14.1	General.....	141
B.14.2	Font Attributes object .....	141
B.14.3	Line Attributes object.....	143

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B.14.4	Fill Attributes object .....	145
B.14.5	Input Attributes object .....	147
B.14.6	Extended Input Attributes object .....	148
B.15	Object Pointer object .....	151
B.16	Macro object .....	151
B.17	Colour Map object .....	152
B.18	Graphics Context object .....	154
B.19	Window Mask object .....	158
B.19.1	General .....	158
B.19.2	Window Mask Window Types .....	163
B.20	Key Group object.....	182
B.21	Object Label Reference List object .....	184
B.22	External Object Definition object.....	185
B.23	External Reference NAME object.....	186
B.24	External Object Pointer object .....	187
B.25	Animation object .....	188
Annex C	(normative) Object transport protocol.....	192
C.1	Virtual terminal messages and object transfer .....	192
C.2	Building object pools .....	192
C.2.1	General .....	192
C.2.2	Object pool transfer procedure.....	193
C.2.3	Object pool transfer message.....	194
C.2.4	End of Object Pool message .....	194
C.2.5	End of Object Pool response .....	195
C.2.6	Updating pools at runtime .....	195
Annex D	(normative) Technical data messages.....	197
D.1	General .....	197
D.2	Get Memory message .....	197
D.3	Get Memory response.....	198
D.4	Get Number of Soft Keys message .....	199
D.5	Get Number of Soft Keys response.....	199
D.6	Get Text Font Data message .....	199
D.7	Get Text Font Data response .....	200
D.8	Get Hardware message.....	200
D.9	Get Hardware response .....	201
D.10	Get Supported Widechars message.....	201
D.11	Get Supported WideChars response.....	202
D.12	Get Window Mask Data message .....	203
D.13	Get Window Mask Data response.....	203
D.14	Get Supported Objects message.....	203
D.15	Get Supported Objects response .....	204
Annex E	(normative) Non-volatile memory operations commands .....	205
E.1	General .....	205
E.1.1	Introduction.....	205
E.1.2	Version Management – VT version 4 and prior .....	206
E.1.3	Version Management – VT version 5 and later .....	206
E.2	Get Versions message .....	206
E.3	Get Versions response .....	206
E.4	Store Version command .....	206
E.5	Store Version response .....	207
E.6	Load Version command.....	207
E.7	Load Version response.....	207
E.8	Delete Version command.....	208
E.9	Delete Version response.....	208
E.10	Extended Get Versions message.....	208
E.11	Extended Get Versions response .....	209
E.12	Extended Store Version command.....	209

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E.13	Extended Store Version response .....	209
E.14	Extended Load Version command.....	210
E.15	Extended Load Version response.....	210
E.16	Extended Delete Version command.....	211
E.17	Extended Delete Version response.....	211
<b>Annex F (normative) Command and Macro messages.....</b>		<b>212</b>
F.1	General.....	212
F.2	Hide/Show Object command .....	212
F.3	Hide/Show Object response .....	212
F.4	Enable/Disable Object command.....	213
F.5	Enable/Disable Object response.....	213
F.6	Select Input Object command .....	213
F.7	Select Input Object response .....	214
F.8	ESC command.....	215
F.9	ESC response.....	215
F.10	Control Audio Signal command.....	215
F.11	Control Audio Signal response.....	217
F.12	Set Audio Volume command .....	217
F.13	Set Audio Volume response .....	218
F.14	Change Child Location command.....	218
F.15	Change Child Location response.....	219
F.16	Change Child Position command .....	219
F.17	Change Child Position response .....	219
F.18	Change Size command .....	220
F.19	Change Size response .....	220
F.20	Change Background Colour command.....	220
F.21	Change Background Colour response.....	221
F.22	Change Numeric Value command.....	221
F.23	Change Numeric Value response.....	222
F.24	Change String Value command.....	223
F.25	Change String Value response.....	224
F.26	Change End Point command.....	224
F.27	Change End Point response.....	224
F.28	Change Font Attributes command.....	225
F.29	Change Font Attributes response.....	225
F.30	Change Line Attributes command .....	225
F.31	Change Line Attributes response .....	226
F.32	Change Fill Attributes command .....	226
F.33	Change Fill Attributes response .....	227
F.34	Change Active Mask command.....	227
F.35	Change Active Mask response.....	227
F.36	Change Soft Key Mask command.....	228
F.37	Change Soft Key Mask response.....	228
F.38	Change Attribute command.....	228
F.39	Change Attribute response.....	229
F.40	Change Priority command .....	229
F.41	Change Priority response .....	230
F.42	Change List Item command.....	230
F.43	Change List Item response.....	230
F.44	Delete Object Pool command .....	231
F.45	Delete Object Pool response .....	231
F.46	Lock/Unlock Mask command .....	231
F.47	Lock/Unlock Mask response .....	233
F.48	Execute Macro command .....	233
F.49	Execute Macro response .....	233
F.50	Change Object Label command .....	234
F.51	Change Object Label response.....	234
F.52	Change Polygon Point command .....	235

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F.53	Change Polygon Point response .....	235
F.54	Change Polygon Scale command.....	236
F.55	Change Polygon Scale response.....	236
F.56	Graphics Context command .....	237
F.57	Graphics Context response .....	241
F.58	Get Attribute Value message .....	241
F.59	Get Attribute Value response.....	242
F.60	Select Colour Map command .....	242
F.61	Select Colour Map response .....	243
F.62	Identify VT message.....	243
F.63	Identify VT response .....	244
F.64	Execute Extended Macro command.....	244
F.65	Execute Extended Macro response.....	244
F.66	Unsupported VT Function message.....	245
F.67	VT Unsupported VT Function message .....	245
<b>Annex G (normative) Status Messages .....</b>		<b>246</b>
G.1	General .....	246
G.2	VT Status message.....	246
G.3	Working Set Maintenance message .....	246
<b>Annex H (normative) Activation messages .....</b>		<b>248</b>
H.1	General .....	248
H.2	Soft Key Activation message .....	248
H.3	Soft Key Activation response .....	248
H.4	Button Activation message .....	249
H.5	Button Activation response.....	249
H.6	Pointing Event message .....	250
H.7	Pointing Event response .....	251
H.8	VT Select Input Object message.....	251
H.9	VT Select Input Object response .....	252
H.10	VT ESC message .....	252
H.11	VT ESC response.....	252
H.12	VT Change Numeric Value message .....	253
H.13	VT Change Numeric Value response.....	253
H.14	VT Change Active Mask message .....	253
H.15	VT Change Active Mask response.....	254
H.16	VT Change Soft Key Mask message.....	254
H.17	VT Change Soft Key Mask response .....	255
H.18	VT Change String Value message .....	255
H.19	VT Change String Value response.....	255
H.20	VT On User-Layout Hide/Show message .....	256
H.21	VT On User-Layout Hide/Show response .....	256
H.22	VT Control Audio Signal Termination message .....	257
<b>Annex I (normative) Other messages .....</b>		<b>258</b>
<b>Annex J (normative) Auxiliary control .....</b>		<b>259</b>
J.1	General .....	259
J.2	Auxiliary Inputs.....	259
J.3	Auxiliary controls in multiple VT environments.....	260
J.3.1	General rules.....	260
J.3.2	Primary VT and resolving VT function instance zero .....	260
J.4	Defining auxiliary inputs and functions .....	261
J.4.1	General .....	261
J.4.2	Auxiliary Function Type 1 object .....	261
J.4.3	Auxiliary Function Type 2 object .....	262
J.4.4	Auxiliary Input Type 1 object.....	263
J.4.5	Auxiliary Input Type 2 object.....	264
J.4.6	Auxiliary Function Type 2 types .....	265
J.4.7	Auxiliary Control Designator Type 2 Object Pointer .....	269

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J.5	Automatic Auxiliary Control assignment .....	274
J.6	Manual Auxiliary Control assignment .....	276
J.7	Auxiliary control messages .....	279
J.7.1	General.....	279
J.7.2	Auxiliary Assignment Type 1 command .....	279
J.7.3	Auxiliary Assignment Type 1 response .....	279
J.7.4	Auxiliary Input Type 1 status.....	280
J.7.5	Auxiliary Assignment Type 2 command .....	280
J.7.6	Auxiliary Assignment Type 2 response .....	283
J.7.7	Preferred Assignment command .....	283
J.7.8	Preferred Assignment response .....	286
J.7.9	Auxiliary Input Type 2 Status message.....	287
J.7.10	Auxiliary Input Type 2 Maintenance message.....	288
J.7.11	Auxiliary Input Status Type 2 Enable command .....	289
J.7.12	Auxiliary Input Status Type 2 Enable response .....	290
J.7.13	Auxiliary Capabilities request .....	290
J.7.14	Auxiliary Capabilities response .....	290
J.8	Learn Mode.....	291
Annex K (normative)	Extended transport protocol .....	293
K.1	General.....	293
Annex L (normative)	Character sets .....	294
Bibliography	.....	302



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## Table of Tables

Table 1 — VT Response message behavior.....	15
Table 2 — Working Set state changes (VT Supports only Active Mask) .....	21
Table 3 — Working Set state changes (VT Supports Multiple Working Sets or Window Masks Visible Simultaneously) .....	22
Table 4 — VT behaviour on mask transition .....	33
Table 5 — VT Reaction to navigation and data input events .....	35
Table 6 — VT Behavior When New Window Mask or Key Group Object is Uploaded.....	62
Table A.1 — Virtual terminal objects .....	63
Table A.2 — Allowed hierarchical relationships of objects.....	67
Table A.3 — Event summary.....	69
Table A.4 — Standard VT RGB colour palette.....	70
Table A.5 — Command/parameter summary.....	73
Table B.1 — Working Set events .....	78
Table B.2 — Working Set attributes and record format .....	80
Table B.3 — Data Mask events.....	81
Table B.4 — Data mask attributes and record format.....	82
Table B.5 — Alarm Mask events .....	83
Table B.6 — Alarm Mask attributes and record format .....	85
Table B.7 — Container events .....	86
Table B.8 — Container attributes and record format .....	87
Table B.9 — Soft Key Mask events.....	88
Table B.10 — Soft Key Mask attributes and record format.....	88
Table B.11 — Key events.....	89
Table B.12 — Key attributes and record format.....	90
Table B.13 — Button events.....	92
Table B.14 — Button attributes and record format.....	93
Table B.15 — Input events .....	96
Table B.16 — Input Boolean attributes and record format.....	98
Table B.17 — Input String attributes and record format.....	99
Table B.18 — Input Number attributes and record format .....	102
Table B.19 — Input List events .....	105
Table B.20 — Input List attributes and record format.....	107
Table B.21 — Output field events .....	108
Table B.22 — Output String attributes and record format.....	109
Table B.23 — Output Number attributes and record format .....	111
Table B.24 — Output List events.....	113
Table B.25 — Output List attributes and record format.....	113
Table B.26 — Output Line events .....	116
Table B.27 — Output Line attributes and record format .....	116
Table B.28 — Output Rectangle Events .....	118
Table B.29 — Output Rectangle attributes and record format.....	119
Table B.30 — Output Ellipse events .....	121
Table B.31 — Output Ellipse attributes and record format.....	121
Table B.32 — Output Polygon events .....	124
Table B.33 — Output Polygon attributes and record format.....	124
Table B.34 — Output Meter events.....	127
Table B.35 — Output Meter attributes and record format .....	127
Table B.36 — Output Linear Bar Graph events .....	131
Table B.37 — Output Linear Bar Graph attributes and record format.....	131
Table B.38 — Output Arched Bar Graph events .....	134
Table B.39 — Output Arched Bar Graph attributes and record format .....	135
Table B.40 — Picture Graphic events .....	137
Table B.41 — Picture Graphic attributes and record format .....	137

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Table B.42 — Variable events .....	140
Table B.43 — Number Variable attributes and record format .....	140
Table B.44 — String Variable attributes and record format.....	140
Table B.45 — Font Attributes events.....	141
Table B.46 — Font Attributes attributes and record format.....	142
Table B.47 — Line Attributes events .....	144
Table B.48 — Line Attributes attributes and record format .....	144
Table B.49 — Fill Attributes events .....	146
Table B.50 — Fill Attributes attributes and record format.....	146
Table B.51 — Input Attributes events .....	147
Table B.52 — Input Attributes attributes and record format.....	148
Table B.53 — Extended Input Attributes attributes and record format.....	150
Table B.54 — Object Pointer events .....	151
Table B.55 — Object Pointer attributes and record format.....	151
Table B.56 — Macro attributes and record format .....	152
Table B.57 — Colour Map attributes and record format.....	153
Table B.58 — Graphics Context events .....	156
Table B.59 — Graphics Context attributes and record format .....	157
Table B.60 — Window Mask events.....	159
Table B.61 — Window Mask attributes and record format.....	160
Table B.62 — Key Group events .....	182
Table B.63 — Key Group attributes and record format .....	182
Table B.64 — Object Label Reference List attributes and record format.....	184
Table B.65 — External Object Definition events .....	185
Table B.66 — External Object Definition attributes and record format.....	185
Table B.67 — External Reference NAME events.....	186
Table B.68 — External Reference NAME attributes and record format.....	186
Table B.69 — External Object Pointer events .....	187
Table B.70 — External Object Pointer attributes and record format .....	187
Table B.71 — Animation events .....	189
Table B.72 — Animation attributes and record format .....	190
Table F.1 — Graphic command summary.....	238
Table J.1 — Auxiliary Function Type 1 attributes and record format .....	261
Table J.2 — Auxiliary Function Type 2 attributes and record format .....	262
Table J.3 — Auxiliary Input Type 1 attributes and record format .....	264
Table J.4 — Auxiliary Input Type 2 attributes and record format .....	265
Table J.5 — Auxiliary Function Type 2 types .....	266
Table J.6 — Auxiliary Control Designator Type 2 Object Pointer attributes and record format .....	271
Table J.7 — Auxiliary Control Designator Type 2 Object Pointer examples .....	271
Table J.8 — Set Information .....	291
Table L.1 — ISO 8859-1 (Latin 1) character set.....	294
Table L.2 — ISO 8859-15 (Latin 9) character set.....	295
Table L.3 — ISO 8859-2 (Latin 2) character set.....	296
Table L.4 — ISO 8859-4 (Latin 4) character set.....	297
Table L.5 — ISO 8859-5 (Cyrillic) character set.....	298
Table L.6 — ISO 8859-7 (Greek) character set.....	299
Table L.7 — WideString minimum character set.....	300

This is a preview of "ISO 11783-6:2014". Click here to purchase the full version from the ANSI store.

## Table of Figures

Figure 1 — Virtual terminal — examples.....	6
Figure 2 — Operator input and control means – example .....	8
Figure 3 — Physical Soft Key Orientation Examples showing Key Locations .....	11
Figure 4 — VT virtual Soft Key paging .....	12
Figure 5 — Example VT which displays an active and an inactive Working Set simultaneously .....	21
Figure 6 — Initialization, unexpected shutdown, and expected shutdown .....	24
Figure 7 — Container reuse .....	26
Figure 8 — Container used to hide objects — Example .....	26
Figure 9 — External Object References — VT Example .....	29
Figure 10 — External Object References — Relationship Example .....	30
Figure 11 — Relative and absolute location of objects .....	31
Figure 12 — Object changed or hidden — Display update .....	32
Figure 13 — Clipping examples .....	34
Figure 14 — Graphical Extents of a Character .....	39
Figure 15 — 8 × 10 fonts — Example .....	44
Figure 16 — CR and LF application to test strings .....	46
Figure 17 — Rectangle line suppression and filling examples.....	48
Figure 18 — Ellipse filling examples (Without and with border line art).....	49
Figure 19 — Polygon filling examples (Without and with border line art).....	49
Figure 20 — Displaying data from multiple Working Sets - Example.....	52
Figure 21 — User-Layout Data Mask.....	53
Figure 22 — Window Mask objects - Example.....	54
Figure 23 — Window Mask Border - Example .....	55
Figure 24 — Key Cell layout - Examples.....	56
Figure 25 — User-Layout Data Mask with 6 Key Cells - Example.....	57
Figure 26 — Key object in a Key Group indicating Working Set - Example .....	58
Figure 27 — Key Group Objects outside of User-Layout Data Mask - Example .....	59
Figure A.1 — Bit positions in a bitmask.....	66
Figure B.1 — Button examples with border (Options – Bit 5 = FALSE).....	92
Figure B.2 — Button examples no border (Options – Bit 5 = TRUE).....	92
Figure B.3 — Input Boolean examples.....	97
Figure B.4 — Output Line object showing start and end points using different brush sizes.....	115
Figure B.5 — Output Rectangle object showing end points using different brush sizes.....	118
Figure B.6 — Output Ellipse object .....	120
Figure B.7 — Output Ellipse object – correct and incorrect rendering.....	121
Figure B.8 — Output Polygon types.....	123
Figure B.9 — Output Meter object.....	126
Figure B.10 — Output Meter object — examples.....	129
Figure B.11 — Output Linear Bar Graph — examples.....	130
Figure B.12 — Output Arched Bar Graph object — example .....	134
Figure B.13 — Effect of Line Attribute - example of same line art with different width .....	145
Figure B.14 — Effect of Line Attribute — example pattern: 1010.....	145
Figure B.15 — Colour Map object reverses colours – example.....	153
Figure B.16 — Example drawing with Graphics Context object.....	155
Figure B.17 — Example application of the Graphics Context object and viewport.....	156
Figure C.1 — Object pool variable length record format.....	193
Figure F.1 — Acoustic signal termination.....	216
Figure F.2 — Acoustic signal with multisound.....	216
Figure J.1 — Quadrature non-latching boolean value representation .....	269
Figure J.2 — Examples of Auxiliary Function references on Auxiliary Input unit Data Mask .....	272
Figure J.3 — Example showing expansion of a single assignment designator .....	272
Figure J.4 — Example showing expansion of a multiple assignment designator .....	273

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Figure J.5 — Example showing expansion of Auxiliary Inputs on an Auxiliary Function Data Mask .....	273
Figure J.6 — Typical message sequence to make assignment and later remove assignment .....	278
Figure J.7 — Auxiliary control message flow.....	281
Figure J.8 — Auxiliary assignment screen – example.....	282
Figure J.9 — Permitted remove assignment alternatives .....	283
Figure J.10 — Preferred assignment example .....	286

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 19, *Agricultural electronics*.

This third edition cancels and replaces the second edition (ISO 11783-6:2010) which has been technically revised.

ISO 11783 consists of the following parts, under the general title *Tractors and machinery for agriculture and forestry — Serial control and communications data network*:

- *Part 1: General standard for mobile data communication*
- *Part 2: Physical layer*
- *Part 3: Data link layer*
- *Part 4: Network layer*
- *Part 5: Network management*
- *Part 6: Virtual terminal*
- *Part 7: Implement messages application layer*
- *Part 8: Power train messages*
- *Part 9: Tractor ECU*
- *Part 10: Task controller and management information system data interchange*

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— *Part 11: Mobile data element dictionary*

— *Part 12: Diagnostics services*

— *Part 13: File server*

— *Part 14: Sequence control*

This is a preview of "ISO 11783-6:2014". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

Parts 1 to 14 of ISO 11783 specify a communications system for agricultural equipment based on the ISO 11898 [5] protocol. SAE J 1939 [1] documents, on which parts of ISO 11783 are based, were developed jointly for use in truck and bus applications and for construction and agriculture applications. Joint documents were completed to allow electronic units that meet the truck and bus SAE J 1939 specifications to be used by agricultural and forestry equipment with minimal changes. The specifications for virtual terminals given in this part of ISO 11783 are based on DIN 9684-4 [2]. General information on ISO 11783 is to be found in ISO 11783-1.

The purpose of ISO 11783 is to provide an open, interconnected system for on-board electronic systems. It is intended to enable electronic control units (ECUs) to communicate with each other, providing a standardized system.

All phrases in this document that refer explicitly to a software term for an object or a command shall have the first letter of each object or command word capitalized (e.g. Output Linear Bar Graph object, Change Numeric Value command). This aids in the recognition of these terms as a specific item which has a specific definition in this document.

The International Organization for Standardization (ISO) draws attention to the fact that it is claimed that compliance with this part of ISO 11783 may involve the use of a patent concerning the controller area network (CAN) protocol referred to throughout the document.

ISO takes no position concerning the evidence, validity and scope of this patent.

The holder of this patent has assured ISO that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with ISO. Information may be obtained from:

Robert Bosch GmbH  
Wernerstrasse 51  
Postfach 30 02 20  
D-70442 Stuttgart-Feuerbach  
Germany

Attention is drawn to the possibility that some of the elements of this part of ISO 11783 may be the subject of patent rights other than that those identified above. ISO shall not be held responsible for identifying any or all such patent rights.