SIEMENS

Data sheet

SIMATIC HMI KTP700 Mobile, 7.0" TFT display, 800x 480 pixel, 16m colors, key and touch operation, 8 function keys, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, configurable from WinCC Comfort V13 SP1



General information		
Product type designation	KTP700 Mobile	
Display		
Design of display	TFT widescreen display, LED backlighting	
Screen diagonal	7 in	
Color display	Yes	
Number of colors	16 777 216	
Resolution (pixels)		
 Horizontal image resolution 	800 pixel	
 Vertical image resolution 	480 pixel	
Backlighting		
 MTBF backlighting (at 25 °C) 	50 000 h	
Backlight dimmable	Yes; 0-100 %	
Control elements		
Keyboard fonts		
Function keys		
 Number of function keys 	8	
 Number of function keys with LEDs 	8	
 Keys with LED 	Yes	
 Numeric keyboard 	Yes; Onscreen keyboard	
alphanumeric keyboard	Yes; Onscreen keyboard	
Touch operation		
 Design as touch screen 	Yes	
Design as multi-touch screen	No	
Special operator controls		
 Stop button (forced blocking) 	No	
 Emergency stop button (illuminated and forced blocking) 	No	
 Acknowledgement button (3-stage) 	No	
 Key-operated switch 	No	
Illuminated pushbutton	Yes	
Camera		
integrated camera	No	
Expansions for operator control of the process		
 Direct keys (touch buttons as S7 input I/O) 	32	
Supply voltage		
Type of supply voltage	DC	
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Input current		

Current consumption (rated value)	350 mA
Starting current inrush I²t	0.135 A²·s
Power	
Active power input, typ.	8.5 W
Processor	
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Power LED	No
LED for safe	No
LED for communication	No
LED for battery	No
Vibrations	No
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
retentive	Yes
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	1; USB 2.0
Number of wireless interfaces	0
Number of SD card slots	1
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	No
• CSS	Yes
Active X	No
 JavaScript 	Yes
• Java VM	No
Further protocols	
Further protocols • MODBUS	Yes
	Yes No
• MODBUS	
MODBUS other bus systems	
MODBUS other bus systems communication functions / header	
MODBUS other bus systems communication functions / header Wireless communication	
MODBUS other bus systems communication functions / header Wireless communication supported standards	No

Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
 Limit class B, for use in residential areas 	No
Degree and class of protection	
IP65 (all-round)	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Suitable for safety functions	No
Marine approval	Yes
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	none
SIL acc. to IEC 61508	No
Use in hazardous areas	
ATEX Zone 2	No
ATEX Zone 22	No
• IECEx Zone 2	No
• IECEx Zone 22	No
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	No
FM Class I Division 2	No
Marine approval	
Germanischer Lloyd (GL)	Yes
 American Bureau of Shipping (ABS) 	Yes
Bureau Veritas (BV)	No; Available soon
 Det Norske Veritas (DNV) 	Yes
 Korean Register of Shipping (KRS) 	No
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (Class NK) 	Yes
 Polski Rejestr Statkow (PRS) 	No
Chinese Classification Society (CCS)	No
Ambient conditions	
Free fall	
• Fall height, max.	1.2 m
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Ambient temperature during storage/transportation	
- main	-20 °C
• min.	
• max.	60 °C
max. Relative humidity	60 °C
max.Relative humidityOperation, max.	
max. Relative humidity Operation, max. Operating systems	60 °C
 max. Relative humidity Operation, max. Operating systems pre-installed operating system 	90 %
 max. Relative humidity Operation, max. Operating systems pre-installed operating system Windows CE 	60 °C
max. Relative humidity Operation, max. Operating systems pre-installed operating system Windows CE configuration / header	60 °C 90 % Yes
max. Relative humidity	60 °C 90 % Yes
max. Relative humidity	90 % Yes Yes Yes
max. Relative humidity	90 % Yes Yes Yes Yes
max. Relative humidity	90 % Yes Yes Yes Yes Yes Yes
max. Relative humidity Operation, max. Operating systems pre-installed operating system Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	90 % Yes Yes Yes Yes
max. Relative humidity Operation, max. Operating systems pre-installed operating system Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software	90 % Yes Yes Yes Yes Yes Yes Yes Ye
max. Relative humidity Operation, max. Operating systems pre-installed operating system Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	90 % Yes Yes Yes Yes Yes Yes

WinCC flexible Compact	No
WinCC flexible Standard	No
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	No
 WinCC Comfort (TIA Portal) 	Yes
 WinCC Advanced (TIA Portal) 	Yes
 WinCC Professional (TIA Portal) 	Yes
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	No
Pocket Excel	No
PDF Viewer	Yes
Media Player	No
Niedla Player SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit Number of Visual Regio Seriete	Yes
Number of Visual Basic Scripts	Yes
Task planner	V
• time-controlled	Yes
• task-controlled	Yes
Help system	
Number of characters per info text	500
Multiproject	
Number of projects (internal)	0
N	
Number of projects (external)	0
Message system	
Message system • Number of alarm classes	32
Message system • Number of alarm classes • Bit messages	32
Message system • Number of alarm classes • Bit messages — Number of bit messages	
Message system • Number of alarm classes • Bit messages	32
Message system • Number of alarm classes • Bit messages — Number of bit messages	32
Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages	32 4 000
Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages	32 4 000 200
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure	32 4 000 200 Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK,	32 4 000 200 Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	32 4 000 200 Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message	32 4 000 200 Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message	32 4 000 200 Yes Yes Yes 80 8
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups	32 4 000 200 Yes Yes Yes Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator	32 4 000 200 Yes Yes Yes Yes Yes Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Number of process values per message • Acknowledgment groups • Message indicator • Message buffer	32 4 000 200 Yes Yes Yes Yes Yes Yes 80 8 Yes Yes
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Number of process values per message • Acknowledgment groups • Message indicator • Message buffer — Number of entries	32 4 000 200 Yes Yes Yes Yes Yes 80 8 Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer	32 4 000 200 Yes Yes Yes Yes Yes 80 8 Yes Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive	32 4 000 200 Yes Yes Yes Yes 1 024 Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free	32 4 000 200 Yes Yes Yes Yes 1 024 Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes	32 4 000 200 Yes Yes Yes Yes Yes 80 8 Yes Yes Yes Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe	32 4 000 200 Yes Yes Yes Yes Yes 1 024 Yes Yes Yes Yes Yes Yes Yes Yes
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record	32 4 000 200 Yes Yes Yes Yes 1 024 Yes Yes Yes Yes Yes 1 000 300 500 1 000
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory	32 4 000 200 Yes Yes Yes Yes 80 8 Yes Yes Yes Yes 1 024 Yes Yes Yes Yes Yes Yes Yes Yes Yes You Multiply Multip
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable	32 4 000 200 Yes Yes Yes Yes Yes 1 024 Yes Yes Yes Yes Yes 1 000 1 000
Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables	32 4 000 200 Yes Yes Yes Yes Yes 80 8 Yes Yes Yes 1 024 Yes
Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device	32 4 000 200 Yes Yes Yes Yes Yes 1 024 Yes Yes Yes Yes Yes Yes Yes Yes Yes 2 048
Number of alarm classes Bit messages — Number of bit messages — Number of analog messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen	32 4 000 200 Yes Yes Yes Yes Yes 1 024 Yes Yes Yes Yes Yes 2 048 400
Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Number of process values per message Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — maintenance-free Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device	32 4 000 200 Yes Yes Yes Yes Yes 1 024 Yes

Structures	Yes
Arrays	Yes
mages	
 Number of configurable images 	500
 Permanent window/default 	Yes
Global image	Yes
 Image selection by PLC 	Yes
 Image number in the PLC 	Yes
mage objects	
Number of objects per image	400
Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
Switches	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	100
Number of complex objects per screen	20
Alarm view	Yes
• Trend view	Yes
User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view ((a) to a division.)	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	No
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	
Number of text lists per project	500
Number of text lists per projectNumber of entries per text list	500 500
 Number of text lists per project Number of entries per text list Number of graphics lists per project 	500 500 500
 Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list 	500 500
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving	500 500 500 500
 Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list 	500 500 500 500
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive	500 500 500 500 50 50 20 000
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive	500 500 500 500 50 20 000 Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive	500 500 500 500 500
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Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Process value archive Archiving methods	500 500 500 500 50 20 000 Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive	500 500 500 500 500 50 20 000 Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive	500 500 500 500 500 50 20 000 Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location	500 500 500 500 50 20 000 Yes Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card	500 500 500 500 50 20 000 Yes Yes Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory	500 500 500 500 50 20 000 Yes Yes Yes Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods Sequential archive Short-term archive Memory location Memory card USB memory Ethernet	500 500 500 500 50 20 000 Yes Yes Yes Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location — Memory card — USB memory — Ethernet Data storage format	500 500 500 500 50 20 000 Yes Yes Yes Yes Yes Yes Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location — Memory card — USB memory — Ethernet Data storage format — CSV — TXT	500 500 500 500 500 500 50 20 0000 Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location — Memory card — USB memory — Ethernet Data storage format — CSV	500 500 500 500 500 500 50 20 000 Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location — Memory card — USB memory — Ethernet Data storage format — CSV — TXT — RDB Security	500 500 500 500 500 50 20 000 Yes Yes Yes Yes Yes Yes Yos Yes Yes Yes Yes
Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location — Memory card — USB memory — Ethernet Data storage format — CSV — TXT — RDB Security Number of user groups	500 500 500 500 500 50 20 000 Yes
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Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Message archive Process value archive Archiving methods — Sequential archive — Short-term archive Memory location — Memory card — USB memory — Ethernet Data storage format — CSV — TXT — RDB Security Number of user groups	500 500 500 500 500 50 20 000 Yes

Logging through printer	V
• Alarms	Yes
Report (shift log)	Yes
Hardcopy	No
Electronic print to file	No
Character sets	
 Keyboard fonts 	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	No
• USB	No
• Ethernet	Yes
Wireless LAN	No
using external storage medium	Yes; Backup/restore
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes; WinAC RTX
SINUMERIK	Yes
• SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
● Allen Bradley (DF1)	No
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	No
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	No
 Modicon (Modbus TCP/IP) 	Yes
Modicon (Modbus)	No
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	Yes
 Simulation 	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Network camera	Yes
Additional software components loadable	Yes; SIMATIC options
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
Aluminum	No
Stainless steel	No
Weights	
Weight (without packaging)	1.2 kg
Weight (with packaging)	1.3 kg

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