



 *NEN-EN 54-13 Certificaat*
Penta 5000 en Penta 6000



Certificate of Conformity

No: 202330018/AA/00

Telefication declares that the listed product complies with the Technical standards and specifications as indicated under Annex 2 of this certificate.

Product description: **Penta 6000 Serie**
Trademark: **Penta**
Type designation: **6000**
Hardware / Software version: **- / -**
Variants: **See Annex 3**

Manufacturer: **Advanced Electronics**
Address: **Balliol Business Park**
City: **NE12 8EW Newcastle upon Tyne**
Country: **United Kingdom**

This certificate is granted to:

Name: **Hertek B.V.**
Address: **Copernicusstraat 8**
City: **6003 DE Weert**
Country: **The Netherlands**

This certificate has THREE Annexes.

Zevenaar, 23 July 2020



Bernard Meijer
Project manager



Remarks and observations

The following conditions are applicable:

The following products have been involved in the compatibility assessment, as detailed in chapter "1.3 Scope of assessment" of assessment report 200301385-001 (Ver. 2.00):

CIE

Fire Panels

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X		NLHMx-5101M	Penta 5100 NL Panel	1
X		NLHMx-5402L	Penta 5400 NL Panel	1
X		NLHMx-5402-SPR	Penta 5400 NL Sprinkler panel	1
X		NLHMx-5804/FT	Penta 5800 NL Panel	1
X		NLHMx-5030/FT	Penta 5030 NL RCT (fault tolerant)	1
	X	NLHMx-6101M	Penta 6100 NL Panel	1
	X	NLHMx-6402L	Penta 6400 NL Panel	1
	X	NLHMx-6402-SPR	Penta 6400 NL Sprinkler panel	1
	X	NLHMx-6804/FT	Penta 6800 NL Panel	1
	X	NLHMx-6030/FT	Penta 6030 NL RCT (fault tolerant)	1
X	X	NLHMXP-554-BX/FT	Penta 5000 NL IPgateWay	1
X	X	MXP-510-BX/FT	Penta 5000 BMS/graphics interface (fault tolerant)	1
	X	NLHMXP-545/FT	Penta PENN module	1
X	X	NLMXP-045/FT	Penta 50 way network I/O (fault tolerant)	1
X	X	NLHMx-4015	Penta Evacuation Control Panel (fault tolerant)	1

Panel Expansions & Peripherals

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	MXP-512	Penta Internal printer	1
X	X	MXP-509	Penta 5000/6000 Fault tolerant networkcard	1
X		MXP-502	Penta 5000 Loop driver card (XP95, Discovery)	1
X	X	MXP-568	Penta 5000/6000 Loop driver card (XP95, Discovery, Core)	1
X	X	MXP-505	Penta 5000/6000 Alarm circuit Active EOL	1
X	X	MXP-507	Penta 5000/6000 2-way relay card (plug-on)	1
X	X	MXP-532	Penta 5000/6000 Fire Protection / Fire Routing interface card	1
X	X	MXP-506	Penta 5000/6000 Standardized termination I/F card	1
X	X	MXP-547	Penta 5000/6000 ESPA I/F Card	1
X	X	MXP-501	Remote temperature sensor	1
X	X	MXP-513-001	Penta Led extender card 50-Red	1
X	X	MXP-513-002	Penta Led extender card 25-Yellow/25-Red	1
X	X	MXP-513-003	Penta Led extender card 50-Yellow	1
X	X	MXP-513R-050CRY	Penta Led extender card 5x10 Red/Yellow	1
X	X	MXP-522	LED interface module	1
X	X	MXP-523	LED interface adapter	1

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	MXP-034	Penta 4 way programmable sounder peripheral card	1
X	X	MXP-035	Penta 4 way programmable relay peripheral card	1
X	X	MXP-536	Penta 8 way zone monitor peripheral card	1
X	X	MXP-537	Penta 10 way switch input peripheral card	1
X	X	MXP-538	Penta 16-Way Switch / 48 Led Card	1
X	X	MXP-539	Penta 16-Way Input / 48 Output Card	1
X	X	Mxp-544	Penta 5000/6000 8-Way Relay peripheral Card	1

External PSU's

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	MXS-049	Penta 1,5A PSU caged unit only	1
X	X	MXP-049	Penta 1.5A EN54 PSU in 7AH Enclosure	1
X	X	MXS-050	Penta 3,0A PSU caged unit only	1
X	X	MXP-050-002	Penta 3.0A EN54 PSU in 17AH Enclosure	1
X	X	MXS-051	Penta 5,0A PSU caged unit only	1
X	X	MXP-051/D	Penta 5.0A EN54 PSU in 38AH Enclosure	1

Addressable Point Detectors (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-620APO	XP95 Optical Smoke Detector	1
X	X	55000-660APO	XP95 Optical Detector - Black	1
X	X	55000-420APO	XP95 Heat Detector Standard	1
X	X	55000-401APO	XP95 Heat Detector High Temperature	1
X	X	55000-022APO	XP95 Intelligent Base Mounted UV Flame Detector	1
X	X	55000-023APO	XP95 Intelligent Base Mounted UV/IR2 Flame Detector	1
X	X	55000-024APO	XP95 Intelligent Base Mounted IR3 Flame Detector	1
X	X	58000-500APO	Discovery Ionisation Smoke Detector	1
X	X	58000-600APO	Discovery Optical Smoke Detector	1
X	X	58000-400APO	Discovery Heat Detector	1
X	X	58000-700APO	Discovery Multisensor Detector	1
X	X	58000-300APO	Discovery CO Fire Detector	1
X	X	58000-305APO	Discovery CO/Heat Multisensor	1
X	X	SA5100-600APO	Soteria Optical Smoke Detector	1
X	X	SA5100-400APO	Soteria Heat Detector	1
X	X	SA5100-700APO	Soteria Multisensor Detector	1
X	X	FL5100-600APO	Soteria Dimension flush mount optical detector	1
X	X	FL6100-600APO	Soteria Dimension Specialist flush mount optical detector	1

Detector bases for Addressable Point Detectors (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	45681-210APO	XP95 Mounting Base	1
X	X	45681-361APO	XP95 Base-Black	1
X	X	45681-284APO	XP95 Isolating Base (20D)	1
X	X	45681-242APO	XP95 Low Power Relay Base	1

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PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	SA5000-200APO	XPRT 8 Intelligent Mounting Base	1
X	X	SA5000-202APO	XPRT 8 Intelligent Mounting Base Red	1
X	X	FL5000-200APO	Soteria Dimension detector base	1

Standalone Isolators (connected to Apollo loop)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-720APO	XP95 Isolator	1
X	X	45681-211APO	XP95 Isolator Base	1
X	X	55000-802APO	XP95 DIN Rail Dual Isolator	1

Addressable Manual Call point (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	SA5900-908APO	Intelligent Manual Call Point with Isolator - Red (Surface)	1
X	X	SA5900-903APO	Intelligent White Manual Call Point	1
X	X	SA5900-904APO	Intelligent Yellow Manual Call Point	1
X	X	SA5900-905APO	Intelligent Blue Manual Call Point	1
X	X	SA5900-906APO	Intelligent Green Manual Call Point	1
X	X	58200-951APO	Discovery Waterproof Manual Call Point with Isolator - Red	1
X	X	58200-953APO	Discovery Waterproof Manual Call Point with Isolator - Yellow	1

Addressable Detectors (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-268APO	XP95 Intelligent Reflective Beam Detector (50m)	1
X	X	55000-273APO	XP95 Intelligent Reflective Beam Detector (100m)	1
X	X	55000-280APO	XP95 Intelligent IR2 Flame Detector	1
X	X	55000-295APO	XP95 Intelligent IR2 Flame Detector Flameproof	1
X	X	55000-020APO	XP95 Intelligent IR3 Flame Detector	1
X	X	55000-021APO	XP95 Intelligent Flameproof IR3 Flame Detector	1

Addressable Input / Output interfaces (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-852APO	XP95 Sounder Control Unit with Isolator (new 5 Amp version)	1
X	X	55000-182APO	XP95 DIN Rail Sounder Control Unit 5 Amperes	1
X	X	55000-845APO	XP95 Zone Monitor Unit with Isolator	1
X	X	55000-812APO	XP95 DIN Rail Zone Monitor with Isolator	1
X	X	55000-760APO	Mini Switch Monitor (new version)	1
X	X	55000-797APO	XP95 DIN Rail Mains Input/Output Unit	1
X	X	55000-588APO	XP95 Three Channel Input/Output Unit with Isolator	1

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	SA4700-100APO	Intelligent Switch Monitor Unit	1
X	X	SA4700-102APO	Intelligent Input/Output Unit	1
X	X	SA4700-302APO	Intelligent DIN-Rail Input/Output Unit	1
X	X	SA4700-300APO	Intelligent DIN-Rail Switch Monitor	1
X	X	SA4700-103APO	Intelligent Mains Switching Input/Output Unit	1
X	X	SA4700-104APO	Intelligent Twin Input/Output Unit	1
X	X	SA6700-100APO	Intelligent Twin Switch Monitor	1

Addressable Sounders (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	45681-290	XP95 Integrated Base Sounder Slow Whoop with Isolator	1
X	X	45681-300	XP95 Integrated Base Sounder DIN tone with Isolator	1
X	X	55000-001APO	XP95 Intelligent Open-Area Sounder Red (Sonos)	1
X	X	55000-002APO	XP95 Intelligent Open-Area Sounder White (Sonos)	1
X	X	55000-278APO	XP95 Multi Tone Open Area Sounder Red	1
X	X	55000-279APO	XP95 Multi Tone Open Area Sounder White	1
X	X	58000-010APO	Discovery Open Area Voice Sounder with isolator Red	1
X	X	58000-020APO	Discovery Open Area Voice Sounder with isolator White	1
	X	SA5500-300APO	Soteria Open Area Sounder Red	1
	X	SA5501-300APO	Soteria Open Area Sounder White	1
	X	SA5300-300APO	Soteria base sounder	1

Addressable Sounders – Beacon combination (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-293APO	XP95 Multi-Tone Open Area Sounder Beacon Red with Isolator	1
X	X	55000-294APO	XP95 Multi-Tone Open Area Sounder Beacon White with Isolator	1
X	X	55000-298APO	XP95 Weatherproof MultiTone Open Area Sounder Beacon Red with Isolator	1
X	X	55000-299APO	XP95 Weatherproof MultiTone Open Area Sounder Beacon White with Isolator	1
X	X	55000-005APO	XP95 Intelligent Open-Area Sounder Beacon Red (Sonos)	1
X	X	45681-393APO	Discovery Sounder Beacon Base with Isolator	1
X	X	58000-005APO	Discovery Open-Area Sounder Beacon Red	1
X	X	58000-007APO	Discovery Open-Area Sounder Beacon White	1
X	X	58000-030APO	Discovery Open Area Voice Sounder beacon with isolator Red	1
X	X	58000-040APO	Discovery Open Area Voice Sounder beacon with isolator White	1
	X	SA5500-351APO	Soteria Open Area Sounder Visual Indicator Red - Red flash	1
	X	SA5500-350APO	Soteria Open Area Sounder Visual Indicator Red - White flash	1

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X		SA5501-351APO	Soteria Open Area Sounder Visual Indicator White - Red flash	1
X		SA5501-350APO	Soteria Open Area Sounder Visual Indicator White - White flash	1
X		SA5300-351APO	Soteria Base Sounder Visual Indicator Red Flash	1
X		SA5300-350APO	Soteria Base Sounder Visual Indicator White Flash	1

Addressable Beacons (Apollo protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	45681-333APO	XP Loop Powered Beacon Base with Isolator	1
X	X	55000-877APO	XP95 Loop-Powered Beacon Red	2
X	X	55000-878APO	XP95 Loop-Powered Beacon Clear	2
X	X	55000-879APO	XP95 Loop-Powered Beacon Amber	2
X	X	55000-009APO	XP95 Intelligent Open-Area Beacon Red (Sonos)	2
X	X	55000-010APO	XP95 Intelligent Open-Area Beacon White (Sonos)	2
	X	SA5501-321APO	Soteria Open-Area Visual Indicator Red Flash	1
	X	SA5501-320APO	Soteria Open-Area Visual Indicator White Flash	1
	X	SA5300-321APO	Soteria Base Visual Indicator Red Flash	1
	X	SA5300-320APO	Soteria Base Visual Indicator White Flash	1

Addressable Intrinsically Safe Barrier and Protocol translators (Apollo Protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-855APO	XP95 Protocol Translator (Single)	1
X	X	55000-856APO	XP95 Protocol Translator (Dual)	1

Addressable Intrinsically Safe Point Detectors (Apollo Protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-540APO	XP95 I.S. Ionisation Smoke Detector	1
X	X	55000-640APO	XP95 I.S. Optical Smoke Detector	1
X	X	55000-440APO	XP95 I.S. Heat Detector	1

Addressable Intrinsically Safe Detector Base for Point Detectors (Apollo Protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	45681-215APO	XP95 I.S. Mounting Base	1

Addressable Intrinsically Safe Manual Callpoints (Apollo Protocol)

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55100-940APO	XP95 I.S. EN54 I.S. MCP	1

Conventional Detectors

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	22310.01.R	FireRay 5000 reflective beam	1
X	X	3000-101	FireRay 3000 reflective beam	1

Conventional Point Detectors

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	55000-317APO	Series 65 Optical Smoke Detector Standard	1
X	X	55000-217APO	Series 65 Ionisation Smoke Detector Standard	1
X	X	55000-122APO	Series 65 A1R Heat Detector Standard	1
X	X	55000-127APO	Series 65 BR Heat Detector Standard	1
X	X	55000-132APO	Series 65 CR Heat Detector Standard	1
X	X	55000-137APO	Series 65 CS Heat Detector Standard	1
X	X	ORB-OP-12001-APO	Orbis Optical Detector	1
X	X	ORB-OH-13001-APO	Orbis Multisensor Detector	1
X	X	ORB-HT-11001-APO	Orbis Class A1R Heat Detector	1
X	X	ORB-HT-11002-APO	Orbis Class A2S Heat Detector	1
X	X	ORB-HT-11003-APO	Orbis Class BR Heat Detector	1
X	X	ORB-HT-11004-APO	Orbis Class BS Heat Detector	1
X	X	ORB-HT-11005-APO	Orbis Class CR Heat Detector	1
X	X	ORB-HT-11006-APO	Orbis Class CS Heat Detector	1

Detector bases for Conventional Point Detectors

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	45681-245APO	Standard Relay Base Series 65	1
X	X	45681-200APO	Series 65 Standard Base	1
X	X	ORB-MB-00001-APO	Orbis TimeSaver Base	1
X	X	ORB-RB-10004-APO	Orbis TimeSaver Relay Base	1

Conventional Sounders

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	ROLP/R/S	RoLP Shallow Base Red DC	1
X	X	ROLP/R/D	RoLP Deep Base Red DC	1
X	X	ROLP/R/U	RoLP U Base Red DC	1
X	X	ROLP/GW/U	RoLP U base Gent White	1
X	X	ROLP/GW/D	RoLP Shallow Base Gent White	1
X	X	ROLP/GW/S	RoLP Deep Base Gent White	1
X	X	ROLPX/R/S	RoLP Maxi Shallow Base Red DC	1
X	X	ROLPX/R/D	RoLP Maxi Deep Base Red DC	1
X	X	ROLPX/R/U	RoLP Maxi U Base Red DC	1
X	X	ROLPX/GW/U	RoLP Maxi U base Gent White	1
X	X	ROLPX/GW/D	RoLP Maxi Deep Base Gent White	1
X	X	ROLPX/GW/S	RoLP Maxi Shallow Base Gent White	1
X	X	SY/R	Symphoni Sounder Red	1
X	X	SY/W	Symphoni Sounder White	1
X	X	SY/IP/R	Symphoni Sounder Red / IP66 Version	1
X	X	SY/IP/W	Symphoni Sounder White / IP66 Version	1

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	SYHO/R	Symphoni High Output Sounder Red	1
X	X	SYHO/W	Symphoni High Output Sounder White	1
X	X	SYHO/R/IP	Symphoni High Output Sounder Red / IP66 Version	1
X	X	SYHO/W/IP	Symphoni High Output Sounder White / IP66 Version	1
X	X	SYV/R/V+ VP001ASY	Symphoni Voice plus sounder Red	1
X	X	SYV/W/V+ VP001ASY	Symphoni Voice plus sounder, White	1
X	X	SYV/R/IP/V+ VP001ASY	Symphoni Voice plus sounder Red, IP66	1
X	X	SYV/W/IP/V+ VP001ASY	Symphoni Voice plus sounder, White, IP66	1
X	X	SYV/AV/R/RL/RF/V+ VP001ASY	Symphoni AV Voice plus sounder Red	1
X	X	SYV/AV/W/CL/R/V+ VP004ASY	Symphoni AV Voice plus sounder, White	1
X	X	SYV/AV/R/IP/V+ VP001ASY	Symphoni AV Voice plus sounder Red IP66	1
X	X	SYV/AV/W/IP/V+ VP001ASY	Symphoni AV Voice plus sounder, White IP66	1

Conventional Sounder-Beacon combinations

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	ROLP/SB/RL/R/S	Rolp - Solista, Red Body, Red LED Beacon, Shallow base Red	1
X	X	ROLP/SB/RL/R/D	Rolp - Solista, Red Body, Red LED Beacon, Deep base Red	1
X	X	ROLP/SB/RL/R/U	Rolp - Solista, Red Body, Red LED Beacon, U base Red	1
X	X	ROLP/SB/RL/GW/S	Rolp - Solista, Gent White Body, Red LED Beacon, U base	1
X	X	ROLP/SB/RL/GW/D	Rolp - Solista, Gent White Body, Red LED Beacon, Shallow base	1
X	X	ROLP/SB/RL/GW/U	Rolp - Solista, Gent White Body, Red LED Beacon, Deep base	1
X	X	ROLPX/SB/RL/R/S	Rolp Maxi - Solista, Red Body, Red LED Beacon, Shallow base Red	1
X	X	ROLPX/SB/RL/R/D	Rolp Maxi - Solista, Red Body, Red LED Beacon, Deep base Red	1
X	X	ROLPX/SB/RL/R/U	Rolp Maxi - Solista, Red Body, Red LED Beacon, U base Red	1
X	X	ROLPX/SB/RL/GW/S	Rolp Maxi - Solista, Gent White Body, Red LED Beacon, Shallow base	1
X	X	ROLPX/SB/RL/GW/D	Rolp Maxi - Solista, Gent White Body, Red LED Beacon, Deep base	1
X	X	ROLPX/SB/RL/GW/U	Rolp Maxi - Solista, Gent White Body, Red LED Beacon, U base	1
X	X	SYAV/RL/R	Symphoni AV Red Lens Red Body	1
X	X	SYAV/CL/W	Symphoni AV Clear Lens (red flash) White Body	1
X	X	SYAV/RL/R/IP	Symphoni AV Red Lens Red Body IP66	1
X	X	SYAV/CL/W/IP	Symphoni AV Clear Lens (red flash) White Body IP66	1

Conventional Beacons

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	SO/R/SR/3	Solex beacon red lens, red shallow base, 3Cd	1
X	X	SO/R/DR/3	Solex beacon red lens, red deep base, 3Cd	1
X	X	SO/A/SW/3	Solex beacon amber lens, white shallow base, 3Cd	1
X	X	SO/A/DW/3	Solex beacon amber lens, white deep base, 3Cd	1
X	X	SO/C/SW/3C	Solex beacon clear lens, white shallow base, 3Cd	1
X	X	SO/B/SW/3C	Solex beacon blue lens, white shallow base, 3Cd	1
X	X	SO/R/SR/10	Solex beacon red lens, red shallow base, 10Cd	1
X	X	SO/R/DR/10	Solex beacon red lens, red deep base, 10Cd	1
X	X	SO/A/SW/10	Solex beacon amber lens, white shallow base, 10Cd	1
X	X	SO/A/DW/10	Solex beacon amber lens, white deep base, 10Cd	1
X	X	SO/B/SW/10C	Solex beacon blue lens, white shallow base, 10Cd	1
X	X	SO/C/SW/10C	Solex beacon clear lens, white shallow base, 10Cd	1
X	X	SO/G/SW/10	Solex beacon green lens, white shallow base, 10Cd	1
X	X	SO/R/SR/15	Solex beacon red lens, red shallow base, 15Cd	1
X	X	SO/R/DR/15	Solex beacon red lens, red deep base, 15Cd	1
X	X	SO/A/SW/15	Solex beacon amber lens, white shallow base, 15Cd	1
X	X	SO/A/DW/15	Solex beacon amber lens, white deep base, 15Cd	1
X	X	SO/B/DW/15C	Solex beacon blue lens, white deep base, 15Cd	1
X	X	SO/C/DR/15C	Solex beacon clear lens, red deep base, 15Cd	1

Conventional Intrinsically Safe Sounders

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	BEXS120D24DC	BExS120 Explosion Proof Flare Horn Alarm Sounder	1
X	X	BEXS110DFDC024AB1A1R	BExS110 Explosion Proof Alarm Horn Sounder	1
X	X	IS-MA1-R	IS-mA1 IS-minialarm	1

Alarm transmitter

PENTA 5000	PENTA 6000	Product ID	Description	Classification*
X	X	22-7005-PRO-T2	Connect intelligent SPT - LAN/3G	1

* Classification options:

- Component type 1: device performing EN54-1 defined functionality
- Component type 2: other types of devices connected to component type 1

Documentation lodged for this Certificate of Conformity

Test Reports:

- Telefication B.V.: 200301385-001 (Ver. 2.00), 22 July 2020

Product Documentation:

Technical Standards and Specifications

The product shows no non-compliances with:

EN 54-13:2017 + A1:2019

October, 2019

Applied Standards

Not Applicable



The product as described in this certificate includes the following type designations:

- | | |
|------------------------|------------------|
| - Product description: | Penta 6000 Serie |
| - Trademark: | Penta |
| - Type designation: | 6000 |
| - Hardware version: | - |
| - Software version: | - |
| | |
| - Product description: | Penta 5000 Serie |
| - Trademark: | Penta |
| - Type designation: | 5000 |
| - Hardware version: | - |
| - Software version: | - |

Oplossingen



Voordelen



Voor elke situatie
de juiste oplossing



Advies op
maat



Persoonlijke
benadering



Altijd
bereikbaar

Expert in veiligheid, welzijn,
continuïteit voor mensen
en bedrijfsmiddelen in
gebouwen

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