


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 UKAS CALIBRATION 0720 Accredited to ISO/IEC 17025:2005	Rhopoint Metrology Limited Issue No: 030 Issue date: 08 February 2018	
	Eurolab House Unit 10 Valepits Road Garretts Green Industrial Estate Birmingham B33 0TD	Contact: Dean Hughes Tel: +44 (0)121 784 7498 Fax: +44 (0)121 783 6031 E-Mail: dean.hughes@rhpointmetrology.co.uk Website: www.rhpointmetrology.co.uk

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Eurolab House Unit 10 Valepits Road Garretts Green Industrial Estate Birmingham B33 0TD	Dean Hughes Dimensional Electrical Mass Torque Pressure Temperature	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
At customers premises	Dean Hughes Dimensional Electrical Mass Pressure	B



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (<i>k</i> =2)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH			NOTES	
Gauge blocks		Class (see footnote)	Class C uncertainties apply to the measurement of length of steel and tungsten carbide gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to grade 0, 1 and 2 gauges to BS EN ISO 3650:1999 and BS 4311:2007. Class D uncertainties represent the best capability for the measurement of length of gauges by comparison with grade K standards of length of a dissimilar material.	A
Inch (Steel and tungsten carbide)	BS 4311:2007 0.01 in to 0.4 in 0.4 in up to 1 in Size 2 in 3 in 4 in	C D 3.0 4.0 4.0 5.0 5.0 7.0 μ in 6.0 8.0 7.0 10		
Millimetre (Steel and tungsten carbide)	BS EN ISO 3650:1999 0.5 to 10 10 up to 25 Size 30, 40, 50 60, 70, 75 80, 90, 100	C D 0.080 0.10 0.10 0.13 0.12 0.17 0.15 0.21 0.18 0.25		
Thread measuring cylinders	BS 5590 and specials 0.1 to 5	0.50		
Plain plug gauges (parallel) cylindrical setting standards and rollers	1 to 25 diameter 25 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 300 diameter 300 to 600 diameter	0.50 0.80 1.2 on diameter 1.5 2.0 4.0		
Plain plug gauges (taper)				
Parallel to 1 in 8 on diameter	3 to 50 diameter 50 to 100 diameter 100 to 200 diameter 200 to 300 diameter	3.0 4.0 5.0 6.0 on diameter		
1 in 8 to 1 in 3 on diameter	3 to 50 diameter 50 to 100 diameter 100 to 200 diameter 200 to 300 diameter	5.0 6.0 7.0 8.0		
Plain ring gauges (parallel) and setting standards	2 to 25 diameter 25 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 400 diameter 400 to 600 diameter	0.8 1.0 2.0 on diameter 3.0 4.0 6.0		



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH (cont'd)			NOTES (cont'd)	
Plain ring gauges (taper)				A
Parallel to 1 in 8 on diameter	2 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter	4.0 5.0 6.0 7.0	1 The uncertainty quoted is for the departure from either flatness, straightness, parallelism, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.	
1 in 8 to 1 in 3 on diameter	2 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter	6.0 7.0 8.0 9.0		
Length gauges, flat and spherical ended	0 to 600	1.0 + (5.0 x length in m)	2. Calibrations may also be given in lbf.in and lbf.ft.	A
Plain gap gauges (parallel)	0.5 to 100 100 to 200 200 to 300	3.0 5.0 8.0	3. Single start, symmetrical thread forms only.	A
Receiver, position and profile gauges, jigs, fixtures (see note 1)	0 to 400 x 200 x 200	Minimum per coordinate: 3.0 + (10 x length in m)	4. Single and multi-start symmetrical and asymmetrical thread forms.	A
Parallels	As BS 906:1972 5 to 50 x 100 x 400	.5 to 5.0		A
Vee blocks	As BS 3731:1987 20 to 150	2.5 to 5.0		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH (cont'd)			NOTES (cont'd)	
Screw plug gauges (parallel) including check and setting plugs See Note 4	1 to 100 diameter	3.0	5. Functional test of size using setting plugs calibrated with a CMC of 3.0 µm	A
	100 to 300	5.0		
	300 to 600	8.0 on pitch diameter		
Screw plug gauges (taper) including check plugs See Note 3	2 to 100	5.0	6. Includes use of check plugs for screw rings from 1 mm to 2.5 mm diameter.	
	100 to 300	8.0		
	300 to 500	10		
Screw ring gauges (parallel) See Note 4 and 6	1 to 100 diameter	5.0		
	100 to 150	6.0		
	150 to 200	7.0		
	200 to 300	8.0		
	300 to 600	12 on pitch diameter		
Screw ring gauges (tapered) See Note 3	6 to 100 diameter	7.0		
	100 to 200	10		
	200 to 400	13		
	400 to 600	16		
Screw pitch Screw flank angle	0.2 to 8	1.5		
	0° to 52°	5.0 minutes of arc		
Screw thread adjustable caliper gauges (parallel) See Note 4	1 to 200 diameter	See note 5		A
Vee grooved jaw blades	0.6 (40 tpi) to 6.0 (4.5 T.P.I)	3.0		A
Vee grooved end pieces	0.6 (40 T.P.I) to 6.0 (4.5 T.P.I)	3.0		A
Plain end pieces	0 to 0.001	0.50 on flatness		A
Thread Stylii	0.6 (40 T.P.I) to 6.0 (4.5 T.P.I)	0.10 on form		A
Thread measuring vee pieces (prisms)	NPL Schedule MOY/SCM1/60 0 to 4.5	0.50		A
Orifice plates	BS EN ISO 5167-1:1991 0 to 1000	8		A
Penetration needles and cones	Needles to BS 2000-49:2007 0 to 2 diameter Cones to BS 2000:Part 50:1993 0 to 10 diameter	3.0 on diameter Mass 5.0 mg		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
ANGLE				
Squares				A
Blade type	BS 939:2007 50 to 300 300 to 600 600 to 1000	3.0 5.0 8.0		
Cylindrical	BS 939:2007 75 to 300 300 to 600 600 to 1000	2.0 4.0 7.0	On squareness See Note 1	
Block	BS 939:2007 50 to 300 300 to 600 600 to 1000	3.0 5.0 8.0		
Angle plates and box angle plates	BS 5535:1978 50 to 600	Squareness: 3.0 + (1.0 per 100 mm) Parallelism: 1.0 + (1.0 per 100 mm) See Note 1		A
Sine bars and tables	BS 3064:1978 0 up to 500	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds of arc		A
Sine centres	0 to 500 length or between centres	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds or arc		A
Compound sine tables	0 to 500 length			
FORM				
Roundness				
External	0 to 350 diameter	0.050 on radius		A
Internal	5 to 350 diameter			
Straightedges				
Cast iron, Steel and Granite	BS 5204:Part 1:1975 BS 5204:Part 2:1977 0 to 2000	1.0 + (2.0 x length in m) See Note 1		A
Precision balls:				
Steel and Tungsten Carbide	1 to 30	0.80 on diameter		A
Surface plates				
Granite & cast iron	BS 817:1988 160 x 100 to 10m x 6m	1.50 + (0.80 x diagonal in m) See Note 1		A,B



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
FORM (cont'd)				
Surface texture (excluding measurement standards and roughness comparison specimens)	BS 1134:Part 1:1988 Ra 0.02 μ m to 80 μ m	7.0 % of measured value		A
MEASURING INSTRUMENTS AND MACHINES				
Micrometers				
External	BS 870:2008 0 to 600	Heads:2.0 between any two points		A
Internal	BS 959:2008 0 to 900	Setting and extension rods		
Depth	BS 6468:2008 0 to 300	1.0 + (5.0 x length in m)		
3 point bore	0 to 150 150 to 250	5.0 8.0		A
Micrometer heads	BS 1734:1951 0 to 100	1.0		A
Bench micrometer	NPL MOY/SCMI 22 0 to 100	Overall performance 2.0		A
Height gauges - (Simple) including vernier, dial and digital types	BS EN ISO 13225:2012 0 to 1000	Overall performance: 2.0 + (5.0 x length in m)		
Vernier caliper, height and depth gauges	BS 887:2008 0 to 1000 BS 1643:2008 0 to 1000 BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m)		A
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0		A
Displacement transducers	0 to 200	1.0		A
Height setting micrometer	0 to 300	Heads 1.0 Overall performance 3.0		A
Riser blocks for above	150 300	2.5 5.0		A
Bench centres	to 1000 between centres	Linear dimensions 1.0 + (10 x length in m)		A



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MEASURING INSTRUMENTS AND MACHINES (cont'd)				
Height gauges, electronic	0 to 1000	1.0 + (5.0 x length in m)		A
Profile projectors	10 to 100 magnifications Linear 0 to 300 Angular 0° to 360°	Magnification 125 at screen Linear 5.0 Angular 2.0 mins of arc		A,B
Bevel protractors	As BS 1685:2008 0° to 360°	6 0 minutes of arc		A
Comparators (external)	As BS 1054 250 to 10 000 magnifications	1.0 % or range Minimum 0.20		A
Co-ordinate tables	0 to 500 square with 150 movement	Overall performance 3.0		A
Spirit levels	As BS 3509:1962 and BS 958:1968 5 seconds of arc to 60 minutes of arc nominal sensitivity	Mean sensitivity 10 % of nominal Minimum 0.50 seconds of arc		A
Electronic indicating levels	0 to 20 minutes of arc	1.0 % or range Minimum 0.50 seconds of arc		A
Luer (taper) gauges	BS 3930:Part 1:1987 and BS 3930:Part 2:1991 0.3 to 8	As per plain taper and screw taper gauges above		A
NPL type Wedge Micrometer	MOY/SMI/89 2.5 micrometer travel	0.30		A
Steel Rules	BS 4372:1968 0 to 1000	15 + (20 x L in m)		A
Feeler gauges	BS 957:2008 0.025 to 1	3.0		A
Thread diameter measuring	MOY/SCM1/9 and MOY/SCM1/12 0 to 300	Overall performance 1.5		A
TORQUE				
Hand torque tools	BS EN 6789:2003 1 N-m to 1500 N-m	1.6 % See Note 2		A



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<p>PRESSURE</p> <p><u>Hydraulic pressure (gauge)</u></p> <p>Calibration of pressure indicating instruments and gauges, Pressure equivalent calibration of deadweight testers.</p>	550 kPa to 110 MPa	0.017 %	Calibration of devices with an electrical output may be undertaken.	A,B
<p><u>Gas pressure (gauge)</u></p> <p>Calibration of pressure indicating instruments and gauges, Pressure equivalent calibration of deadweight testers.</p>	-97 kPa to -3.5 kPa 3.5 kPa to 100 kPa 100 kPa to 700 kPa 700 kPa to 12 MPa	0.015 % 0.014 % 0.012 % 0.010 %		A,B
<p><u>Gas pressure (absolute)</u></p> <p>Calibration of pressure indicating instruments and gauges</p>	3.5 kPa to 130 kPa 103.5 kPa to 200 kPa 200 kPa to 800 kPa 800 kPa to 12 MPa	0.015 % + 9 Pa 0.014 % + 25 Pa 0.012 % + 25 Pa 0.010 % + 25 Pa		A,B
<p><u>Gas Pressure (Differential)</u></p> <p>Calibration of pressure indicating instruments and gauges</p>	2.5 kPa to 100 kPa (line pressure 1.2 MPa to 10 MPa)	0.60 ppm/MPa of line pressure, plus 0.0080 % of differential pressure, plus 10.0 Pa		A



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ELECTRICAL	DC Voltage			
	Generation	0 mV to 320 mV 320 mV to 3.2 V 3.2 V to 32 V 32 V to 320 V 320 V to 1020 V	26 ppm + 1.8 μ V 14 ppm + 2.6 μ V 16 ppm + 30 μ V 23ppm + 200 μ V 23 ppm + 2.0 mV	A,B
	Measurement	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1020 V	8.0 ppm + 1.2 μ V 5.0 ppm + 1.3 μ V 5.0 ppm + 4.8 μ V 7.0ppm + 47 μ V 7.0 ppm + 600 μ V	A,B
	DC Current			
DC Current	Generation	0 μ A to 320 μ A 320 μ A to 3.2 mA 3.2 mA to 32 mA 32 mA to 320 mA 320 mA to 1.1 A 1.1 A to 3.2 A 3.2 A to 11 A 11 A to 20 A	180 ppm + 24 nA 120 ppm + 60 nA 120 ppm + 300 nA 120 ppm + 3.0 μ A 240 ppm + 40 μ A 450 ppm + 50 μ A 590 ppm + 600 μ A 0.12 % + 900 μ A	A,B
	Measurement	10 A to 100 A 100 A to 550 A 550 A to 1000 A	0.12 % 0.15 % 0.18 %	For the calibration of clamp meters only. A,B
DC Resistance	DC Current			
	Measurement	0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	39 ppm + 1.4 nA 17 ppm + 4.0 nA 18 ppm + 100 nA 57 ppm + 1.0 μ A 220 ppm + 19 μ A 470 ppm + 500 μ A	A,B
DC Resistance	Generation	0 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 32 Ω 32 Ω to 100 Ω 100 Ω to 320 Ω 320 Ω to 1 k Ω	1.2 m Ω 77 ppm + 1.2 m Ω 47 ppm + 1.8 m Ω 36 ppm + 1.7 m Ω 35 ppm + 2.4 m Ω 34 ppm + 3.3 m Ω	A,B
		1 k Ω to 3.2 k Ω 3.2 k Ω to 10 k Ω 10 k Ω to 32 k Ω 32 k Ω to 100 k Ω 100 k Ω to 320 k Ω 320 k Ω to 1 M Ω	34 ppm + 24 m Ω 34 ppm + 33 m Ω 34 ppm + 230 m Ω 34 ppm + 330 m Ω 40 ppm + 2.3 Ω 41 ppm + 3.3 Ω	
		1 M Ω to 3.2 M Ω 3.2 M Ω to 10 M Ω 10 M Ω to 32 M Ω 32 M Ω to 100 M Ω 100 M Ω to 320 M Ω 320 M Ω to 1000 M Ω	75 ppm + 35 Ω 150 ppm + 74 Ω 290 ppm + 2.9 k Ω 600 ppm + 6.8 k Ω 0.35 % + 130 k Ω 1.7 % + 580 k Ω	



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ELECTRICAL - CONTINUED				
DC Resistance				
Measurement	0 Ω to 1 Ω 1 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 kΩ 2 kΩ to 20 kΩ 20 kΩ to 200 kΩ 200 kΩ to 2 MΩ 2 MΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 2 GΩ	32 μΩ 12 ppm + 29 μΩ 10 ppm + 63 μΩ 10 ppm + 580 μΩ 10 ppm + 6.0 mΩ 10 ppm + 58 mΩ 12 ppm + 2.0 Ω 27 ppm + 120 Ω 150 ppm + 12 kΩ 0.18 % + 1.2 MΩ		A,B
AC Voltage				
Generation	10 mV to 320 mV 45 Hz to 1 kHz 1 kHz to 10 kHz	0.018 % + 10 μV 0.018 % + 10 μV		A,B
	320 mV to 3.2 V 45 Hz to 1 kHz 1 kHz to 10 kHz	0.018 % + 70 μV 0.018 % + 70 μV		
	3.2 V to 32 V 45 Hz to 1 kHz 1 kHz to 10 kHz	0.018 % + 700 μV 0.018 % + 700 μV		
	32 V to 320 V 45 Hz to 1 kHz 1 kHz to 10 kHz	0.023 % + 3.0 mV 0.024 % + 7.0 mV		
	320 V to 1020 V 45 Hz to 1 kHz 1 kHz to 10 kHz	0.036 % + 12 mV 0.036 % + 12 mV		
Measurement	10 mV to 200 mV 20 Hz to 1 kHz 1 kHz to 10 kHz	0.018 % + 4.7 μV 0.019 % + 4.7 μV		A,B
	200 mV to 2 V 20 Hz to 1 kHz 1 kHz to 10 kHz	0.015 % + 24 μV 0.015 % + 24 μV		
	2 V to 20 V 20 Hz to 1 kHz 1 kHz to 10 kHz	0.015 % + 240 μV 0.015 % + 240 μV		
	20 V to 200 V 20 Hz to 1 kHz 1 kHz to 10 kHz	0.015 % + 2.3 mV 0.016 % + 2.3 mV		
	200 V to 1 kV 55 Hz to 1 kHz 1 kHz to 10 kHz	0.016 % + 23 mV 0.017 % + 23 mV		



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ELECTRICAL - CONTINUED				
AC current - continued				
Measurement	200 mA to 2 A 55 Hz to 1 kHz 1 kHz to 5 kHz	0.073 % + 240 µA 0.087 % + 240 µA		
	2 A to 20 A 55 Hz to 1 kHz 1 kHz to 5 kHz	0.10 % + 2.4 mA 0.30 % + 2.4 mA		
AC Resistance	55 Hz to 1 kHz 1 mΩ to 10 mΩ 10 mΩ to 100 mΩ 100 mΩ to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω	0.080 % 0.071 % 0.071 % 0.086 % 0.051 %		A,B
Oscilloscopes				A,B
Vertical deflection coefficients:	1 kHz 5 mV to 100 mV 100 mV to 100 V	0.17 % + 470 nV 0.12 % + 470 nV		
Horizontal deflection coefficients:	5 s/div to 5 ns/div	0.40 %		
Temperature indicators, calibration by electrical simulation				A,B
Base metal thermocouple Noble metal thermocouple	- 200 °C to + 1600 °C - 200 °C to + 1760 °C	0.20 °C 0.70 °C	Including cold junction compensation.	
Base metal thermocouple Noble metal thermocouple	- 200 °C to + 1600 °C - 200 °C to + 1760 °C	0.20 °C 0.70 °C	Excluding cold junction compensation.	
Cold junction compensation	0 °C to 50 °C	0.10 °C	This is a supplementary measurement for monitoring temperature in air.	A,B
Resistance sensors	- 200 °C to 0 °C 0 ° to 850 °C	0.150 °C 0.050 °C		
Frequency	10 MHz 1 Hz to 1.35 GHz	1.2 in 10 ¹¹ 21 in 10 ⁸		A,B
Time Interval	0 s to 60 min 0 s to 60 min	0.060 s 0.080 s		A B
Tachometers (Optical)	100 rpm to 50000 rpm	2.0 rpm		A,B



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TEMPERATURE				
Resistance thermometers	-25 °C to 0 °C 0 °C 0 °C to 50 °C 50 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C	0.070 °C 0.022 °C 0.060 °C 0.070 °C 0.14 °C 0.37 °C 0.50 °C		
Thermocouples	-25 °C to 0 °C 0 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C	0.40 °C 0.50 °C 0.50 °C 0.70 °C 0.80 °C		
Temperature indicators with the following probe types				
Resistance (eg Pt100)	-25 °C to 0 °C 0 °C 0 °C to 50 °C 50 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C	0.070 °C 0.022 °C 0.060 °C 0.070 °C 0.14 °C 0.37 °C 0.50 °C		
Thermocouple	-25 °C to 0 °C 0 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C	0.40 °C 0.50 °C 0.50 °C 0.70 °C 0.80 °C		
MASS				
Weights and artefacts	25 000 g 20 000 g 10 000 g 5 000 g 2 000 g 1 000 g 500 g 200 g 100 g 50 g 20 g 10 g 5 g 2 g 1 g 0.5 g 0.2 g 0.1 g 0.05 g 0.02 g 0.01 g 0.005 g 0.002 g 0.001 g	250 mg 200 mg 100 mg 50 mg 20 mg 10 mg 5 mg 2 mg 1 mg 0.6 mg 0.5 mg 0.4 mg 0.3 mg 0.24 mg 0.20 mg 0.16 mg 0.12 mg 0.10 mg 0.08 mg 0.06 mg 0.05 mg 0.04 mg 0.04 mg 0.04 mg	Notes 1. Calibrations can be given in other units as required. 2. Intermediate values can be calibrated to an uncertainty interpolated from the next higher and lower values in the table.	A



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NON AUTOMATIC WEIGHING MACHINES Lab & Site Electronic, single pan	200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 100 kg 107 kg	0.03 mg 0.03 mg 0.04 mg 0.05 mg 0.06 mg 0.07 mg 0.10 mg 0.12 mg 0.18 mg 0.36 mg 0.90 mg 1.8 mg 7.2 mg 18 mg 36.1 mg 72.4 mg 1.8 g 2.5 g 2.6 g	Notes 1. Weights are available in OIML Class: E2 from 200 mg to 500 g, max. grouped load 1 kg F1 from 1 g to 20 kg, max. grouped load 55 kg. M1 from 5 kg to 20 kg, max. grouped load 107 kg 2. Other loads within the overall listed range may also be used	A, B
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END