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Appendix B - DAE & Probe Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

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Client SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: DAE4-547_Mar20

Object	DAE4 - SU 000 DO	94 BM - SN: 547	
Calibration procedure(s)	QA CAL-06.v30 Calibration proced	ure for the data acquisition elect	tronics (DAE)
Calibration date:	March 17, 2020		
The measurements and the unce	rtainties with conflidence pro	hal standards, which realize the physical unit bability are given on the following pages are facility: $errvironment$ temperature $(22\pm3)^{\circ}C$	d are part of the certificate.
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
	ID # SN: 0810278	Cal Date (Certificate No.) 03-Sep-19 (No:25949)	Scheduled Calibration Sep-20
Keithley Multimeter Type 2001			Control of the Contro
Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1	SN: 0810278 ID # SE UWS 053 AA 1001	03-Sep-19 (No:25949)	Sep-20
Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit	SN: 0810278 ID # SE UWS 053 AA 1001	03-Sep-19 (No:25949) Check Date (In house) 09-Jan-20 (in house check)	Sep-20 Scheduled Check In house check: Jan-21
Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1	SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002	03-Sep-19 (No:25949) Check Date (In house) 09-Jan-20 (in house check) 09-Jan-20 (in house check)	Sep-20 Scheduled Check In house check: Jan-21 In house check: Jan-21
Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit	SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002 Name	03-Sep-19 (No:25949) Check Date (In house) 09-Jan-20 (in house check) 09-Jan-20 (in house check)	Sep-20 Scheduled Check In house check: Jan-21 In house check: Jan-21

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Multilateral Agreement for the recognition of calibration certificates

Glossarv

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

 DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.

- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity; Verification of the Linearity at +10% and -10% of the nominal calibration voltage, Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information, Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

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SGS Taiwan Ltd.



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DC Voltage Measurement

A/D - Converter Resolution nominal High Range: 1LSB = full range = -100...+300 mV full range = -1.....+3mV 6.1µV., 1LSB = 61nV., Low Range: DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Υ	Z
High Range	403.278 ± 0.02% (k=2)	403.179 ± 0.02% (k=2)	402.830 ± 0.02% (k=2)
Low Range	3.95688 ± 1.50% (k=2)	3,90777 ± 1.50% (k=2)	3.96411 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	91.5 " ± 1 "

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Appendix (Additional assessments outside the scope of SCS0108)

High Range	Reading (µV)	Difference (μV)	Error (%)
Channel X + Input	199995,01	0.39	0.00
Channel X + Input	20004.46	2.22	0.01
Channel X - Input	-19996.11	4.80	-0.02
Channel Y + Input	199994.74	-0.27	-0.00
Channel Y + Input	20000.81	-1.32	-0.01
Channel Y - Input	-20002.22	-1.19	0.01
Channel 7 + Input	199996.62	2.14	0.00
Channel Z + Input	20003.74	1.72	0.01
Channel Z - Input	-19998.94	2.27	-0,01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2003.02	1.37	0.07
Channel X + Input	202.40	0.52	0.26
Channel X - Input	-197.81	0.27	-0.14
Channel Y + Input	2002.86	1.28	0.06
Channel Y + Input	201.87	0.04	0.02
Channel Y - Input	-198.64	-0.54	0.27
Channel Z + Input	2002.13	0.62	0.03
Channel Z + input	200.85	-0.82	-0.41
Channel Z - Input	-199.40	-1.23	0.62

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-3.58	-4.73
	- 200	5.85	4.21
Channel Y	200	-0.25	-0.89
	- 200	0.38	-0.39
Channel Z	200	5.47	5.10
	- 200	-8.07	-8.21

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200		3.40	-1.88
Channel Y	200	9.97	(8)	4.19
Channel Z	200	5.21	8.10	

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4. AD-Converter Values with inputs shorted

surement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16359	14869
Channel Y	16462	15382
Channel Z	16084	17197

5. Input Offset Measurement

DASY measurement parameters; Auto Zero Time: 3 sec; Measuring time: 3 sec

nput 10MS2	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	-0.39	-1.31	0.90	0.34
Channel Y	0.25	-0.76	1.38	0.41
Channel Z	0.73	-0.73	3.00	0.74

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25ſA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Calibration Laboratory of

Schmid & Partner

Engineering AG





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meditation No.: SCS 0108

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Glossary:

tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z NORMx,y,z DCP DCP

diode compression point crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters φ rotation around probe axis CF A, B, C, D

Polarization o

8 rotation around an axis that is in the plane normal to grobe axis (at measurement center).

I.e., 8 = 0 is normal to probe axis
information used in DASY system to align probe sensor X to the motor coordinate system. Polerization 3

Connector Arctic

Calibration is Performed According to the Following Standards:

Methods Applied and Interpretation of Parameters.

■ NORMs, y.z. Assessed for 6-feet potentiation 8 = 0 (f ≤ 900 MHz in TEM-cet; f > 1800 MHz R22 waveguments and the properties of NORMs, y.z are only intermediate values, i.e., the uncertainties of NORMs, y.z does not affect the E²-field uncertainty inside TSL (see below ComP).

NORM(I)(x,y,z = NORMx,y,z *frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is include in the stated uncertainty of ConvF.

DOPry,z: DCP are numerical incentration parameters assessed based on the data of power sweep with CMI signal (no uncentainty sequired). DCP does not depend on frequency nor media.
 PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal.

characteristics

Fig. 12. Bit y z Cit y z Cit y z Wit y z A, B, C, D are numerical invariant on parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the clock-

meeta. Whis the maximum caloration range expressed in NMS vollage across the solice.

Convin and Boundary Effect Parameters: Assessed in fair phantom using E-field (or Temperature Transfer

Standard for f < 800 MHz) and incide waveguide using analytical field distributions based on power
measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for
boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are
used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds
to MORMs, y, z * CorwF whereby the uncertainty corresponds to that given for CorwF. A frequency dependent
CurvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100.

Spherical isotropy (33 deviation from isotropy), in a field of low gradients realized using a flat phantom exposed by a patch antenna.

Sensor Officer The sensor affect corresponds to the offset of virtual measurement center from the probe tip.

(on probe axis). No tolerance required.

Connector Angle: The angle is assessed using the information gained by determining the MORSA inc.

uncertainty required).

Gertificate No: EX3-3665 Aug 19

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EX3DV4 - SN:3665

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.49	0.57	0.51	± 10.1 %
DCP (mV) ⁸	97.9	97.1	100.8	

Calibration Results for Modulation Response

UID	Communication System Name	ΙÍ	≓ dB	B dB√μV	С	dB	mV	dev.	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	142.9	±3.5 %	± 4.7 %
		Y	0.0	0.0	1.0		160.0		
		Z	0.0	0.0	1.0		146.5		

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: EX3-3665; Aug 19

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Fine uncertainties of Norm XYZ do not affect the E^2 field uncertainty inside TSM time Pages 5 and 6. Numerical linearization parameter: uncertainty not required. Supermany of determined song the mass develops from linear response applying rectanglish E^2



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EX3DV4- SN:3665	August 30, 2015
DASY/EASY - Parameters of Probe:	EX3DV4 - SN:3665
and a state of	
Other Probe Parameters Sensor Arrangement	Triangular
Connector Angle (*)	75.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm.
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mrs
Recommended Measurement Distance from Surface	1.4 mrs
Recommended Measurement Distance from Surface	1.4 mrs
Recommended Measurement Distance from Serface	1.4 mrs
Recommended Measurement Distance from Serface	1.4 mrs
Recommended Measurement Distance from Serface	1.4 mrs
Recommended Measurement Distance from Serface	1.4 mrs
Recommended Measurement Distance from Serface	1.4 mrs
Recommended Measurement Distance from Surface	1.4 mrs
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Recommended Measurement Distance from Sorface	1.4 mrs
Recommended Measurement Distance from Sorface	1.4 mrs
Recommended Measurement Distance from Surface	1.4 mrs

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EXBOVA-SNOWING

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

(paretz) ^	Relative P	Conductivity	ConvF X	ComFY	ConvF Z	Alipha ^G	Depth 6	Unc (k=2)
750	41.9	0.89	9.77	9.77	9.77	0.47	0.80	£ 12.0 %
835	41.5	0.90	9.47	9.47	9.47	0.39	1,00	± 12.0 %
900	41.5	0.97	9,26	9.26	9.26	0.51	0.80	± 12.0 %
1750	40.1	1.37	8.34	8.34	8.34	0.31	0.86	±12.0 %
1900	40.0	1.40	8.03	8.03	8.03	0.29	0.88	± 12.0 %
2000	40.0	1,40	8.00	8.00	8.00	0.33	0.85	± 12.0 %
2300	39.5	1.67	7.68	7.68	7.68	0.26	0.88	± 12.0 %
2450	39.2	1.80	7.36	7,36	7.36	0.36	0.88	± 12.0 %
2600	39.0	1.96	7.19	7.19	7.19	0.32	0.88	± 12.0 %
5200	36.0	4.66	5.28	5.28	5,28	0.40	1.80	± 13.1 %
5300	35.9	4.76	5.18	5.18	5.18	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.99	4.99	4.99	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.97	4.97	4.97	0.40	1.80	± 13.1 %

Programmy writing above 300 Mink of a 100 Mink only applies for DASY will a mol lighter pass Plage 20, also has sentirided to a 50 Mink. The uncertainty is the RSS of the Coming contenting at calibration frequency and the uncertainty for the indicated frequency variety below 300 Minks as 3 10, 25, 40, 50 and 70 Mink for Coming assessments at 30, 54, 178, 150 and 200 Minks respectively. Validity of Coming assessments in 48 Minks, and Coming assessment at 100 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 10 Minks, and Coming assessment at 10 Minks in 48 Minks, and Coming assessment at 1

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EX3DV4- SN:3660

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

(Relative	Conductivity (Sim) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G	Unc (k=2)
750	55.5	0.96	10.00	10.00	10.00	0.40	0.85	± 12.0 %
835	55.2	0.97	9.77	9.77	9.77	0.31	0.98	±12.0 %
900	55.0	1.05	9.48	9.48	9.48	0.47	0.80	± 12.0 %
1750	53.4	1.49	8.06	8.06	8.06	0.38	0.85	± 12.0 %
1900	53.3	1.52	7.73	7.73	7:73	0.42	0,87	± 12.0 %
2000	53.3	1.52	7.64	7.64	7.64	0.31	0.99	± 12.0 %
2300	52.9	1.81	7.54	7.54	7.54	0.35	0.90	± 12.0 %
2450	52.7	1.95	7,32	7.32	7,32	0.35	0.88	± 12.0 %
2600	52.5	2.16	7.30	7.30	7.30	0.31	0.95	± 12.0 %
5200	49.0	5.30	4.56	4.56	4.56	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.37	4.37	4.37	0.50	1.90	±13.1 %
5600	48.5	5.77	3.87	3.87	3.87	0.50	1.90	± 13.1 %
5800	48.2	6.00	4.05	4.05	4.05	0.50	1.90	± 13.1 %

Programmy, whichly above 360 Minit of ± 100 Minit only applies for DASY 4.4 and higher less Page 21, else it is restricted to ± 50 Minit. The uncertainty is the RSS of the Comif uncertainty at calibration featurery and the uncertainty for the indicated featurery hand. Prequency which review 300 Minit is ± 100, 55, 40, 50 and 70 Minit is 70 minit in 200 Minit is ± 50 Minit in 45 Minit in appoint, it is also do comif assessment at 50, 64, 126, 150 and 20 Minit in appoint, it is also do comif assessment at 50 Minit in a 40 Minit in a 40 Minit in a 40 Minit in 40 Mini

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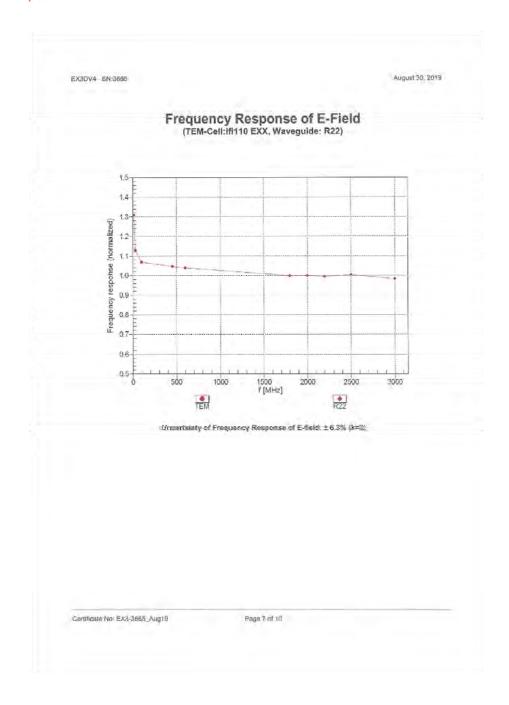
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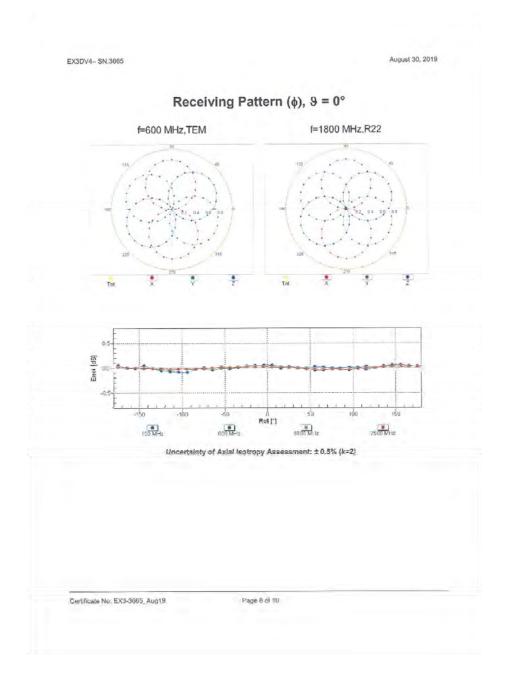
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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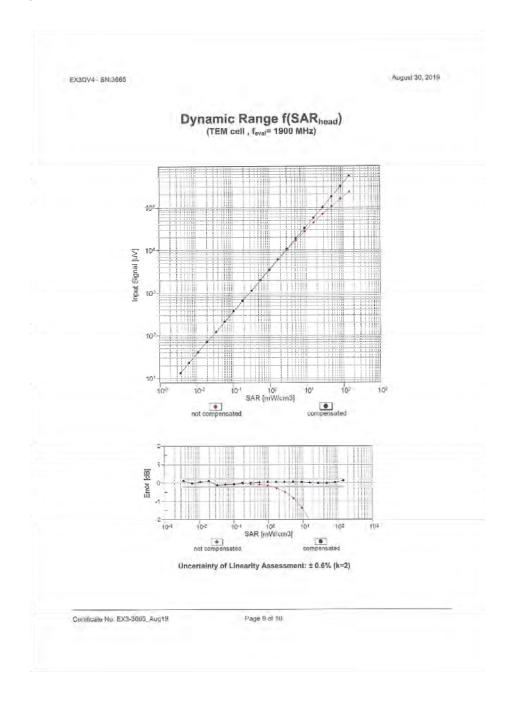
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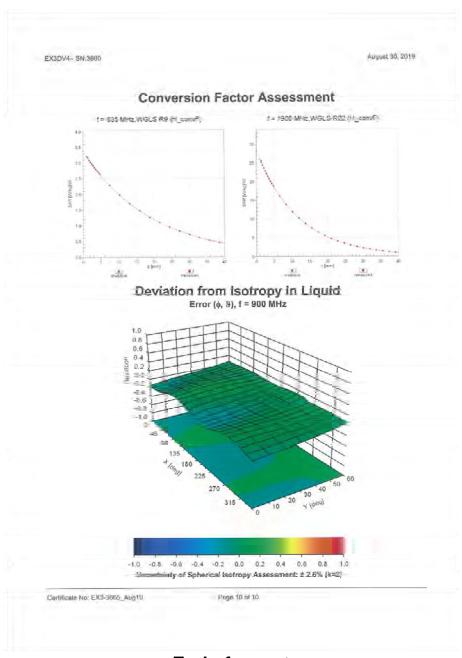
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- End of report -

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