

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100986

SPECTRUM REPORT

Applicant: Nebra LTD.

Address of Applicant: Unit 4 Bells Yew Green Business Court, Bells Yew Green,

Tunbridge Wells TN3 9BJ United Kingdom

Equipment Under Test (EUT)

Product Name: Nebra Smart Outdoor LoRa Gateway / Nebra HNT Outdoor

Hotspot Miner

Model No.: HNTOUT-868-G-LT+, HNTOUT-868-G-LT, HNTOUT-868-LT+,

HNTOUT-868-G, HNTOUT-868-LT, HNTOUT-868

Trade Mark: Nebra

Applicable standards: ETSI EN 300 220-1 V3.1.1 (2017-02)

ETSI EN 300 220-2 V3.2.1 (2018-06)

Date of sample receipt: 31 May, 2021

Date of Test: 31 May, to 08 Jul., 2021

Date of report issue: 09 Jul., 2021

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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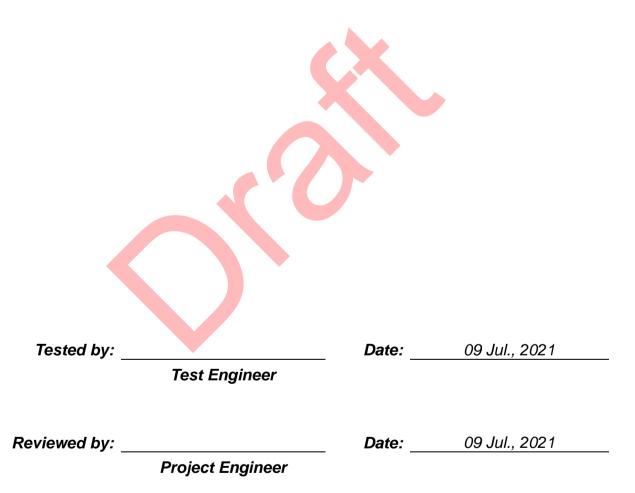
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2 Version

Version No.	Date	Description
00	09 Jul., 2021	Original







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4 Test Summary

Test Items	Test Requirement	Test method	Result	
	Transmitter Par	t		
0 (EN 300 220-2	EN 300 220-1	DAGG*	
Operating frequency	Clause 4.2.1	Clause 5.1.2	PASS*	
5" " B " + 1 B	EN 300 220-2	EN 300 220-1	DA 00*	
Effective Radiated Power	Clause 4.3.1	Clause 5.2.2	PASS*	
Maximum and an actual damate.	EN 300 220-2	EN 300 220-1	PASS*	
Maximum e.r.p. spectral density	Clause 4.3.2	Clause 5.3.2		
Duty Cyala	EN 300 220-2	EN 300 220-1	PASS*	
Duty Cycle	Clause 4.3.3	Clause 5.4.2	PASS	
Occupied Randwidth	EN 300 220-2	EN 300 220-1	DACC*	
Occupied Bandwidth	Clause 4.3.4	Clause 5.6.3	PASS*	
Ty Out of Bond Emissions	EN 300 220-2	EN 300 220-1	DACC*	
Tx Out of Band Emissions	Clause 4.3.5	Clause 5.8.3	PASS*	
Transient	EN 300 220-2	EN 300 220-1	D 4 C C +	
Transient power	Clause 4.3.6	Clause 5.10.3	PASS*	
Adia sant Obanas Danis	EN 300 220-2	EN 300 220-1	N1/A	
Adjacent Channel Power	Clause 4.3.7	Clause 5.11.3	N/A	
TX behaviour under Low Voltage	EN 300 220-2	EN 300 220-1		
Conditions	Clause 4.3.8	Clause 5.12.3	PASS*	
Adaptiva Bayyan Cantual	EN 300 220-2	EN 300 220-1	N 1/0	
Adaptive Power Control	Clause 4.3.9	Clause 5.13.3	N/A	
FLICO a main man a mat	EN 300 2 <mark>20</mark> -2	EN 300 220-2	N/A	
FHSS equipment	Clause 4.3.10	Clause 4.3.10.3	IN/A	
Ob ant tames habanian	EN 300 220-2	EN 300 220-1	N1/A	
Short term behaviour	Clause 4.3.11	Clause 5.5.2	N/A	
Unwanted emissions in the	EN 300 220-2	EN 300 220-1	DAGG	
spurious domain	Clause 4.2.2	Clause 5.9.3	PASS	
	Receiver Part			
DV ''' ''	EN 300 220-2	EN 300 220-1	N1/A	
RX sensitivity	Clause 4.4.1	Clause 5.14.3	N/A	
	EN 300 220-2	EN 300 220-1	PASS*	
Blocking	Clause 4.4.2	Clause 5.18.6		
Polite s	pectrum access conform			
Clear Channel Assessment	EN 300 220-2	EN 300 220-1	I	
threshold	Clause 4.5.2	Clause 5.21.2.3	N/A	
	EN 300 220-2	EN 300 220-1		
Polite spectrum access timing parameters	Clause 4.5.3	Clause 5.21.2.3	N/A	
parameters				
Adaptive Frequency Agility	EN 300 220-2	EN 300 220-1	N/A	
1 12 27 3 3	Clause 4.5.4	Clause 5.21.4.2		

Remark:

- 1. Pass: Meet the requirement.
- 2. PASS*: Refer to the Report No.: SZAWW180830005-04W
- 3. N/A: Not Applicable for Non-adaptive equipment.
- 4. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).





5 General Information

5.1 Client Information

Applicant:	Nebra LTD.
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells TN3 9BJ United Kingdom
Manufacturer:	Nebra LTD.
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells TN3 9BJ United Kingdom
Factory:	SUNSOAR TECH CO., LIMITED
Address:	4/F, Block E, Fengze Building, Huafeng No.2 Industrial Park, Hangkong Road, XiXiang Town, BaoAn District, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Nebra Smart Outdoor LoRa Gateway / Nebra HNT Outdoor Hotspot Miner	
Model No.:	HNTOUT-868-G-LT+, HNTOUT-868-G-LT, HNTOUT-868-LT+, HNTOUT-868-G, HNTOUT-868-LT, HNTOUT-868	
Operation Frequency:	868.1MHz-868.5 MHz	
Hardware version:	V01-16-2021-1820	
Software version:	4dc8745	
Modulation:	ООК	
Antenna type:	External antenna	
Antenna Gain:	Transmitter:3.0dBi Receiver: 3.0dBi	
Power supply:	AC: AC 230V / 50Hz POE: DC48V	
	Model No.: HNTOUT-868-G-LT+, HNTOUT-868-G-LT, HNTOUT-868-LT+, HNTOUT-868-G, HNTOUT-868-LT, HNTOUT-868 The difference: we will offer the unit with or without a GPS module included. Models with the GPS Included are indicated with a -G on the end of the model number. For example a unit with model no HNTOUT-868 is 868 Mhz, no GPS. A unit with Model No HNTOUT-868-G, is 915Mhz with GPS. We offer the unit using the Raspberry Pi Compute Module 3+ 32GB by standard (no suffix) but have an -LT variant which uses the Raspberry Pi Compute Module 3 Lite with a 32 GB eMMC to SD adapter card and a -LT+ variant which uses the Raspberry Pi Compute Module 3+ Lite with a 32 GB eMMC to SD adapter card. These suffixes can be applied to the models both with and without GPS as described above. We also provide customers the ability to, optionally, add both cellular connectivity and an additional 8 channel LoRa gateway to any of these models by using an	





5.3 Test environment and mode, and test samples plans

Transmitting mode:	Keep the TX unit in transmitting mode with modulation.	
Receiving mode:	Keep the RX unit in receiving mode.	
Operating Environment:		
Temperature:	Normal: 15°C ~ 35°C, Extreme: -20°C ~ +55°C	
Humidity:	20 % ~ 75 % RH	
Atmospheric Pressure:	1008 mbar	
Voltage:	POE: Nominal: 48Vdc, Extreme: Low 44Vdc, High 53Vdc	

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radio frequency	±0.5 ppm
RF output power, conducted	±1.5 dB
Conducted spurious emission of transmitter, valid up to 6 GHz	±3.0 dB
Conducted emission of receivers	±3.0 dB
RF level uncertainty for a given BER	±1.5 dB
Occupied BandWidth	±5 %
Temperature	±3 °C
Humidity	±10 %
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Jian Yan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Discussed Automas	CCLIMADZDECK	\/\\D\00447	250	06-18-2020	06-17-2021
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-17-2021	06-16-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Hama Antana	001111111111111111111111111111111111111	DDLLAGAGOD	4005	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	SCHWARZBECK BBHA9120D 1805		06-17-2021	06-16-2022
EMI Test Software	AUDIX	E3	\	Version: 6.110919b	
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454 03-03-2021 03-02-202		03-02-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070 03-03-2021 03-02-202		03-02-2022
Signal Generator	Rohde & Schwarz	SMX	835454/016 03-03-2021 03-02-20		03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	

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6 Radio Technical Requirements Specification in EN 300 220-2

6.1 Operating Frequency

Declared by the manufacturer operarting frequency for 433.92MHz and OCW for 100kHz.

6.2 Duty Cycle

The manufacturer has declared that due to the time between transmissions by the devices, the duty cycle is less than 10%.

6.3 Adjacent Channel Power

Not applicable, only applies to transmitters with OCW ≤ 25 kHz.

6.4 Adaptive Power Control

Not applicable, only applies to EUT with adaptive power control using annex C band AF.

6.5 FHSS equipment

Not applicable, since the test applies to FHSS equipment.

6.6 Short term behaviour

Not applicable, only applies to EUT using annex C bands AD, AE, AF, AG, AH, or AI.

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6.7 Effective Radiated Power

Test Requirement:	ETSI EN300 220-2 clause 4.3.1	
Test Method:	ETSI EN300 220-1 clause 5.2.2.2	
Receiver Setup:	RBW=100 kHz, VBW=300 kHz, Detector= peak	
Limit:	10dBm (Refer to ETSI EN300 220-2 Annex B)	
Test Procedure:		
Test Instruments:	Defer to the Depart No. C7AWWW19092000E 04W	
Test Mode:	Refer to the Report No.: SZAWW180830005-04W	
Test Results:		







6.8 Occupied Bandwidth

Test Requirement:	EN300 220-2 Clause 4.3.4	
Test Method:	EN 300 220-1 Clause 5.6.3	
Limit:	Within of 433.05MHz to 434.79MHz	
Test Procedure:		
Test Instruments:	Pefer to the Penert No : \$74\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Test Mode:	Refer to the Report No.: SZAWW180830005-04W	
Test Results:		



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6.9 Tx Out of Band Emissions

Test Requirement:	EN300 220-2 Clause 4.3.5	
Test Method:	EN 300 220-1 Clause 5.8.3	
Limit:	Refer to ETSI EN300 220-1 Clause 5.8.2	
Test Procedure:		
Test Instruments:	Poter to the Penert No : \$744444190920005 0444	
Test Mode:	Refer to the Report No.: SZAWW180830005-04W	
Test Results:		



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6.10 Transient power

_				
Test Requirement:	EN300 220-2 Clause 4.3.6			
Test Method:	EN 300 220-1 Clause 5.10.3			
Limit:	Table 23: Transmitter Transient Power limits			
	Absolute offset from centre RBW _{REF} Peak power limit applicable at measurement point frequency			
	≤ 400 kHz 1 kHz 0 dBm		0 dBm	
	> 400 kHz 1 kHz -27 dBm			
Test Procedure:				
Test Instruments:	D. (and the Decoration 074) 4400000000 0414			
Test Mode:	Refer to the Report No.: SZAWW180830005-04W			
Test Results:				



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6.11 TX behaviour under Low-voltage Conditions

Test Requirement:	EN 300 220-2 Clause 4.3.8	
Test Method:	EN 300 220-1 Clause 5.12.3	
Limit:	The equipment shall either: a) remain in the Operating Channel OC without exceeding any applicable limits (e.g. Duty Cycle); or b) reduce its effective radiated power below the Spurious Emission limits without exceeding any applicable limits (e.g. Duty Cycle); or c) shut down, (ceasing function); as the voltage falls below the manufacturers declared operating voltage.	
Test Procedure:		
Test Instruments:	Refer to the Report No.: SZAWW180830005-04W	
Test Mode:		
Test Results:		



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6.12 Unwanted emissions in the spurious domain

Test Requirement:	EN 300 220-2 Clause 4.2.2		
Test Method:	EN 300 220-1 Clause 5.9.3		
Receiver Setup:	Table 20: Parameters for TX Spurious Radiations Measurement		
			RBW _{REF}
	Transmit mode	9 kHz ≤ f < 150 kHz	(see note 2) 1 kHz
		150 kHz ≤ f < 30 MHz	10 kHz
		$30 \text{ MHz} \le f < f_c - m$ $f_c - m \le f < f_c - n$	100 kHz 10 kHz
			1 kHz
		$f_c + p < f \le f_c + n$	1 kHz
		$f_c + n < f \le f_c + m$	10 kHz
		$f_c + m < f \le 1 \text{ GHz}$ $1 \text{ GHz} < f \le 6 \text{ GHz}$	100 kHz 1 MHz
	NOTE 1: f is the measurement frequency. f _c is the Operating Frequency. m is 10 x OCW or 500 kHz, whichever is the greater. n is 4 x OCW or 100 kHz, whichever is the greater. p is 2,5 x OCW. NOTE 2: If the value of RBW used for measurement is different from RBW _{REF} , use bandwidth correction from clause 4.3.10.1.		
Limit:	Tabl	e 19: Spurious domain emission limits	
	87,5 M 174 M	MHz to 74 MHz MHz to 118 MHz MHz to 230 MHz MHz to 790 MHz	Frequencies above 1 000 MHz
	TX mode RX and all other modes	-54 dBm -36 dBm -57 dBm -57 dBm	-30 dBm -47 dBm
		-57 dBill	-47 dbiii
Test Frequency Range:	25MHz to 4GHz		
	Above 1GHz	Test Receiver Antenna Tantenna	ower
Test Procedure:	of the EUT. The following test procedur Below 1GHz test procedu 1. On the test site as te	re: st setup graph above,the EUT urntable and in the position clo	shall be placed at the

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	2. The test entering shall be enterted initially for vertical palarimetics and shall be
	2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the
	test antenna shall be connected to the measuring receiver.
	3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
	4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
	5. Repeat step 4 for test frequency with the test antenna polarized horizontally.
	6. Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At the lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.
	7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
	8. Repeat step 7 with both antennas horizontally polarized for each test frequency.
	9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole
	antenna by the following formula:
	ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)
	where: Pg is the generator output power into the substitution antenna.
	Above 1GHz test procedure:
	Different between above is the test site, change from Semi- Anechoic
	Chamber to fully Anechoic Chamber, and the test antenna do not need to
	raise from 1 to 4m, just test in 1.5m height.
Test Instruments:	Refer to section 5.8 for details
Test Mode:	Refer to section 5.3 for details
Test Results:	Pass





Measurement Data:

TX mode				
Eroguenov (MU=)	Spurious Emission		Limit (dDm)	Took Dooule
Frequency (MHz)	polarization	Level(dBm)	Limit (dBm)	Test Result
123.97	Vertical	-67.39	54.00	- Pass
327.79	V	-55.92	-54.00	
59.99	V	-52.61	20.00	
721.85	V	-64.61	-36.00	
1736.60	V	-57.48	00.00	
2604.90	V	-51.33	-30.00	
3473.20	V	-48.36	54.00	
144.22	Horizontal	-70.46	-54.00	
328.68	Н	-59.91	20.00	
59.99	Н	-58.60	-36.00	
720.07	Н	-55.31	20.00	
1736.60	Н	-50.75	-30.00	

	RX mode			
Frequency (MHz)	Spurious Emission			Tool Boards
	polarization	Level(dBm)	Limit (dBm)	Test Result
623.93	Vertical	-59.00	F7.00	
720.16	V	-58.47	-57.00	
1736.60	V	-61.98	-47.00	Dana
320.03	Horizontal	-58.47	F7.00	Pass
660.99	Н	-58.49	-57.00	
1736.60	Н	-63.14	-47.00	

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6.13 Receiver Requirements

Receiver Classification, Table 1 of EN 300 220-1. Table 1: Receiver categories		
	Category 1 is a high performance level of receiver.	
1	In particular to be used where the operation of a SRD may have	
	inherent safety of human life implications.	
4.5	Category 1.5 is an improved performance level of receiver	
1.5	category 2.	
2	Category 2 is standard performance level of receiver.	
	Category 3 is a low performance level of receiver.	
	Manufacturers have to be aware that category 3 receivers are not	
3	able to work properly in case of coexistence with some services	
	such as a mobile radio service in adjacent bands. The	
	manufacturer shall provide another mean to overcome the	
	weakness of the radio link or accept the failure.	

Remark: The EUT (Rx part) belong to Class 3 with no polite spectrum access.

6.13.1 RX sensitivity

Not applicable, since the test applied to with polite spectrum access facility only.





6.13.2 Blocking

Test Requirement:	EN 300 220-2 Clause 4.4.2		
Test Method:	EN 300 220-1 Clause 5.18.6		
Limit:	Table 40: Blocking level parameters for RX category 3		
	Requirement	Limits	
	Blocking at ±2 MHz from OC edge f _{high} and f _{low}	Receiver category 3 ≥ -80 dBm	
	Blocking at ±10 MHz from OC edge f _{high} and f _{low}	≥ -60 dBm	
	Blocking at ±5 % of Centre Frequency or 15 MHz, whichever is the greater	≥ -60 dBm	
Test Setup:			
Test Procedure:	Refer to the Report No.: SZAWW180830005-04W		
Test Instruments:			
Test Mode:			
Test Results:			







6.14 Polite spectrum access requirements

6.14.1 Clear Channel Assessment threshold

Not applicable, since the test applied to with polite spectrum access facility only.

6.14.2 Polite spectrum access timing parameters

Not applicable, since the test applied to with polite spectrum access facility only.

6.14.3 Adaptive Frequency Agility

Not applicable, since the test applied to with polite spectrum access facility only.



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Test Setup Photo









8 EUT Constructional Details

Reference to the test report No. JYTSZB-R01-2100336.

-----End of report-----



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