



TEST REPORT

| Applicant | Benq Corporation |
|-----------|---|
| Address | 16 Jihu Road, Neihu, Taipei 114, Taiwan |

| Manufacturer or Supplier | Benq Corporation |
|-------------------------------------|---|
| Address | 16 Jihu Road, Neihu, Taipei 114, Taiwan |
| Product Name | InstaShow S Host |
| Brand Name | BenQ |
| Model | WDC20R |
| Additional Model & Model Difference | N/A |
| Date of tests | Jun. 07, 2021 ~ Jun. 19, 2021 |

The tests have been carried out according to the requirements of the following standard:

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

| Tested by Andy Zhu | Approved by Glyn He |
|-----------------------------|------------------------------------|
| Supervisor / EMC Department | Assistant Manager / EMC Department |
| | |

Date:Dec. 13, 2021

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-----------------|---|---------------|
| RF190730N005-2 | Original release. | Nov. 04, 2019 |
| RF2102WDG0185-2 | Based on the report RF190730N005-2, added heat sink, shielded case and ANT GND to the motherboard, it needs to be retested Radiated Emission (below 1GHz) test item after engineer evaluated. | Dec. 13, 2021 |

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1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 UNDER NEW RULE) | | | | |
|--|---|--------|--------------------------------|--|
| STANDARD SECTION | TEST TYPE | RESULT | REMARK | |
| 15.407(b) (1/4/6) | Radiated Emissions & Band Edge Measurement | PASS | Meet the requirement of limit. | |

Note: This report is prepared for supplementary report.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|--------------------|---------------|-------------|
| Radiated emissions | 9KHz ~ 30MHz | 2.16dB |
| | 30MHz ~ 1GMHz | 3.82dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| PRODUCT NAME | InstaShow S Host | |
|------------------------|--|--|
| MODEL NO. | WDC20R | |
| FCC ID | JVPWDC20R | |
| POWER SUPPLY | DC 12V From Adapter Input 100-240V~ 50/60Hz 0.6A max | |
| MODULATION TECHNOLOGY | OFDM | |
| MODULATION TYPE | 256QAM, 64QAM, 16QAM, QPSK, BPSK | |
| TRANSFER RATE | 802.11ac up to 400Mbps | |
| OPERATING FREQUENCY | 5180 ~ 5240MHz, 5745 ~ 5825MHz | |
| NUMBER OF CHANNEL | Refer to 2.2 section | |
| CONDUCTED OUTPUT POWER | 12.34dBm for 5180 ~ 5240MHz (Maximum AVG Power) 6.60dBm for 5745 ~ 5825MHz (Maximum AVG Power) | |
| ANTENNA TYPE | 5180 ~ 5240MHz: Dipole antenna with 3.58dBi gain 5745 ~ 5825MHz: Dipole antenna with 4.72dBi gain | |
| I/O PORTS | Refer to user's manual | |
| CABLE SUPPLIED | DC Line: Unshielded, Detachable 30cm | |

NOTES:

- 1. This is a supplementary report of Report No: RF190730N005-2. The differences between them are as follows:
 - added heat sink, shielded case and ANT GND to the motherboard.

According to the above conditions, only Radiated Emission (below 1GHz) test item needs to be performed. And all data was verified to meet the requirements.

- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

| MODULATION MODE | TX FUNCTION |
|---------------------------------|-------------|
| 802.11n (HT20) 802.11ac (VHT20) | 2TX |
| 802.11n (HT40) 802.11ac (VHT40) | 2TX |

- 5. Please refer to the EUT photo document (Reference No.: 2102WDG0185) for detailed product photo.
- 6. The EUT was powered by the following adapter:

| Adapter | | |
|---------|----------|---------------------------|
| BR | AND: N | I/A |
| MO | DEL: F | J-SW1202000N |
| IN | IPUT: 10 | 00-240V~ 50/60Hz 0.6A max |
| OUT | PUT: D | C 12V, 2000mA |

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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DC LINE: Unshielded, Non-detachable 120cm

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2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

4 channels are provided for 802.11n (HT20), 802.11ac (VHT20):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36 | 5180 MHz | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 38 | 5190 MHz | 46 | 5230 MHz |

FOR 5725 ~ 5850MHz

5 channels are provided for 802.11n (HT20), 802.11ac (VHT20):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-------------|---------|-----------|
| 149 | 149 5745MHz | | 5765MHz |
| 157 | 5785MHz | 161 | 5805MHz |
| 165 | 5825MHz | | |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY | |
|---------|-----------|---------|-----------|--|
| 151 | 5755MHz | 159 | 5795MHz | |

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2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE | | APPLICA | ABLE TO DESCRIPTION | | | | |
|------------------|-------|---------|---------------------|------|--|--|--|
| MODE | RE≥1G | RE<1G | PLC | APCM | DESCRIPTION | | |
| - | V | - | - | - | Powered by Adapter with WIFI (5G) link | | |

Where **RE≥1G:** Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------------|-----------------|------------------------|------------------------|-------------------|--------------------------|--------------------|------------------------|
| - | 802.11n (20MHz) | 5150-5250 5725-5850 | 36 to 48 140 to 165 | 36 | OFDM | BPSK | 6.5 |

TEST CONDITION:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|---------------|--------------------------|---------------------|-----------|
| RE<1G | 25deg. C, 51%RH | DC 12V from Adapter | Walker |
| RE≥1G | • | - | = |
| PLC | - | - | - |
| APCM | - | - | - |

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^{1.} The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**. **NOTE:** "-"means no effect.



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|---------|-------|-----------|------------|--------|
| 1 | N/A | N/A | N/A | N/A | - |

| NO. | DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|--|
| 1 | N/A |

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)
789033 D02 General UNII Test Procedures New Rules v01r03
KDB 662911 D01 v02r01
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

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3. TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| FREQUENCIES (MHz) | FIELD STRENGTH (microvolts/meter) | MEASUREMENT DISTANCE (meters) |
|----------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTES:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

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3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| APPLICABLE TO | LIMIT | | |
|------------------------------|----------------------|------------------------------------|--|
| 789033 D02 General UNII Test | FIELD STRENGTH AT 3m | | |
| Procedures New Rules v01r03 | PK: 74 (dBμV/m) | AV: 54 (dBμV/m) | |
| APPLICABLE TO | EIRP LIMIT | EQUIVALENT FIELD STRENGTH AT 3m | |
| 15.407(b)(1) | | | |
| 15.407(b)(2) | PK: -27 (dBm/MHz) | PK: 68.2 (dBμV/m) | |
| 15.407(b)(3) | | | |
| 15.407(b)(4) | Note | Note | |

NOTE: For transmitters operating in the 5.725-5.85 GHz band:

Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts).

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3.1.3 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Next Cal. |
|---|---------------|--------------------------|-------------|------------|
| EMI Test Receiver | Rohde&Schwarz | ESU40 | 100449 | Mar. 07,22 |
| Signal and Spectrum Analyzer | Rohde&Schwarz | FSV7 | 102331 | May 09, 22 |
| Active Loop Antenna (9KHz -30MHz) | SCHWARZBECK | FMZB 1519B | 1519B-045 | May 29,22 |
| Amplifier (9KHz -1GHz) | Burgeon | BPA-530 | 100210 | Mar. 13,22 |
| Bilog Antenna (20MHz -2GHz) | Teseq | CBL 6111D | 30643 | May 29,22 |
| Horn Antenna (1GHz -18GHz) | ETS -Lindgren | 3117 | 00062558 | May 29,22 |
| Horn Antenna (18GHz -40GHz) | SCHWARZBECK | BBHA 9170 | BBHA9170147 | May 09, 22 |
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m | NSEMC003 | May 22,22 |
| Test Software | ADT | ADT_Radiated_V7.6.15.9.2 | N/A | N/A |
| Broadband Preamplifier (1GHz~18GHz) | SCHWARZBECK | BBV9718 | 305 | May 08,22 |
| Pre-Amplifier (18GHz-40GHz) | EMCI | EMC 184045 | 980102 | Mar. 13,22 |
| Test Software | ADT | ADT_Radiated_V7.6.15.9.2 | N/A | N/A |

NOTES:

- 1. The test was performed in 966 Chamber.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 749762.

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3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTES:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.5 DEVIATION FROM TEST STANDARD

No deviation.

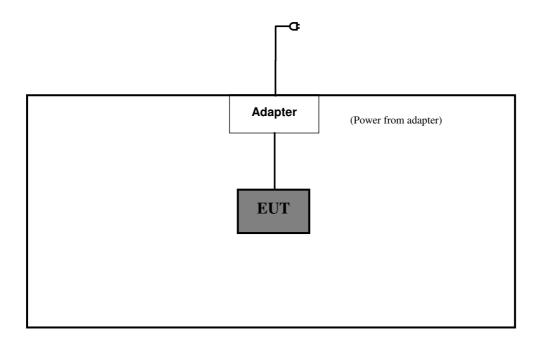
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3.1.6 TEST SETUP DIAGRAM



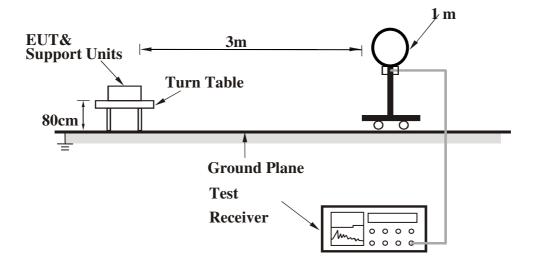
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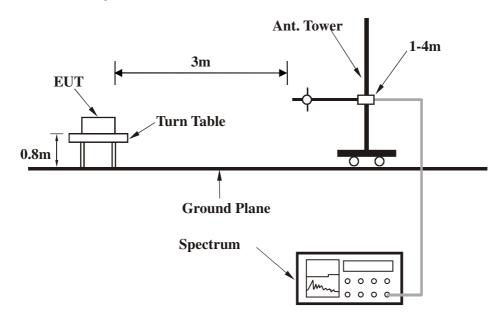


3.1.7 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

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3.1.8 EUT OPERATING CONDITION

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

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3.1.9 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

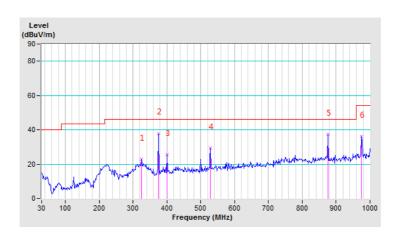
802.11n (HT 20)

| CHANNEL | TX Channel 36 | DETECTOR | Overi Park (OP) |
|-----------------|---------------|----------|-----------------|
| FREQUENCY RANGE | 30MHz ~ 1GHz | FUNCTION | Quasi-Peak (QP) |

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 325.35 | 22.77 QP | 46.00 | -23.23 | 1.00 H | 12 | 36.20 | -13.43 |
| 2 | 375.10 | 37.91 QP | 46.00 | -8.09 | 1.00 H | 23 | 49.86 | -11.95 |
| 3 | 399.97 | 25.46 QP | 46.00 | -20.54 | 1.00 H | 37 | 36.96 | -11.50 |
| 4 | 528.99 | 29.49 QP | 46.00 | -16.51 | 1.00 H | 2 | 37.99 | -8.50 |
| 5 | 875.64 | 37.30 QP | 46.00 | -8.70 | 1.00 H | 1 | 39.55 | -2.25 |
| 6 | 975.13 | 36.27 QP | 54.00 | -17.73 | 1.00 H | 0 | 36.88 | -0.61 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



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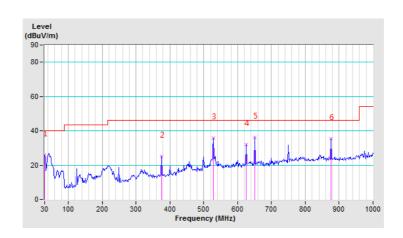


| CHANNEL | TX Channel 36 | DETECTOR | Ougai Pagis (OP) |
|-----------------|---------------|----------|------------------|
| FREQUENCY RANGE | 30MHz ~ 1GHz | FUNCTION | Quasi-Peak (QP) |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | 30.00 | 25.99 QP | 40.00 | -14.01 | 1.00 V | 53 | 38.05 | -12.06 | | |
| 2 | 375.10 | 25.11 QP | 46.00 | -20.89 | 1.00 V | 104 | 37.06 | -11.95 | | |
| 3 | 528.99 | 35.91 QP | 46.00 | -10.09 | 1.00 V | 67 | 44.41 | -8.50 | | |
| 4 | 625.37 | 31.93 QP | 46.00 | -14.07 | 1.00 V | 89 | 38.28 | -6.35 | | |
| 5 | 650.24 | 36.27 QP | 46.00 | -9.73 | 1.00 V | 78 | 42.02 | -5.75 | | |
| 6 | 875.64 | 35.43 QP | 46.00 | -10.57 | 1.00 V | 117 | 37.68 | -2.25 | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



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4. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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5. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---

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