

FCC PART 15 B, CLASS B TEST REPORT

For

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States

FCC ID: YPVITALCOMMYQ-TV

Report Type: Product Type:
Original Report Mobile Phone

Test Engineer: Bell Hu

Report Number: RSZ130626002-00A

Report Date: 2013-07-22

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: *MyQ-tv* (*FCC ID: YPVITALCOMMYQ-TV*) or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 105 mm (L) x 58 mm (W) x 12 mm (H), rated with input voltage: DC 3.7 V Li-ion battery or DC 5V charging from adapter. The highest operating frequency is 650MHz.

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Adapter Information:

Model: Cnyx

Input: 100-240 V, 50/60Hz, 0.15A

Output: DC 5.0V, 0.5A

*All measurement and test data in this report was gathered from production sample serial number: 1306087 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2013-06-26.

Objective

This test report is prepared on behalf of *ITALCOM GROUP* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS, Part 15.247 DTS and Part 22H&24E PCE submissions with FCC ID: YPVITALCOMMYQ-TV.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT operation mode: Downloading (data transforms with computer)

EUT Exercise Software

"winthrax" exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------------|--------------------------|
| DELL | PC | VOSTRO 220S | 127BP2X |
| DELL | Keyboard | L100 | CNORH656658907BL05DC |
| DELL | Mouse | MOC5UO | G1900NKD |
| DELL | LCD Monitor | E178WFPC | CN-OWY564-64180-7C4-2SQH |
| SAST | Modem | AEM-2100 | 0293 |

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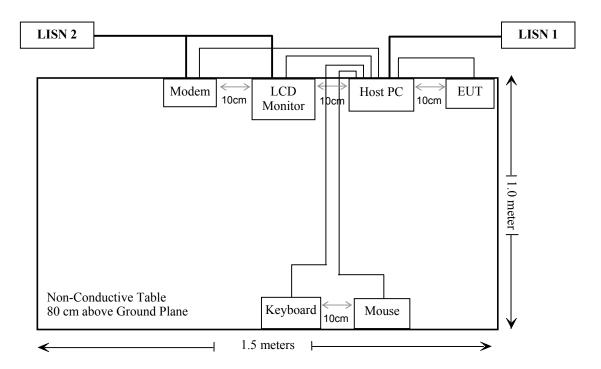
External I/O Cable

| Cable Description | Length (m) | From/Port | То |
|-----------------------------------|------------|-----------|-------------|
| Shielding Detachable USB Cable | 1.5 | Host PC | Mouse |
| Shielding Detachable Serial Cable | 1.2 | Host PC | Modem |
| Shielding Detachable K/B Cable | 1.5 | Host PC | Keyboard |
| Shielding Detachable VGA Cable | 1.5 | Host PC | LCD Monitor |
| Unshielding Detachable USB Cable | 1.0 | EUT | Host PC |

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Block Diagram of Test Setup

For conducted emission



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results |
|-----------|-----------------------------|------------|
| §15.107 | AC Line Conducted Emissions | Compliance |
| §15.109 | Radiated Spurious Emissions | Compliance |

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FCC §15.107 - AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

Measurement Uncertainty

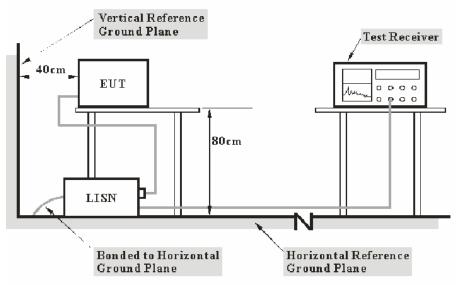
Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between AMN/ISN and receiver, AMN/ISN voltage division factor, AMN/ISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

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| Port | Measurement uncertainty |
|----------|--|
| AC Mains | 3.26 dB (k=2, 95% level of confidence) |
| CAT 3 | 3.70 dB (k=2, 95% level of confidence) |
| CAT 5 | 3.86 dB (k=2, 95% level of confidence) |
| CAT 6 | 4.64 dB (k=2, 95% level of confidence) |

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2009. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

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EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

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Test Procedure

During the conducted emission test, the host PC was connected to the first LISN and the other relevant equipments were connected to the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|----------------------------|---------------------|-------------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 100176 | 2013-06-17 | 2014-06-17 |
| Rohde & Schwarz | 1st LISN | ENV216 | 3560.6650.12- 101613-Yb | 2013-05-07 | 2014-05-07 |
| Rohde & Schwarz | 2nd LISN | ESH2-Z5 | 892107/021 | 2012-08-22 | 2013-08-22 |
| Rohde & Schwarz | CE Test software | EMC 32 | 8.95 | - | - |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limitor

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

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Test Results Summary

According to the recorded data in following table, with the worst margin reading of:

16.3 dB at 0.150000 MHz in the Neutral conducted mode

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Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{\rm (Lm)} \leq L_{\rm lim} + U_{\rm cispr}$$

in BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

| Temperature: | 26 ℃ |
|--------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Bell Hu on 2013-07-22.

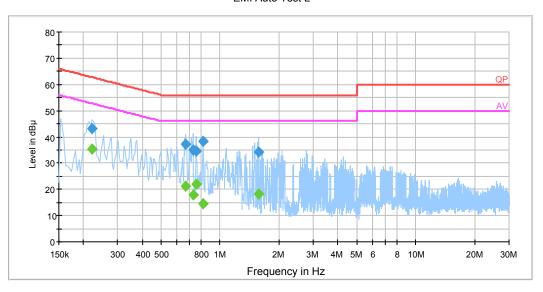
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EUT Operation Mode: Downloading (data transforms with Computer)

AC 120V/60 Hz, Line

EMI Auto Test L

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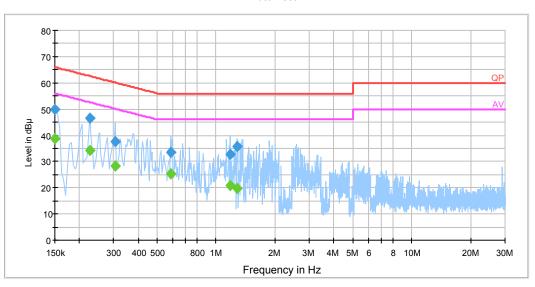
| Frequency (MHz) | Corrected Amplitude (dBµV) | Corrected Factor (dB) | Limit (dBµV) | Margin (dB) | Remark (PK/QP/Ave) |
|--------------------|----------------------------------|-----------------------------|-----------------|----------------|-----------------------|
| 0.222000 | 35.5 | 19.5 | 52.7 | 17.2 | Ave. |
| 0.822000 | 38.2 | 19.5 | 56.0 | 17.8 | QP |
| 0.666000 | 37.1 | 19.5 | 56.0 | 18.9 | QP |
| 0.222000 | 43.1 | 19.5 | 62.7 | 19.6 | QP |
| 0.726000 | 34.8 | 19.5 | 56.0 | 21.2 | QP |
| 0.754000 | 34.6 | 19.5 | 56.0 | 21.4 | QP |
| 1.574000 | 34.3 | 19.5 | 56.0 | 21.7 | QP |
| 0.754000 | 22.0 | 19.5 | 46.0 | 24.0 | Ave. |
| 0.666000 | 21.1 | 19.5 | 46.0 | 24.9 | Ave. |
| 1.574000 | 18.1 | 19.5 | 46.0 | 27.9 | Ave. |
| 0.726000 | 17.7 | 19.5 | 46.0 | 28.3 | Ave. |
| 0.822000 | 14.6 | 19.5 | 46.0 | 31.4 | Ave. |

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AC 120V/60 Hz, Neutral

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| Frequency (MHz) | Corrected Amplitude (dBµV) | Corrected Factor (dB) | Limit (dBµV) | Margin (dB) | Remark (PK/QP/Ave) |
|--------------------|----------------------------------|-----------------------------|-----------------|----------------|-----------------------|
| 0.150000 | 49.7 | 19.5 | 66.0 | 16.3 | QP |
| 0.226000 | 46.3 | 19.5 | 62.6 | 16.3 | QP |
| 0.150000 | 38.7 | 19.5 | 56.0 | 17.3 | Ave. |
| 0.226000 | 34.4 | 19.5 | 52.6 | 18.2 | Ave. |
| 1.282000 | 35.5 | 19.5 | 56.0 | 20.5 | QP |
| 0.586000 | 25.4 | 19.5 | 46.0 | 20.6 | Ave. |
| 0.306000 | 28.2 | 19.5 | 50.1 | 21.9 | Ave. |
| 0.306000 | 37.7 | 19.5 | 60.1 | 22.4 | QP |
| 0.586000 | 33.6 | 19.5 | 56.0 | 22.4 | QP |
| 1.182000 | 32.6 | 19.5 | 56.0 | 23.4 | QP |
| 1.182000 | 20.9 | 19.5 | 46.0 | 25.1 | Ave. |
| 1.282000 | 19.6 | 19.5 | 46.0 | 26.4 | Ave. |

Note:

1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss The corrected factor has been input into the transducer of the test software.

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²⁾ Corrected Amplitude = Reading + Correction Factor + Transient Limiter
3) Margin = Limit - Corrected Amplitude

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §15.109

Measurement Uncertainty

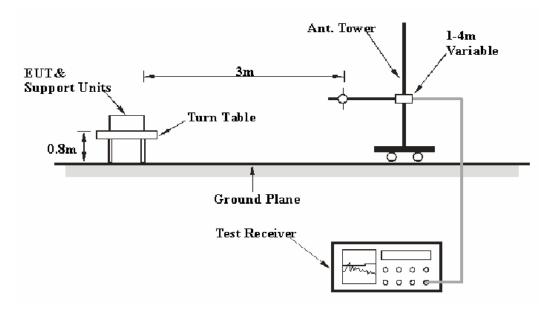
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

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Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown in below table. And the uncertainty will not be taken into consideration for the test data recorded in the report

| Frequency | Polarity | Measurement uncertainty |
|----------------------|-----------------------|--|
| 30MHz~200MHz | Horizontal | 4.62 dB (k=2, 95% level of confidence) |
| 30lvII IZ~200lvII IZ | Vertical | 4.54 dB (k=2, 95% level of confidence) |
| 200MHz~1GHz | Horizontal | 4.84 dB (k=2, 95% level of confidence) |
| 2001/1112~10112 | Vertical | 5.91 dB (k=2, 95% level of confidence) |
| 1 GHz~6 GHz | Horizontal / Vertical | 4.68 dB (k=2, 95% level of confidence) |
| Above 6 GHz | Horizontal / Vertical | 4.92 dB (k=2, 95% level of confidence) |

EUT Setup



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 Class B limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Detector |
|------------------|---------|-----------|---------|----------|
| 30MHz – 1000 MHz | 100 kHz | 300 kHz | 120 kHz | QP |
| Above 1 GHz | 1MHz | 3 MHz | / | PK |
| Above I GHZ | 1MHz | 10 Hz | / | Ave. |

Test Procedure

For the radiated emissions test, the host PC and relevant equipments were connected to AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|--------------------|----------|---------------|---------------------|-------------------------|
| HP | Amplifier | 8447E | 1937A01046 | 2012-08-09 | 2013-08-09 |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101122 | 2013-05-09 | 2014-05-09 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2011-11-28 | 2014-11-27 |
| SUPER ULTRA | Amplifier | ZVA-213+ | N/A | 2012-11-24 | 2013-11-23 |
| Sunol Sciences | Horn Antenna | DRH-118 | A052304 | 2011-12-01 | 2014-11-30 |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 8386001028 | 2012-11-24 | 2013-11-23 |
| R&S | Auto test Software | EMC32 | V6.30 | | |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

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Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, with the worst margin reading of:

1.0 dB at 34.227500 MHz in the Vertical polarization

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

in BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

| Temperature: | 25 ℃ | | |
|--------------------|-----------|--|--|
| Relative Humidity: | 55 % | | |
| ATM Pressure: | 100.0 kPa | | |

The testing was performed by Bell Hu on 2013-07-10.

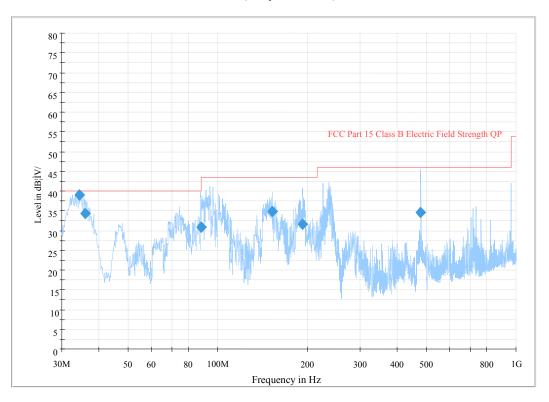
EUT Operation Mode: Downloading (data transforms with Computer)

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1) 30 MHz -1 GHz:

Auto Test(FCC part 15 Class B)

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| Frequency (MHz) | Corrected Amplitude (dBµV/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|------------------------------------|---------------------------|---------------------|-----------------------------|--------------------------------|-------------------|----------------|
| 34.227500 | 39.0 | 100.0 | V | 149.0 | -10.1 | 40.0 | 1.0 |
| 36.052300 | 34.4 | 100.0 | V | 226.0 | -11.5 | 40.0 | 5.6 |
| 152.669400 | 34.9 | 100.0 | V | 93.0 | -15.0 | 43.5 | 8.6 |
| 192.693750 | 31.6 | 195.0 | Н | 295.0 | -15.7 | 43.5 | 11.9 |
| 479.845550 | 33.8 | 100.0 | V | 157.0 | -10.1 | 46.0 | 12.2 |
| 88.071200 | 30.8 | 174.0 | Н | 66.0 | -20.0 | 43.5 | 12.7 |

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2) 1 GHz – 5 GHz:

| | Receiver | | T | Rx Antenna | | Corrected | Corrected | FCC Part 15B, Class B | |
|--------------------|----------------|--------------------------|-----|---------------|---|-----------|-----------------------|-----------------------|--------|
| Frequency (MHz) | Reading (dBµV) | Detector (PK/QP/Ave.) | | Height (m) | | Factor | Amplitude (dBμV/m) | Limit | Margin |
| 1569.7 | 37.05 | Ave. | 253 | 1.1 | Н | 1.70 | 38.75 | 54 | 15.25 |
| 1258.3 | 36.85 | Ave. | 68 | 1.0 | V | 0.16 | 37.01 | 54 | 16.99 |
| 1258.3 | 51.82 | PK | 68 | 1.0 | V | 0.16 | 51.98 | 74 | 22.02 |
| 1569.7 | 50.24 | PK | 253 | 1.1 | Н | 1.70 | 51.94 | 74 | 22.06 |

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Note:

- Corrected Amplitude = Corrected Factor + Reading
 Corrected Factor=Antenna factor (RX) + Cable loss Amplifier factor
 Margin = Limit Corrected Amplitude

***** END OF REPORT *****

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