

Bill of materials
Table 1. STEVAL-IBD013V1 bill of materials

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
1	1	ANT1	2450AT18D0100E	RF/Microwave Antenna, 2400MHz Min, 2500MHz Max	Johanson	2450AT18D0100E
2	1	BATT1	2469	Batteries/ Accessories (Attach with double side tape on the back)	Keystone Electronics	2469
3	1	C1	220nF, SM/C_0402	Cap Ceramic 0.22uF 6.3V X5R 10% Pad SMD 0402 85°C T/R	Murata	GRM155R60J224KE01
4	1	C2	4.7uF, SM/C_0402	0402 10 V 4.7 uF ±20% Tolerance X5R Multilayer Ceramic Chip Capacitor	Murata	GRM155R61A475MEAA
5	2	C3,C9	100nF, SM/C_0201	0201 0.1 uF 25 V ±10% Tolerance X5R SMT Multilayer Ceramic Capacitor	Murata	GRM033R61E104KE14D
6	2	C4, C5	1uF, SM/C_0402	0402 1 uF 25 V ±10% Tolerance X5R Multilayer Ceramic Chip Capacitor	Murata	GRM155R61E105KA12
7	2	C6, C7	6.8pF, SM/C_0201	Cap Ceramic 6.8pF 25V C0G 0.25pF SMD 0201 125°C Paper T/R	Murata	GJM0335C1E6R8CB01
8	1	C8	4.7uF, SM/C_0402	0402 10 V 4.7 uF ±20% Tolerance X5R Multilayer Ceramic Chip Capacitor	Murata	GRM155R61A475MEAA
9	1	C10	20pF, SM/C_0201	Cap Ceramic 20pF 25V C0G 2% Pad SMD 0201 125C T/R	Murata	GJM0335C1E200GB01D
10	1	C11	1.2pF, SM/C_0201	Cap Ceramic 1.2pF 25V C0G 0.1pF Pad SMD 0201 125°C	Johanson	250R05L1R2BV4T

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
				Ultra Low ESR T/R		
11	2	C13, C14	8.2pF, SM/C_0402	Cap Ceramic 8.2pF 50V C0G , Tol 1.2% 1Pad SMD 0402 125°C T/R	Murata	GJM1555C1H8R2BB01D
12	4	C15, C16, C21, C23	1uF, SM/C_0402	Ceramic Capacitor, Multilayer, Ceramic, 10V, 20% +Tol, 20% -Tol, X5R, 15% TC, 1uF, Surface Mount, 0402	Murata	GRM153R61A105ME95D
13	11	C17, C20, C22, C24, C25, C26, C31, C32, C33, C34, C35	100nF, SM/C_0402	Ceramic Capacitor, Multilayer, Ceramic, 25V, 10% +Tol, 10% -Tol, X7R, 15% TC, 0.1uF, Surface Mount, 0402	Murata	GRM155R71E104KE14D
14	2	C18, C19	20pF, SM/C_0402	Ceramic Capacitor, Multilayer, Ceramic, 50V, 2% +Tol, 2% -Tol, C0G, 30ppm/Cel TC, 0.00002uF, Surface Mount, 0402	Murata	GRM1555C1H200GA01D
15	2	C28, C29	10nF, SM/C_0402	Ceramic Capacitor, Multilayer, Ceramic, 16V, 10% +Tol, 10% -Tol, X7R, 15% TC, 0.01uF, Surface Mount, 0402	Murata	GRM155R71C103KA01D
16	1	C30	4u7F, SM/C_0603	Ceramic Capacitor, Multilayer, Ceramic, 16V, 10% +Tol, 10% -Tol, X5R, 15% TC, 4.7uF, Surface Mount, 0603	Murata	GRM185R61C475KE11D
17	1	CN1	M20-7821046	2.54mm (0.1") Pitch SIL Vertical PC Tail Socket Assembly, tin, 10 contacts (female side mounted to the top)	Harwin	M20-7821046

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
18	2	CN2, CN3	M20-7820842	2.54mm (0.1") Pitch SIL Vertical PC Tail Socket Assembly, selective gold + tin, 8 contacts (female side mounted to the top)	Harwin	M20-7820842
19	1	CN4	M20-7820646	2.54mm (0.1") Pitch SIL Vertical PC Tail Socket Assembly, tin, 6 contacts (female side mounted to the top)	Harwin	M20-7820646
20	1	CN5	DX07S016JA1R1500	USB Connector, 16 Contact(s), Female, Right Angle, Surface Mount Terminal, Locking, Receptacle	JAE	DX07S016JA1R1500
21	1	CN7	TSW-105-07-G-D	Conn Unshrouded Header HDR 10 POS 2.54mm Solder ST Top Entry Thru-Hole Bulk (Male mounted on top. Shunt fitted)	Samtec	TSW-105-07-G-D
22	2	DL1, DL3	KP-2012MGC, SM/D_0805	Single Color LED, Mega Green, Water Clear, 1.3mm	Kingbright	KP-2012MGC
23	2	DL2, DL4	KP-2012EC, SM/D_0805	Single Color LED, High Efficiency Red, Water Clear, 1.3mm	Kingbright	KP-2012EC
24	1	J1	U.FL-R-SMT-1(10)	RF Connector, 1 Contact(s), Male, Board Mount, Surface Mount Terminal, Receptacle	HIROSE	U.FL-R-SMT-1(10)
25	2	JP_VBLUE, JP_VBRD	TSW-102-07-G-S	CONN HEADER 2POS .100 SGL GOLD (Male mounted on top. Shunt fitted)	Samtec	TSW-102-07-G-S
26	1	L1	10uH, SM/L_0805	Rf Inductor, Multilayer, 10uH, 0.3A/0805 Rohs Compliant: Yes	Murata	LQM21DN100M70

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
27	1	L2	22nH, SM/L_0402	General Purpose Inductor, 0.022uH, 2%, 1 Element, SMD, 0402	Murata	LQG15HN22NG02
28	1	L3	1.8nH, SM/L_0201	Inductor RF Chip Multi-Layer 0.0018uH 0.3nH 100MHz 4Q-Factor Ceramic 0.3A 0.22Ohm DCR 0201 T/R	Johanson	L-05B1N8SV6T
29	3	PUSH1, PUSH2, RESET	B3FS-1010	Keypad Switch, 1 Switches, SPST, Momentary-tactile, 0.05A, 24VDC, 1.27N, Solder Terminal, Surface Mount-straight	Omron	B3FS-1010
30	1	Q1	NX2012SA-32.768KH Z-EXS00A-MU00389, NX2012SA	Crystal 32.7680KHZ 7PF SMD	NDK	NX2012SA-32.768KHZ-EXS00A-MU00389
31	1	Q2	NX2016SA-32MHZ-EXS00A-CS06654, NX2016SA	Crystal 32.0000MHZ 8PF SMD	NDK	NX2016SA-32MHZ-EXS00A-CS06654
32	1	Q3	MOSFET N-CH, SOT-23-3	Small Signal Field-Effect Transistor, 2.3A I(D), 20V, 1-Element, N-Channel, Silicon, Metal-oxide Semiconductor FET	ST	STR2N2VH5
33	1	Q4	MOSFET LGS LV MOSFET, SOT-23-3	Small Signal Field-Effect Transistor	ST	STR2P3LLH6
34	1	Q5	MMBFJ176, SOT-23	Small Signal Field-Effect Transistor, 1-Element, P-Channel, Silicon, Junction FET, TO-236AB	ON Semiconductor	MMBFJ176
35	1	R2	0 Ohm, SM/R_0201	Res Jumper Thick Film 0201 0 Ohm 5% 1/20W Molded SMD Paper T/R (Mount the resistor towards the antenna)	Yageo	RC0201JR-070RL
36	1	R3	0 Ohm, SM/R_0201	Res Jumper Thick Film 0201 0 Ohm 5%	Yageo	RC0201JR-070RL

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
				1/20W Molded SMD Paper T/R		
37	32	R4, R5, R17, R19, R30, R31, R33, R49, R50, R51, R52, R53, R54, R56,R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R18, R20, R21, R22, R23, R24,R25	0 Ohm, SM/R_0402	Metal Glaze/ thick Film, 0.0625W, 0ohm, Surface Mount, 0402	Yageo	RC0402JR-070RL
38	5	R26, R35, R41, R45, R47	680, SM/R_0402	Fixed Resistor, Metal Glaze/ thick Film, 0.0625W, 680ohm, 50V, 1% +/-Tol, 100ppm/Cel, Surface Mount, 0402	Yageo	RC0402FR-07680RL
39	2	R27, R34	1.5k, SM/R_0402	Fixed Resistor, Metal Glaze/ thick Film, 0.0625W, 1500ohm, 50V, 1% +/-Tol, 100ppm/Cel, Surface Mount, 0402	Yageo	RC0402FR-071K5L
40	4	R28, R32, R55, R57	10k, SM/R_0402	Fixed Resistor, Metal Glaze/ thick Film, 0.0625W, 10000ohm, 50V, 1% +/-Tol, 100ppm/Cel, Surface Mount, 0402	Yageo	RC0402FR-0710KL
41	4	R36, R38, R39, R48	100, SM/R_0402	Fixed Resistor, Metal Glaze/ thick Film, 0.0625W, 100ohm, 50V, 1% +/-Tol, 100ppm/Cel, Surface Mount, 0402	Yageo	RC0402FR-07100RL
42	1	R37	1M, SM/R_0402	Fixed Resistor, Metal Glaze/ thick Film, 0.0625W, 1000000ohm, 50V, 1% +/-Tol, 100ppm/Cel, Surface Mount, 0402	Yageo	RC0402FR-071ML
43	2	R42, R43	100k, SM/R_0402	Fixed Resistor, Metal Glaze/ thick Film, 0.0625W, 100000ohm, 50V, 1% +/-Tol,	Yageo	RC0402FR-07100KL

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
				100ppm/Cel, Surface Mount, 0402		
44	2	R58, R59	5.1k, SM/R_0201	Res Thick Film 0201 5.1K Ohm 1% 1/20W ±200ppm/°C Molded SMD Paper T/R	Yageo	RC0201FR-075K1L
45	3	TP1, TP2, TP3	5117	Interconnection Device	Keystone Electronics	5117
46	1	U1	BLUENRG-332VC, WLCSP36	BlueNRG-LPS WLCSP36	ST	BLUENRG-332VC
47	1	U2	LDK120M33R, SOT323-5L	Fixed Positive LDO Regulator, 3.3V, CMOS, PDSO5	ST	LDK120M33R
48	1	U3	USBLC6-2SC6, SOT23-6L	Trans Voltage Suppressor Diode, 5V V(RWM), Unidirectional, 1 Element, Silicon	ST	USBLC6-2SC6
49	1	U4	STM32F103RCT6, LQFP64	RISC Microcontroller, 32-Bit, FLASH, CORTEX-M3 CPU, 72MHz, CMOS, PQFP64	ST	STM32F103RCT6
50	1	U5	AAAF3529LSEEZGK QBKS	LED Tri-Color Blue/Green/Red 460nm/515nm/ 630nm 6-Pin SMD T/R	Kingbright	AAAF3529LSEEZGKQBKS
51	1	U6	LSM6DSOXTR, LGA14	Analog Circuit, 1 Func, CMOS, PBGA14	ST	LSM6DSOXTR
52	1	U7	LPS22HBTR, HLGA	Piezoresistive Sensor, Absolute, 3.77Psi Min, 18.27Psi Max, 0.2-1.5V, Square, Surface Mount	ST	LPS22HBTR
53	4	V1, V2, V3, V4	CBMFTS270A	Spacer M3/15mm (Use nylon M3 nuts on each spacer -709940300)	Essentra Components	CBMFTS270A
54	1	X1	MLPF-NRG-01D3, CSP	2.4 GHz low pass filter matched to BLUENRG-LP- LPS (BLUENRG-3x5 Vx, BLUENRG-3x5 Ax,	ST	MLPF-NRG-01D3

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
				BLUENRG-332 xx) in QFN and CSP packages		
55	1	X2	FOXSLF/080-20	Parallel - Fundamental Quartz Crystal, 8MHz Nom	FOX	FOXSLF/080-20

Evaluation board license agreement

Important: All information on this document is subject to this Evaluation Board License Agreement.

By using this evaluation board or kit (together with all related software, firmware, components, and documentation provided by ST, "Evaluation Board"), You ("You") are agreeing to be bound by the terms and conditions of this Evaluation Board License Agreement ("Agreement"). Do not use the Evaluation Board until You have read and agreed to this Agreement. Your use of the Evaluation Board constitutes Your acceptance of this Agreement.

LICENSE

STMicroelectronics ("ST") grants You the right to use the enclosed Evaluation Board offering limited features only to evaluate and test ST products solely for Your evaluation and testing purposes in a research and development setting. The Evaluation Board shall not be, in any case, directly or indirectly assembled as a part in any production of Yours as it is solely developed to serve evaluation purposes and has no direct function and is not a finished product. If software and/or firmware is accompanied by a separate end user license agreement ("EULA"), then such software and/or firmware shall be governed by such EULA.

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The Evaluation Board offers limited features allowing You only to evaluate and test the ST products. The Evaluation Board is not intended for consumer or household use. You are not authorized to use the Evaluation Board in any production system, and it may not be offered for sale or lease, or sold, leased or otherwise distributed for commercial purposes. If the Evaluation Board is incorporated in an evaluation system, the evaluation system may be used by You solely for Your evaluation and testing purposes. Such evaluation system may not be offered for sale or lease or sold, leased or otherwise distributed for commercial purposes and must be accompanied by a conspicuous notice as follows: "This device is not, and may not be, offered for sale or lease, or sold or leased or otherwise distributed for commercial purposes".

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RESTRICTIONS AND WARNINGS

Before You handle or use the Evaluation Board, You must carefully review any related documentation provided by ST. Such documentation may contain important warnings. You shall comply with all such warnings and other instructions and employ reasonable safety precautions in using the Evaluation Board. Failure to do so may result in death, personal injury, or property damage. If You have any questions regarding the safe usage of the Evaluation Board, You should contact ST for guidance.

You may not sell, assign, sublicense, lease, rent or otherwise distribute the Evaluation Board for commercial purposes, in whole or in part, or use Evaluation Board in a production system, with the exception that if You are an authorized ST distributor, You may resell the Evaluation Board in compliance with the applicable terms and conditions. Except as provided in this Agreement or as explicitly permitted in the documentation of the Evaluation Board, You may not reproduce the Evaluation Board or modify, reverse engineer, de-compile or disassemble its software and/or firmware, in whole or in part.

You shall not use the Evaluation Board in any safety critical or functional safety testing, including but not limited to testing of life supporting, military or nuclear applications. ST expressly disclaims any responsibility for such usage which shall be made at Your sole risk, even if ST has been informed in writing of such usage. Unless expressly designated in writing by ST as suitable for use in testing automotive or aerospace applications, You shall not use the Evaluation Board in such testing.

Notice applicable to Evaluation Boards according to European Regulation

For the European Regulation of the Evaluation Board, the applicable EU directives are considered, with a particular attention to the Low Voltage Directive (LVD) 2014/35/EU, the Electromagnetic Compatibility (EMC) Directive 2014/30/EU, and the Radio Equipment Directive (RED) 2014/53/EU. If the Evaluation Board is outside the scope of the foregoing Directives, then the General Product Safety Directive (GPSD) 2001/95/EC and Council Directive 93/68/EEC, amending Directive 73/23/EEC on electrical equipment designed for use within certain voltage limits, are applicable.

The Evaluation Board meets the requirements of the Restriction of Hazardous Substances (RoHS 2 or RoHS recast) Directive 2011/65/EU, Annex II, as amended by Directive 2015/863/EU.

Notice applicable to Evaluation Boards not FCC-Approved

This kit is designed to allow:

1. Product developers to evaluate electronic components, circuitry, or software associated with the kit to determine whether to incorporate such items in a finished product and
2. Software developers to write software applications for use with the end product.

This kit is not a finished product and when assembled may not be resold or otherwise marketed unless all required FCC equipment authorizations are first obtained. Operation is subject to the condition that this product not cause harmful interference to licensed radio stations and that this product accept harmful interference. Unless the assembled kit is designed to operate under part 15, part 18 or part 95 of 47 CFR, Chapter I ("FCC Rules"), the operator of the kit must operate under the authority of an FCC license holder or must secure an experimental authorization under part 5 of this chapter.

For Evaluation Boards annotated as FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 Compliant

- **FCC Interference Statement for Class A Evaluation Boards:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- **FCC Interference Statement for Class B Evaluation Boards:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARRANTY

ST WARRANTS THAT IT HAS THE RIGHT TO PROVIDE THE EVALUATION BOARD TO YOU. THIS WARRANTY IS PROVIDED BY ST IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, OR UNINTERRUPTED OR ERROR-FREE OPERATION, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. THE EVALUATION BOARD IS PROVIDED "AS IS".

YOU WARRANT TO ST THAT YOU WILL ENSURE THE EVALUATION BOARD IS USED ONLY BY ELECTRONICS EXPERTS WHO UNDERSTAND THE DANGERS OF HANDLING AND USING SUCH ITEMS, YOU ASSUME ALL RESPONSIBILITY AND LIABILITY FOR ANY IMPROPER OR UNSAFE HANDLING OR USE OF THE EVALUATION BOARD BY YOU, YOUR EMPLOYEES, AFFILIATES, CONTRACTORS, AND DESIGNEES.

LIMITATION OF LIABILITIES

IN NO EVENT SHALL ST BE LIABLE TO YOU, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL, PUNITIVE, OR EXEMPLARY DAMAGES WITH RESPECT TO ANY MATTERS RELATING TO THIS AGREEMENT, REGARDLESS OF WHETHER ST HAS BEEN ADVISED OF THE POSSIBILITY OF THE SAME. IN NO EVENT SHALL ST'S LIABILITY ARISING OUT OF THIS AGREEMENT IN THE AGGREGATE EXCEED THE AMOUNT PAID BY YOU UNDER THIS AGREEMENT FOR THE PURCHASE OF THE EVALUATION BOARD, OR TEN UNITED STATES DOLLARS (\$10.00) IF NO PURCHASE PRICE WAS PAID.

INDEMNIFICATION

You shall, at Your expense, defend ST and its Affiliates against a claim or action brought by a third party for infringement or misappropriation of any patent, copyright, trade secret or other intellectual property right of a third party to the extent resulting from (1) Your combination of the Evaluation Board with any other component, system, software, or firmware, (2) Your modification of the Evaluation Board, or (3) Your use of the Evaluation Board in a manner not permitted under this Agreement.

You shall indemnify ST and its Affiliates against and pay any resulting costs and damages finally awarded against ST or its Affiliates or agreed to in any settlement, provided that You have sole control of the defense and settlement of the claim or action, and ST cooperates in the defense and furnishes all related evidence under its control at Your expense. ST will be entitled to participate in the defense of such claim or action and to employ counsel at its own expense.

"Affiliates" means any corporation or other entity directly or indirectly controlled by, controlling or under common control with the entity in question, for so long as such ownership exists. "Control" means the direct or indirect beneficial ownership of more than fifty (50%) percent of the stock or other equity interests entitled to vote for the election of directors or an equivalent governing body. Any such corporation or other legal entity shall be deemed to be an Affiliate of such Party only as long as such Control exists.

TERMINATION

ST may terminate this Agreement without notice if You breach this Agreement. Upon termination, You shall immediately destroy or return all copies of the software, firmware, and documentation of the Evaluation Board to ST and certify in writing to ST that You have done so.

APPLICABLE LAW AND JURISDICTION

This Agreement shall be governed, construed and enforced in accordance with the laws of Switzerland, without regard to its conflict of laws rules. The UN Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. In case of dispute and in the absence of an amicable settlement, the only competent jurisdiction shall be the Courts of Geneva, Switzerland. Any breach of this Agreement by You may result in irreparable damage to ST for which ST will not have an adequate remedy at law. Accordingly, in addition to any other remedies and damages available, You acknowledge and agree that ST may immediately seek enforcement of this Agreement in any jurisdiction by means of specific performance or injunction, without any requirement to post a bond or other security.

SEVERABILITY

If any provision of this agreement is or becomes, at any time or for any reason, unenforceable or invalid, no other provision of this agreement shall be affected thereby, and the remaining provisions of this agreement shall continue with the same force and effect as if such unenforceable or invalid provisions had not been inserted in this Agreement. In addition, any unenforceable or invalid provision shall be deemed replaced by a provision that is valid and enforceable and that comes closest to expressing the intention of the unenforceable or invalid provision.

WAIVER

The waiver by either party of any breach of any provision of this Agreement shall not operate or be construed as a waiver of any other or a subsequent breach of the same or a different provision.

RELATIONSHIP OF THE PARTIES

Nothing in this Agreement shall create, or be deemed to create, any joint venture, partnership, principal-agent, employer-employee or other relationship between the Parties, except that of independent contractors. Neither Party has the authority or power to bind, to contract in the name of, or to create a liability for the other in any way or for any purpose.

SURVIVAL

Any provision of this Agreement which imposes an obligation after termination of this Agreement shall survive the termination of this Agreement.

SECTION HEADINGS

Section headings are inserted for convenience only and shall not be used to interpret this Agreement.

WASTE AND RECYCLING

The Evaluation Board is not to be disposed of as urban waste. At the end of its life cycle, differentiated waste collection must be followed. Consult the local authorities for more information on the proper disposal channels. It is mandatory to separately collect the Evaluation Board and make sure it is delivered it to the appropriate waste management and recycling centers.

As of 15 August 2018, in all the countries belonging to the European Union, the Evaluation Board is subject to the WEEE Directive 2012/19/EU requirement; therefore, it is forbidden to dispose of the Evaluation Board as undifferentiated waste or with other domestic wastes. Consult the local authorities for more information on the proper recycling centers.

Disposing of the Evaluation Board incorrectly may cause damage to the environment and may be subject to fines based on specific countries' rules.

IMPORTANT NOTICE – READ CAREFULLY

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