# 74AHC2G00; 74AHCT2G00

# **Dual 2-input NAND gate**

Rev. 3 — 27 March 2013

Product data sheet

### 1. General description

The 74AHC2G00; 74AHCT2G00 are high-speed Si-gate CMOS devices. They provide two 2-input NAND gates.

The AHC device has CMOS input switching levels and supply voltage range 2 V to 5.5 V.

The AHCT device has TTL input switching levels and supply voltage range 4.5 V to 5.5 V.

### 2. Features and benefits

- Symmetrical output impedance
- High noise immunity
- ESD protection:
  - ◆ HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
  - CDM JESD22-C101C exceeds 1000 V
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

## 3. Ordering information

Table 1. Ordering information

Type number	Package	Package											
	Temperature range	Name	Description	Version									
74AHC2G00DP	–40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body	SOT505-2									
74AHCT2G00DP		width 3 mm; lead length 0.5 mm											
74AHC2G00DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads;	SOT765-1									
74AHCT2G00DC	-40 °C to +125 °C TSSOP -40 °C to +125 °C VSSOP		body width 2.3 mm										
74AHC2G00GD	–40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads;	SOT996-2									
74AHCT2G00GD			8 terminals; body $3 \times 2 \times 0.5$ mm										



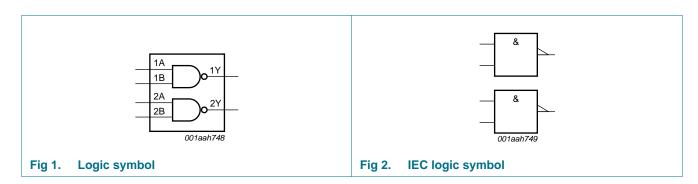
## 4. Marking

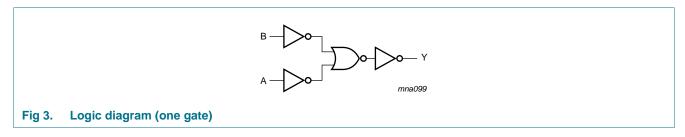
Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74AHC2G00DP	A00
74AHCT2G00DP	C00
74AHC2G00DC	A00
74AHCT2G00DC	C00
74AHC2G00GD	A00
74AHCT2G00GD	C00

<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

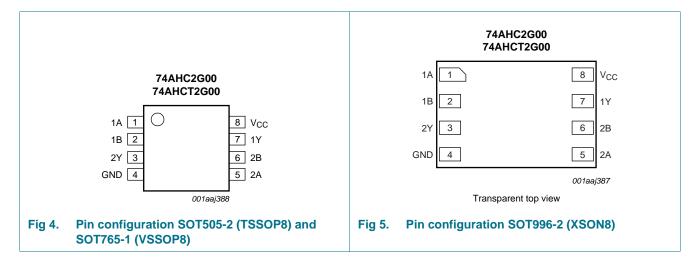
# 5. Functional diagram





# 6. Pinning information

#### 6.1 Pinning



### 6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
1A, 2A	1, 5	data input
1B, 2B	2, 6	data input
GND	4	ground (0 V)
1Y, 2Y	7, 3	data output
V <sub>CC</sub>	8	supply voltage

# 7. Functional description

Table 4. Function table[1]

Input		Output
nA	nB	nY
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

<sup>[1]</sup> H = HIGH voltage level; L = LOW voltage level.

### 8. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{CC}$	supply voltage		-0.5	+7.0	V
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_1 < -0.5 \text{ V}$	<u>[1]</u> –20	-	mA
$I_{OK}$	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> -	±20	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±25	mA
I <sub>CC</sub>	supply current		-	75	mA
$I_{GND}$	ground current		<b>-75</b>	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
$P_{tot}$	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$	[2] _	250	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

### 9. Recommended operating conditions

Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	74	AHC2G	00	74	Unit			
			Min	Тур	Max	Min	Тур	Max		
$V_{CC}$	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V	
VI	input voltage		0	-	5.5	0	-	5.5	V	
Vo	output voltage		0	-	$V_{CC}$	0	-	$V_{CC}$	V	
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C	
Δt/ΔV	input transition rise	$V_{CC}$ = 3.3 V $\pm$ 0.3 V	-	-	100	-	-	-	ns/V	
	and fall rate	$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$	-	-	20	-	-	20	ns/V	

#### 10. Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	25 °C			–40 °C t	o +85 °C	-40 °C t	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74AHC2	G00									
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 2.0 \text{ V}$	1.5	-	-	1.5	-	1.5	-	V
		$V_{CC} = 3.0 \text{ V}$	2.1	-	-	2.1	-	2.1	-	V
		V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V

<sup>[2]</sup> For TSSOP8 package: above 55 °C the value of P<sub>tot</sub> derates linearly with 2.5 mW/K. For VSSOP8 package: above 110 °C the value of P<sub>tot</sub> derates linearly with 8 mW/K. For XSON8 package: above 45 °C the value of P<sub>tot</sub> derates linearly with 2.4 mW/K.

**Table 7. Static characteristics** ...continued Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C t	o +125 °C	Uni
			Min	Тур	Max	Min	Max	Min	Max	
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	٧
	input voltage	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = -50 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O = -50 \mu A; V_{CC} = 3.0 \text{ V}$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_O = -50 \mu A$ ; $V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{O} = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = 50 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 3.0 \text{ V}$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		$I_O = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
I	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μА
CC	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	10	-	10	-	40	μΑ
Cı	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT	2G00									
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	-	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	8.0	-	0.8	-	0.8	V
/ <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -50 \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -8.0 \text{ mA}$	3.94	-	-	3.8	-	3.70	-	V
/ <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 8.0 \text{ mA}$	-	-	0.36	-	0.44	-	0.55	V
I	input leakage current	$V_I = 5.5 \text{ V or GND};$ $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	0.1	-	1.0	-	2.0	μА
CC	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	10	-	40	μА
VI <sub>CC</sub>	additional supply current	per input pin; $V_I = 3.4 \text{ V}$ ; other inputs at $V_{CC}$ or GND; $I_O = 0 \text{ A}$ ; $V_{CC} = 5.5 \text{ V}$	-	-	1.35	-	1.5	-	1.5	mΑ
Cı	input capacitance		-	1.5	10	-	10	-	10	pF

# 11. Dynamic characteristics

#### Table 8. Dynamic characteristics

GND = 0 V; for test circuit see Figure 7.

Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	-40 °C t	o +125 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max	
74AHC2	G00						'				
t <sub>pd</sub>	propagation	nA, nB to nY; see Figure 6	[1]								
	delay	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[2]								
		C <sub>L</sub> = 15 pF		-	4.5	7.9	1.0	9.5	1.0	10.5	ns
		$C_L = 50 pF$		-	6.5	11.4	1.0	13.0	1.0	14.5	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	[3]								
		C <sub>L</sub> = 15 pF		-	3.5	5.5	1.0	6.5	1.0	7.0	ns
		$C_L = 50 pF$		-	4.9	7.5	1.0	8.5	1.0	9.5	ns
$C_{PD}$	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}$ ; $f_i = 1 \text{ MHz}$ ; $V_I = \text{GND to V}_{CC}$	[4]	-	17	-	-	-	-	-	pF
74AHCT	2G00										
t <sub>pd</sub>	propagation	nA, nB to nY; see Figure 6	[1]								
	delay	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	[3]								
		C <sub>L</sub> = 15 pF		1.0	3.6	6.2	1.0	7.1	1.0	8.0	ns
		$C_L = 50 pF$		1.0	5.0	7.9	1.0	9.0	1.0	10.0	ns
$C_{PD}$	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}$ ; $f_i = 1 \text{ MHz}$ ; $V_I = \text{GND to V}_{CC}$	[4]	-	18	-	-	-	-	-	pF

<sup>[1]</sup>  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

 $P_D = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}{}^2 \times f_o) \text{ where:}$ 

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V;

N = number of inputs switching;

 $\Sigma (C_L \times V_{CC}{}^2 \times f_o)$  = sum of the outputs.

<sup>[2]</sup> Typical values are measured at  $V_{CC} = 3.3 \text{ V}$ .

<sup>[3]</sup> Typical values are measured at  $V_{CC} = 5.0 \text{ V}$ .

<sup>[4]</sup>  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

### 12. Waveforms

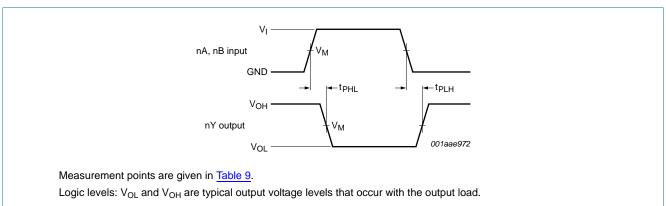
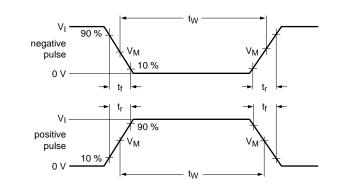


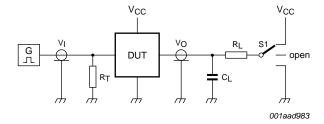
Fig 6. The input (nA and nB) to output (nY) propagation delays.

Table 9. Measurement points

Туре	Input	Output
	V <sub>M</sub>	V <sub>M</sub>
74AHC2G00	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
74AHCT2G00	1.5 V	0.5V <sub>CC</sub>

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Test data is given in Table 10.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator.

 $C_L$  = Load capacitance including jig and probe capacitance.

 $R_1$  = Load resistance.

S1 = Test selection switch.

Fig 7. Test circuit for measuring switching times

Table 10. Test data

Туре	Input Input		Load	S1 position	
	VI	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub>	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>
74AHC2G00	$V_{CC}$	≤ 3 ns	15 pF, 50 pF	1 kΩ	open
74AHCT2G00	3 V	≤ 3 ns	15 pF, 50 pF	1 kΩ	open

# 13. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

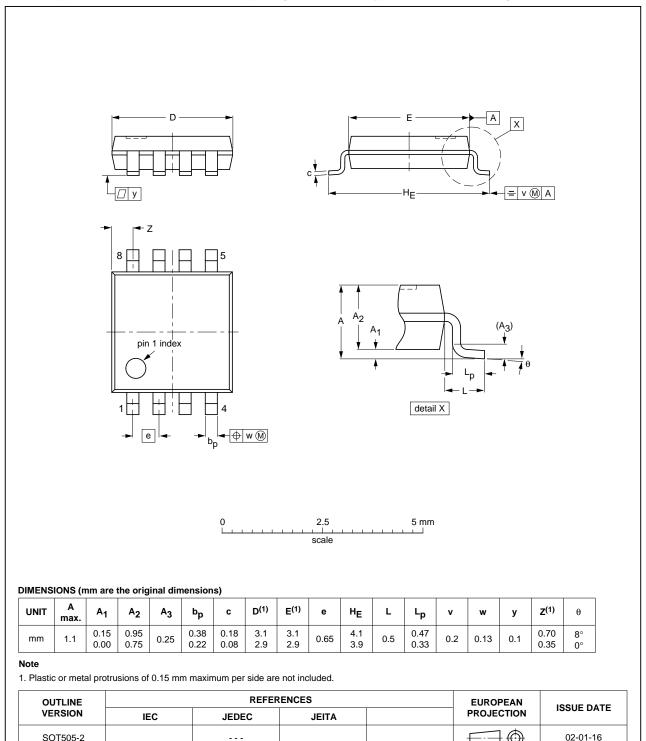
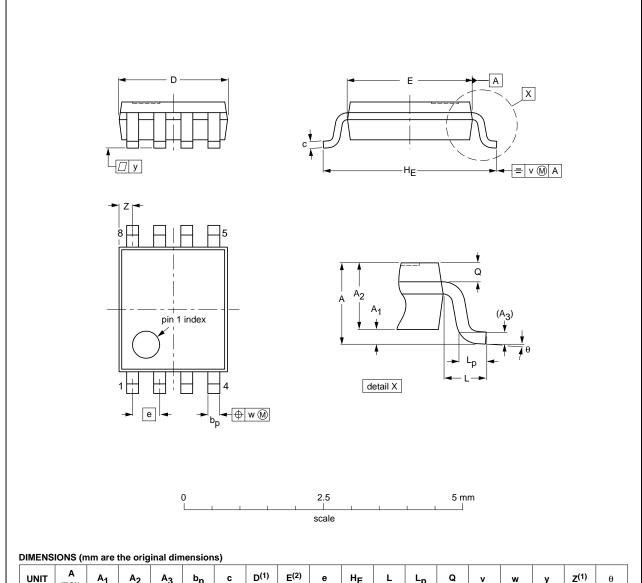


Fig 8. Package outline SOT505-2 (TSSOP8)

74AHC\_AHCT2G00 All information provided in this document is subject to legal disclaimers.

#### VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1



UN	IIT	A max.	A <sub>1</sub>	A <sub>2</sub>	А3	bp	С	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	θ
m	m	1	0.15 0.00	0.85 0.60	0.12	0.27 0.17	0.23 0.08	2.1 1.9	2.4 2.2	0.5	3.2 3.0	0.4	0.40 0.15	0.21 0.19	0.2	0.13	0.1	0.4 0.1	8° 0°

#### Notes

- Plastic or metal protrusions of 0.15 mm maximum per side are not included.
   Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE	REFERENCES				EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT765-1		MO-187				02-06-07

Fig 9. Package outline SOT765-1 (VSSOP8)

74AHC\_AHCT2G00

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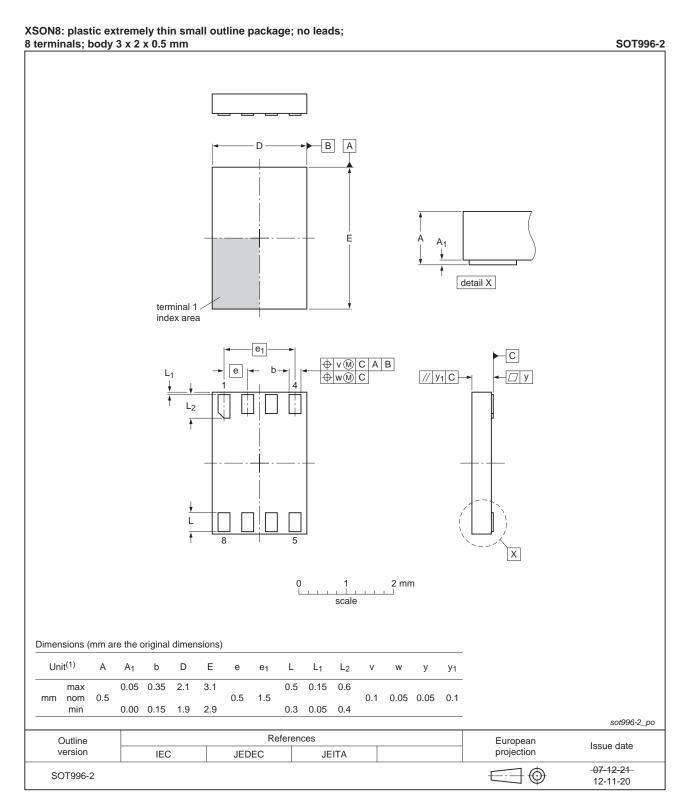


Fig 10. Package outline SOT996-2 (XSON8)

74AHC\_AHCT2G00

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### 14. Abbreviations

#### Table 11. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

# 15. Revision history

#### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT2G00 v.3	20130327	Product data sheet	-	74AHC_AHCT2G00 v.2
Modifications:	<ul> <li>For type nui XSON8.</li> </ul>	mbers 74AHC2G00GD and	74AHCT2G00GD XSO	N8U has changed to
74AHC_AHCT2G00 v.2	20090112	Product data sheet	-	74AHC_AHCT2G00 v.1
74AHC_AHCT2G00 v.1	20040101	Product specification	-	-

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### 16. Legal information

#### 16.1 Data sheet status

Document status[1][2]	Product status[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

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74AHC\_AHCT2G00

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# 74AHC2G00; 74AHCT2G00

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### 18. Contents

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