



Technical report

LORE Citizen

Panel 47 – 2022

Please use the following citation when using data from Citizen Panel 47:

Martinsson, J., Andreasson, M., Cassel, F., Cassel, S., Garcia-Nilsson, A., Wessman, F. (2022). *Technical report Citizen Panel 47 – 2022*, Gothenburg: University of Gothenburg, LORE.

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Glossary

<i>Break-offs</i>	Type of nonresponse. Defined as responses with more than 50 percent item nonresponse.
<i>Completion rate (COMR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all survey invitees in a probability-based panel sample (COMR=complete responses/all survey invitees).
<i>Date of reminders</i>	Reminders are sent by email to those in the sample who have not yet completed the survey.
<i>E-mail bounces</i>	Due to automatic spam filters and similar services, or incorrect e-mail addresses, certain e-mails may result in a bounce, i.e. a non-contact. Includes both “hard” and “soft” bounces.
<i>Field period</i>	The field period is the time from the first to the last field day.
<i>Item response rate</i>	Calculated by dividing the number of item responses with the number of received/applicable items.
<i>Net completion rate (NCOMR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all survey invitees excluding email bounces in a probability-based panel sample (NCOMR=complete responses/all survey invitees-email bounces).
<i>Net participation rate (NPR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all survey invitees excluding email bounces in a non-probability based panel sample or mix probability and non-probability panel sample (NPR=complete responses/all survey invitees-email bounces).
<i>Number of received/applicable items</i>	The number of questions the participant received in the survey or would have received if the participant finished the survey.
<i>Outliers (sleepers)</i>	A respondent is defined as a sleeper if the mean time-use per question/item is more than the third quartile plus 1.5 times the interquartile range ($Q_3 + 1.5 \times IQR$).
<i>Outliers (speeders)</i>	A respondent is defined as a speeder if the mean time-use per question/item is less than the first quartile minus half the interquartile range ($Q_1 - 0.5 \times IQR$).
<i>Partial response</i>	Defined as responses with more than 20 and less than 50 percent item nonresponse.
<i>Participation rate (PR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all survey invitees in a non-probability based panel sample or mix probability and non-probability panel sample (PR=complete responses/all survey invitees).
<i>Responses</i>	The number of surveys completed that are registered on the last field day.
<i>Study</i>	A study is a featured specific study, e.g. an experiment, or a set of panel questions with a specific purpose, or some other kind of specific and delimited study.

Introduction

The Swedish Citizen Panel (SCP)

The Swedish Citizen Panel (SCP) (Swedish: Medborgarpanelen – MP) is a non-commercial online access panel run by the Laboratory of Opinion Research (LORE), which is a part of the SOM Institute at the University of Gothenburg. Today, LORE is a research infrastructure for collecting data from online questionnaires, mainly for survey experiments and panel studies. An essential part of LORE is also to contribute to methodological development and testing in the area of web surveys.

The Swedish Citizen Panel consists of approximately 75 000 pre-recruited panelists who have agreed to participate in research surveys in earlier recruitment efforts. Around 20 percent of the panel is recruited using a probability-based recruitment method, while remaining 80 percent of the panel is self-recruited. The Swedish Citizen Panel does not offer the participants any economic compensation for their participation.

The data collections tend to follow omnibus survey style where respondents answer questions on several topics and may participate in several different survey experiments. The topics and survey experiments are administered in collaboration with researchers and these collaborations are referred to as “studies” in this report. In addition to the studies, the respondents answer general questions not specific to any of the specific studies.

Citizen Panel 47 (MP47)

- The Citizen Panel 47 was administered between Tuesday September 13, 2022¹, and Thursday October 13, 2022.
- A total of 90 374 panelists were invited to complete the questionnaire, out of which 84 763 were reached by the invitation. Furthermore, 55 444 of the panelists clicked on the link to the questionnaire, and 53 615 answered more than 80% of the applicable questions (Participation Rate: 59% and Net Participation Rate (excluding those who could not be reached): 63%).
- Respondents in the panel were recruited by both probability and non-probability based methods. What type of sample used in each respective study is defined in this report.
- All in all, there were 10 studies included in the Citizen Panel 47.

¹ Except for study 5 - The campaign panel 2022 wave 3 - which was put into field on Monday September 12.

Completion and participation estimations

The technical report reports four types of participation rates, following AAPOR (2016, p. 49) standard definitions for Probability-based Internet Panels and Non-probability based Internet Panels.

If the sample of respondents was drawn solely from the probability-based internet panel of SCP, Completion Rate (COMR) (Eq.1.) and Net Completion Rate (NCOMR) (Eq.2.) is reported.

If the sample of respondents was drawn from both the probability-based internet panel and the non-probability based internet panel, or if the sample was drawn solely from the non-probability based internet panel, Participation Rate (PR) (Eq.3) and Net Participation Rate (NPR) (Eq.4) is reported.

SCP recommend that COMR and PR be reported in publications referring to a specific study.

Completion rate (probability-based internet panel)

$$\text{Eq.1. Completion rate (COMR)} = \frac{I}{(I+P)+(R+NC+O)}$$

$$\text{Eq.2. Net completion rate (NCOMR)} = \frac{I}{(I+P)+(R+O)}$$

Participation rate (non-probability based internet panel or mix probability and non-probability panel)

$$\text{Eq.3. Participation rate (PR)} = \frac{I}{(I+P)+(R+NC+O)}$$

$$\text{Eq.4. Net participation rate (NPR)} = \frac{I}{(I+P)+(R+O)}$$

I (Interview) refer to a completed study where the respondent answered 80% or more of the questions they would have gotten.

P (Partial) refer to a partial study where the respondent answered 50% or more but fewer than 80% of the questions they would have gotten.

R (Refusal) refer to a refused questionnaire where the respondent was contacted but did not click on the link to the questionnaire. *R* also refer to break-offs where the respondent started the study but answered fewer than 50% of the question they would have gotten.

NC (Non-contact) refer to a questionnaire invitation that during the entire field period never reached the respondent's email (i.e., the email invitation bounced in the first invitation and in all of the reminder emails).

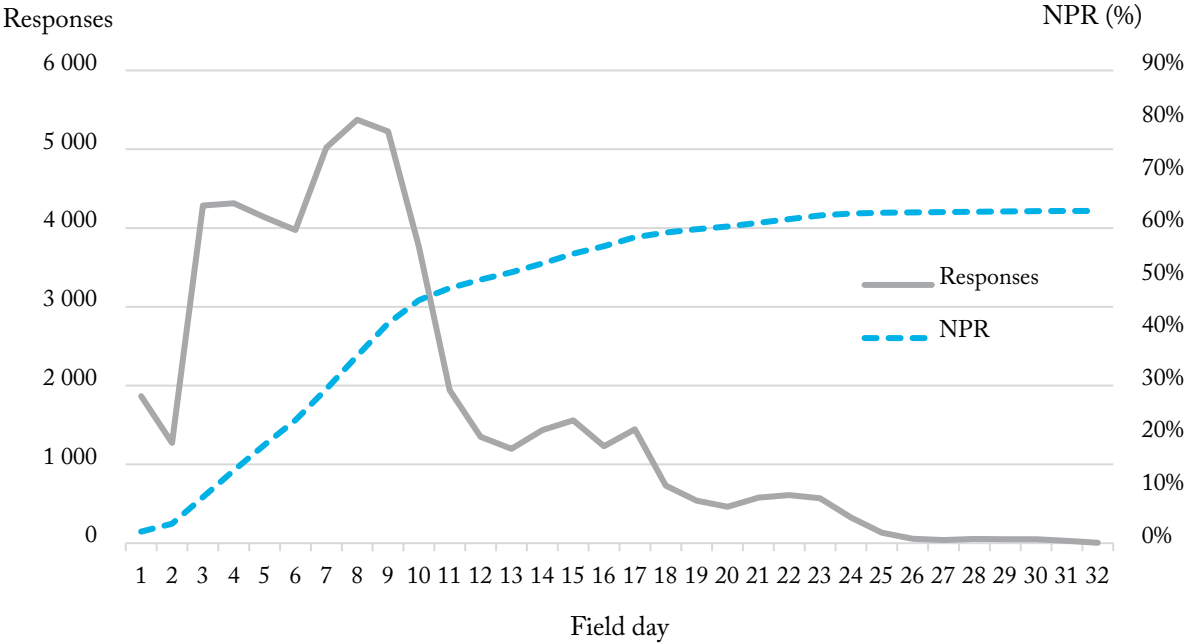
O (Other) refer to other categories of nonresponse. Examples of such categories are that the respondent terminated their participation in the SCP in the time between being selected to be invited and having their invitation emailed to them, did not accept the terms of participation in the panel, died, was physically or mentally unable to complete the questionnaire, or had notified that they had moved abroad (i.e. emigrated from Sweden).

Fieldwork

Table 1: Field information²

Name	Citizen Panel 47 (MP47)
No. of field days	31
Soft launch	Day 1: Tuesday September 13, 19:04, 2022
Main launch	Day 2: Wednesday September 14, 10:40, 2022
Reminder 1	Day 9: Wednesday September 21, 08:00, 2022
Reminder 2	Day 16: Wednesday September 28, 14:00, 2022
Field end	Day 31: Thursday October 13, 09:10, 2022

Figure 1: Number of responses / cumulative net participation rate (%) by field day



² In Citizen Panel 47 a ‘rolling thunder’ invitation design was used in which respondents in study 1, 3, 7, 8 and 9 received the email invitation and reminders on a randomized day (Wednesday September 13 to Wednesday September 20) and time (08:00, 12:00, 16:00 or 20:00). The table therefore reports date and time of launch, reminders and field end for the sample that was not part of the ‘rolling thunder’ invitation design.

Featured studies

Table 2: Featured studies in Citizen Panel 47

<i>Study:</i>	<i>Title:</i>	<i>Principal investigator(s):</i>
Study 1	The LORE panel - wave 30	Johan Martinsson
Study 2	The family home assignment	Judith Lind
Study 3	Linguistic explorations of societies	Stefan Dahlberg
Study 4	The liberalizing effect of higher education – wave 3	Mikael Hjerm
Study 5	The campaign panel 2022 – wave 3	Henrik Ekengren Oscarsson
Study 6	Election poll 2022	LORE
Study 7	Collective action problems in water systems	Anna Bendz
Study 8	Post-election survey 2022	LORE
Study 9	Survey methodology: Replication of experiments in the Swedish Citizen Panel	LORE
Study 10	Survey methodology: The effect of timing of survey invites and reminders on response rates	LORE

Study 1: The LORE panel – wave 30

Table 3: Study 1, The LORE panel – wave 30

Sample		Non-probability
Source		Panelists
Pre-stratification variables or other selection criteria		23+
Age frame		
Sample disposition		
Total panelists invited ($I+P+R+NC+O$)		5 211
Completed study; more than 80% answered questions (I)		3 179
Partial study; 50%-80% answered questions (P)		14
Break-offs; fewer than 50% answered questions (R)		44
Refusals (R)		1 523
E-mail bounce backs or failed deliveries (NC)		451
Other (O)		0
Participation rate		
Participation rate (PR)		61%
Net participation rate (NPR)		67%
Devices among completes		
Computer device		40%
Mobile device		51%
Tablet device		9%

Table 4: Details on Study 1, The LORE panel – wave 30

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	71.95	72.00	0.39	3 237
Number of item responses	70.77	72.00	7.33	3 237
Item response rate	0.98	1.00	0.10	3 237
Minutes to answer, excluding outliers	9.44	8.61	3.81	2 979
Seconds per item, excluding outliers	8.06	7.13	7.78	2 978
Minutes to answer, including outliers	13.26	8.88	133.04	3 235
Seconds per item, including outliers	11.22	7.38	109.58	3 234
Seconds per item, speeders	2.89	3.02	0.38	38
Seconds per item, sleepers	55.81	22.14	419.43	218

Study 2: The family home assignment

Table 5: Study 2: The family home assignment

Sample		Probability
Source		Sex * Age * Education
Pre-stratification variables or other selection criteria		
Age frame		25-64
Sample disposition		
Total panelists invited ($I+P+R+NC+O$)		4 500
Completed study; more than 80% answered questions (I)		1 922
Partial study; 50%-80% answered questions (P)		48
Break-offs; fewer than 50% answered questions (R)		176
Refusals (R)		2 172
E-mail bounce backs or failed deliveries (NC)		181
Other (O)		1
Completion rate		
Completion rate (COMR)		43%
Net completion rate (NCOMR)		45%
Devices among completes		
Computer device		33%
Mobile device		61%
Tablet device		6%

Table 6: Details on Study 2: The family home assignment

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	49.94	50.00	0.43	2 146
Number of item responses	45.26	50.00	12.69	2 146
Item response rate	0.91	1.00	0.25	2 146
Minutes to answer, excluding outliers	6.64	6.29	2.93	1 953
Seconds per item, excluding outliers	8.93	7.80	4.73	1 953
Minutes to answer, including outliers	7.94	6.42	13.18	2 107
Seconds per item, including outliers	10.42	8.06	16.23	2 107
Seconds per item, speeders	3.08	3.18	0.46	32
Seconds per item, sleepers	36.18	23.01	59.21	122

Study 3: Linguistic explorations of societies

Table 7: Study 3, Linguistic explorations of societies

Sample	
Source	Non-probability
Pre-stratification variables or other selection criteria	Sex * Age * Education
Age frame	18-85
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	4 500
Completed study; more than 80% answered questions (I)	2 562
Partial study; 50%-80% answered questions (P)	7
Break-offs; fewer than 50% answered questions (R)	23
Refusals (R)	1 646
E-mail bounce backs or failed deliveries (NC)	261
Other (O)	1
Participation rate	
Participation rate (PR)	57%
Net participation rate (NPR)	60%
Devices among completes	
Computer device	28%
Mobile device	64%
Tablet device	8%

Table 8: Details on Study 3, Linguistic explorations of societies

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	2.99	3.00	0.13	2 592
Number of item responses	2.97	3.00	0.27	2 592
Item response rate	0.99	1.00	0.09	2 592
Minutes to answer, excluding outliers	0.74	0.66	0.32	2 401
Seconds per item, excluding outliers	11.22	9.98	5.30	2 398
Minutes to answer, including outliers	0.91	0.69	0.94	2 589
Seconds per item, including outliers	13.79	10.36	14.33	2 586
Seconds per item, speeders	3.32	3.33	0.25	19
Seconds per item, sleepers	51.50	37.08	34.97	169

Study 4: The liberalizing effect of higher education – wave 3

Table 9: Study 4, The liberalizing effect of higher education – wave 3

Sample	
Source	Non-probability
Pre-stratification variables or other selection criteria	Not initiated university studies
Age frame	19-31
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	1 161
Completed study; more than 80% answered questions (I)	270
Partial study; 50%-80% answered questions (P)	3
Break-offs; fewer than 50% answered questions (R)	17
Refusals (R)	813
E-mail bounce backs or failed deliveries (NC)	58
Other (O)	0
Participation rate	
Participation rate (PR)	23%
Net participation rate (NPR)	24%
Devices among completers	
Computer device	29%
Mobile device	67%
Tablet device	4%

Table 10: Details on Study 4, The liberalizing effect of higher education – wave 3

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	19.98	20.00	0.69	290
Number of item responses	18.88	20.00	4.17	290
Item response rate	0.94	1.00	0.21	290
Minutes to answer, excluding outliers	3.11	2.88	1.32	262
Seconds per item, excluding outliers	9.40	8.56	4.45	258
Minutes to answer, including outliers	3.64	2.97	3.32	288
Seconds per item, including outliers	11.02	8.69	9.90	284
Seconds per item, speeders	3.60	3.74	0.44	7
Seconds per item, sleepers	35.65	25.10	23.62	19

Study 5: The campaign panel 2022 – wave 3

Table 11: Study 5, The campaign panel 2022 – wave 3

Sample	
Source	Probability (46%) Non-probability (54%)
Pre-stratification variables or other selection criteria	Sex * Age * Education
Age frame	18-85
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	8 685
Completed study; more than 80% answered questions (I)	4 588
Partial study; 50%-80% answered questions (P)	55
Break-offs; fewer than 50% answered questions (R)	166
Refusals (R)	3 445
E-mail bounce backs or failed deliveries (NC)	429
Other (O)	2
Participation rate	
Participation rate (PR)	53%
Net participation rate (NPR)	56%
Devices among completers	
Computer device	33%
Mobile device	59%
Tablet device	8%

Table 12: Details on Study 5, The campaign panel 2022 – wave 3

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	86.97	68.00	22.79	4 809
Number of item responses	83.88	68.00	26.42	4 809
Item response rate	0.96	1.00	0.16	4 809
Minutes to answer, excluding outliers	10.90	9.34	5.95	4 505
Seconds per item, excluding outliers	7.50	6.75	3.31	4 460
Minutes to answer, including outliers	12.03	9.58	9.65	4 798
Seconds per item, including outliers	8.10	6.83	5.91	4 753
Seconds per item, speeders	2.67	2.73	0.32	91
Seconds per item, sleepers	23.93	18.82	17.57	202

Study 6: Election poll 2022

Table 13: Study 6, Election poll 2022

Sample	
Source	Probability (50%) Non-probability (50%)
Pre-stratification variables or other selection criteria	Sex * Age * Education
Age frame	18+
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	5 000
Completed study; more than 80% answered questions (I)	2 639
Partial study; 50%-80% answered questions (P)	11
Break-offs; fewer than 50% answered questions (R)	19
Refusals (R)	2 017
E-mail bounce backs or failed deliveries (NC)	311
Other (O)	3
Participation rate	
Participation rate (PR)	53%
Net participation rate (NPR)	56%
Devices among completes	
Computer device	33%
Mobile device	58%
Tablet device	9%

Table 14: Details on Study 6, Election poll 2022

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	5.92	6.00	0.38	2 669
Number of item responses	5.79	6.00	0.66	2 669
Item response rate	0.98	1.00	0.09	2 669
Minutes to answer, excluding outliers	2.22	1.90	1.25	42 841
Seconds per item, excluding outliers	18.93	16.09	10.85	2 441
Minutes to answer, including outliers	3.09	2.03	12.15	46 783
Seconds per item, including outliers	26.61	17.06	95.28	2 659
Seconds per item, speeders	3.18	3.15	0.13	4
Seconds per item, sleepers	114.62	69.32	321.68	214

Study 7: Collective action problems in water systems

Table 15: Study 7, Collective action problems in water systems

Sample	
Source	Non-probability
Pre-stratification variables or other selection criteria	Sex * Age * Education
Age frame	18-85
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	5 500
Completed study; more than 80% answered questions (I)	2 798
Partial study; 50%-80% answered questions (P)	27
Break-offs; fewer than 50% answered questions (R)	273
Refusals (R)	2 105
E-mail bounce backs or failed deliveries (NC)	296
Other (O)	1
Participation rate	
Participation rate (PR)	51%
Net participation rate (NPR)	54%
Devices among completers	
Computer device	29%
Mobile device	63%
Tablet device	8%

Table 16: Details on Study 7, Collective action problems in water systems

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	30.10	30.00	0.65	3 098
Number of item responses	27.56	30.00	7.68	3 098
Item response rate	0.92	1.00	0.25	3 098
Minutes to answer, excluding outliers	5.40	5.13	2.38	2 866
Seconds per item, excluding outliers	12.65	10.66	12.42	2 866
Minutes to answer, including outliers	6.74	5.24	36.26	3 074
Seconds per item, including outliers	15.14	10.88	71.00	3 074
Seconds per item, speeders	4.03	4.16	0.53	41
Seconds per item, sleepers	60.64	30.30	297.40	167

Study 8: Post-election survey 2022

Table 17: Study 8, Post-election survey 2022

Sample	
Source	Probability (18%) Non-probability (82%)
Pre-stratification variables or other selection criteria	-
Age frame	16+
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	71 478
Completed study; more than 80% answered questions (I)	43 713
Partial study; 50%-80% answered questions (P)	0
Break-offs; fewer than 50% answered questions (R)	474
Refusals (R)	22 862
E-mail bounce backs or failed deliveries (NC)	4 420
Other (O)	9
Participation rate	
Participation rate (PR)	61%
Net participation rate (NPR)	65%
Devices among completes	
Computer device	33%
Mobile device	59%
Tablet device	8%

Table 18: Details on Study 8, Post-election survey 2022

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	11.98	12.00	0.22	44 187
Number of item responses	11.85	12.00	1.24	44 187
Item response rate	0.99	1.00	0.10	44 187
Minutes to answer, excluding outliers	0.47	0.43	0.19	40 344
Seconds per item, excluding outliers	0.90	0.83	0.36	40 344
Minutes to answer, including outliers	0.64	0.44	12.55	43 795
Seconds per item, including outliers	1.24	0.85	25.36	43 795
Seconds per item, speeders	0.29	0.30	0.05	774
Seconds per item, sleepers	6.64	2.63	102.44	2 677

Study 9: Survey methodology: Replication of experiments in the Swedish Citizen Panel

Table 19: Study 9, Survey methodology: Replication of experiments in the Swedish Citizen Panel

Sample	
Source	Probability (17%) Non-probability (83%)
Pre-stratification variables or other selection criteria	-
Age frame	16+
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	72 691
Completed study; more than 80% answered questions (I)	44 383
Partial study; 50%-80% answered questions (P)	160
Break-offs; fewer than 50% answered questions (R)	646
Refusals (R)	22 734
E-mail bounce backs or failed deliveries (NC)	4 758
Other (O)	10
Participation rate	
Participation rate (PR)	61%
Net participation rate (NPR)	65%
Devices among completes	
Computer device	34%
Mobile device	58%
Tablet device	8%

Table 20: Survey methodology: Details on Study 9, Replication of experiments in the Swedish Citizen Panel

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	5.00	5.00	0.00	45 189
Number of item responses	4.91	5.00	0.55	45 189
Item response rate	0.98	1.00	0.11	45 189
Minutes to answer, excluding outliers	3.06	2.81	1.19	41 424
Seconds per item, excluding outliers	30.88	28.25	12.05	41 248
Minutes to answer, including outliers	3.64	2.89	9.34	45 085
Seconds per item, including outliers	36.78	29.05	93.69	44 909
Seconds per item, speeders	11.35	11.81	1.64	672
Seconds per item, sleepers	123.87	87.69	348.85	2 989

Study 10: Survey methodology: The effect of timing of survey invites and reminders on response rates

This study did not contain questions of its own and is therefore not included in the presentation of general and detailed information.

Summary, Citizen Panel 47

Table 21: Overall information, Citizen Panel 47

Sample	
Source	Probability (22%) Non-probability (78%)
Pre-stratification variables or other selection criteria	-
Age frame	16+
Sample disposition	
Total panelists invited ($I+P+R+NC+O$)	90 374
Completed questionnaires; more than 80% answered questions (I)	53 615
Partial questionnaires; 50%-80% answered questions (P)	820
Break-offs; fewer than 50% answered questions (R)	1 009
Refusals (R)	29 306
E-mail bounce backs or failed deliveries (NC)	5 611
Other (O)	13
Participation rate	
Participation rate (PR)	59%
Net participation rate (NPR)	63%
Devices among completes	
Computer device	34%
Mobile device	58%
Tablet device	8%

The Laboratory of Opinion Research (LORE) is an academic web survey center located at the SOM Institute at the University of Gothenburg. The objective of the Laboratory of Opinion Research is to facilitate for scientists to conduct web survey experiments, collect panel data and to contribute to methodological development. For more information, please contact us at:

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