







Sip Benchmark III Study Overview

ICT Coalition meeting

Brussels, May 16th 2017







Project Status

- ☐ Study implementation period: December 2012 March 2017
- ☐ Four benchmarking cycles:

Cycle	Period	Report published
1 st cycle	Summer 2013	Autumn 2013
2 nd cycle	Winter 2013/2014	Spring 2014
3 rd cycle	Summer/Autumn 2014	October 2016
4 th cycle	July - December	April 2017

☐ Final Report submitted to the EC in April 2017







Benchmarking testing cycles

- ☐ In total 18 PC tools, 19 Mobile tools, 3 tools for Game consoles and 10 Alternative tools
- ☐ From the 2nd cycle testing of tools for game consoles were not longer tested instead so called Alternative tools were included
- □ 5 PC tools, 2 mobile tools, and 1 Alternative tool have been tested repetitively over the four cycles
- Overview of the tested tools in the four benchmarking cycles

Cycle		TOTAL			
Cycle	PC	Mobile devices	Mobile devices Game consoles		TOTAL
Cycle 1	13	9	3	0	25
Cycle 2	13	10	0	3	26
Cycle 3	10	10	0	5	25
Cycle 4	10	10	0	5	25









Key points of the Methodology

Functionality

Checking against an open ended list of functionalities

Usability

Expert review in laboratory: installation, configuration and usage, additional test with AttrakDiff on the hedonic value of alternative tools

Security

Expert review regards de-installation, circumvention, and tampering to by-pass the tool

Effectiveness

Automated test based on a test-bed of around 4.000 URLs (Adult Content, Violence, Racism, Self-harm, Gambling) 30 % UGC







Functionality PC Tools I

Area of need								Usage Restr	icti on							
Functi onality	Email	P	2P	Personal data Provision	Safe search	Sky	/ре	Social Networks		Streaming		w	eb	Windo	ws Life Mes	senger
Specifi c ksue	Block email client and/or webmail access	Block the applicati on	Monitor Downloads	Block	Availability	Block chat	Block video chat	Block Access	Monitor Usage	Block Access	Monitor Access	Block Access	Monitor Access	Block chat	Block video chat	Monitor
ContentBarrier X9	Υ	Υ	N	N	N	Υ	N	Υ	N	Υ	N	Υ	Υ	Υ	N	Υ
F-Secure Internet Security	N	N	N	N	Υ	N	N	Y	N	N	N	Υ	N	N	N	N
Kaspersky Safe Kids	Υ	Υ	N	N	Υ	Υ	Υ	Υ	N	N	N	Υ	Υ	N	N	N
Mac Os X Parental Controls	Υ	N	N	N	N	Υ	Υ	Ν	N	N	N	Y	Y	N	N	N
McAfee Total Protection	Υ	Υ	N	N	N	N	N	Υ	N	Υ	N	Υ	N	N	N	N
Neti ntelligence Online Child Safety	Υ	Υ	N	N	N	N	N	Υ	N	N	N	Υ	Υ	N	N	N
Norton Family Premier	Υ	N	N	Υ	Υ	N	N	Υ	Y	Υ	N	Υ	Υ	N	N	N
Panda Global Protecti on (2016)	Υ	Υ	N	N	Υ	N	N	Υ	N	N	N	Υ	Υ	N	N	N
Qustodio_Qustodio Premium	Υ	N	N	N	Υ	N	N	Υ	Y	N	N	Υ	Υ	N	N	N
Witi go Parental Filter	Υ	N	N	N	Y	N	N	Υ	N	N	N	Υ	N	N	N	N
% of took with function	90 %	50 %	0 %	10 %	60 %	30 %	20 %	90 %	20 %	30 %	0 %	100 %	70 %	10 %	0 %	10 %







Functionality PC Tools II

Area of need	IVIa	nagement			Filte	ering Custor	nisati on			Keywords		Time	Blocking Message		
Functi onality	Management of User profiles	Monitoring	Remote Management	Topics	URLs Black List		URLs White List	t		Keywords		Time Limit Setti ngs	Туре		
Specifi c ksue	Create several profi le:	Remote access to monitoring	Manage on various devices	Customisa ti on of Filtering Topics	Creati on of User's own Black List	Default White List	Modifi cati o OR Creati on	_	of a User's	Creati on of a User's White List	Default Black List	Set a specific time frame or web access duration	Ask for unblocking by parents	Redirect to safe resources	% functi on coverage
ContentBarrier X9	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	Υ	Υ	Υ	67 %
F-Secure Internet Security	Y	N	N	Υ	Υ	N	Υ	Υ	Υ	Y	Ν	Y	N	N	37 %
Kaspersky Safe Kids	Υ	Y	Υ	Υ	Υ	N	Υ	N	N	N	N	Υ	N	Υ	53 %
Mac Os X Parental Controls	Y	N	Y	N	Υ	Υ	Υ	Υ	N	N	N	Y	Υ	Υ	47 %
McAfee Total Protecti on	Υ	N	Υ	Υ	Υ	N	Υ	N	N	N	N	Υ	N	Y	40 %
Neti ntelligence Online Child Safety	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	Y	N	N	47 %
Norton Family Premier	Υ	Υ	Υ	Υ	Υ	N	Υ	N	N	N	N	Υ	Υ	Y	57 %
Panda Global Protecti on (2016)	Υ	N	N	Υ	Υ	N	Υ	N	N	N	N	N	N	N	33 %
Qustodio_Qustodio Premium	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	N	N	N	Υ	N	Υ	50 %
Witi go Parental Filter	Υ	Υ	Υ	N	Υ	N	Υ	N	N	N	Ν	Υ	Υ	N	37 %
% of took with function	100 %	50 %	80 %	80 %	100%	30 %	100%	50 %	20 %	10 %	0 %	90 %	40 %	60 %	







PC Effectiveness – Content categories

	Adult o	ontent	Violence a	and Crime	Ra	cist	Drugs & Se	elf-Damage	Gam	bling
TOOL	over blocking	under blocking								
ContentBarrier X9	27	34	7	61	12	47	17	47	28	34
F-Secure Internet Security	10	25	4	54	6	52	15	35	16	24
Kaspersky Safe Kids	5	64	3	67	4	66	4	62	7	61
Mac Os X Parental Controls	23	38	6	61	6	64	12	61	9	68
McAfee Total Protecti on	4	50	1	62	1	65	2	54	8	51
Neti ntelligence Online Child Safety	9	27	4	63	7	59	9	50	13	36
Norton Family Premier	11	18	15	57	12	51	10	37	19	21
Panda Global Protecti on (2016)	26	22	26	45	22	44	35	27	34	24
Qustodio_Qustodio Premium	5	34	1	68	1	67	6	46	18	28
Witi g⊕arental Filter	28	24	20	44	18	44	23	33	21	30









PC Effectiveness – Age

	≤ 12	2	≥ 1	3	
TOOL	over blocking	under blocking	over blocking	under blocking	
ContentBarrier X9	22	42	22	41	
F-Secure Internet Security	10	35	11	34	
Kaspersky Safe Kids	5	65	5	64	
Mac Os X Parental Controls	15	54	16	53	
McAfee Total Protecti on	4	56	4	55	
Neti ntelligence Online Child Safety	9	42	9	41	
Norton Family Premier	13	32	14	31	
Panda Global Protecti on (2016)	28	30	29	29	
Qustodio_Qustodio Premium	6	46	6	44	
Witi go Parental Filter	24	33	26	32	









SECURITY OF PC TOOLS

TOOL	SCORE	SECURITY ISSUES	MITIGATION
ContentBarrier X9	1	Access to harmful content through Google translate	Black list google translate website
F-Secure Internet Security	1	Access to harmful content through Google translate, and web cache sites. Uninstalled without asking credentials or pin	Black list google translate website and the web cache sites Restrict access on Windows Control panel
Kaspersky Safe Kids	1	Access to harmful content through Google translate	Black list google translate website
Mac Os X Parental Controls	4	No major issues	
McAfee Total Protecti on	1	Access to harmful content through Google translate Uninstalled without asking credentials or pin	Black list google translate website. Restrict access on Windows Control panel
Neti ntelligence Online Child Safety	1	Access to harmful content through Google translate, and web cache sites. Uninstalled without asking credentials or pin	Black list google translate website and the web cache sites Restrict access on Windows Control panel
Norton Family Premier	1	Access to harmful content through web cache sites. Does not fi Iters pages inside an iframe	Black list web cache sites. No miti gati on for iframe problem.
Panda Global Protecti on (2016)	1	Access to harmful content through Google translate site Uninstalled without asking credentials or pin	Black list google translate website Restrict access on Windows Control panel
Qustodio_Qustodio Premium	1	Access to harmful content through Google translate	Black list google translate website
Witi go Parental Filter	1	Access to harmful content through Google translate	Black list google translate website







Mobile Effectiveness – Content categories

	Adult o	ontent	Violence a	Violence and Crime		cist	Drugs & Se	lf-Damage	Gambling	
TOOL	over blocking	under blocking	over blocking	under blocking	over blocking	under blocking	over blocking	under blocking	over blocking	under blocking
Curbi	17	20	12	53	18	51	18	58	15	55
Familoop	11	39	8	62	8	63	8	59	10	59
F-Secure Mobile Security	9	27	6	57	3	53	12	41	14	31
Mobicip Safe Browser	13	36	2	68	1	69	1	67	1	72
Norton Family parental control	15	8	18	53	16	42	13	27	22	15
Parentsaround (mobile)	29	11	29	45	26	46	33	31	28	38
Qustodio (mobile)	15	36	14	56	13	56	16	44	16	45
Surfi e Kids	6	27	2	51	2	47	4	57	9	29
WebProtectMe Safe Browser	9	46	4	65	2	67	5	63	3	70
Xooloo (mobile)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a









Mobile Effectiveness – Languages

	English		Ger	German		lian	Spa	nish	Fre	nch	Polish	
TOOL	over blocking	under blocking										
Curbi	17	38	12	46	12	43	15	40	23	31	11	44
Familoop	10	52	9	52	7	49	13	57	11	45	7	54
F-Secure Mobile Security	11	32	10	42	6	40	9	43	6	34	6	43
Mobicip Safe Browser	11	58	2	54	4	54	5	57	8	51	1	51
Norton Family parental control	13	18	16	25	19	24	16	28	12	24	17	27
Parentsaround (mobile)	32	25	25	33	25	30	27	35	34	18	16	31
Qustodio (mobile)	19	44	15	49	13	44	15	43	13	38	9	50
Surfi e Kids	2	41	5	35	5	38	7	41	11	31	1	35
WebProtectMe Safe Browser	5	60	4	54	6	57	2	63	10	53	3	57
Xooloo (mobile)	n/a	n/a										









Mobile Effectiveness – Age

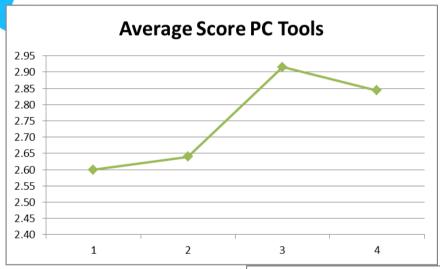
	≤ 12	2	≥ 1	3	
TOOL	over blocking	under blocking	over blocking	under blocking	
Curbi	16	41	16	40	
Familoop	9	53	10	52	
F-Secure Mobile Security	8	39	9	37	
Mobicip Safe Browser	6	56	7	55	
Norton Family parental control	15	24	16	23	
Parentsaround (mobile)	28	29	29	28	
Qustodio (mobile)	15	46	15	44	
Surfi e Kids	5	39	5	38	
WebProtectMe Safe Browser	5	59	6	58	
Xooloo (mobile)	n/a	n/a	n/a	n/a	

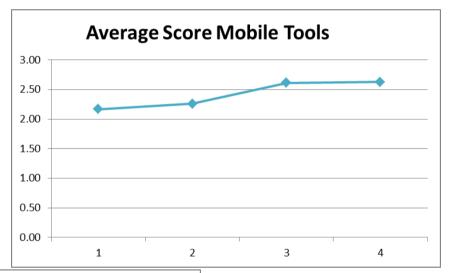


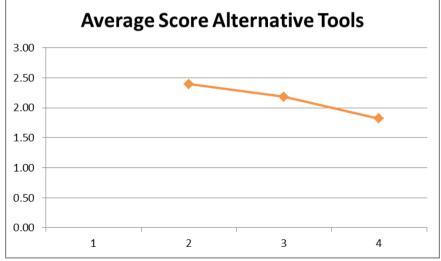




Usability – Comparison of results over 4 test cycles







Benchmarking of parental control tools for the online protection of children

www.sipbench.eu

SIP-BENCH III

Safer Internet Programme Empowering and protecting children online

Start

SIP-Bench Project

Find the right tool

Recommendations

Previous results



Parental control tools

Parents should be aware of possibilities and threats brought by the Internet and discuss it with children.

In addition to that, there are software solutions protecting children/teenagers from online threats (e.g. pornography, violence, self-harm, illicit act incitement, sexting, cyberbullying, pedophilia, etc.). These tools are known as parental control tools.

Read more...

About SIP-Bench

The European Commission has been successful in placing the issues of developing a safer internet firmly on the agenda of the EU and the Member States since 1996, through the successive Safer Internet programmes.

The study aimed at providing guidance to parents and child carers, in particular to improve awareness of solutions and promoting best practices.

Read more...





European Commission

Find YOUR Tool!

Partners:











General findings

- Functionalities of Parental Control Tools are focused on filtering content
- Parental Controls work best on English language content, they fail most other languages
- Parental Controls work properly on adult content, they are less good on violence, racism, self-harm, gambling, etc.
- Parental Controls do not work properly on User Generated Content
- Parental Controls fail on communication and interaction among young users
- In the benchmark study no tools were identified addressing adequately harmful behavior, i. e. content and communication in chat, live-streaming and other interactive applications

Study on
"Benchmarking of parental control tools for the online protection of children"
SIP-Bench II
SMART 2009/0047







The digital environment of children





Neither the tools nor the testing methodologies in use so far are fit for purpose for the digital environment children are living in today



