	Jukka S. Rannila	OPINION	1 (17)
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1 2 3	TO: Body of European Regulators for Electronic	Communications (BEREC)	
4 5 6 7	BEREC report on the impact of premium con the open use of the Internet – BoR (17) 181 – I		he effect of devices on
8 9 10	First of all, a lot of thanks to Body of European I (BEREC) for organising this important consultat		mmunications
11 12	This opinion represents an opinion of an individu	al citizen, not any legal entit	ty.
13 14 15 16 17	This opinion does not contain: - any business secrets - any trade secrets - any confidential information.		
18 19 20 21	This opinion is public. PDF file of this opinion can be added to a releva	nt web page	
22 23 24 25 26	Annex 1 holds information about previous consu Annex 2 holds information about disclaimers and	-	ion level.
27 28 29 30	Best Regards,		
31 32 33	Jukka S. Rannila citizen of Finland		
34 35 36	signed electronically		
37	[Continues on the next page]		

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38

39 Framing this opinion: devices and openness of the Internet (Chapter 3 of the draft)

- 4041 This opinion concentrates mainly on devices and openness of the Internet. Other issues are not42 handled.
- 43

44 Possible technical consultations?

45 46

47

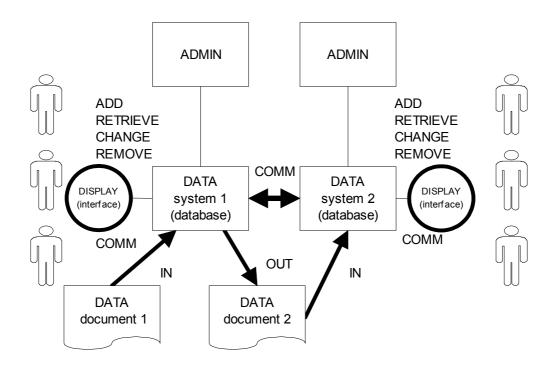
Proposal: More technically oriented consultations.

48 Based on answers (this consultation) there could be more technically oriented consultations.

- 49 Mentioned issues (this opinion) could be detailed for new technically oriented consultations.
- 50

51 One presentation of information system

52



53 54

- 55 Now we can add four basic functions, communication, displays, interfaces, users, documents, data
- 56 and databases for describing an information system. Like the figure indicates, there are databases in
- 57 different information systems. Then there are different documents for transmitting data between
- 58 different systems. Here we can note especially following standardisation needs for different parts of
- 59 different parts of an information system.
- 60
- 61 Here we can note several basic issues about documents and databases:
- 62
- 63
- 64

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65 66 67 68 69 70	• • •	four basic functions (add, retrieve, cl administration of a system displays and interfaces direct communication between syste transferring documents between syste	m (data)	
71 72 73	Here we can an information	note especially following standardisation system:	ion needs for different parts of	different parts of
74 75	From this sir	nple (figure) conception we can differe 1) Data (documents) standards	entiate several standard classes:	

- 76 2) Data (database) standards
- 3) Standards for adding data to a system.
 - 4) Standards for retrieving data from a system.
- 5) Standards for changing data in a system.
- 80 6) Standards for removing data from a system.
- 81 7) Display standards
- 82 8) Interface standards
- 839) Different communication standards.84

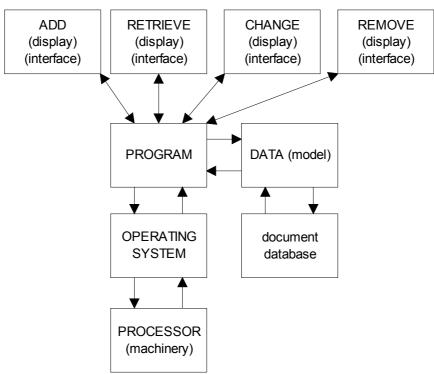
85 One presentation for information system

86

78

87 Following figure on the reflection paper is one conception of information system. I have presented

the following figure as one conception of information system.



89

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90 Generally speaking we have different techniques on the information technology field. Here we can

- 91 note that programs (most arrows) are in the middle of different information systems. Then programs
- handle the data in a system (documents and/or databases). However we have to have one specific
 program which is different i.e. operating system. Operating systems handle connections with
- 94 machinery and processors. Generally speaking programs can work with an operating system and
- 95 developers of programs use different parts of an operating system.
- 96 97
- What this means to information systems?
- 98 1) There can be several processor (machinery) possibilities
- 99 **2)** There can be several operating systems possibilities
- 100 **3)** There can be several programs possibilities
- 1014)Programs handle data in different ways
- 1025)The data can modelled in different ways
- 103 6) There can documents and/or databases in different systems
- 104 7) There are always four basic functions (add, retrieve, change, remove).
- 105 8) There are several providers of different computer programs.
- 106 9) There are naturally competing programs.
- 107 **10**) **Different programs comply with different standards.**
- 108

We have to note that data can have different models and data (models) are developed and/or used bydifferent stakeholders (four basic functions). Especially in databases there are possibilities for

111 several data models; depending on the modellers there can be different data models in databases.

112 Generally speaking changing data models can be very difficult in many cases.

113

114 **About different standards**

115

116 I have proposed several times to use *<u>open horizontal standards</u>* when developing different 117 information system

117 information system.

118

119 Favouring open standards / Favouring horizontal standards

120 121

122 [Continues on the next page]

123

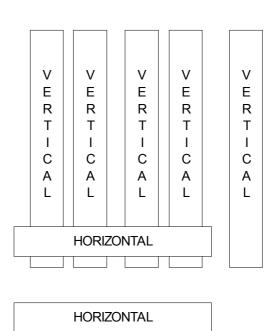
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124 125

126 There are differences between horizontal and vertical standards. A simple example is naturally 127 email solutions. There are several vertical standards when creating technically email solutions. Then there are horizontal standards which enable sending messages between technically different email 128 solutions.

129 130

131

132

- Proposal: There could be assessment of vertical and horizontal standards.
- 133 Proposal: Using horizontal standards could be favoured when creating different information systems. 134 135
- 136 Horizontal standards enables technological solutions which can work together. Horizontal standards 137 hides different complexities in information systems.
- 138 139 **Opinion:** The number of redundant standardisation efforts should be minimal.
 - 140 141 Proposal: There could be separation of horizontal standards and vertical standards.
 - 142 143 Proposal: There could be different standardisation efforts to horizontal standards and vertical standards. 144
 - 145
 - 146 Personally I have advocated using different horizontal standards. For example email standards
 - (horizontal) are implemented with very different technologies (vertical). 147
 - 148
 - 149 Here we can note some problems:
 - 150
 - 151

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152	•	some systems are based on de-fac	to standards	
153	•	some systems are based on de-ju		
154	•	there can be confrontations betwe		dards
155	•	there can be a monopoly situation	in some domain	
156	•	some standards may inhibit possil	ole actions of some stakehold	lers
157	•	there can be a standard war on sou	ne domains	
158	•	standards have different life-cycle	es	
159	•	systems have different life-cycles		
160	•	there can be mismatches between	different life-cycles	
161	•	there can be failed standards		
162	•	there can be deprecated standards		
163				
164		ormal situation in the information tec		
165		plication field. Therefore there are al		
166		information technology standards ten		'standards war' or
167	format was	r" can lead to another similar situation	n.	
168	I have adve	astad anon standards avan though in	some eases onen standards a	ra nat da fasta
169 170		cated open standards even though in n practice public sector has very important to the public sector has been publ	-	
171		place. Because public sector has a con		
172		systems and therefore public sector		
173		here should be serious vigilance when		
174		cation fields.	and a substantial and a substantial a	is und standards in
175	some uppne			
176	There are di	ifferent standards setting organisatior	ns on the information technol	ogy field. One list ¹ of
177		ards setting organisations is provided		25
178			<i>y</i>	
179	One warnin	g can be said about standards setting	organisations. All standards	setting organisations
180	are not succ	esses based on several factors and th	ere can may irrelevant standa	ards setting
181	organisation	ns. Market situation on different vehic	cle markets varies a lot based	l on different factors.
182				
183		posal: Current standardisation (e.g		
184	diffe	erent standard setting organisation	s could be assessed carefull	у.
185	5 11 1			
186	•	have advocated using different horiz	1	e email standards
187	(horizontal)	are implemented with very different	technologies (vertical).	
188	Davas	a sale Carron manta should as a sia	Un annantuata an hauinant	al atan dan da
189	Proj	posal: Governments should especia	lly concentrate on norizont	al standards.
190 191	Dro	posal: Some government agencies c	ould apply for mombarshir	s of difforent
191	-	dard setting organisations which d		
192	Stan	dard setting organisations when d	evelop especially not izonta	i stanuarus.
194	Pro	posal: Government agencies should	l not be passive by-standers	when different
195		zontal standards are developed.	Pubbite of Stunders	
		-		
	1 Standard S	Setting Organizations and Standards List, www	w.consortiuminto.org/links/linksa	<u>II.php</u>

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- 196
 197 Proposal: Government agencies could financially support development of horizontal
 198 standards.
- Proposal: There could some guidance for using open horizontal standards on different
 application fields.
- 203 There can be some examples:
- 205 a) There could be some regulations for providing interfaces (private, public)
 - b) There could be some regulations for document formats (private, public)
- 207 c) There could be some regulations for transmitting data between different systems
- 208 d) There could be some regulations for using databases (private, public)
- 209 e) There could be some regulations for using programs (private, public)
- 210 f) There could be some regulations for retrieving information from different systems.
 - ACTION AGREEMENT OBJECT (feature) MEMBER
- 212 213

202

204

206

211

- 213 214 215
- Note: The relations between different aspects of information systems can result rather complicated (legal) network(s): i.e. Ownership, Membership, Agreement.
- 216 Here we can note the difference between owners, agreements and members. In reality ownerships
- 217 agreements and memberships cause very complex networks, and those networks are changing all
- 218 the time: divisions, mergers, ownership changes, agreement changes, cooperation with other
- 219 entities, life-cycles, etc.
- 220
- Here we can note that ownership, agreement and membership are interlinked in different ways.
- 222 Generally speaking average usage of a system means an unique combination of ownership,
- agreement and membership. When everything works fine there are not problems. However changes
- 224 with ownership, agreement and membership can result difficult situations.

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2	2	5
7	7	J

	Owner? Member? Agreement?	Standards?	OPEN	CLOSED
1. Device / Machinery				
2. Operating system				
3. Program(s)				
4. Data models / Conceptual models				
5. Documents				
6. Databases				
7. Communications				
8. Retrieve / Interface / Display				
9. Add / Interface / Display				
10. Remove / Interface / Display				
11. Change / Interface / Display				
Note: The relations bet rather complicated (leg Proposal: There could be some ownerships, agreements and n	al) network(s) e consideration	: i.e. Ownershij	o, Membersh	ip, Agreemen
Assessing regularly current market si	-			
Following text is presented on the const	ultation docum	ent:		
More generally, a close cooperate competition authorities, would be above were to materialise. (page	e advisable, in			

Proposal: BEREC could organise regular assessments of market situation- e.g. yearly
basis.

Proposal: Based on these regular assessments there could be some cooperation with
 different competition authorities and BEREC – e.g. with the European Commission
 (Directorate-General for Competition).

248 Proposal: Part of assessments of current market situation could be based on usage of

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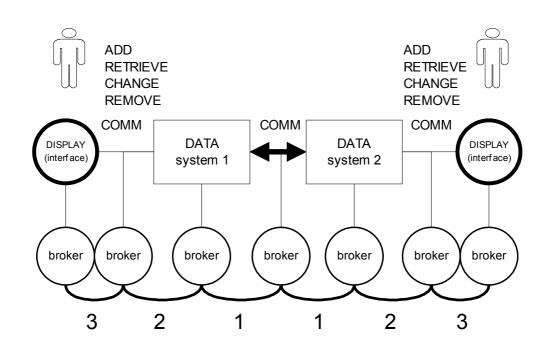
249	different standards – i.e. private standards and open standards.
250	
251	Cooperation with different actors on different application fields
252	
253	Following text is presented on the consultation document:
254	
255	The effectiveness of such monitoring, where it is deemed appropriate to implement, relies on
256	the ability of the authority to collect the necessary data, as well as manage the resources
257	needed for its analysis. (page 33)
258	
259	Proposal: BEREC could collect an extensive list of different actors on different
260	application fields.
261	
262	Proposal: Based on this extensive list there could be targeted consultations for different
263	actors on different application fields.
264	
265	Note: There can be several new actors in the future and these new actors can
266	shake current market situation.
267	
268	Standardisation on several layers
269	
270	Following text is presented on the consultation document:
271	
272	However, in the chain that connects end-users to Internet content, information and
273	applications, there are several other essential links. (page 24)
274	
275	Here we can not that there can be different brokers (or trusted third parties) which are user between
276	different systems. Here we can note that there can be several standards when there is cooperation
277	between different systems.
278	
279	[Continues on the next page]
280	

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281 282

285

290

- Proposal: (Repetition) There could be some assessments of standardisation on several
 layers.
- Proposal: Different brokers could be assessed as part of previously mentioned
 assessments.
- 289 An example for cooperation: Web feeds (RSS and Atom)
 - 2
- 291 292 293 I have advocated usage of web feeds on several previous opinion documents. Actually there are two standards for web feeds: RSS ^{2 3} and Atom ^{4 5 6}. 294 295 296 Proposal: Web feeds could be advocated when developing different informations 297 systems. 298 299 Proposal: Web feeds (RSS and/or Atom) should be used extensively for providing (real-300 time) information for different stakeholder(s) (communities). 301
 - 2 http://www.rssboard.org/rss-specification, RSS 2.0 Specification
 - 3 https://en.wikipedia.org/wiki/RSS, Wikipedia / RSS
 - 4 https://en.wikipedia.org/wiki/Atom_(standard), Wikipedia / Atom (standard)
 - 5 https://tools.ietf.org/html/rfc4287, The Atom Syndication Format
 - 6 https://tools.ietf.org/html/rfc5023, The Atom Publishing Protocol

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302	Proposal: There can be different web feeds (RSS and/or Atom) for different
303	stakeholder(s) – having just one web feed (RSS and/or Atom) may not be a feasible
304	solution.
305	
306	Proposal: Several web feeds (RSS and/or Atom) can be based on different viewpoints.
307	
308	It can be easier to create web feeds in different information systems since web feeds enable
309	connections without direct system-to-system connections.
310	
311	It can be noted, that different back-office systems (with a wide variety of different technologies) can
312	implement RSS standards, and these RSS feeds can be used in the front-office systems. With this
313	kind solutions front-office systems don't need direct system-to-system communications with back-
314	office systems.
315	
316 317	Good luck!!!
317	
319	This opinion is quite limited. Hopefully there are other constructive ideas presented in other
320	opinions. This remains to be seen.
320	opinions. This remains to be seen.
322	
323	[Continues on the next page]
324	

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325 326		ANNEX 1	
327 328 329 330	My opinions to the previous and relevant consultations – there consultations were mostly organised by the European Commission. General page to all consultations – both in English and in Finnish: http://www.jukkarannila.fi/lausunnot.html		
331332333334	My opinions to the previous and relevant consuby the European Commission.	ltations – there consultations	were mostly organised
335 336 337	EN: Opinion 1: Review of the rules on access to http://www.jukkarannila.fi/lausunnot.html#nro_		
338 339 340	EN: Opinion 2: Schools for the 21st Century http://www.jukkarannila.fi/lausunnot.html#nro_	_2	
341 342 343 344	EN: Opinion 3: The future of pharmaceuticals f Safe and Innovative medicines http://www.jukkarannila.fi/lausunnot.html#nro	_	king Europe a Hub for
345 346 347	EN: Opinion 5: Consumer Scoreboard, Question <u>http://www.jukkarannila.fi/lausunnot.html#nro</u>		
348 349 350	EN: Opinion 6: Consultation on a Code of Conc http://www.jukkarannila.fi/lausunnot.html#nro_	<u>_6</u>	res
351 352 353	EN: Opinion 8: European Interoperability Fram http://www.jukkarannila.fi/lausunnot.html#nro_	8	
354 355 356 357	EN: Opinion 9: CAMSS: Common Assessment proposal for comments http://www.jukkarannila.fi/lausunnot.html#nro_	-	ecifications, CAMSS
358 359 360	EN: Opinion 15: Collective Redress http://www.jukkarannila.fi/lausunnot.html#nro_	-	
361 362 363	EN: Opinion 17: Opinion to Antitrust Case No. http://www.jukkarannila.fi/lausunnot.html#nro_	_17	
364 365 366	EN: Opinion 18: Opinion Related to the Public http://www.jukkarannila.fi/lausunnot.html#nro_	<u>_18</u>	
367 368 369	EN: Opinion 19: Official Acknowledgement by http://www.jukkarannila.fi/lausunnot.html#nro_		

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370 371 372	EN: Opinion 20: SECOND Opinion Related to th <u>http://www.jukkarannila.fi/lausunnot.html#nro_20</u>	0,1	licrosoft
373 374 375	EN: Opinion 21: Opinion about the European Inte http://www.jukkarannila.fi/lausunnot.html#nro_2		osal
376 377 378	EN: Opinion 23: Public consultation on the review <u>http://www.jukkarannila.fi/lausunnot.html#nro_2</u> .	-	lisation System
379 380 381	EN: Opinion 27: Public Consultation on the Mode http://www.jukkarannila.fi/lausunnot.html#nro_2/		ocurement Policy
382 383 384	EN: Opinion 28: Consultation on the Europe 2020 http://www.jukkarannila.fi/lausunnot.html#nro_28	5	
385 386 387	EN: Opinion 30: Internet Filtering http://www.jukkarannila.fi/lausunnot.html#nro_30 NOTE: Organised by the European Committee fo		
388 389 390 391	EN: Opinion 32: COMP/C-3/39.692/IBM – Main <u>http://www.jukkarannila.fi/lausunnot.html#nro_32</u>		
392 393 394 395	EN: Opinion 34: REMIT Registration Format <u>http://www.jukkarannila.fi/lausunnot.html#nro_34</u> NOTE: Organised by The Agency for the Cooperation		(ACER) ⁸
396 397 398	EN: Opinion 35: Exploiting the employment pote <u>http://www.jukkarannila.fi/lausunnot.html#nro_3</u> :	-	ousehold services
399 400 401	EN: Opinion 37: CASE COMP/39.654 - Reuters i http://www.jukkarannila.fi/lausunnot.html#nro_3/		
402 403 404	EN: Opinion 39: Registry options to facilitate link <u>http://www.jukkarannila.fi/lausunnot.html#nro_39</u>		ystems
405 406 407	EN: Opinion 40: Media Freedom and Pluralism / <u>http://www.jukkarannila.fi/lausunnot.html#nro_4</u>	6 2	ies
408 409 410	EN: Opinion 41: AT.39398: observations on the p http://www.jukkarannila.fi/lausunnot.html#nro_4	1	
411 412	EN: Opinion 42: Opening up Education http://www.jukkarannila.fi/lausunnot.html#nro_42	<u>2</u>	
	 http://www.cen.eu/ (Accessed 2 July 2012) http://www.acer.europa.eu/ (Accessed 2 July 2012) 		

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414 EN: Opinion 43: Publication of extracts of the European register of market participants 415 http://www.jukkarannila.fi/lausunnot.html#nro 43 416 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER) 417 418 EN: Opinion 44: Evaluation policy guidelines 419 http://www.jukkarannila.fi/lausunnot.html#nro 44 420 421 EN: Opinion 45: About ICT standardisation 422 http://www.jukkarannila.fi/lausunnot.html#nro 45 423 424 EN: Opinion 46: Review of the EU copyright rules http://www.jukkarannila.fi/lausunnot.html#nro 46 425 426 427 EN: Opinion 51: European Area of Skills and Qualifications http://www.jukkarannila.fi/lausunnot.html#nro_51 428 429 430 EN: Opinion 52: Trusted Cloud Europe Survey 431 http://www.jukkarannila.fi/lausunnot.html#nro 52 432 433 EN: Opinion 53: Trade Reporting User Manual (TRUM) (Draft) 434 http://www.jukkarannila.fi/lausunnot.html#nro 53 435 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER) 436 437 EN: Opinion 55: European Energy Regulation http://www.jukkarannila.fi/lausunnot.html#nro 55 438 439 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER) 440 441 EN: Opinion 59: Green paper on mobile Health 442 http://www.jukkarannila.fi/lausunnot.html#nro 59 443 444 EN: Opinion 60: Cross-border inheritance tax problems within the EU 445 http://www.jukkarannila.fi/lausunnot.html#nro 60 446 447 EN: Opinion 61: European Register of Products Containing Nanomaterials 448 http://www.jukkarannila.fi/lausunnot.html#nro 61 449 EN: Opinion 64: Corporate Social Responsibility - European Commission 450 http://www.jukkarannila.fi/lausunnot.html#nro 64 451 452 453 EN: Opinion 66: Net Innovation for the Work Programme 2016-2017 http://www.jukkarannila.fi/lausunnot.html#nro 66 454 455 456 457

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458	EN: Opinion 68: European Network Code Stakeholder Committees		
459	http://www.jukkarannila.fi/lausunnot.html#nro_68		
460 461	NOTE: Organised by The Agency for the Cooperat	ion of Energy Regulators (ACI	$\Xi \mathbf{K}$)
461	EN: Opinion 71: Common Schema for the Disclosure	ure of Inside Information	
463	http://www.jukkarannila.fi/lausunnot.html#nro 71	are of miside mornation	
464	NOTE: Organised by The Agency for the Cooperat	tion of Energy Regulators (ACI	ER)
465			
466	EN: Opinion 74: Enabling the Internet of Things		
467	http://www.jukkarannila.fi/lausunnot.html#nro_74		$(\mathbf{D}\mathbf{E}\mathbf{D}\mathbf{E}\mathbf{C})^{9}$
468 469	NOTE: Organised by Body of European Regulators for Electronic Communications (BEREC) ⁹		
409	EN: Opinion 80: Mandatory Transparency Register	r	
471	http://www.jukkarannila.fi/lausunnot.html#nro_80		
472			
473	EN: Opinion 84: Revision of the European Interope	erability Framework	
474	http://www.jukkarannila.fi/lausunnot.html#nro_84		
475 476	EN: Opinion 86: 2016 Annual Colloquium on fund	amontal rights	
470	http://www.jukkarannila.fi/lausunnot.html#nro_86	•	
478			
479	EN: Opinion 88: Evaluation and Review of the ePr	ivacy Directive	
480	http://www.jukkarannila.fi/lausunnot.html#nro_88		
481		1. 1	
482 483	EN: Opinion 89: BEREC Guidelines for net neutra http://www.jukkarannila.fi/lausunnot.html#nro_89	5	
484	NOTE: Organised by Body of European Regulator		ns (BEREC)
485			
486	EN: Opinion 93: Safety of apps and other non-emb		
487	http://www.jukkarannila.fi/lausunnot.html#nro_93		
488	ENL Opinion 05. Tongstad consultation on a Forma		
489 490	EN: Opinion 95: Targeted consultation on eForms http://www.jukkarannila.fi/lausunnot.html#nro 95		
490			
492	EN: Opinion 97: COM(2016) 882 final - 2016/040	8 (COD)	
493	http://www.jukkarannila.fi/lausunnot.html#nro_97		
494			
495	EN: Opinion 98: Opinions related to six (6) co-dec	ision (COD) proposals	
496 497	http://www.jukkarannila.fi/lausunnot.html#nro_98		
497 498	EN: Opinion 99: COM(2016)0863 - European Uni	on Agency for the Cooperation	of Energy
499	Regulators. Recast	surregency for the cooperation	or Energy
500	http://www.jukkarannila.fi/lausunnot.html#nro_99		
501			
	9 <u>http://www.berec.europa.eu</u> , Body of European Regulator	rs for Electronic Communications (RI	EREC)
		Live communications (Di	

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- 502
- 502 EN: Opinion 100: Protection of personal data (EU) 504 http://www.jukkarannila.fi/lausunnot.html#nro 100
- 505
- 506 EN: Opinion 101: Governance of the Energy Union
- 507 <u>http://www.jukkarannila.fi/lausunnot.html#nro_101</u> 508
- 509 EN: Opinion 102: Smart Wearables
- 510 <u>http://www.jukkarannila.fi/lausunnot.html#nro_102</u> 511
- 512 EN: Opinion 106: Review of the European Union Agency for Network and Information Security
- 513 (ENISA)
- 514 <u>http://www.jukkarannila.fi/lausunnot.html#nro_106</u> 515
- 516 EN: Opinion 108: Single Digital Gateway
- 517 <u>http://www.jukkarannila.fi/lausunnot.html#nro_108</u>
- 518
 519 EN: Opinion 110: Technical arrangements / Information systems / Union Customs Code
 520 <u>http://www.jukkarannila.fi/lausunnot.html#nro_110</u>
- 521
 522 EN: Opinion 111: Interoperability of information systems for migration and security
 523 http://www.jukkarannila.fi/lausunnot.html#nro 111
- 525 EN: Opinion 113: Transform of health and care
- 526 <u>http://www.jukkarannila.fi/lausunnot.html#nro_113</u>
- 527

524

- 528
- 529
- 530 My opinions to the previous and relevant consultations there consultations were mostly organised 531 by the European Commission. General page to all consultations – both in English and in Finnish:
- 532 <u>http://www.jukkarannila.fi/lausunnot.html</u>
- 533
- 534
- 535 [Continues on the next page]
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