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TRUSTED CLOUD EUROPE SURVEY / OPINION OF Jukka S. Rannila

First of all, a lot of thanks to the Commission for organising trusted cloud Europe survey.

This opinion represents an opinion of an individual citizen, not any legal entity.

This opinion does not contain:

- any business secrets
- any trade secrets
- any confidential information.

This opinion is public.

European Commission can add the PDF file of this opinion to a relevant web page.

Annex 2 holds information about disclaimers and copyright.

Best Regards,

Jukka S. Rannila  
citizen of Finland

signed electronically

[Continues on the next page]

35

**36 1. General: Previous consultations**

37

38 In the Annex 1 is a list of my previous opinions, which are mostly addressed to different  
39 Directorate-Generals of the European Commission. Some parts of the previous opinions can be  
40 used in this opinion.

41

42 This consultation most likely will result several ideas .The commission could publish a work  
43 program based on the results of these consultation. There can be division to some layers:

44

45 1) Technological layer

46 2) Data layer

47 3) Information layer

48 4) People layer

49

50 The easiest layer is naturally the technological layer, and the standardisation in that area can be very  
51 fast. In the data layer there can be competing ideas for different IDs (identifiers) and those  
52 proposals should be assessed with different stakeholders. The information layer is about  
53 understanding the received data - hopefully in the correct / original form. The European  
54 Commission can (once more) provide auspices for multi-lingual understanding. The people layer is  
55 the hardest layer, since we are very accustomed to certain models.

56

57 **Proposal 1: The results of this consultation could be classified to these four level**  
58 **(technology, data, information and people).**

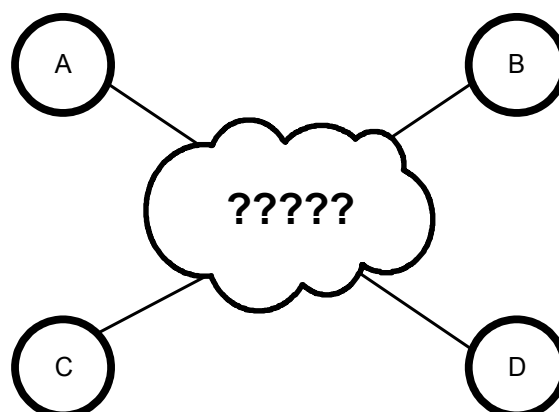
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**60 2. Explicating cloud systems**

61

62 Following figure is one conception of a cloud system.

63



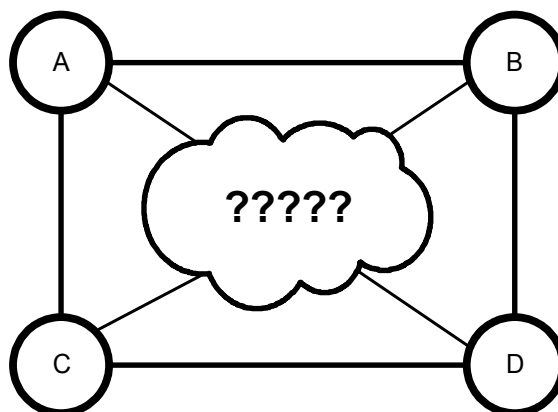
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65

66 In theory, a cloud can be an application, and the users just add data to the application, and there is  
67 no need to have local computing resources – e.g. “just have an internet connection”.

68

69 In practical reality, EU-wide systems (e.g. A, B, C, D) can be joined together with one-to-one  
70 connections, and member state systems can be joined with one-to-many system (E.g. 28 systems →  
71 System A, etc.).  
72



73  
74

75 In reality, one person and/or community can be linked to several cloud information systems. These  
76 cloud information systems can be private or public. There can be division to several cloud systems:  
77 usage of private and/or public cloud systems.

78

79 **Proposal 2: The results fo this consultation could be classified to these classes: public  
80 and private.**

81

### 82 3. Cooperation between several systems

83

84 In practical reality much of the computer usage is result of cooperation between several computer-  
85 based systems. The following figure is a conception of some possibilities for organising cooperation  
86 between system.

87

88 In the previous consultations I have explicated the need for standardised interfaces, which are result  
89 of different needed viewpoints. However, a large-scale information system can mean thousands of  
90 users, and naturally the data in a system can be voluminous. This is not a news item.

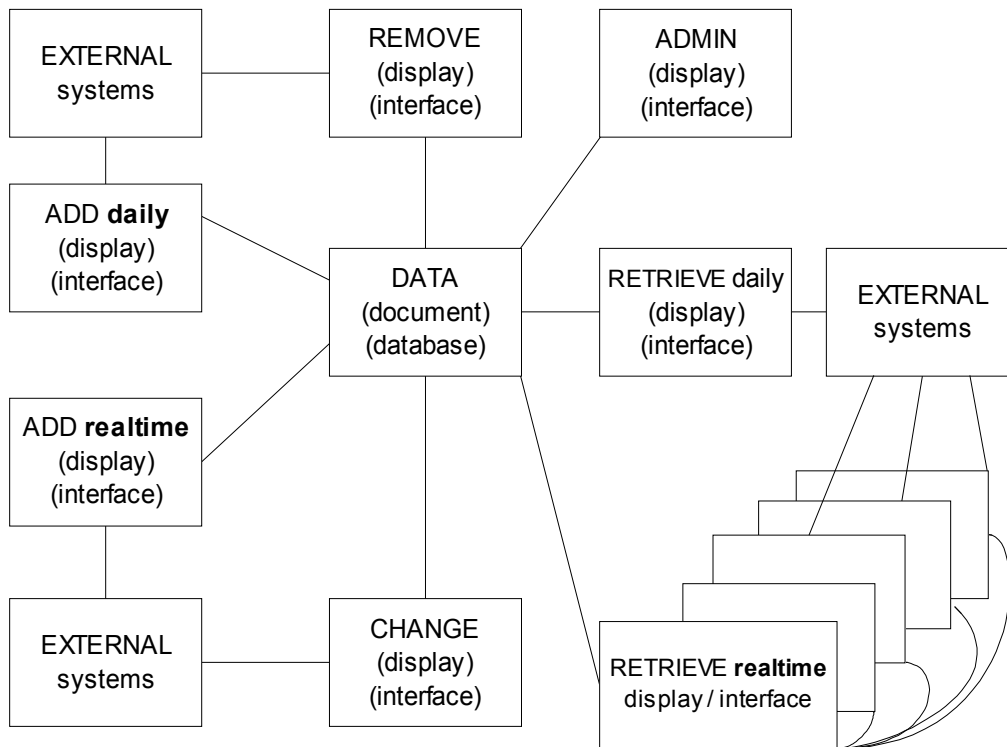
91

92 In practical reality different communication needs and different interfaces (displays) demand  
93 replication of some parts of the (new) system. Since retrieval is the most needed function, there  
94 might be replications for different communication methods, e.g. possible real-time retrievals come  
95 from different replicated data system. These replicated retrieval systems might work on thousands  
96 of retrievals per second. Naturally some external systems might work on real-time basis and they  
97 are some-how connected to the (new) information system.

98

99 SO – so-called cloud can contain very efficient retrieval systems, and possibly other systems (add,  
100 change, remove) can be more traditional.

101



102  
103

104 One aspect in also the difference between real-time systems and archival systems. Like said,  
105 efficient retrieval is can be divided to archival and real-time retrieval.

106

107 **Proposal 3: the difference between real-time systems and archival systems could be**  
108 **explicated more.**

109

110 **4. Membership, ownership and agreement**

111

112 I have constructed the following figure based on my limited experience.

113

114 In short:

- 115 \* the world is full of different objects (things)
- 116 \* objects can be nowadays be digital in all phases
- 117 \* someone owns some objects
- 118 \* usage can be based on ownership, agreements and membership
- 119 \* the linkages between ownership, agreements and membership can be very complex
- 120 \* the linkages between ownership, agreements and membership can change very often.

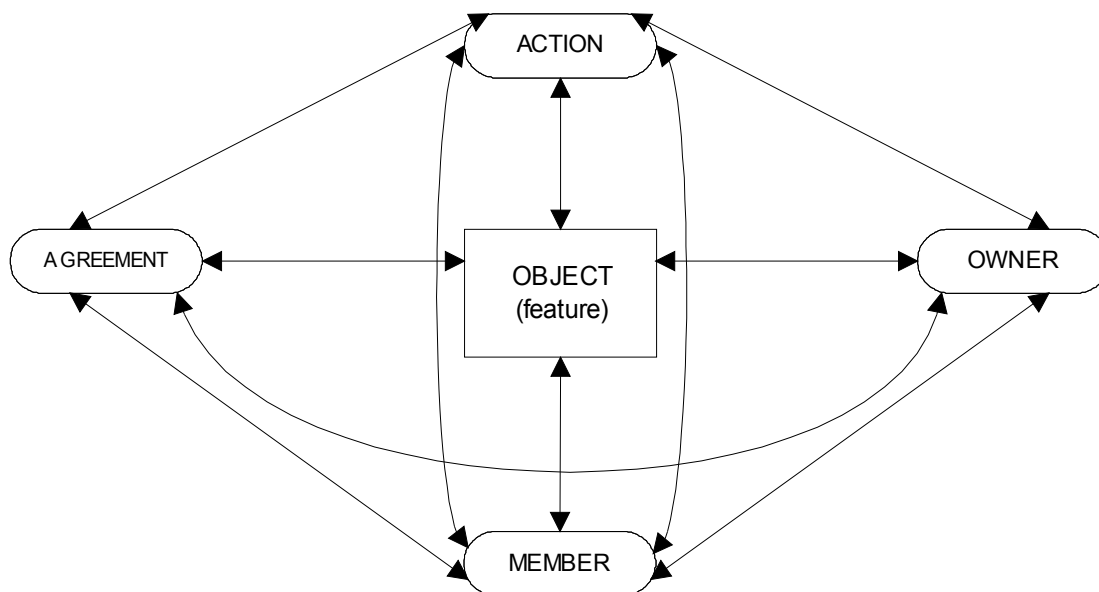
121

122 The mentioned linkages linkages between ownership, agreements and membership can also be  
123 divided to two actions:

- 124 \* distribution
- 125 \* usage

126 There is nothing new on the previous explanations. However, the difference between distribution

127 and usage should be as clear as possible; also the juridical text should explicate this difference  
 128 between distribution and usage.  
 129



130  
 131

132 In a information system there are a numerous features implemented; these features can be based on  
 133 agreements, ownership or membership. Also, there is a complex web of combinations among  
 134 agreements, ownership or membership. Generally speaking, we use different information systems  
 135 without considering agreements, ownership or membership related to a specific solution.  
 136

137 **Proposal 4: The Commission could systematically reveal complex webs of combinations**  
 138 **among agreements, ownership or membership in different cloud application fields.**  
 139

140 There is some mentions about terms of reference. In some previous opinions I have advocated a  
 141 project for creating very simple and readable documents.  
 142

143 **Proposal 5: There could be a project for creating highly readable terms of reference**  
 144 **documents.**  
 145

146 If external entities are used in evaluation projects, the terms must be very understandable. In  
 147 practice this means reading the legal text through, and then creating highly readable document.  
 148 There can be two or more layers for creating readability, e.g. user-friendly version and the actual  
 149 legal text (“legalese”).  
 150

151 Too often we provide terms written only by lawyers, and naturally this text can be very specific and  
 152 detailed legal text (“legalese”). In practical reality, the legal text can be presented in very user-  
 153 friendly forms.  
 154

155 One option is to have some labels for different parts of cloud solutions. An example from previous

156 endeavours is the <sup>1</sup> EU Ecolabel for printed paper products, which can be assessed critically.  
157



158  
159

160 Since the European Union is a multi-lingual community, the question of language is important.  
161 Generally speaking, just English versions of texts in some information systems might not be  
162 feasible. The developers some information systems could be very interested to have linguistic  
163 versions for their information services, but they dont have resources to do that.

164

165 **Proposal 6: The European Commission could work with global and regional partners**  
166 **for publishing linguistic versions of some important texts in different information**  
167 **systems.**

168

169 One option is, that the European Commission funds the translation work of some important  
170 information systems, and then collects the funded amount of money is collected gradually back, e.g.  
171 yearly basis. Naturally, there has to be serious assessment of this approach.

172

### 173 5. European-wide assessment of different licenses / Simplified figures

174

175 Another example is Creative Commons license, which have different figures for different licences;  
176 here are some examples of these figures.

177 Attribution-NonCommercial-NoDerivatives 4.0 International



178 Attribution-NonCommercial 4.0 International



179 Attribution-NonCommercial-ShareAlike 4.0 International



180

181 It is easy to <sup>2</sup> select a Creative Commons licence from the dedicated web page.

182

183 **Proposal 7: The Commission could work on different standardised licenses (based on**  
184 **Membership, Ownership and Agreements) and specify different figures for these**  
185 **licenses.**

186

### 187 6. More and more new identifiers (ID)

188

1 <http://www.euecolabel.eu/>, EU Ecolabel for printed paper products

2 <http://creativecommons.org/choose/?lang=en>, Choosing a Creative Commons license.

189 In the previous consultations there has been discussion about different identifiers (ID) in the  
190 different systems. It can be noted from the previous opinions, that there will be several and different  
191 identifiers (ID) for different levels. In the European Union level, there can be several identifiers  
192 (ID), e.g. following:

- 193 \* global identifiers (ID)
- 194 \* EU-wide identifiers (ID)
- 195 \* general member state identifiers (ID)
- 196 \* several identifiers (ID) in a member state.

197 It can be noted, that some member states (EU) are federations, and different federal states can have  
198 their own identifiers (ID).

199  
200 More IDs is one of the consequences of digitalisation (of everything). The ID is identifier  
201 in an information system. Examples of these identifiers are following:

- 202
- 203 1) Facebook ID for an individual person
- 204 2) Facebook ID for the individual up-dates of individuals
- 205 3) Data Universal Numbering System (D-U-N-S)
- 206 4) Reuters instruments codes (RICs)
- 207 5) Social security code for individual citizens in the European Union member states
- 208 6) Business identity code for a company in an European Union member state
- 209 7) Value added tax code for a company in an European Union member state.

210  
211 The examples of private IDs (Facebook IDs, Data Universal Numbering System (D-U-N-S),  
212 Reuters Instrumens Codes (RICs)) show, that persons and/or communities can use or even demand  
213 of using IDs from privately owned information systems.

214  
215 Social security codes and tax identifier codes are examples of publicly owned information system,  
216 and use of public identifiers have spread to several private systems. E.g. in Finland the social  
217 security code is so prevalent, that the private companies can possibly combine information from  
218 numerous private information systems. Naturally, these combination efforts raise serious questions  
219 about the rules and regulations of combining information from private information systems.

220  
221 There may be new identifiers identifiers based on the development of new cloud systems.

222  
223 **Proposal 8: There could be a systematic project to collect relevant information of**  
224 **different identifiers: e.g. global, EU-wide, regional and national.**

225  
226 When information about relevant identifiers is collected, there could be a serious assessment of  
227 possible (near) monopoly situation of some identifiers. Depending on the nature of an identifier,  
228 there may be a need for serious (anti-trust?) negotiations with providers of some identifiers.

229  
230 **Proposal 9: The Commission could assess nature of different identifiers.**

231 **Proposal 10: The Commission could start serious negotiations with some providers of**  
232 **identifiers.**

233

234 **7. Why use so much text for a simple issue?**

235

236 The current reality is, that there may be more and more new identifiers, since digitalisation of  
237 different areas will result new identifiers and/or combination of new and old identifiers. Another  
238 aspect of these public IDs are, that they can demand very comprehensive amount of  
239 international diplomacy.

240

241 An example is the International Registry pursuant to the Luxembourg Protocol to the Convention on  
242 International Interest in Mobile Equipment on Matters specific to Railway Rolling Stock (the  
243 Luxembourg Protocol). The mentioned agreement has been signed by the European Union, and the  
244 ratification process is underway.

245

246 The Reuters Instrumens Codes (RICs) is an example of a near monopoly situation, and some of  
247 current private IDs might constitute (near) monopoly situations. Naturally, (near) monopolies can be  
248 assessed by the Competition Directorate-General, and it will be interesting to see possible new  
249 cases related to private IDs.

250

251 The creation YET another public identifier is not always organised by the European Union, and in  
252 some cases the European Union (and member states) just have to accept the reality of some of those  
253 public identifiers – in some cases even private identifiers are the norm.

254

255 In Finland Finnish Business Information System actually combined three previous register together,  
256 and the current Business Identity Code have spread to the usage in several private and public  
257 systems. Based on this consolidation of three identifiers to just one identifiers, there could be  
258 similar work in other application fields.

259

260 **Proposal 11: The Commission could somehow support of consolidation efforts, which**  
261 **could reduce the number of different identifiers.**

262

263 **8. Some simple conceptions of information technology**

264

265 In the center (most arrows) of an information system are programs (software). Without programs  
266 there is not any activity in a information system. It can be also noted, that operating system is also  
267 part of a information system, since the operating system communicates with processor (machinery).  
268 Depending on different data models, programs can use documents/databases.

269

270 From this simple (figure) conception we can differentiate several standard classes.

271

1) Data (documents) standards

272

2) Data (database) standards

273

3) Standards for adding data to a system.

274

4) Standards for retrieving data from a system.

275

5) Standards for changing data in a system.

276

6) Standards for removing data from a system.

277

7) Display standards

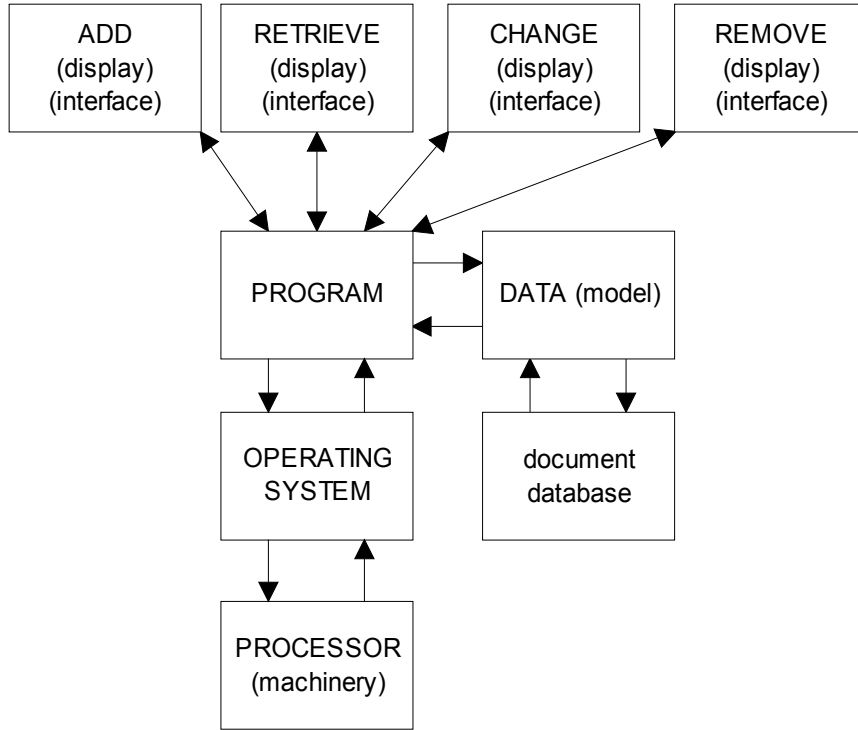
278

8) Interface standards



279

9) Different communication standards.



280

281

282 The figure above is a simple conception of information technology: especially we should note the  
 283 difference between documents and databases. It can be noted, that databases can contain links to  
 284 different documents. We can note that we are mainly working with documents in different forms:  
 285 e.g. text document, videos, voice, audiovisual and different combinations.  
 286

286

	OPEN	CLOSED
1. Device / Machinery		
2. Operating system		
3. Program(s)		
4. Data model / Conceptual model		
5. Document (Standard)		
6. Database (Standard)		
7. Communications (Standard)		
8. Retrieve / Interface		
9. Add / Interface		
10. Remove / Interface		
11. Change / Interface		

287

288 Like the previous figure indicates, the documents can actually change to the database information in  
289 a database; the results is naturally new IDs and new databases. The data is consumed/used/etc. by  
290 the humans, and their internal mental world can change based on the consumed/used/etc.  
291 information. This means, that for some persons the data transmitted with the help of database IDs  
292 means something or nothing. Humans use different displays and computer use different interfaces,  
293 e.g. a mobile device can access data in an database with an interface, and then the data is converted  
294 to the mobile device display.

295

## 296 **9. Avoiding lock-ins**

297

298 The mentioned functions (11) can be based on open solution or closed solutions. Sometimes there  
299 can be different lock-ins based on some closed solutions. Depending on the actual situation of an  
300 lock-in, there can be serious problems during the life-cycle of an information system. Depending on  
301 the situation, there might be (near) monopoly situation with some lock-ins.

302

303 **Proposal 12: The Commission could gather together information about different lock-**  
304 **ins in different cloud application fields.**

305 **Proposal 13: The Commission could start serious negotiations with some some**  
306 **communities, which are causing some lock-in situation.**

307

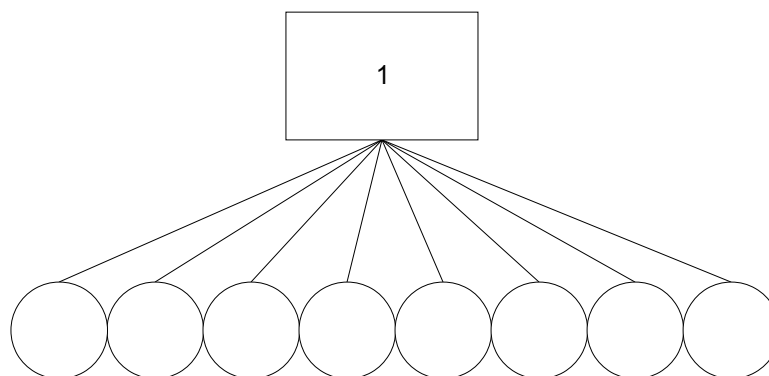
## 308 **10. The needed amount of different interfaces**

309

310 The actual reality is very complex. In practical terms there are several situations:

- 311 \* systems must communicate directly with each other
- 312 \* there will be several communications methods for direct communication
- 313 \* there are different standards for direct communication
- 314 \* data in the system is added by processing different documents
- 315 \* data from the system is extracted and loaded to different documents
- 316 \* there are different standards for different documents
- 317 \* there will be several types for different documents
- 318 \* there are several displays / interfaces to system(s)
- 319 \* there are several user groups.

320



321

322

323 Based on the previous differentiation between databases and documents, there can be several  
324 different interfaces in a specific system. There is a need for several interfaces to serve external  
325 systems / stakeholders. I would differentiate following interface need:

326 \* direct system-to-system connection

327 \* interfaces based on transmitting documents between different systems.

328

329 One solution can be standardisation efforts for different interfaces in several systems. The European  
330 Commission could work with global and regional partners for creating standardised user interfaces  
331 for different stakeholders. These standardised user interfaces could then be implemented by  
332 different information systems.

333

334 **Proposal 14: The Commission can could support work, which rigorously develops and**  
335 **tests different interfaces for different purposes.**

336 **Proposal 15: The Commission can advocate standardised user interfaces in the**  
337 **European Union level.**

338

339 For example, there could be one standardised (EU) interface for security configurations for different  
340 cloud applications, which mean that there could be one standardised interface (EU) even though the  
341 technology underneath a cloud application could vary.

342

343 Most probably the following claims will cause a lot of unrest among ICT specialists:

344

345 1. There can be possibly tens of different interfaces (displays)

346 2. There can be several interfaces (displays) for different user groups

347 3. Different interfaces will be added and removed irregularly.

348

349 One interface to all users will not work, and so-called heavy users will complain about the one  
350 interface being too complex and demanding several selections before the actual functions (add,  
351 remove, change, retrieve).

352

353 For certain ICT specialist, i.e. programmers and database specialists, one interface is a good target,  
354 since just getting one interface to work is a good challenge. Therefore creating several interfaces  
355 (displays) might cause unrest.

356

357 For certain ICT specialist, i.e. usability experts, several displays can be totally non-understandable  
358 challenge, since they are used to create one interface with maximum usability – maximum meaning  
359 all instructions and all selections well-explained. Also user interface testing is thought to demand  
360 several days of testing.

361

362 Generally speaking, creating highly usable interfaces is not the norm in many cases; also the  
363 problem multiplies when there is just one non-usable interface for a system. Therefore, creating,  
364 testing and standardising several interfaces could be an option.

365

366 Different stakeholders have their own information systems, which can be very cumbersome and/or  
367 antiquated. Here is yet another way for describing information (feed) needs. Four basic functions:

368 Retrieve, Add, Remove, Change. In the current information technology environment there are .e.g  
 369 following information system: server, desktop and mobile systems.

370

371 Each of these functions can mean real-time system or e.g. systems updated daily. There can be very  
 372 cumbersome and/or antiquated (customer) systems. Generally speaking, users can divided e.g. in to  
 373 different classes:

374 \* heavy users – e.g. using the system daily or several times in a day

375 \* casual user – not using daily but montly

376 \* other users – e.g. using system sometime not daily/monthly

377 So, there can be different user interfaces for different user classes.

378

379 **11. Concentration on the needed standards**

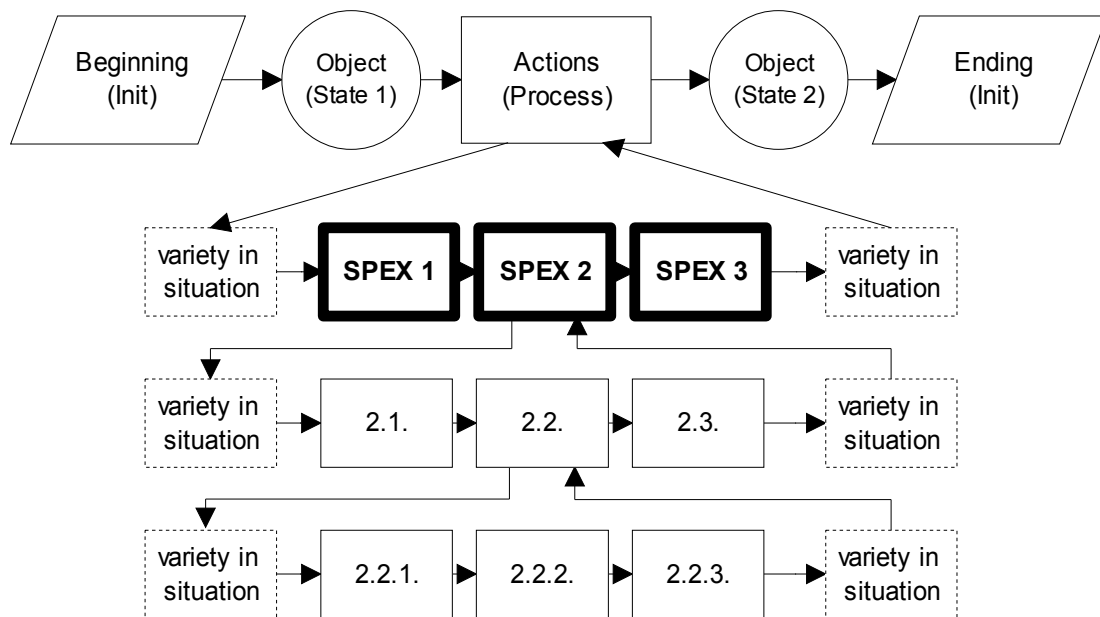
380

381 In reality, the distribution and usage (of digital objects) can be described as a process from the  
 382 beginning to the ending. The level of process description can be on several layers, and different  
 383 actors have different levels of detail in their processes. In the European level there could be  
 384 standardisation for some detailed phase(s) in the process (SPEX). For example, part(s) of interfaces  
 385 could be the same in all relevant systems. Generally speaking, informations system need in some  
 386 points highly detailed information, and in some cases this information is given by people using  
 387 displays.

388

389 It can be said, that after explicating first the clear outcomes and clear processes there can be very  
 390 detailed possibilities (SPEX) for the standardisation of the information and communication  
 391 technology.

392



393

394

395

396 **Proposal 16: The Commission could specify in a very detailed way possibilities for**  
 397 **standardised parts of cloud information systems.**

398 **Proposal 17: There can be global solutions for standardised parts of cloud information**  
 399 **systems.**

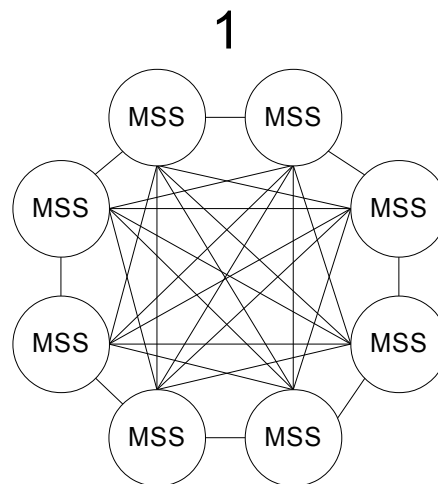
400 **Proposal 18: The Commission could gather together information of different standard**  
 401 **setting organisations.**

402  
 403 Based on the work done, there can be a list of different standards, which could be relevant. When  
 404 this list of standards is ready, there could be consultations for clarifying stakeholders' support of  
 405 different standards.

406  
 407 **Proposal 19: The Commission could consult different stakeholders to find out support**  
 408 **for different standards.**

409  
 410 One option is to distribute consultation information to members of different information technology  
 411 experts associations.

412  
 413 **12. Avoiding redundant work (or standards)**  
 414

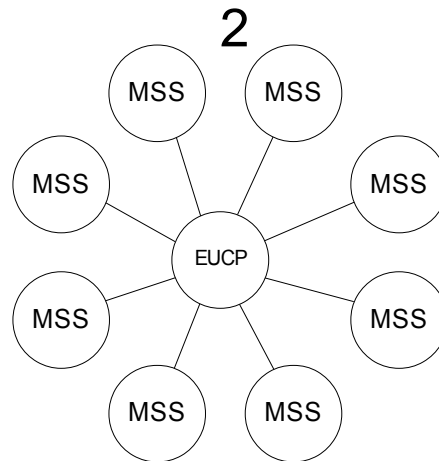


415  
 416  
 417 In member states (EU) there are hundreds of different information systems (MSS = as member  
 418 state information system). It can be concluded, that these systems are layered in different ways and  
 419 implement several standard (technology) generations. Generally speaking, there can be several  
 420 many-to-many connections, which are very cumbersome to implement and maintain.

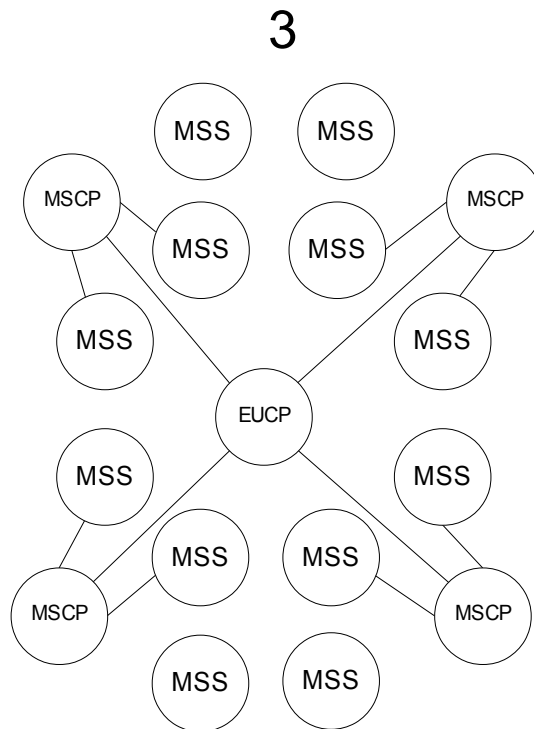
421  
 422 Generally speaking, in different members states (EU) there are unique situations and unique  
 423 information systems, when creating cooperation between different copyright holder. These  
 424 information system can be very specialised, and we can call them as Member State Systems (MSS).  
 425 The other extreme would be, that there would be just only one system (MSS) in a member state  
 426 system, and it could be connected to just one European contact point (EUCP).

427

428 In the European Union level there is need to extract information from different member state  
429 systems, and then there is a European contact point (EUCP) for this cooperation between different  
430 information systems.  
431



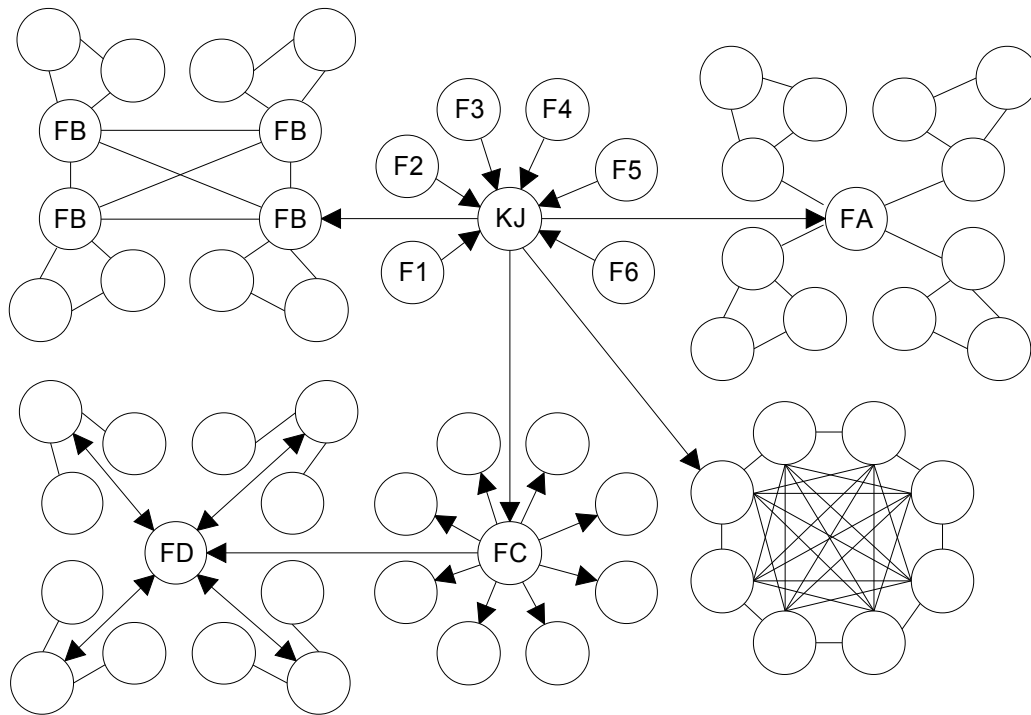
432  
433  
434 The practical reality is, that there will be several systems (MSS) in different member states.  
435 Therefore, there should be Member State Contact Point (MSCP) and the European Contact point  
436 (EUCP). Then different member states can consolidate own information systems with the Member  
437 State Contact Point (MSCP).  
438



439

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444

In previous consultations I have advocated of creating separate member state contact points (MSCP) and a separate European Union contact point (EUCP). In this way it easier for member state to consolidate different information system with their own timetable.



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Like indicated in the previous figure, different informations systems are tightly integrated, and the feeds (e.g. formats F1-F6, FA, FB, FC, FC, FD) between systems can be non-standard or standardised. Generally speaking, there are numerous feeds provided by different information systems. The European Commission could assess the situation, and it could fund the conversion work for some information systems.

453  
454  
455  
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457

There can be Member State Contact Points (MSCP), which integrates member state systems (MSSs), and this Member State Contact Point (MSCP) integrates to the European Contact Point (EUCP). In reality there are a huge collection of different Member State Systems (MSSs), which are constructed with wide variety of technologies.

458  
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460

**Proposal 20: The Commission should start implementing the proposed standards from European Union contact point(s) (EUCP) to member state contact points (MSCP).**

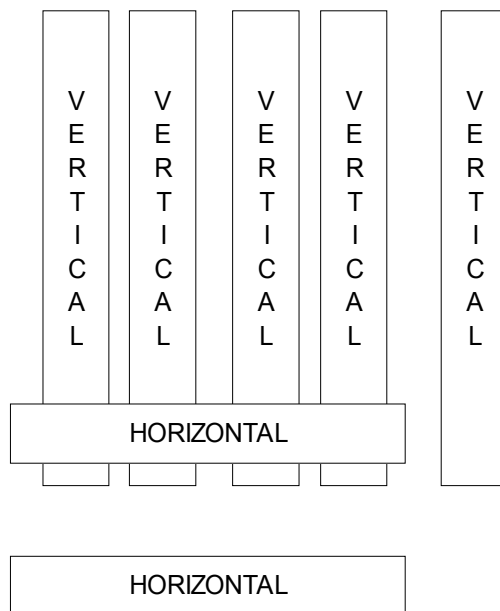
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**13. One theme: horizontal standards and vertical standards**

463  
464  
465

One of the main themes can be division standards: horizontal standards and vertical standards. What this means? Generally speaking, different ICT solutions will implement a large collection of different standards: open standards and closed standards. In many cases, different ICT solutions do

466 not work together and this might not constitute a problem. However, in many cases different ICT  
 467 solutions has to work together seamlessly – possibly without further problems.  
 468



469  
 470

471 **Proposal 21: There could be separation of horizontal standards and vertical standards.**

472 **Proposal 22: There could be different standardisation efforts to horizontal standards  
 473 and vertical standards.**

474 **Proposal 23: Developing horizontal standards should favoured in the development of  
 475 new and/or revised standards.**

476

477 It can be said, that in some point there will be need for horizontal standardisation. This means, that  
 478 several vertical systems can cooperate in different levels. The general development is, that there can  
 479 be several vertical solutions for the same computerisation area. An example for this standardisation  
 480 is the email standard (horizontal), when there are numerous email systems (vertical) created with  
 481 very wide variety of technologies.

482

483 **Proposal 24: The Commission can collect all relevant information about horizontal  
 484 standards.**

485 **Proposal 25: The Commission can collect all relevant information about vertical  
 486 standards.**

487

#### 488 14. Questionnaires for the members of different stakeholders (associations)

489

490 One idea is distributing questionnaires for <sup>3</sup> different IT expert associations, and members of those  
 491 associations could assess different IT standard proposals. Nowadays a lot of questionnaires  
 492 can be distributed and answered using different electronic measures.

<sup>3</sup> <http://www.ttlry.fi/english>, e.g. The Finnish Information Processing Association, FIPA, (Tietotekniikan liitto ry)



493

494

**Proposal 26: Part of the evaluation could be organising (electronic) questionnaires for members of different stakeholder/expert associations based on the application field.**

495

496

The questionnaires can be very structured or very free-form. The advantage of very structured questionnaire is naturally the ease of processing the results of an questionnaire. Answers to free-form questionnaires can result a lot of documents, and their assessment can mean a lot of manual processing.

501

## 502 **15. Summary**

503

504 There are a lot of different issues for organising trusted cloud environments in the European Union.  
505 Based on different constructive ideas, the Commission could update/create work program for cloud  
506 computing.

507

508

## 509 **16. Good luck !!!**

510

511 This opinion is quite limited. Hopefully, there are constructive ideas presented in other opinions.  
512 This remains to be seen.

513

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516 [Continues on the next page]

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### ANNEX 1

My opinions to the previous and relevant consultations – there consultations were mostly organised by the Commission of the European Union. General page to all consultations – both in English and in Finnish: <http://www.jukkarannila.fi/lausunnot.html>

EN: Opinion 1: Review of the rules on access to documents

[http://www.jukkarannila.fi/lausunnot.html#nro\\_1](http://www.jukkarannila.fi/lausunnot.html#nro_1)

EN: Opinion 2: Schools for the 21st Century

[http://www.jukkarannila.fi/lausunnot.html#nro\\_2](http://www.jukkarannila.fi/lausunnot.html#nro_2)

EN: Opinion 3: The future of pharmaceuticals for Human use in Europe- making Europe a Hub for Safe and Innovative medicines

[http://www.jukkarannila.fi/lausunnot.html#nro\\_3](http://www.jukkarannila.fi/lausunnot.html#nro_3)

EN: Opinion 5: Consumer Scoreboard, Questionnaire for stakeholders

[http://www.jukkarannila.fi/lausunnot.html#nro\\_5](http://www.jukkarannila.fi/lausunnot.html#nro_5)

EN: Opinion 6: Consultation on a Code of Conduct for Interest Representatives

[http://www.jukkarannila.fi/lausunnot.html#nro\\_6](http://www.jukkarannila.fi/lausunnot.html#nro_6)

EN: Opinion 8: European Interoperability Framework, version 2, draft

[http://www.jukkarannila.fi/lausunnot.html#nro\\_8](http://www.jukkarannila.fi/lausunnot.html#nro_8)

EN: Opinion 9: CAMSS: Common Assessment Method for Standards and Specifications, CAMSS proposal for comments

[http://www.jukkarannila.fi/lausunnot.html#nro\\_9](http://www.jukkarannila.fi/lausunnot.html#nro_9)

EN: Opinion 15: Collective Redress

[http://www.jukkarannila.fi/lausunnot.html#nro\\_15](http://www.jukkarannila.fi/lausunnot.html#nro_15)

EN: Opinion 17: Opinion to Antitrust Case No. COMP/C-3/39.530

[http://www.jukkarannila.fi/lausunnot.html#nro\\_17](http://www.jukkarannila.fi/lausunnot.html#nro_17)

EN: Opinion 18: Opinion Related to the Public Undertaking by Microsoft

[http://www.jukkarannila.fi/lausunnot.html#nro\\_18](http://www.jukkarannila.fi/lausunnot.html#nro_18)

EN: Opinion 19: Official Acknowledgement by the Commission

[http://www.jukkarannila.fi/lausunnot.html#nro\\_19](http://www.jukkarannila.fi/lausunnot.html#nro_19)

- 563 EN: Opinion 20: SECOND Opinion Related to the Public Undertaking by Microsoft  
564 [http://www.jukkarannila.fi/lausunnot.html#nro\\_20](http://www.jukkarannila.fi/lausunnot.html#nro_20)  
565
- 566 EN: Opinion 21: Opinion about the European Interoperability Strategy proposal  
567 [http://www.jukkarannila.fi/lausunnot.html#nro\\_21](http://www.jukkarannila.fi/lausunnot.html#nro_21)  
568
- 569 EN: Opinion 23: Public consultation on the review of the European Standardisation System  
570 [http://www.jukkarannila.fi/lausunnot.html#nro\\_23](http://www.jukkarannila.fi/lausunnot.html#nro_23)  
571
- 572 EN: Opinion 27: Public Consultation on the Modernisation of EU Public Procurement Policy  
573 [http://www.jukkarannila.fi/lausunnot.html#nro\\_27](http://www.jukkarannila.fi/lausunnot.html#nro_27)  
574
- 575 EN: Opinion 28: Consultation on the Europe 2020 Project Bond Initiative  
576 [http://www.jukkarannila.fi/lausunnot.html#nro\\_28](http://www.jukkarannila.fi/lausunnot.html#nro_28)  
577
- 578 EN: Opinion 30: Internet Filtering  
579 [http://www.jukkarannila.fi/lausunnot.html#nro\\_30](http://www.jukkarannila.fi/lausunnot.html#nro_30)  
580 NOTE: Organised by the European Committee for Standardization (CEN) <sup>4</sup>  
581
- 582 EN: Opinion 32: COMP/C-3/39.692/IBM – Maintenance services  
583 [http://www.jukkarannila.fi/lausunnot.html#nro\\_32](http://www.jukkarannila.fi/lausunnot.html#nro_32)  
584
- 585 EN: Opinion 34: REMIT Registration Format  
586 [http://www.jukkarannila.fi/lausunnot.html#nro\\_34](http://www.jukkarannila.fi/lausunnot.html#nro_34)  
587 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER) <sup>5</sup>  
588
- 589 EN: Opinion 35: Exploiting the employment potential of the personal and household services  
590 [http://www.jukkarannila.fi/lausunnot.html#nro\\_35](http://www.jukkarannila.fi/lausunnot.html#nro_35)  
591
- 592 EN: Opinion 37: CASE COMP/39.654 - Reuters instrument codes  
593 [http://www.jukkarannila.fi/lausunnot.html#nro\\_37](http://www.jukkarannila.fi/lausunnot.html#nro_37)  
594
- 595 EN: Opinion 39: Registry options to facilitate linking of emissions trading systems  
596 [http://www.jukkarannila.fi/lausunnot.html#nro\\_39](http://www.jukkarannila.fi/lausunnot.html#nro_39)  
597
- 598 EN: Opinion 40: Media Freedom and Pluralism / audiovisual regulatory bodies  
599 [http://www.jukkarannila.fi/lausunnot.html#nro\\_40](http://www.jukkarannila.fi/lausunnot.html#nro_40)  
600
- 601 EN: Opinion 41: AT.39398: observations on the proposed commitments  
602 [http://www.jukkarannila.fi/lausunnot.html#nro\\_41](http://www.jukkarannila.fi/lausunnot.html#nro_41)  
603
- 604 EN: Opinion 42: Opening up Education  
605 [http://www.jukkarannila.fi/lausunnot.html#nro\\_42](http://www.jukkarannila.fi/lausunnot.html#nro_42)

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4 <http://www.cen.eu/> (Accessed 2 July 2012)

5 <http://www.acer.europa.eu/> (Accessed 2 July 2012)

606

607 EN: Opinion 43: Publication of extracts of the European register of market participants

608 [http://www.jukkarannila.fi/lausunnot.html#nro\\_43](http://www.jukkarannila.fi/lausunnot.html#nro_43)

609 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)

610

611 EN: Opinion 44: Evaluation policy guidelines

612 [http://www.jukkarannila.fi/lausunnot.html#nro\\_44](http://www.jukkarannila.fi/lausunnot.html#nro_44)

613

614 EN: Opinion 45: About ICT standardisation

615 [http://www.jukkarannila.fi/lausunnot.html#nro\\_45](http://www.jukkarannila.fi/lausunnot.html#nro_45)

616

617 EN: Opinion 46: Review of the EU copyright rules

618 [http://www.jukkarannila.fi/lausunnot.html#nro\\_46](http://www.jukkarannila.fi/lausunnot.html#nro_46)

619

620 EN: Opinion 51: European Area of Skills and Qualifications

621 [http://www.jukkarannila.fi/lausunnot.html#nro\\_51](http://www.jukkarannila.fi/lausunnot.html#nro_51)

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**ANNEX 2**

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672 The English explanation is on the following web page:

673 <http://creativecommons.org/licenses/by-nc-nd/4.0/legalcode>

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6 Based on the Finnish three-party system there is a phenomenon called extreme-centre in Finland. The 2011 parliamentary elections in Finland challenge the three-party system, since three "old" parties were not traditionally as the three largest parties. The is now a "new" party as the third largest party. We all must remain being interested about this new development in Finland.