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Delivered to: [OSBTenders@finance.gov.au](mailto:OSBTenders@finance.gov.au)  
Department of Finance  
AUSTRALIA

**Seeking industry comment on Government Content Management System – GovCMS Draft  
Statement of Requirements**

First of all, a lot of thanks to the Department of Finance (Australia) of organising this interesting  
consultation.

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.

Department of Finance (Australia) can add the PDF file of this opinion on a relevant web page

Annex 1 holds information about disclaimers and copyright.

Best Regards,

Jukka S. Rannila  
citizen of Finland (Europe)

signed electronically

[Continues on the next page]

## 42 **Previous consultations and previous opinions about information technology (Annex 1)**

43

44 Annex 1 contains information about my opinions related to information technology – both in  
45 Finnish and English. Opinions written in English are the majority of different opinions, and there is  
46 also some opinions about other issues.

47

### 48 **The European context**

49

50 In the European Union there is the Joinup<sup>1</sup> web page dedicated interoperability solutions for public  
51 administrations, and that web page consolidates information about different aspects of  
52 interoperability information.

53

54 An example is the Open Source Observatory (OSOR), which collects together information about  
55 different open source solutions in the public sector.

56

57 It can also be concluded, that the in the European Union level the European Commission (EC)<sup>2</sup> has  
58 been very active for organising different<sup>3</sup> consultations related to different domains.

59

### 60 **Some contributions from the previous consultations?**

61

62 One of the main contributions from the previous consultations has been simplified descriptions of  
63 information technology. In many consultation documents, there has been quite ambiguous  
64 descriptions about information technology in different application fields.

65

66 It can be also concluded, that there are hundreds (or thousands) of different information systems in  
67 the European Union member states (28 states at the moment), and some cases there is an actual  
68 need to consolidate some of those member states information systems.

69

70 It can also be concluded, that the Directorate-General for Competition (of the European  
71 Commission) has been very active in antitrust proceedings, and companies have selected between  
72 two options: EITHER comply voluntary with presented demands OR issuing<sup>4</sup> a complaint for the  
73 Court of Justice of the European Union.

74

### 75 **The Australian case – consolidating to just one governmental content management system 76 (CMS)?**

77

78 The Australian idea of just one governmental content management system (CMS), referenced as  
79 “Whole-of-Government Content Management System (GovCMS)”, is an interesting case.  
80 Experience can be later assessed in the European Union level and in the member state levels.

81

82 National Audit Office of Finland<sup>5</sup> has issued some critical reports about governmental waste related

1 <https://joinup.ec.europa.eu/>, Joinup web page

2 <http://ec.europa.eu/>, European Commission, welcome page

3 [http://ec.europa.eu/yourvoice/consultations/index\\_en.htm](http://ec.europa.eu/yourvoice/consultations/index_en.htm), Your voice in Europe, web page for consultations

4 <http://curia.europa.eu/>, Court of Justice of the European Union, welcome page

5 <http://www.vtv.fi/en>, National Audit Office of Finland

83 to Finnish public sector information systems.

84

85 In the Finnish context it can be concluded, that different (public sector) institutions have different  
86 content management systems, and the idea for consolidating for just one governmental content  
87 management system is worth considering.

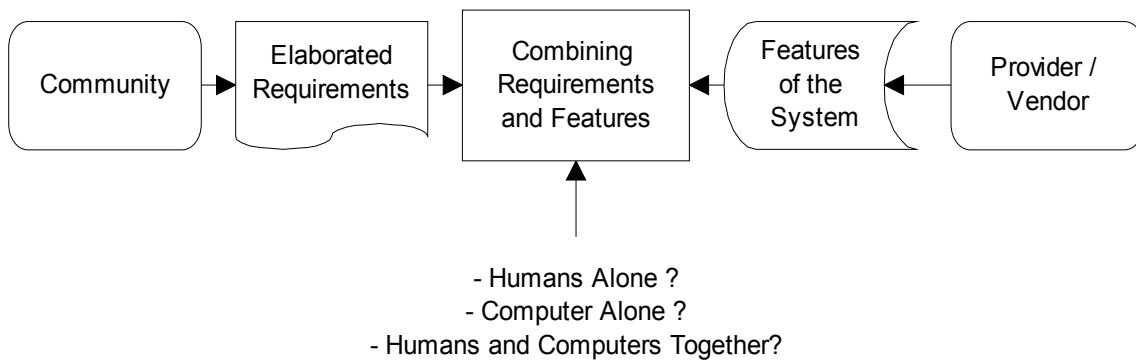
88

89 Actual solutions and actual experience of consolidating to just one governmental content  
90 management system in Australia can provide on example for reducing redundant information  
91 systems in the Finnish context.

92

93 **General / Relations with requirements and features**

94



95

96

97 It can be said, that the Department of Finance is now a community for elaborating different  
98 requirements to a (new) information system. The (new) information system features should conform  
99 to the requirements.

100

101 Requirements engineering is very high-risk task in the information and communication technology  
102 (ICT) field. Therefore we have even today very high-risk projects failing because of the  
103 requirements engineering problems.

104

105 Traditionally requirements engineering has been divided in to three distinct areas:

- 106 1) discovery
- 107 2) specification
- 108 3) validation and verification.

109 In the traditional terms it can be said, that this consultation is specifying different requirements for a  
110 new information system.

111

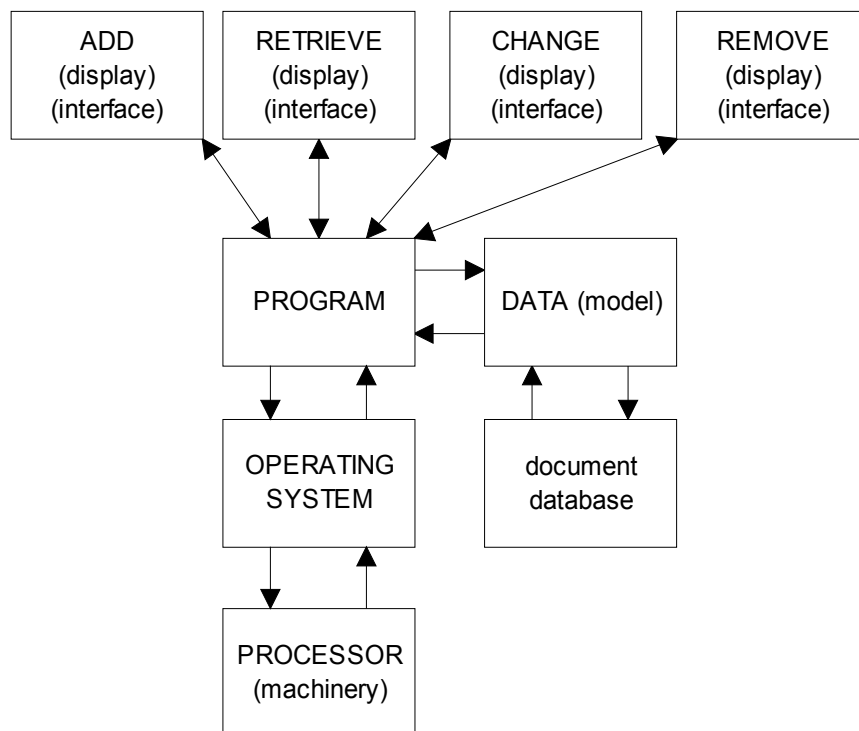
112 Actual implementation of the (new) information system can open totally new scenes for new and  
113 unforeseen requirements – thus opening a way for a new information system failure.

114

115 **General notes for the GovCMS**

116

117 One simple conception of information technology solutions is the following figure.



118  
119

120 The figure gives us four basic functions: add, retrieve, change and remove. Then there are databases  
121 and documents used in different systems. Users use different displays (interfaces). Different  
122 systems need administration (also maintenance) for keeping a system functional. Then there is  
123 communication (also standards) for direct and indirect usage of an information system.

124

125 It can be said, that in all parts of an information systems there can be open solutions and closed  
126 solutions.

127

128 In short:

- 129 \* the world is full of different objects (things)
- 130 \* objects can be nowadays be digital in all phases
- 131 \* someone owns some objects
- 132 \* usage can be based on ownership, agreements and membership
- 133 \* the linkages between ownership, agreements and membership can be very complex
- 134 \* the linkages between ownership, agreements and membership can change very often.

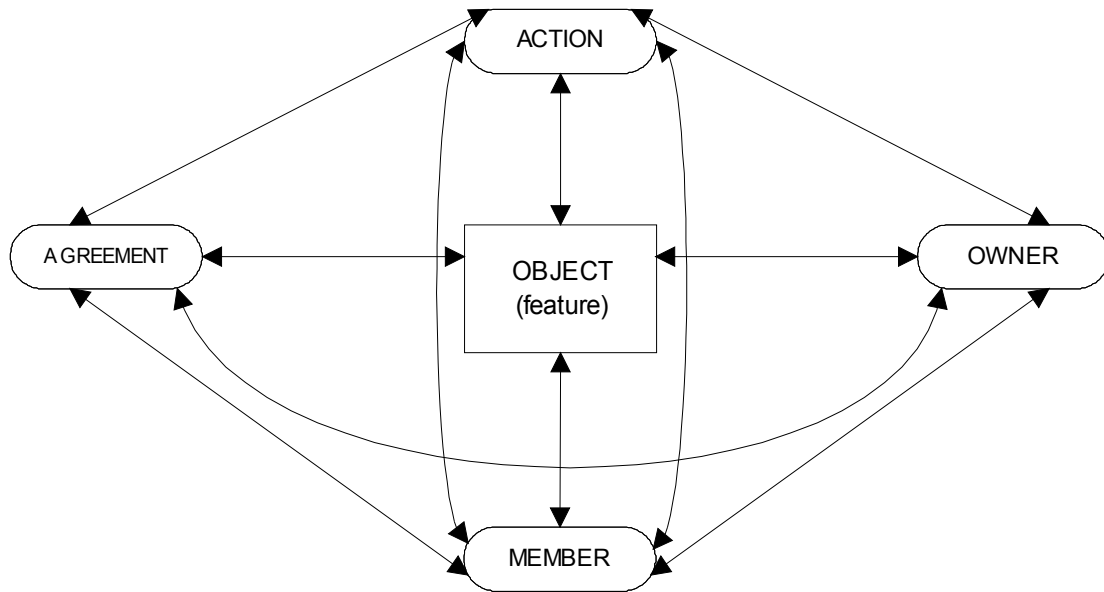
135

136 The mentioned linkages linkages between ownership, agreements and membership can also be  
137 divided to two actions: distribution and usage.

138

139 There is nothing new on the previous explanations. However, the difference between distribution  
140 and usage should be as clear as possible; also the juridical text should explicate this difference  
141 between distribution and usage.

142



143  
144  
145  
146  
147

Next table gives us some possibilities for assessing possibilities for open solutions and closed solutions.

	<b>Owner? Member? Agreement?</b>	<b>OPEN</b>	<b>CLOSED</b>
<b>1. Device / Machinery</b>			
<b>2. Operating system</b>			
<b>3. Program(s)</b>		<b>This consultation?</b>	
<b>4. Data models / Conceptual models</b>			
<b>5. Documents</b>			
<b>6. Databases</b>			
<b>7. Communications</b>			
<b>8. Retrieve / Interface / Display</b>			
<b>9. Add / Interface / Display</b>			
<b>10. Remove / Interface / Display</b>			
<b>11. Change / Interface / Display</b>			

148  
149

From this simple conception we can differentiate several standard classes.

- 150 1) Data (documents) standards
- 151 2) Data (database) standards
- 152 3) Standards for adding data to a system.
- 153 4) Standards for retrieving data from a system.
- 154 5) Standards for changing data in a system.
- 155 6) Standards for removing data from a system.
- 156 7) Display standards
- 157 8) Interface standards

158

159 In the previous consultations I have advocated following solution as the maximum solution:

160

- 161 \* public sector institute owns the machinery and processor of the information system
- 162 \* the machinery and processor are based on relevant open standards
- 163 \* the operating system is based on an open-source solution
- 164 \* public sector institute owns the source code of the information system
- 165 \* public sector institute owns the database of the information system
- 166 \* the database is based on open-source solution and on relevant open standards
- 167 \* public sector institute owns all data in the information system.

168

169 Naturally, there can be solutions, which are not based on the maximum solution. In this case  
170 (GovCMS) can be concluded, that Department of Finance actually would not own some parts of the  
171 (GovCMS) system, since those parts can be open-source solutions.

172

173 **Proposal: There is need to assess openness of several parts of the proposed (GovCMS)**  
174 **system: machinery (processor), operating system, programs using the operating**  
175 **system, documents, databases, communication, adding data, retrieving data, changing**  
176 **data, removing data, needed interfaces, needed displays.**

177

178 **Proposal: Department of Finance could use and/or demand open standards in several**  
179 **layers of the proposed system (GovCMS).**

180

181 It is quite normal situation in the information technology field that there is competing standards.  
182 Therefore there is all the time ongoing “standards wars” or “format wars”. The information  
183 technology standards tend to be interrelated and one “standards war” or “format war” can lead to  
184 another similar situation.

185

186 In practice public sector has very important role when some standards are competing in the market  
187 place. Because public sector has a considerable buying power due to its size, it can sometimes direct  
188 markets to certain standard.

189

190 On the other hand public sector has to stick to certain procurement regulations even though there  
191 might be pressure from the commercial market.

192

193 **More general notes for the GovCMS**

194

195 I suppose, that there are several systems in Australia (federal level and state level), and those  
 196 systems have their own life-cycle at the moment. I also suppose, that there is need for transmitting  
 197 data from other system to GovCMS system. This situation can be described in the following figure.  
 198

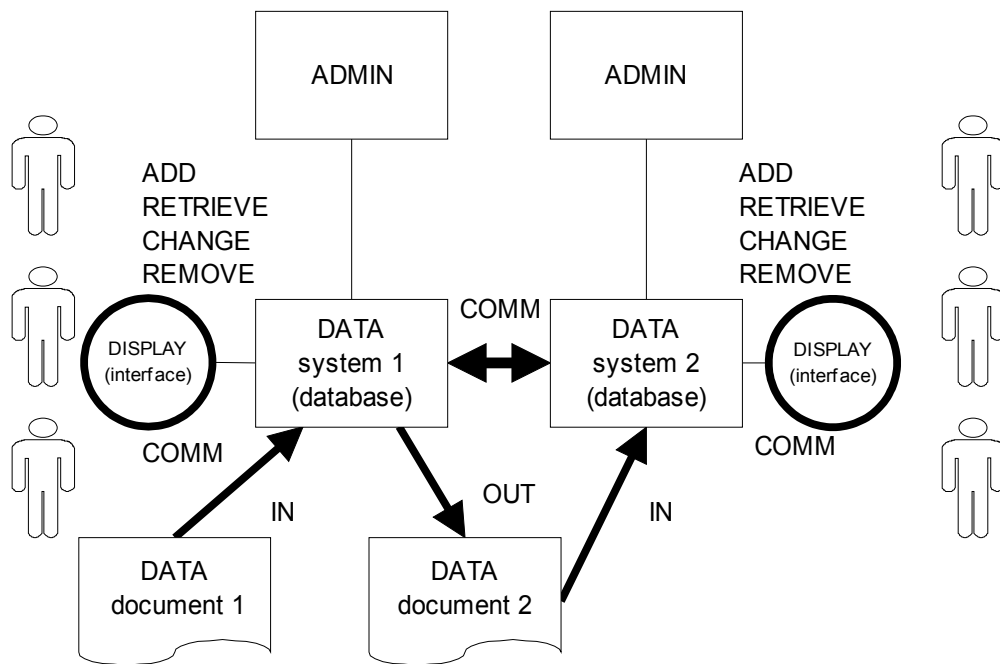
199 There are two options:

- 201 \* direct system-to-system communications
- 202 \* communication based on transmitted documents.

204 **Proposal: Different systems can be classified:**

- 205 **1) direct system-to-system communication**
- 206 **2) communication based on transmitting documents.**

208 Both options for system-to-system communications have weaknesses and strengths, and the  
 209 situation with tens (or even hundreds) different systems has to be assessed carefully.  
 210



211  
 212  
 213 There are a lot of different standard setting organisations (SDO), and one comprehensive list is  
 214 provided <sup>6</sup> for us by ConsortiumInfo.org.  
 215

216 Examples are naturally different XML documents and CSV documents.  
 217

218 **Proposal: Department of Finance could systematically assess existing standard setting**  
 219 **organisations (SDO) and assess standards provided by those communities.**  
 220

6 <http://www.consortiuminfo.org/links/linksall.php>, Standard Setting Organizations and Standards List

221 **Proposal: The number of redundant standardisation efforts should be minimal.**

222

223 **Proposal: Department of Finance could consult different stakeholders to find out**  
224 **support for different standards.**

225

226 **Proposal: Department of Finance could support and/or demand usage of open**  
227 **standards.**

228

229 **Avoiding lock-ins**

230

231 Previously mentioned functions (1-11) can be based on open solution or closed solutions.  
232 Sometimes there can be different lock-ins based on some closed solutions. Depending on the actual  
233 situation of an lock-in, there can be serious problems during the life-cycle of an information system.  
234 Depending on the situation, there might be (near) monopoly situation with some lock-ins.

235

236 **Proposal: Department of Finance could gather together information about different**  
237 **lock-ins in different cloud application fields.**

238

239 **Proposal: Department of Finance could start serious negotiations with some**  
240 **communities, which are causing some lock-in situations.**

241

242 **The needed amount of different interfaces**

243

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

245

- 246 \* systems must communicate directly with each other
- 247 \* there will be several communications methods for direct communication
- 248 \* there are different standards for direct communication
- 249 \* data in the system is added by processing different documents
- 250 \* data from the system is extracted and loaded to different documents
- 251 \* there are different standards for different documents
- 252 \* there will be several types for different documents
- 253 \* there are several displays / interfaces to system(s)
- 254 \* there are several user groups.

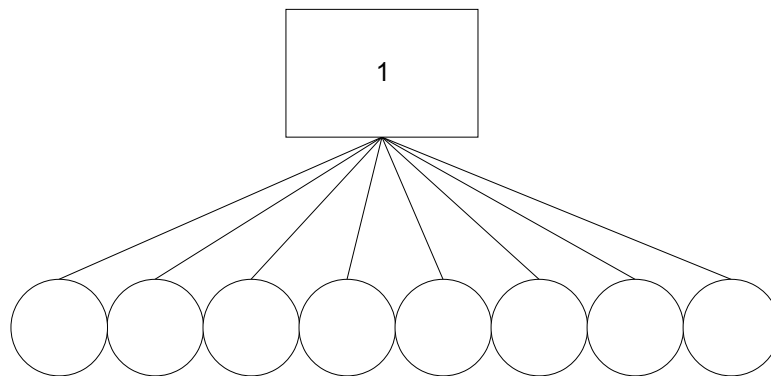
255

256 Based on the previous differentiation between databases and documents, there can be several  
257 different interfaces in a specific system. There is a need for several interfaces to serve external  
258 systems / stakeholders.

259

260 One solution can be standardisation efforts for different interfaces in several systems. Department  
261 of Finance could work with global and regional partners for creating standardised user interfaces  
262 for different stakeholders. These standardised user interfaces could then be implemented by  
263 different information systems.





264

265

266 **Proposal: Department of Finance can could support work, which rigorously develops**  
267 **and tests different interfaces for different purposes.**

268

269 **Proposal: Department of Finance can advocate standardised user interfaces in**  
270 **different levels.**

271

272 For example, there could be one standardised interface for security configurations for different  
273 applications, which mean that there could be one standardised interface even though the technology  
274 underneath a cloud application could vary.

275

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

279

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

281

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

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

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

285

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

289

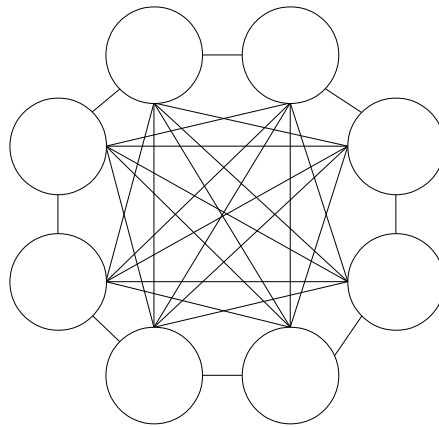
### 290 **Avoiding redundant work (or standards)**

291

292 There can be hundreds of different informations systems. It can be concluded, that these systems are  
293 layered in different ways and implement several standard (technology) generations. Generally  
294 speaking, there can be several many-to-many connections, which are very cumbersome to  
295 implement and maintain.

296

1



297  
298

299 **Proposal: Department of Finance could assess the situation with complex many-to-**  
300 **many relations between different systems.**

301

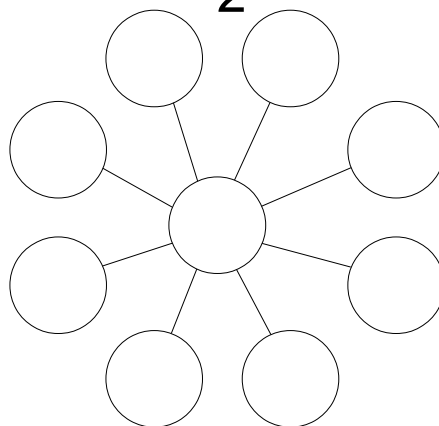
302 The problem with complex many-to-many systems is that changes/updates in a system causes a  
303 large amount of internal changes (also in source code) in other systems. This situation can be called  
304 “spaghetti”, which means a large number of different interrelations, that changes/updates can be  
305 very cumbersome.

306

307 The opposite solution is naturally having just one central system, and with that central system  
308 cooperation between systems can be different one-to-many situation.

309

2



310

311

312 The problem with this option is dependence on a single system, and defects in a central system  
313 causes instantly problems with dependent systems.

314

315

**Proposal: Department of Finance has to assess the situation of different central**

316 **systems.**

317

318 **Proposal: Department of Finance could select one central system for cooperation**  
319 **between different systems.**

320

321 The proposed GovCMS system may not be the needed central system, and that situation has to be  
322 assessed carefully.

323

324 One option is to have a hierarchical system-to-systems connections, when there is less dependence  
325 on just one central system.

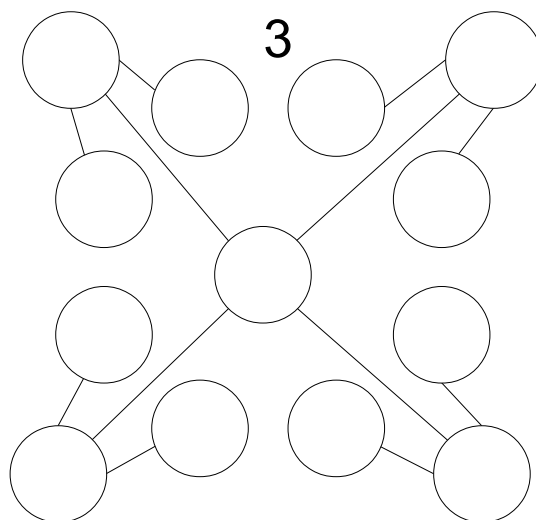
326

327 **Proposal: Department of Finance could assess the needed hierarchy between the**  
328 **systems.**

329

330 **NOTE: It is possible, that GovCMS could be a needed central system.**

331



332

333

334 **Different layered systems**

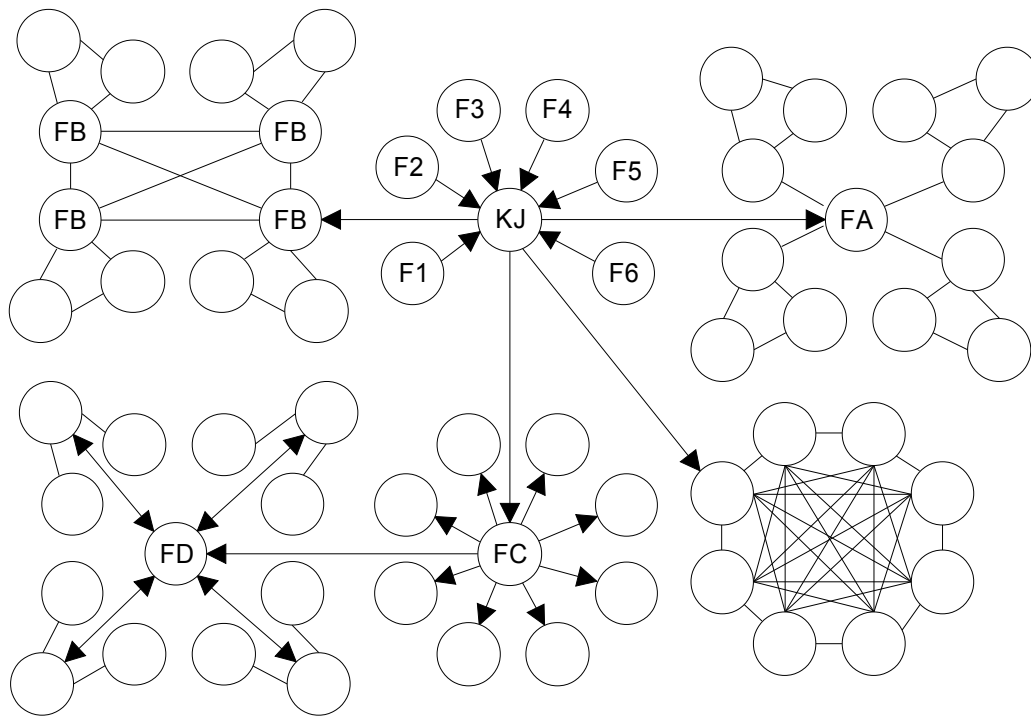
335

336 Like indicated in the next figure, different information systems are tightly integrated, and the feeds  
337 (e.g. formats F1-F6, FA, FB, FC, FC, FD) between systems can be non-standard or standardised.

338 Generally speaking, there are numerous feeds provided by different information systems.

339 Department of Finance could assess the situation, and it could fund the conversion work for some  
340 information systems.

341



342  
343

344 In reality different systems are layered, and there can be several standards and different versions of  
345 different standards.

346

347 **Proposal: There might be need for several versions of different standards to be used for**  
348 **system-to-system cooperation.**

349

350 It depends on a system, how easy it is to use different systems. I also suppose, that in Australia there  
351 are different public sector systems with different life-cycles.

352

353 **One theme: horizontal standards and vertical standards**

354

355 One of the main themes can be division standards: horizontal standards and vertical standards. What  
356 this means? Generally speaking, different ICT solutions will implement a large collection of  
357 different standards: open standards and closed standards. In many cases, different ICT solutions do  
358 not work together and this might not constitute a problem. However, in many cases different ICT  
359 solutions has to work together seamlessly – possibly without further problems.

360

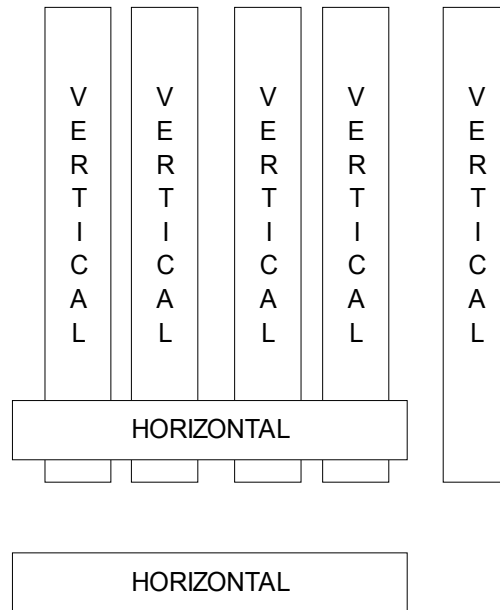
361 **Proposal: There could be separation of horizontal standards and vertical standards.**

362

363 **Proposal: There could be different standardisation efforts to horizontal standards and**  
364 **vertical standards.**

365

366 **Proposal: Developing horizontal standards should favoured in the development of new**  
367 **and/or revised standards.**



368  
369

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

375

376 **Proposal: Department of Finance can collect all relevant information about horizontal**  
377 **standards.**

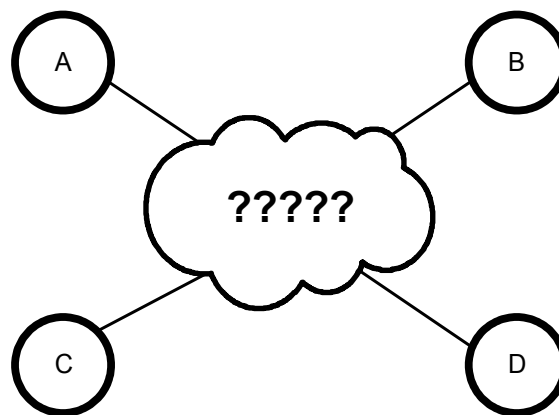
378

379 **Proposal: Department of Finance can collect all relevant information about vertical**  
380 **standards.**

381

382 **About cloud systems**

383



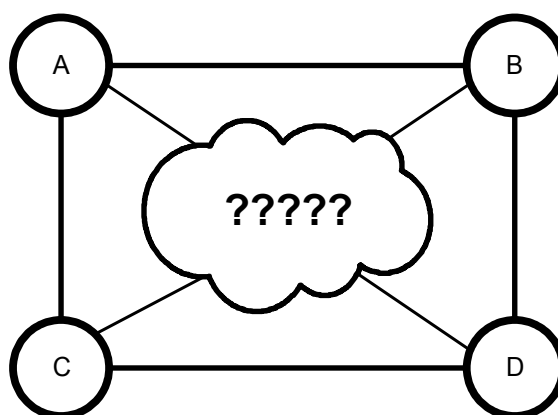
384

385 In theory, a cloud can be an application, and the users just add data to the application, and there is  
386 no need to have local computing resources – e.g. “just have an internet connection”. In this Opinion,  
387 the serious risks in “cloud” computing are not assessed.

388

389 In practical reality, different systems (e.g. A, B, C, D) can be joined together with one-to-one  
390 connections, and systems can be joined with one-to-many system (E.g. 28 systems → System A,  
391 etc.). Then these systems (e.g. A, B, C, D) use “the cloud” with non-Australian systems, which are  
392 relevant. In some cases, the global IDs are free to use. In some cases, there is fees for these global  
393 IDs.

394



395

396

397 An example <sup>7</sup> of different IDs is C-SPAN video library, where there is IDs for persons, events,  
398 organisations, etc. On the other hand, e.g. in the European context European Commission has very  
399 vast amount of material, which have different IDs, and those services are usable with different  
400 information technologies. Similarly, several other EU institutions provide material with different  
401 IDs, and their usage is free world-wide.

402

403 **Proposal: Department of Finance could collect information about different IDs**  
404 **provided in different systems.**

405

406 **NOTE: There might be some private sector IDs, which are causing troubles for public**  
407 **sector systems.**

408

409 **Proposal: Possibly Department of Finance has to have serious negotiations about the**  
410 **usage and licences for using IDs in some private sector systems.**

411

412 One prime example of private sector IDs is <sup>8</sup> Facebook IDs, since several public sector institutions  
413 have been using Facebook extensively, even though the used IDs are private.

414

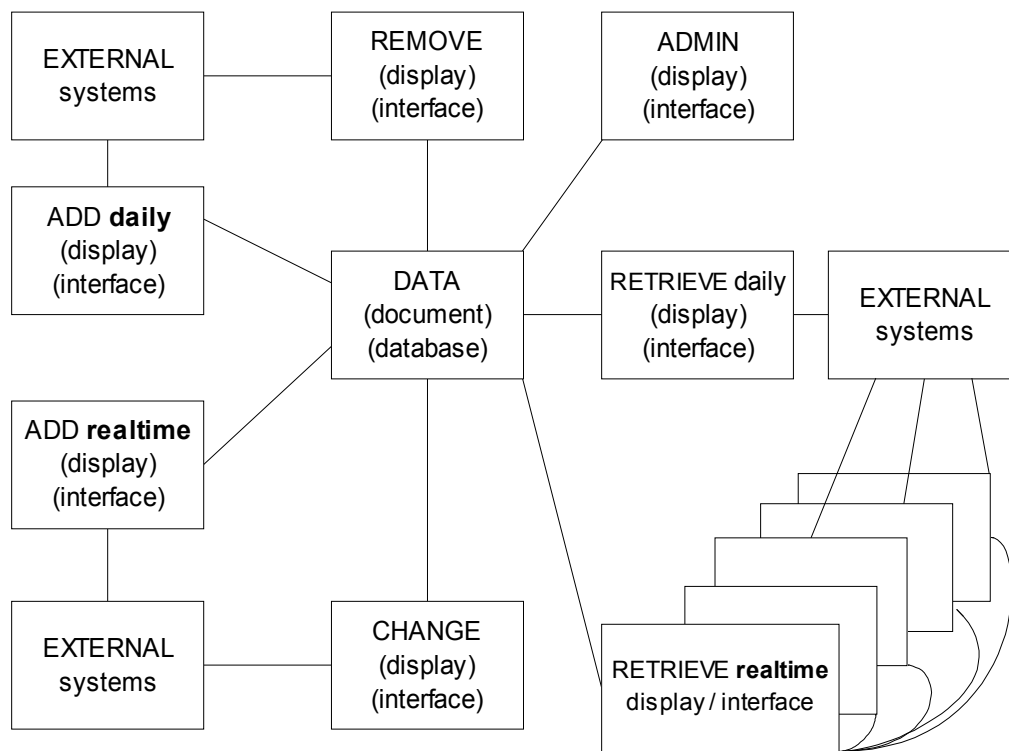
415 Cloud Computing is according to my understanding/judgement just adding more stuff to web  
416 servers and those actions are standardised in many ways. There are possibilities for external and

7 <http://www.c-spanvideo.org/>, C-SPAN video library

8 <https://www.facebook.com/>, Facebook main page.

417 internal usage of more powerful web servers. Since the communication speed in information  
 418 networks is nowadays considerable, there are possibilities to add more stuff to web servers. Since  
 419 the client computers nowadays are extremely efficient, the load between a server and a client can be  
 420 divided in more efficiently.

421  
 422 In practical reality different communication needs and different interfaces (displays) demand  
 423 replication of some parts of the (new) system. Since retrieval is the most needed function, the might  
 424 be replications for different communication methods, e.g. possible real-time retrievals come from  
 425 different replicated data system. These replicated retrieval systems might work on thousands of  
 426 retrievals per second. Naturally some external systems might work on real-time basis and they are  
 427 some-how connected to the (new) information system.  
 428



429  
 430

**Proposal: Department of Finance has to assess cooperation between content management system and other systems (e.g. real-time, daily, weekly, etc.).**

433

**Proposal: There might be need for cooperation between different systems and the prosed content management system, and Department of Finance has to assess this situation also.**

437

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

440

**How and why fond development of needed special features?**

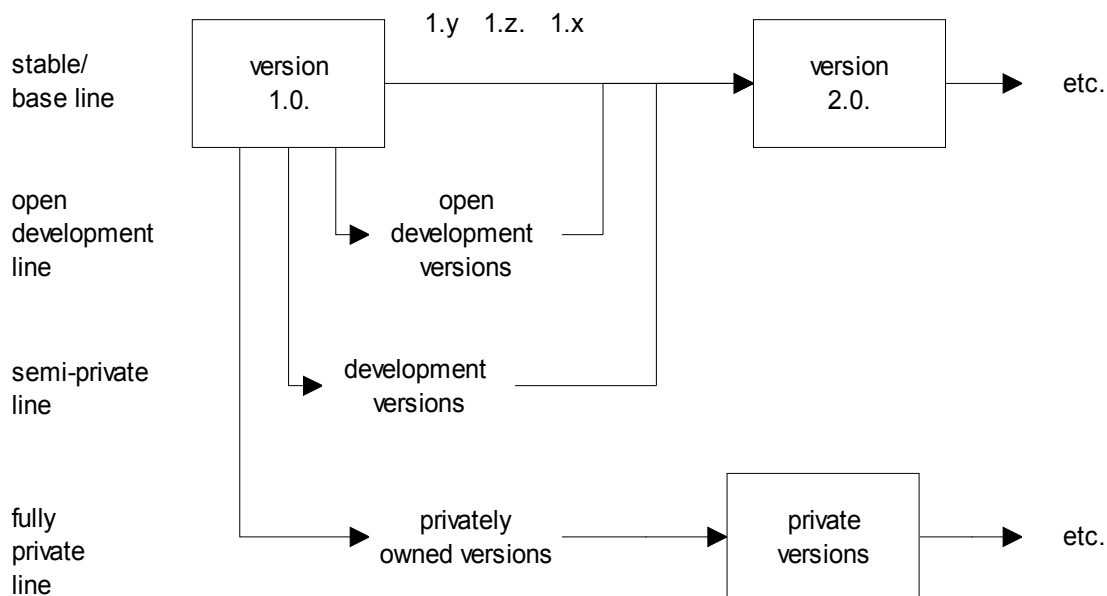
441

442 Department of Finance has decided to consolidate content creation and management to one open  
 443 source content management system. This decision represents an interesting case for world-wide  
 444 audience.

445  
 446 However, Australian requirements for the selected content management system may be  
 447 implemented differently:

- 448 \* there are features conforming to Australian requirements
- 449 \* there are features missing features based on Australian requirements.

450



451

452 There are some possibilities for solving this problem.

453

454 1) In the stable/base line development there are different open development versions and  
 455 final version is published also.

456 2) In semi-private line, some stakeholder(s) fund development of some features based on  
 457 their own needs and the final solution is published.

458 3) In some cases it is possible to develop own solutions, but the solutions are not published.

459

460 It can be noted, that many stakeholder groups strongly disagree on the third solution, and some  
 461 licences explicitly demand publishing new versions of some solutions.

462

463 However, we should be aware of real costs of using open solutions. There are real cost with open  
 464 (source) solutions, but they are **different** when compared to closed (source) solutions. Therefore,  
 465 Department of Finance should seriously consider following options.

466

467 **1) Department of Finance could join some organisations, which are concentrating on**  
 468 **some open solutions.**

469 **2) Based on membership (class) Department of Finance could pay the yearly**  
 470 **membership fees.**



471 **3) Possibly Department of Finance could use own workforce for developing the selected**  
472 **content management system.**

473  
474 Like said, there are **different** costs when comparing open solutions to closed solutions.

475  
476 **Drupal Association membership?**

477  
478 There is the following link about the Drupal Association membership:  
479 <https://assoc.drupal.org/membership>

480  
481 **Proposal: Department of Finance could join the Drupal Association.**

482  
483 **Other organisational memberships?**

484  
485 Previously I have explicated different standards and different programs.

486  
487 **Proposal: Department of Finance could assess need for additional memberships, e.g.**  
488 **standard setting organisations and/or organisations developing some open solution.**

489  
490 An example could be LINUX foundation<sup>9</sup> membership, since a Drupal system installation can use  
491 LINUX as the selected operating system.

492  
493 **One governmental customer identifier (ID)?**

494  
495 Generally speaking people are not happy with ever-increasing number of different identifiers and  
496 number of different passwords.

497  
498 **Proposal: Department of Finance has to assess the possibility of just one governmental**  
499 **customer identifier and one password for a average user.**

500  
501 **NOTE: Creation of just one governmental customer identifier and just one password**  
502 **may be impossible based on the life-cycle of different governmental systems.**

503  
504 **Different test environments?**

505  
506 It should be noted, that testing of a content management should be done extensively. It should be  
507 possible, that the selected provider and selected maintainer of the content management systems  
508 could establish different test environments.

509  
510 **Proposal: Department of Finance could demand the possibility for different test**  
511 **environments.**

512  
513 Different test environments could provide possibilities for serious testing before implementation of  
514 an actual content management system (i.e. production system).

---

<sup>9</sup> <http://www.linuxfoundation.org/about/join>, LINUX foundation

515

516

**ANNEX 1**

517

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

521

522

523 Here is a list of my opinions about information technology – both in English and in Finnish.

524

525

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

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

528

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

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

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533 EN:Opinion 13: Final Committee Draft ISO/IEC FCD3 19763-2

534 [http://www.jukkarannila.fi/lausunnot.html#nro\\_13](http://www.jukkarannila.fi/lausunnot.html#nro_13)

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536 EN: Opinion 14: SFS discussion paper / SFS:n keskusteluasiakirja

537 [http://www.jukkarannila.fi/lausunnot.html#nro\\_14](http://www.jukkarannila.fi/lausunnot.html#nro_14)

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

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

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

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

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545 EN: Opinion 19: Official Acknowledgement by the Commission

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

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548 EN: Opinion 20: SECOND Opinion Related to the Public Undertaking by Microsoft

549 [http://www.jukkarannila.fi/lausunnot.html#nro\\_20](http://www.jukkarannila.fi/lausunnot.html#nro_20)

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551 EN: Opinion 21: Opinion about the European Interoperability Strategy proposal

552 [http://www.jukkarannila.fi/lausunnot.html#nro\\_21](http://www.jukkarannila.fi/lausunnot.html#nro_21)

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554 EN: Opinion 23: Public consultation on the review of the European Standardisation System

555 [http://www.jukkarannila.fi/lausunnot.html#nro\\_23](http://www.jukkarannila.fi/lausunnot.html#nro_23)

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557 EN: Opinion 24: ISO/IEC JTC 1 / SC 34 / WGs 1, 4 and 5 in Helsinki 14-17 June 2010

558 [http://www.jukkarannila.fi/lausunnot.html#nro\\_24](http://www.jukkarannila.fi/lausunnot.html#nro_24)

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- 560 FI: Lausunto 29: Avoimen demokratian avoimen datan avaamisen detaljit (ADADAD)  
561 [http://www.jukkarannila.fi/lausunnot.html#nro\\_29](http://www.jukkarannila.fi/lausunnot.html#nro_29)  
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- 563 EN: Opinion 30: Internet Filtering  
564 [http://www.jukkarannila.fi/lausunnot.html#nro\\_30](http://www.jukkarannila.fi/lausunnot.html#nro_30)  
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- 569 EN: Opinion 32: COMP/C-3/39.692/IBM - Maintenance services  
570 [http://www.jukkarannila.fi/lausunnot.html#nro\\_32](http://www.jukkarannila.fi/lausunnot.html#nro_32)  
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- 572 FI: Lausunto 33: Julkishallinnon tietoluovutusten periaatteet ja käytännöt  
573 [http://www.jukkarannila.fi/lausunnot.html#nro\\_33](http://www.jukkarannila.fi/lausunnot.html#nro_33)  
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- 575 EN: Opinion 34: REMIT Registration Format  
576 [http://www.jukkarannila.fi/lausunnot.html#nro\\_34](http://www.jukkarannila.fi/lausunnot.html#nro_34)  
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- 578 EN: Opinion 37: CASE COMP/39.654 - Reuters instrument codes  
579 [http://www.jukkarannila.fi/lausunnot.html#nro\\_37](http://www.jukkarannila.fi/lausunnot.html#nro_37)  
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- 581 FI: Lausunto 38: SADe-ohjelman avoimen lähdekoodin toimintamallin luonnos  
582 [http://www.jukkarannila.fi/lausunnot.html#nro\\_38](http://www.jukkarannila.fi/lausunnot.html#nro_38)  
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- 584 EN: Opinion 39: Registry options to facilitate linking of emissions trading systems  
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- 587 EN: Opinion 41: AT.39398: observations on the proposed commitments  
588 [http://www.jukkarannila.fi/lausunnot.html#nro\\_41](http://www.jukkarannila.fi/lausunnot.html#nro_41)  
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- 590 EN: Opinion 43: Publication of extracts of the European register of market participants  
591 [http://www.jukkarannila.fi/lausunnot.html#nro\\_43](http://www.jukkarannila.fi/lausunnot.html#nro_43)  
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- 593 EN: Opinion 45: About ICT standardisation  
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- 596 EN: Opinion 46: Review of the EU copyright rules  
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600 [http://www.jukkarannila.fi/lausunnot.html#nro\\_47](http://www.jukkarannila.fi/lausunnot.html#nro_47)  
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- 602 FI: Lausunto 49: JSH 166 -suosituksen päivitys  
603 [http://www.jukkarannila.fi/lausunnot.html#nro\\_49](http://www.jukkarannila.fi/lausunnot.html#nro_49)  
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605 EN: Opinion 52: Trusted Cloud Europe Survey

606 [http://www.jukkarannila.fi/lausunnot.html#nro\\_52](http://www.jukkarannila.fi/lausunnot.html#nro_52)

607

608 EN: Opinion 53: Trade Reporting User Manual (TRUM) (Draft)

609 [http://www.jukkarannila.fi/lausunnot.html#nro\\_53](http://www.jukkarannila.fi/lausunnot.html#nro_53)

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

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617 [Continues on the next page]

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10 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.