1
2 **TO: European Commission**
3
4 **Document identifier: Ref. Ares(2017)3680140 - 20/07/2017**
5
6
7 **About technical arrangements for developing, maintaining and employing electronic systems**
8 **for the exchange of information and for the storage of such information under the Union**
9 **Customs Code**
10
11
12 First of all, a lot of thanks to European Commission for organising this important consultation.
13
14 This opinion represents an opinion of an individual citizen, not any legal entity.
15
16 This opinion does not contain:
17   –   any business secrets
18   –   any trade secrets
19   –   any confidential information.
20
21 This opinion is public.
22 PDF file of this opinion can be added to a relevant web page
23
24
25 Annex 1 holds information about previous consultations on the European Union level.
26 Annex 2 holds information about disclaimers and copyright.
27
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29
30
31
32 Best Regards,
33
34
35
36 Jukka S. Rannila
37 citizen of Finland
38
39 signed electronically
40
41
42 [Continues on the next page]
43

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44
45   **A list of previous consultations**
46
47   On Annex 1 is information about my previous consultations based on different consultations. Many
48   opinions have be been addressed to different units of the European Commission. I have repeated the
49   same issues several times on those documents (Opinions).
50
51   **Several proposals have been implemented / Ref. Ares(2017)3680140 - 20/07/2017**
52
53   I have highlighted several issues based previous consultations. Many of my proposals are already
54   implemented (Ref. Ares(2017)3680140 - 20/07/2017) as legislative text (proposed Commission
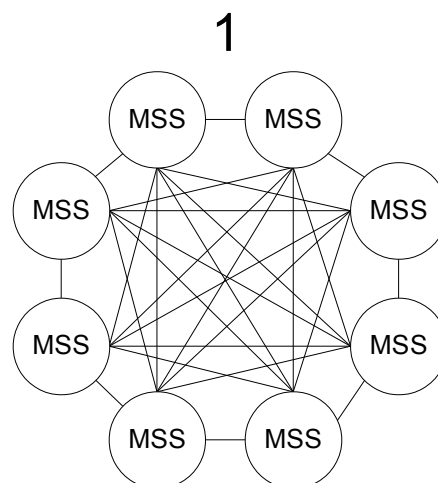55   implementing decision).
56
57   Therefore this opinion is rather limited and this opinion highlights just some issues.
58
59   **About different member state systems (MSS)**
60

61
62
63   I have noted several times that different member state systems (MSS) can interlinked in many ways.
64   This means that co-operation with European Union systems means a lot of work.
65
66   **About European Union Contact Point (EUCP)**
67
68   Naturally there could be direct contacts between different member state systems (MSS) and
69   European Union Contact Point (EUCP). This option (MSS ↔ EUCP) could mean very large
70   number of different member state system. Based on 28 member state systems there could be
71   hundreds of connections:
72   28 x 10 = 280 MSS ↔ 1 EUCP
73   28 x 20 = 560 MSS ↔ 1 EUCP
74   28 x 30 = 840 MSS ↔ 1 EUCP
75   etc.

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76 Here we can note that there can be hierarchy between different system (EU ↔ member states) and
77 there can be member state contact points (MCP). Then there can be some hierarchy between
78 different systems. (EU ↔ EUCP ↔ MSCP ↔ MSS ↔ Member state). There are unique situations
79 with member state systems in member states. Therefore member state contact points (MCP) can
80 reduce the complexity with European Union contact point (EUCP)
81
82 Based on those large numbers connecting (MSS ↔ EUCP) member state system I have to conclude
83 that there should be member state contact points (EUCP ↔ MSCP ↔ MSS).
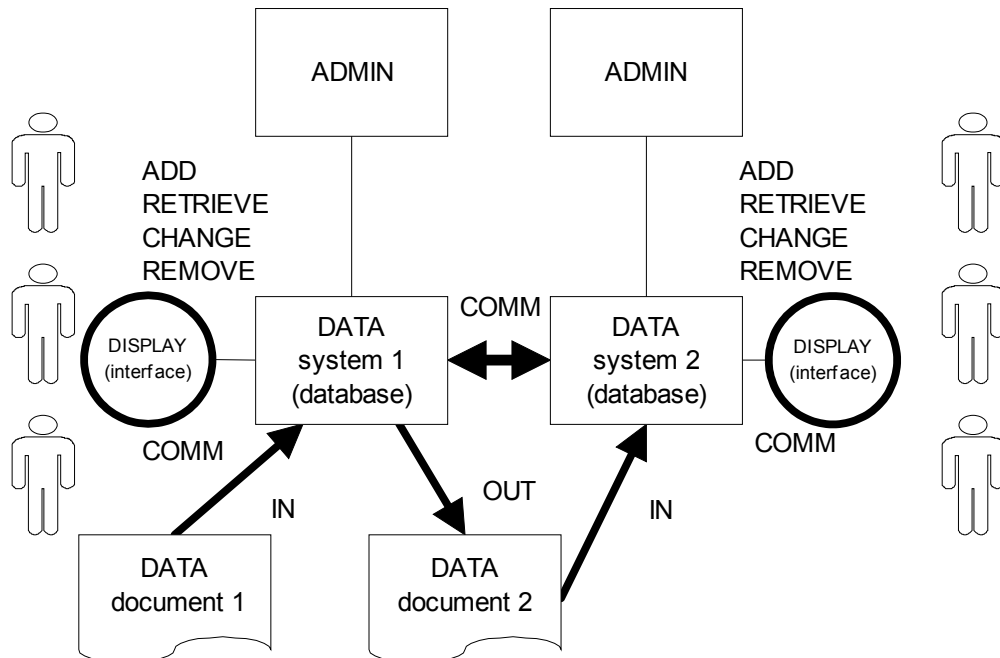84
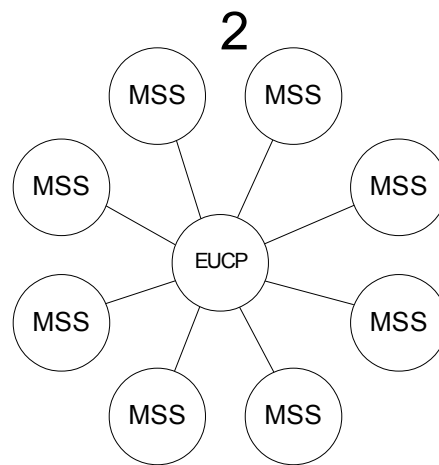
85
86
87 Based on those large numbers connecting (MSS ↔ EUCP) member state system I have to conclude
88 that there should be member state contact points (EUCP ↔ MSCP ↔ MSS).
89

90
91
92
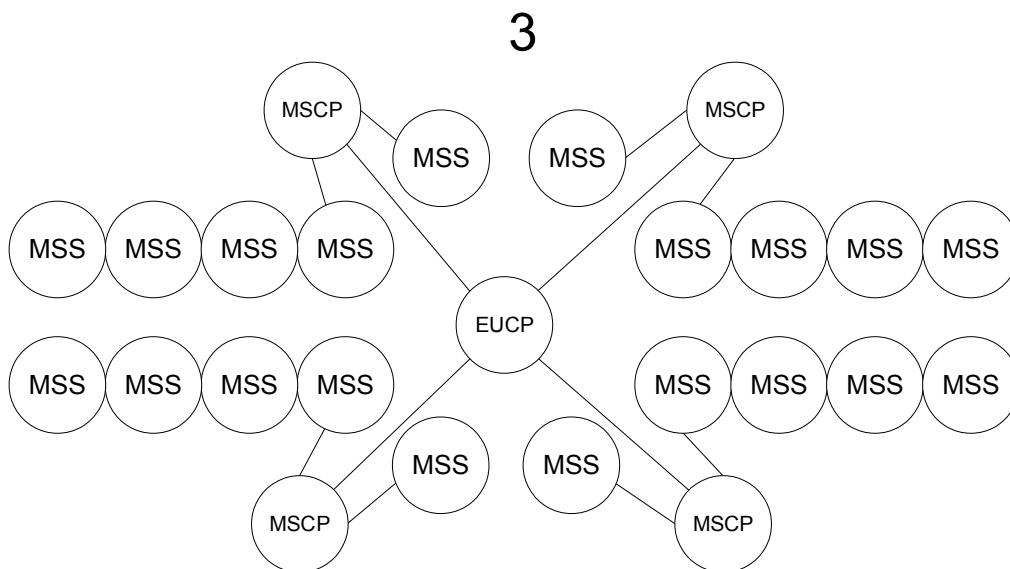
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93   **Differences between documents and databases**
94

95
96
97   Here we can note several basic issues about documents and databases:
98
99   •   four basic functions (add, retrieve, change, remove)
100   •   administration of a system
101   •   displays and interfaces
102   •   direct communication between system (data)
103   •   transferring documents between systems (data).
104
105   Here we can note especially following standardisation needs for different parts of different parts of
106   an information system:
107
108   From this simple (figure) conception we can differentiate several standard classes.
109
110   1) Data (documents) standards
111   2) Data (database) standards
112   3) Standards for adding data to a system.
113   4) Standards for retrieving data from a system.
114   5) Standards for changing data in a system.
115   6) Standards for removing data from a system.
116   7) Display standards
117   8) Interface standards
118   9) Different communication standards.
119

120 **Differences between agreements, members and owners**
121
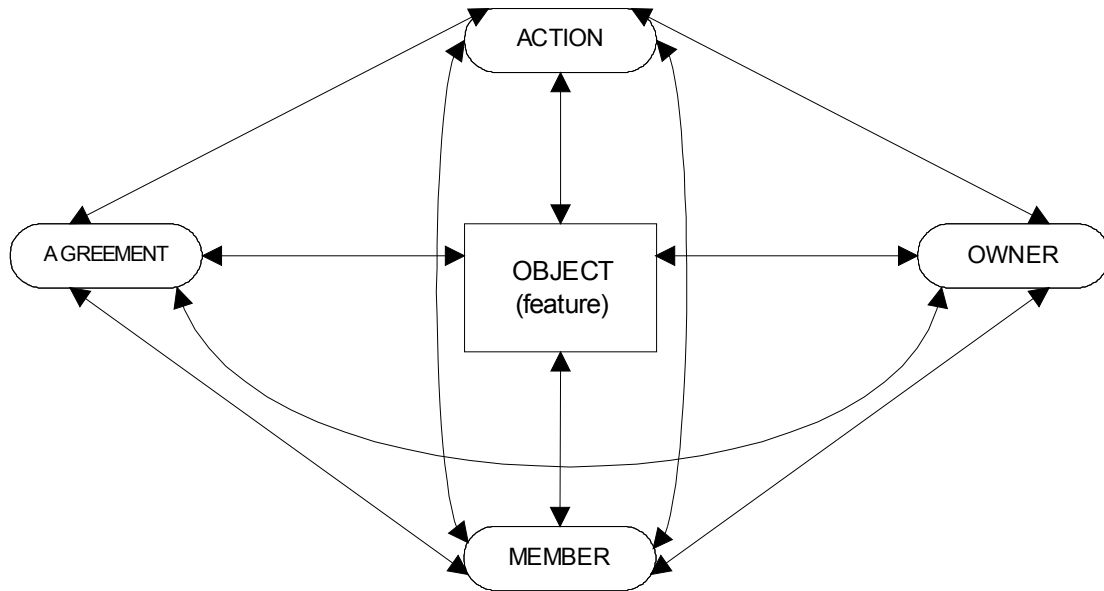
122
123
124   **Note: The relations between different aspects of information systems can result**
125   **rather complicated (legal) network(s): i.e. Ownership, Membership, Agreement.**
126
127 Here we can note the difference between owners, agreements and members. In reality ownerships
128 agreements and memberships cause very complex networks, and those networks are changing all
129 the time: divisions, mergers, ownership changes, agreement changes, cooperation with other
130 entities, life-cycles, etc.
131
132 Here we can note that ownership, agreement and membership are interlinked in different ways.
133 Generally speaking average usage of a system means an unique combination of ownership,
134 agreement and membership. When everything works fine there are not problems. However changes
135 with ownership, agreement and membership can result difficult situations.
136
137
138 [Continues on the next page]
139
140
141
142
143
144
145
146
147
148

	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				

149
150 Naturally, there can be solutions, which are not based on the maximum solution. It can be
151 concluded, that this consultation is not (yet) about technical details.
152
153   **Note: The relations between different aspects of information systems can result**
154   **rather complicated (legal) network(s): i.e. Ownership, Membership, Agreement.**
155
156   **Proposal: There could be some considerations for assessing possible / future changes in**
157   **ownerships, agreements and memberships.**
158
159 **About different standards**
160
161 I have proposed several times to use ***open horizontal standards*** when developing different
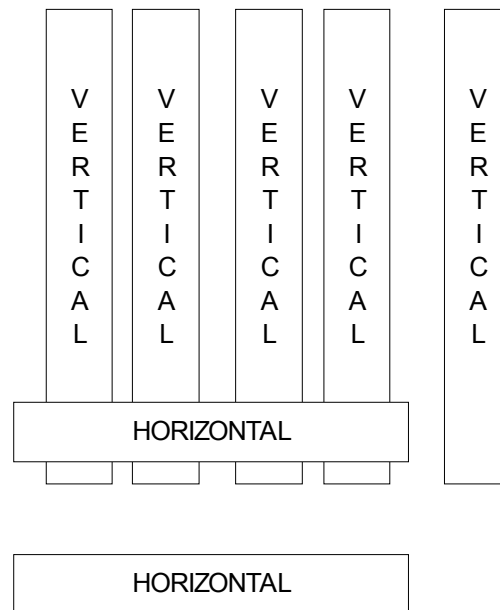162 information system.
163
164 **Favouring open standards / Favouring horizontal standards**
165
166
167 [Continues on the next page]

```
┌───┐ ┌───┐ ┌───┐ ┌───┐   ┌───┐
│ V │ │ V │ │ V │ │ V │   │ V │
│ E │ │ E │ │ E │ │ E │   │ E │
│ R │ │ R │ │ R │ │ R │   │ R │
│ T │ │ T │ │ T │ │ T │   │ T │
│ I │ │ I │ │ I │ │ I │   │ I │
│ C │ │ C │ │ C │ │ C │   │ C │
│ A │ │ A │ │ A │ │ A │   │ A │
│ L │ │ L │ │ L │ │ L │   │ L │
│   │ │   │ │   │ │   │   │   │
├───┴─┴───┴─┴───┴─┴───┤   │   │
│      HORIZONTAL      │   │   │
└┬───┬─┬───┬─┬───┬─┬───┘   └───┘
 └───┘ └───┘ └───┘ └───┘

        ┌─────────────────────┐
        │      HORIZONTAL      │
        └─────────────────────┘
```

168
169
170   There are differences between horizontal and vertical standards. A simple example is naturally
171   email solutions. There are several vertical standards when creating technically email solutions. Then
172   there are horizontal standards which enable sending messages between technically different email
173   solutions.
174
175   **Proposal: There could be assessment of vertical and horizontal standards.**
176
177   **Proposal: Using horizontal standards could be favoured when creating different**
178   **information systems on the European Union level.**
179
180   Horizontal standards enables technological solutions which can work together. Horizontal standards
181   hides different complexities in information systems.
182
183   **Opinion: The number of redundant standardisation efforts should be minimal.**
184
185   **Proposal: There could be separation of horizontal standards and vertical standards.**
186
187   **Proposal: There could be different standardisation efforts to horizontal standards and**
188   **vertical standards.**
189
190   Personally I have advocated using different horizontal standards. For example email standards
191   (horizontal) are implemented with very different technologies (vertical).
192
193   Here we can note some problems:
194
195

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196   •   some systems are based on **de-facto** standards
197   •   some systems are based on **de-jure** standards
198   •   there can be confrontations between **de-facto** and **de-jure** standards
199   •   there can be a monopoly situation in some domain
200   •   some standards may inhibit possible actions of some stakeholders
201   •   there can be a standard war on some domains
202   •   standards have different life-cycles
203   •   systems have different life-cycles
204   •   there can be mismatches between different life-cycles
205   •   there can be failed standards
206   •   there can be deprecated standards.
207
208   It is quite normal situation in the information technology field that there are competing standards
209   for some application field. Therefore there are all the time ongoing "standards wars" or "format
210   wars". The information technology standards tend to be interrelated and one "standards war" or
211   "format war" can lead to another similar situation.
212
213   I have advocated open standards even though in some cases open standards are not de facto
214   standards. In practice public sector has very important role, when some standards are competing in
215   the market place. Because public sector has a considerable power when buying/developing
216   information systems and therefore public sector can sometimes direct markets to certain standards.
217   Therefore there should be serious vigilance when assessing different standards and "standards" in
218   some application fields.
219
220   **A simple presentation of a process**
221

222
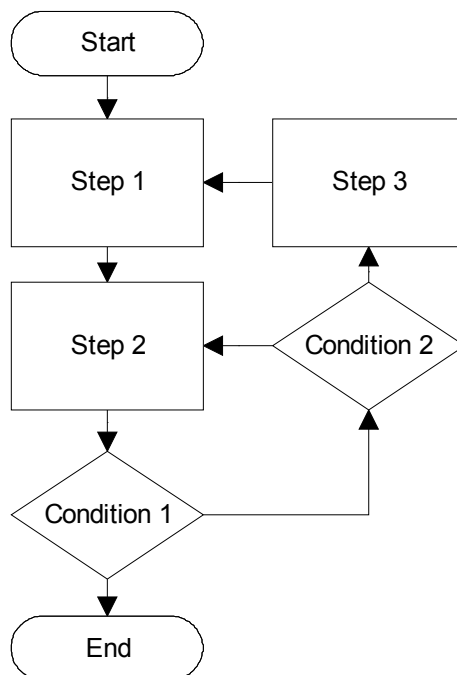
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223
224 Here we can note that there can be different processes.
225
226 **Defining some parts of a process – a lot of details (SPEX)**
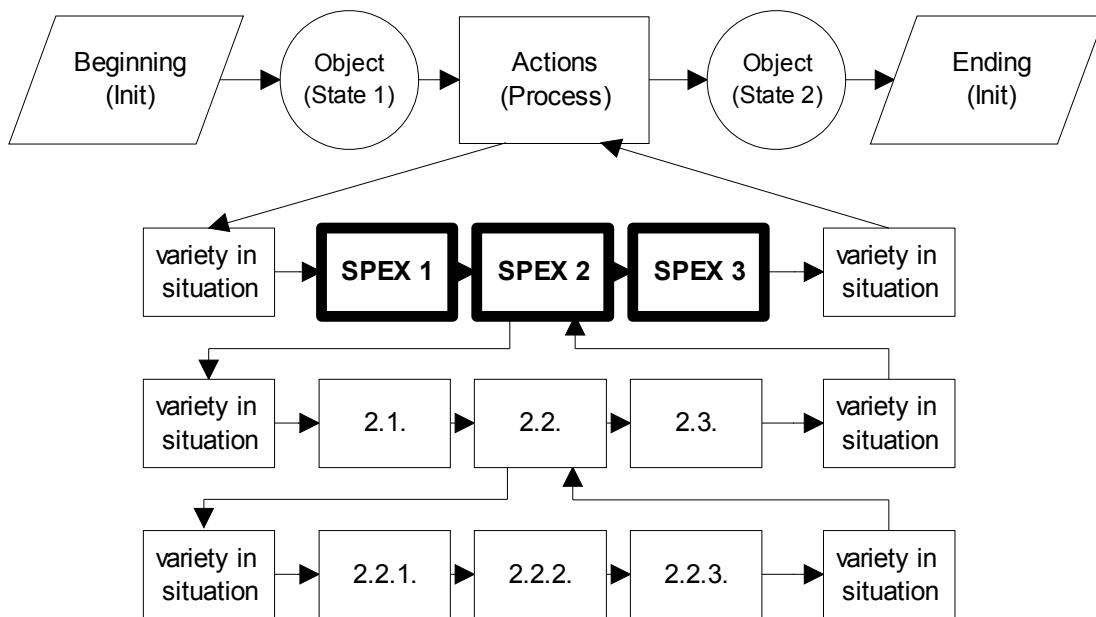227
228 Following figure notes that some parts of a process can be presented in a detailed way (SPEX).
229
230 Here we can there can be some variety in different situation when implementing some processes.
231

232
233
234 processes (Beginning → Actions → Ending), which can be described in different levels of details.
235
236 Based on the previously proposed actions there can be a clear understanding of different processes.
237 It can noted that describing different processes can mean a lot of work for different stakeholders.
238
239 It can be noted here that describing different processes are implement in information systems which
240 are hierarchically structured. So there is always some possible mismatches between actual process
241 models and actual hierarchy of system.
242
243 Here we can note, that in a process some objects change their state in different stages.
244
245   **Proposal: After some serious assessment there could be some serious work for**
246   **standardised (SPEX) interfaces and displays.**
247
248   **Proposal: Some parts of the processes could be standardised for interfaces (SPEX) for**
249   **different stakeholders.**
250

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251   **Proposal: Some standardised customer interfaces (SPEX) could be used for having**
252   **better service processes for different stakeholders.**
253
254 It can be noted, that several systems could implement (SPEX) the same parts of different processes,
255 even though the technology in different systems can be totally different.
256
257 There could be some points in a process model where there is very detailed (**SPEX**) parts. Naturally
258 in these parts (**SPEX**) there could be very detailed information about different concepts.
259
260 Since humans are learning entities there can be different shortcuts in different process models
261 implemented in computerised systems.
262
263 Based on the previously proposed actions there can be a clear understanding of different processes.
264 It can noted that describing different processes can mean a lot of work for different stakeholders.
265
266 It can be noted here that describing different processes are implement in information systems which
267 are hierarchically structured. So there is always some possible mismatches between actual process
268 models and actual hierarchy of system.
269
270 **Different time frames for different information systems**
271
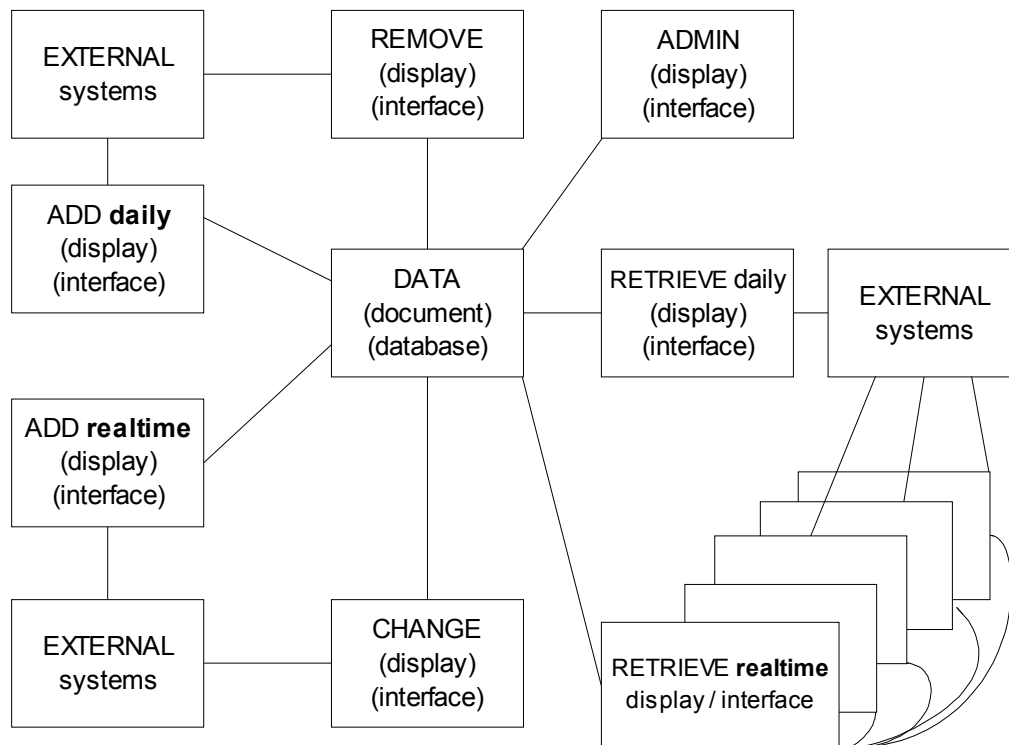
272
273
274 Like the previous figure indicates, there is difference between real-time systems and other systems.
275

276   **Proposal: There can be different real-time systems, and the need for different real-time**
277   **systems could be assessed.**
278
279   **Proposal: There can different systems with other time frames, and the need for systems**
280   **should with different time frames could be assessed**
281
282   In some cases there is a clear need for different replicated information systems.
283
284   It can be noted, that there can be different options for layered systems: real-time or other time
285   periods. Generally speaking, (real-time) retrieval is the most used function, and adding, changing
286   and removing can have different time-periods.
287
About different interfaces
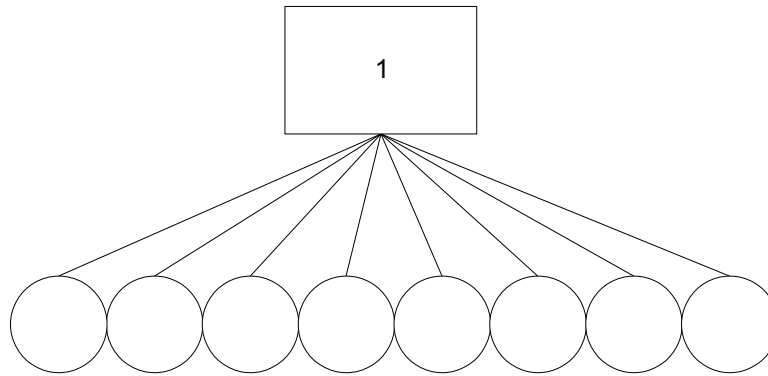
289
290
291   Based on previous issues we can note that there can be several interfaces for different information
292   systems (add, retrieve, change, remove). Different interfaces can real-time interfaces.
293
294   **Proposal: Need for different interfaces could be assessed carefully.**
295
Assessing interoperability
297

298
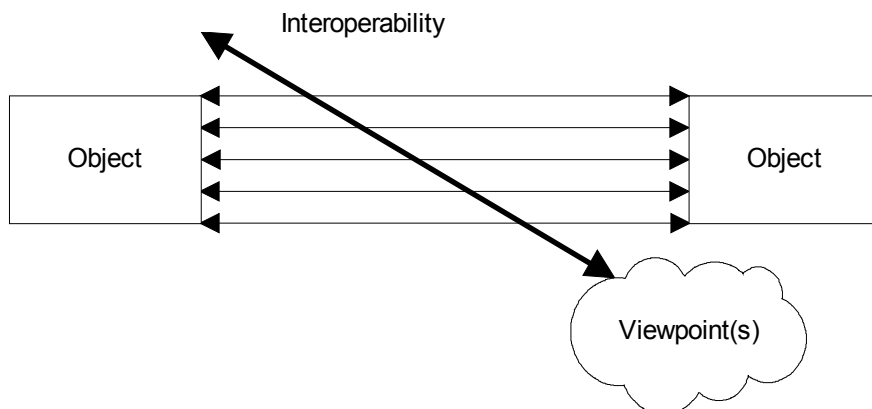
299
300   Need for interoperability between different objects mean more work for developing information
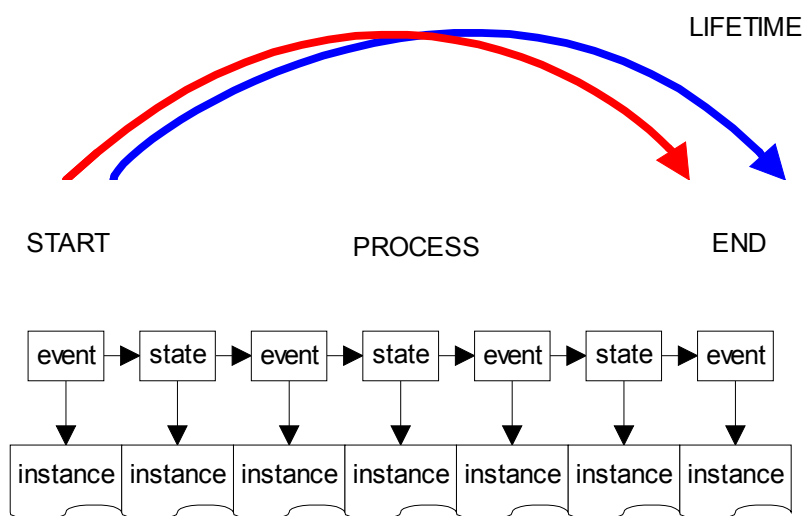301   systems.
302
303   **Proposal: Interoperability can be assessed based on different viewpoints.**
304
305   **Processes, events, states, lifetime, instances, start and end**
306

LIFETIME

START   PROCESS   END

event → state → event → state → event → state → event

instance | instance | instance | instance | instance | instance | instance

307
308
309   Finally some important concepts can noted: processes, events, states, lifetime, instances start and
310   end. It can noted that during the lifetime of an information system there can be significant changes
311   with the selected and implemented standards.
312
313   **Proposal: Based on the results of this consultation European Commission could create**
314   **a roadmap for implementing different open and/or especially horizontal standards.**
315
316   It can noted that there are very cumbersome information systems on the European Union level on
317   different application fields. Therefore European Commission could have a clear roadmap for
318   implementing different standards in the near and distant future. European Commission could
319   formally join to some important (standards developing) organisations based on the results of this
320   consultation.
321
322   **An example for cooperation: Web feeds (RSS and Atom)**
323

324
325
326   I have advocated usage of web feeds on several previous opinion documents. Actually there are two

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327 standards for web feeds: RSS [1] [2] and Atom [3] [4] [5].
328
329   **Proposal: Web feeds could be advocated when developing different informations**
330   **systems.**
331
332   **Proposal: Web feeds (RSS and/or Atom) should be used extensively for providing (real-**
333   **time) information for different stakeholder(s) (communities).**
334
335   **Proposal: There can be different web feeds (RSS and/or Atom) for different**
336   **stakeholder(s) – having just one web feed (RSS and/or Atom) may not be a feasible**
337   **solution.**
338
339   **Proposal: Several web feeds (RSS and/or Atom) can be based on different viewpoints.**
340
341 It can be easier to create web feeds in different information systems since web feeds enable
342 connections without direct system-to-system connections.
343
344 It can be noted, that different back-office systems (with a wide variety of different technologies) can
345 implement RSS standards, and these RSS feeds can be used in the front-office systems. With this
346 kind solutions front-office systems dont need direct system-to-system communications with back-
347 office systems.
348
349
350
351 **Good luck!!!**
352
353 This opinion is quite limited. Hopefully there are other constructive ideas presented in other
354 opinions. This remains to be seen.
355
356
357 [Continues on the next page]

1   http://www.rssboard.org/rss-specification, RSS 2.0 Specification
2   https://en.wikipedia.org/wiki/RSS, Wikipedia / RSS
3   https://en.wikipedia.org/wiki/Atom_(standard), Wikipedia / Atom (standard)
4   https://tools.ietf.org/html/rfc4287, The Atom Syndication Format
5   https://tools.ietf.org/html/rfc5023, The Atom Publishing Protocol

358 **ANNEX 1**
359
360 My opinions to the previous and relevant consultations – there consultations were mostly organised
361 by the European Commission. General page to all consultations – both in English and in Finnish:
362 http://www.jukkarannila.fi/lausunnot.html
363
364
365 My opinions to the previous and relevant consultations – there consultations were mostly organised
366 by the European Commission.
367
368 EN: Opinion 1: Review of the rules on access to documents
369 http://www.jukkarannila.fi/lausunnot.html#nro_1
370
371 EN: Opinion 2: Schools for the 21st Century
372 http://www.jukkarannila.fi/lausunnot.html#nro_2
373
374 EN: Opinion 3: The future of pharmaceuticals for Human use in Europe- making Europe a Hub for
375 Safe and Innovative medicines
376 http://www.jukkarannila.fi/lausunnot.html#nro_3
377
378 EN: Opinion 5: Consumer Scoreboard, Questionnaire for stakeholders
379 http://www.jukkarannila.fi/lausunnot.html#nro_5
380
381 EN: Opinion 6: Consultation on a Code of Conduct for Interest Representatives
382 http://www.jukkarannila.fi/lausunnot.html#nro_6
383
384 EN: Opinion 8: European Interoperability Framework, version 2, draft
385 http://www.jukkarannila.fi/lausunnot.html#nro_8
386
387 EN: Opinion 9: CAMSS: Common Assessment Method for Standards and Specifications, CAMSS
388 proposal for comments
389 http://www.jukkarannila.fi/lausunnot.html#nro_9
390
391 EN: Opinion 15: Collective Redress
392 http://www.jukkarannila.fi/lausunnot.html#nro_15
393
394 EN: Opinion 17: Opinion to Antitrust Case No. COMP/C-3/39.530
395 http://www.jukkarannila.fi/lausunnot.html#nro_17
396
397 EN: Opinion 18: Opinion Related to the Public Undertaking by Microsoft
398 http://www.jukkarannila.fi/lausunnot.html#nro_18
399
400 EN: Opinion 19: Official Acknowledgement by the Commission
401 http://www.jukkarannila.fi/lausunnot.html#nro_19
402

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403   EN: Opinion 20: SECOND Opinion Related to the Public Undertaking by Microsoft
404   http://www.jukkarannila.fi/lausunnot.html#nro_20
405
406   EN: Opinion 21: Opinion about the European Interoperability Strategy proposal
407   http://www.jukkarannila.fi/lausunnot.html#nro_21
408
409   EN: Opinion 23: Public consultation on the review of the European Standardisation System
410   http://www.jukkarannila.fi/lausunnot.html#nro_23
411
412   EN: Opinion 27: Public Consultation on the Modernisation of EU Public Procurement Policy
413   http://www.jukkarannila.fi/lausunnot.html#nro_27
414
415   EN: Opinion 28: Consultation on the Europe 2020 Project Bond Initiative
416   http://www.jukkarannila.fi/lausunnot.html#nro_28
417
418   EN: Opinion 30: Internet Filtering
419   http://www.jukkarannila.fi/lausunnot.html#nro_30
420   NOTE: Organised by the European Committee for Standardization (CEN) [6]
421
422   EN: Opinion 32: COMP/C-3/39.692/IBM – Maintenance services
423   http://www.jukkarannila.fi/lausunnot.html#nro_32
424
425   EN: Opinion 34: REMIT Registration Format
426   http://www.jukkarannila.fi/lausunnot.html#nro_34
427   NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER) [7]
428
429   EN: Opinion 35: Exploiting the employment potential of the personal and household services
430   http://www.jukkarannila.fi/lausunnot.html#nro_35
431
432   EN: Opinion 37: CASE COMP/39.654 - Reuters instrument codes
433   http://www.jukkarannila.fi/lausunnot.html#nro_37
434
435   EN: Opinion 39: Registry options to facilitate linking of emissions trading systems
436   http://www.jukkarannila.fi/lausunnot.html#nro_39
437
438   EN: Opinion 40: Media Freedom and Pluralism / audiovisual regulatory bodies
439   http://www.jukkarannila.fi/lausunnot.html#nro_40
440
441   EN: Opinion 41: AT.39398: observations on the proposed commitments
442   http://www.jukkarannila.fi/lausunnot.html#nro_41
443
444   EN: Opinion 42: Opening up Education
445   http://www.jukkarannila.fi/lausunnot.html#nro_42

6   http://www.cen.eu/ (Accessed 2 July 2012)
7   http://www.acer.europa.eu/ (Accessed 2 July 2012)

446
447 EN: Opinion 43: Publication of extracts of the European register of market participants
448 http://www.jukkarannila.fi/lausunnot.html#nro_43
449 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
450
451 EN: Opinion 44: Evaluation policy guidelines
452 http://www.jukkarannila.fi/lausunnot.html#nro_44
453
454 EN: Opinion 45: About ICT standardisation
455 http://www.jukkarannila.fi/lausunnot.html#nro_45
456
457 EN: Opinion 46: Review of the EU copyright rules
458 http://www.jukkarannila.fi/lausunnot.html#nro_46
459
460 EN: Opinion 51: European Area of Skills and Qualifications
461 http://www.jukkarannila.fi/lausunnot.html#nro_51
462
463 EN: Opinion 52: Trusted Cloud Europe Survey
464 http://www.jukkarannila.fi/lausunnot.html#nro_52
465
466 EN: Opinion 53: Trade Reporting User Manual (TRUM) (Draft)
467 http://www.jukkarannila.fi/lausunnot.html#nro_53
468 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
469
470 EN: Opinion 55: European Energy Regulation
471 http://www.jukkarannila.fi/lausunnot.html#nro_55
472 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
473
474 EN: Opinion 59: Green paper on mobile Health
475 http://www.jukkarannila.fi/lausunnot.html#nro_59
476
477 EN: Opinion 60: Cross-border inheritance tax problems within the EU
478 http://www.jukkarannila.fi/lausunnot.html#nro_60
479
480 EN: Opinion 61: European Register of Products Containing Nanomaterials
481 http://www.jukkarannila.fi/lausunnot.html#nro_61
482
483 EN: Opinion 64: Corporate Social Responsibility - European Commission
484 http://www.jukkarannila.fi/lausunnot.html#nro_64
485
486 EN: Opinion 66: Net Innovation for the Work Programme 2016-2017
487 http://www.jukkarannila.fi/lausunnot.html#nro_66
488
489
490

491   EN: Opinion 68: European Network Code Stakeholder Committees
492   http://www.jukkarannila.fi/lausunnot.html#nro_68
493   NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
494
495   EN: Opinion 71: Common Schema for the Disclosure of Inside Information
496   http://www.jukkarannila.fi/lausunnot.html#nro_71
497   NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
498
499   EN: Opinion 74: Enabling the Internet of Things
500   http://www.jukkarannila.fi/lausunnot.html#nro_74
501   NOTE: Organised by Body of European Regulators for Electronic Communications (BEREC) [8]
502
503   EN: Opinion 80: Mandatory Transparency Register
504   http://www.jukkarannila.fi/lausunnot.html#nro_80
505
506   EN: Opinion 84: Revision of the European Interoperability Framework
507   http://www.jukkarannila.fi/lausunnot.html#nro_84
508
509   EN: Opinion 86: 2016 Annual Colloquium on fundamental rights
510   http://www.jukkarannila.fi/lausunnot.html#nro_86
511
512   EN: Opinion 88: Evaluation and Review of the ePrivacy Directive
513   http://www.jukkarannila.fi/lausunnot.html#nro_88
514
515   EN: Opinion 89: BEREC Guidelines for net neutrality rules
516   http://www.jukkarannila.fi/lausunnot.html#nro_89
517   NOTE: Organised by Body of European Regulators for Electronic Communications (BEREC)
518
519   EN: Opinion 93: Safety of apps and other non-embedded software
520   http://www.jukkarannila.fi/lausunnot.html#nro_93
521
522   EN: Opinion 95: Targeted consultation on eForms
523   http://www.jukkarannila.fi/lausunnot.html#nro_95
524
525   EN: Opinion 97: COM(2016) 882 final - 2016/0408 (COD)
526   http://www.jukkarannila.fi/lausunnot.html#nro_97
527
528   EN: Opinion 98: Opinions related to six (6) co-decision (COD) proposals
529   http://www.jukkarannila.fi/lausunnot.html#nro_98
530
531   EN: Opinion 99: COM(2016)0863 - European Union Agency for the Cooperation of Energy
532   Regulators. Recast
533   http://www.jukkarannila.fi/lausunnot.html#nro_99
534

8   http://www.berec.europa.eu, Body of European Regulators for Electronic Communications (BEREC)

535
536   EN: Opinion 100: Protection of personal data (EU)
537   http://www.jukkarannila.fi/lausunnot.html#nro_100
538
539   EN: Opinion 101: Governance of the Energy Union
540   http://www.jukkarannila.fi/lausunnot.html#nro_101
541
542   EN: Opinion 102: Smart Wearables
543   http://www.jukkarannila.fi/lausunnot.html#nro_102
544
545   EN: Opinion 106: Review of the European Union Agency for Network and Information Security
546   (ENISA)
547   http://www.jukkarannila.fi/lausunnot.html#nro_106
548
549   EN: Opinion 108: Single Digital Gateway
550   http://www.jukkarannila.fi/lausunnot.html#nro_108
551
552
553   My opinions to the previous and relevant consultations – there consultations were mostly organised
554   by the European Commission. General page to all consultations – both in English and in Finnish:
555   http://www.jukkarannila.fi/lausunnot.html
556
557
558   [Continues on the next page]

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560   **ANNEX 2**
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562
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