

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38

TO:
smartdatareview@beis.gov.uk
Consumer and Competition Policy Directorate
Department for Business, Energy and Industrial Strategy

First of all, a lot of thanks to Consumer and Competition Policy Directorate (Department for Business, Energy and Industrial Strategy) for organising this important 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.
PDF file of this opinion can be added to a relevant web page.

Annex 1 holds information about disclaimers and copyright.

Best Regards,

Jukka S. Rannila
citizen of Finland
signed electronically

[Continues on the next page]

39

40 General page for my opinions

41

42 General web page for my opinions is following:

43 <http://www.jukkarannila.fi/lausunnot.html>

44

45 Consultation document is very extensive / Only some issues handled

46

47 The consultation document for this consultation is very extensive (Smart Data: Putting consumers
48 in control of their data and enabling innovation). I handle only some issues mentioned on the
49 consultation document.

50

51 About European Union / United Kingdom / Exit / European Union

52

53 We know at the moment that United Kingdom is leaving the European Union in the future. This
54 opinion handles partially European Union issues and also issues at the national level. Therefore
55 readers of this opinion can assess national (outside the European Union) issues.

56

57 Previous opinion: online harms white paper

58

59 I gave my opinion about online harms white paper on 28 June 2019. For this opinion I reiterate two
60 issues: identifiers (ID) and open horizontal standards.

61

62 More and more identifiers (ID)

63

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

68

69 * global identifiers (ID)

70 * EU-wide identifiers (ID)

71 * general member state identifiers (ID)

72 * several identifiers (ID) in member states.

73

74 Proposal: There could be a systematic review of different identifiers (ID).

75

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

78

79 Examples of these identifiers are following:

80

81 1) Facebook ID for an individual person

82 2) Facebook ID for the individual up-dates of individuals

83 3) Data Universal Numbering System (D-U-N-S)

- 84 4) Reuters instruments codes (RICs)
- 85 5) Social security code for individual citizens in the European Union member states
- 86 6) Business identity code for a company in an European Union member state
- 87 7) Value added tax code for a company in an European Union member state.

88
 89 The examples of private IDs (Facebook IDs, Data Universal Numbering System (D-U-N-S),
 90 Reuters Instrumens Codes (RICs)) show, that persons and/or communities can use or even demand
 91 of using IDs from privately owned information systems.

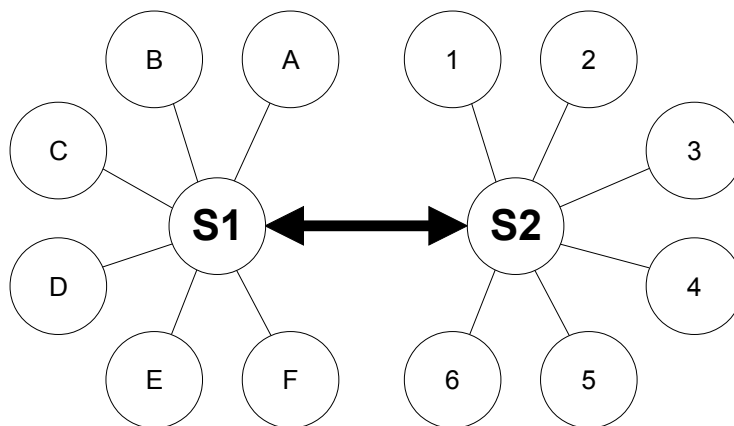
92
 93 **More new identifiers (ID)?**

94
 95 The current reality is, that there will be more and more IDs, since digitalisation of different areas
 96 will result new IDs and/or combination of new and old IDs.

97
 98 The creation YET another public ID is not always organised by the European Union, and in some
 99 cases the European Union (and member states) just have to accept the reality of some of those
 100 public IDs – in some cases even private IDs are the norm. The Reuters Instrumens Codes (RICs) is
 101 an example of a near monopoly situation, and some of current private IDs might constitute (near)
 102 monopoly situations. Naturally, (near) monopolies can be assessed by the Competition Directorate-
 103 General, and it will be interesting to see possible new cases related to private IDs.

104

1-2



105
 106
 107
 108
 109
 110
 111
 112
 113
 114

Note: Digitalisation of everything means more identifiers (ID).

Note: All new identifiers (ID) mean more work for developing existing and new informations systems.

Note: There can be new stakeholder groups in the near/distant future which mean more identifiers (ID).

115 **Proposal: There could be some assessment(s) based on different versions of different**
116 **identifiers (ID).**

117
118 **About different standards**

119
120 I have proposed several times usage of *open horizontal standards* when developing different
121 information systems.

122
123 **Open horizontal standards**

124
125 There are differences between horizontal and vertical standards. A simple example is naturally
126 email solutions. There are several vertical standards when creating technically email solutions. Then
127 there are horizontal standards which enable sending messages between technically different email
128 solutions. Horizontal standards enables technological solutions which can work together. Horizontal
129 standards hides different complexities in information systems.

130
131 **Proposal: There could be assessment of vertical and horizontal standards.**

132
133 **Proposal: Using horizontal standards could be favoured when creating different**
134 **information systems.**

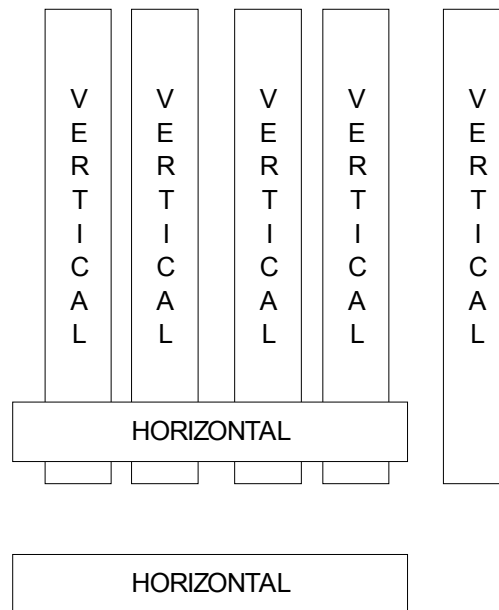
135
136 **Opinion: The number of redundant standardisation efforts should be minimal.**

137
138 **Proposal: There could be separation of horizontal standards and vertical standards.**

139
140 **Proposal: There could be different standardisation efforts to horizontal standards and**
141 **vertical standards.**

142
143 Personally I have advocated using different horizontal standards. For example email standards
144 (horizontal) are implemented with very different technologies (vertical).

145
146
147 [Continues on the next page]



148
149

150 **Proposal: Governments should especially concentrate on horizontal standards.**

151

152 **Proposal: Some government agencies could apply for memberships of different**
153 **standard setting organisations which develop especially horizontal standards.**

154

155 Here we can note some problems:

156

- 157 • some systems are based on **de-facto** standards
- 158 • some systems are based on **de-jure** standards
- 159 • there can be confrontations between **de-facto** and **de-jure** standards
- 160 • there can be a monopoly situation in some domain
- 161 • some standards may inhibit possible actions of some stakeholders
- 162 • there can be a standard war on some domains
- 163 • standards have different life-cycles
- 164 • systems have different life-cycles
- 165 • there can be mismatches between different life-cycles
- 166 • there can be failed standards
- 167 • there can be deprecated standards.

168

169 It is quite normal situation in the information technology field that there are competing standards
170 for some application field. Therefore there are all the time ongoing “standards wars” or “format
171 wars”. The information technology standards tend to be interrelated and one “standards war” or
172 “format war” can lead to another similar situation.

173

174 I have advocated open standards even though in some cases open standards are not de facto
175 standards. In practice public sector has very important role, when some standards are competing in

176 the market place. Because public sector has a considerable power when buying/developing
177 information systems and therefore public sector can sometimes direct markets to certain standards.
178 Therefore there should be serious vigilance when assessing different standards and “standards” in
179 some application fields.

180

181 **An example for cooperation: Web feeds (RSS and Atom)**

182



183

184

185 I have advocated usage of web feeds ¹ on several previous opinion documents. Actually there are
186 two standards for web feeds: RSS ^{2 3} and Atom ^{4 5 6}.

187

188 **Proposal: Web feeds (RSS and/or Atom) could be advocated when developing different**
189 **informations systems (EU / Member states).**

190

191 **Proposal: Web feeds (RSS and/or Atom) should be used extensively for providing (real-**
192 **time) information for different stakeholder(s) (communities).**

193

194 **Proposal: There can be different web feeds (RSS and/or Atom) for different**
195 **stakeholder(s) – having just one web feed (RSS and/or Atom) may not be a feasible**
196 **solution.**

197

198 **Proposal: Several web feeds (RSS and/or Atom) can be based on different viewpoints.**

199

200 It can be easier to create web feeds in different information systems since web feeds enable
201 connections without direct system-to-system connections.

202

203 It can be noted, that different back-office systems (with a wide variety of different technologies) can
204 implement RSS standards, and these RSS feeds can be used in the front-office systems. With this
205 kind solutions front-office systems don't need direct system-to-system communications with back-
206 office systems.

207

208 **Some specific issues?**

209

210 Question 6 is following:

211 **Do you agree that we should establish a cross-sector Smart Data Function with the**
212 **proposed responsibilities set out above?**

1 https://en.wikipedia.org/wiki/Web_feed

2 <http://www.rssboard.org/rss-specification>, RSS 2.0 Specification

3 <https://en.wikipedia.org/wiki/RSS>, Wikipedia / RSS

4 [https://en.wikipedia.org/wiki/Atom_\(standard\)](https://en.wikipedia.org/wiki/Atom_(standard)), Wikipedia / Atom (standard)

5 <https://tools.ietf.org/html/rfc4287>, The Atom Syndication Format

6 <https://tools.ietf.org/html/rfc5023>, The Atom Publishing Protocol

213

214 **Some ideas for Smart Data Function?**

215

216 Based on previous consultations there can different solutions for cooperation between systems: (0)
217 no connections, (1) complex many-to-many connections, (2) only one central system, (3) hierarchy
218 between different systems.

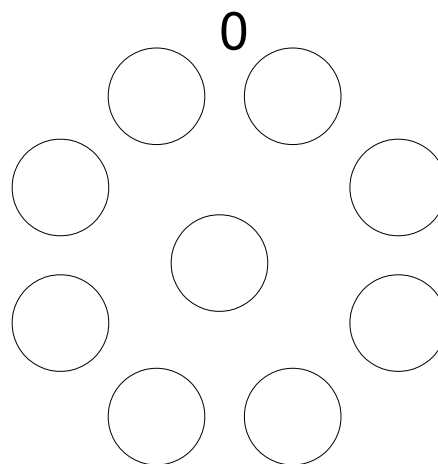
219

220 there can be several ways for cooperation between systems.

221

222 First option means no connections between systems. The current reality (0) is that there can several
223 systems which are not connected to other systems

224



225

226

227

228 **Proposal :There could be assessment about of different unconnected systems.**

229

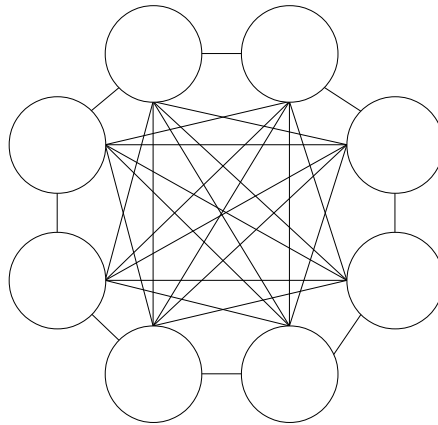
230 Next possibility is complex many-to-many connections. Complex many-to-many connections
231 causes different problems when there are changes in one system and this mean changes to other
232 systems.

233

234

235 [Continues on the next page]

1



236
237

238 Problem with this option is management of several connections. Different changes in one system
239 may mean several changes on other systems.

240

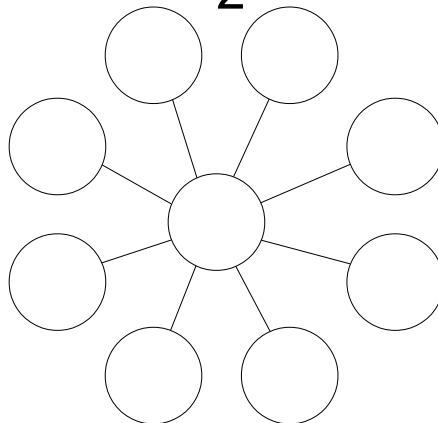
241 **Proposal :There could be assessment of different connected systems.**

242

243 Next option is just one central system which can connected with several (sub)systems. Problem
244 with this solution is unwanted outages in one central system when all other (sub)systems have
245 problems. Failure of the central system and this can lead to unwanted outage of several
246 (sub)systems.

247

2



248
249

250 I have advocated hierarchy between systems. There could be one central system which is connected
251 to some (sub)systems, which can be then connected to other subsystems. This means that unwanted
252 outages don't affect all possible system at the same time.

253

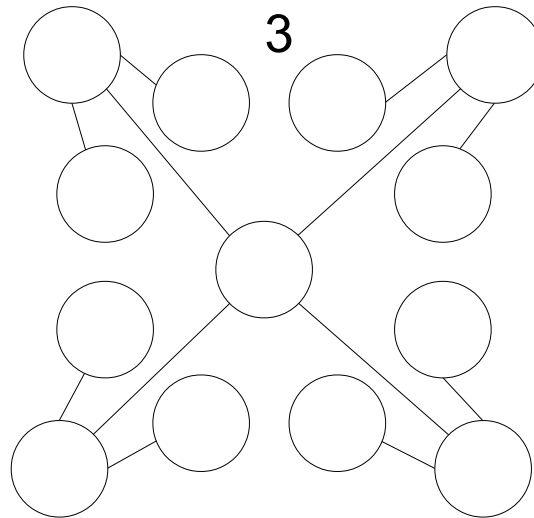
254

255 **Proposal :There could be assessment about of different central systems.**

256

257 Next option is to have some hierarchy between different systems when there is one central system
258 and different subsystems.

259



260

261

262 One option (3) is to have a hierarchy between different system. In this way there cab some systems
263 which are not connected to the central system. With this approach not all (sub)systems face the
264 same problem with a failure in the central system.

265

266 **Proposal :There could be assessment of different hierarchical systems.**

267

268 **Proposal: Organising Smart Data Function could mean hierarchy between different**
269 **system, since with hierarchical solutions there will be less problems when compared to**
270 **other solutions: (0) no connections, (1) complex many-to-many connections, (2) only**
271 **one central system.**

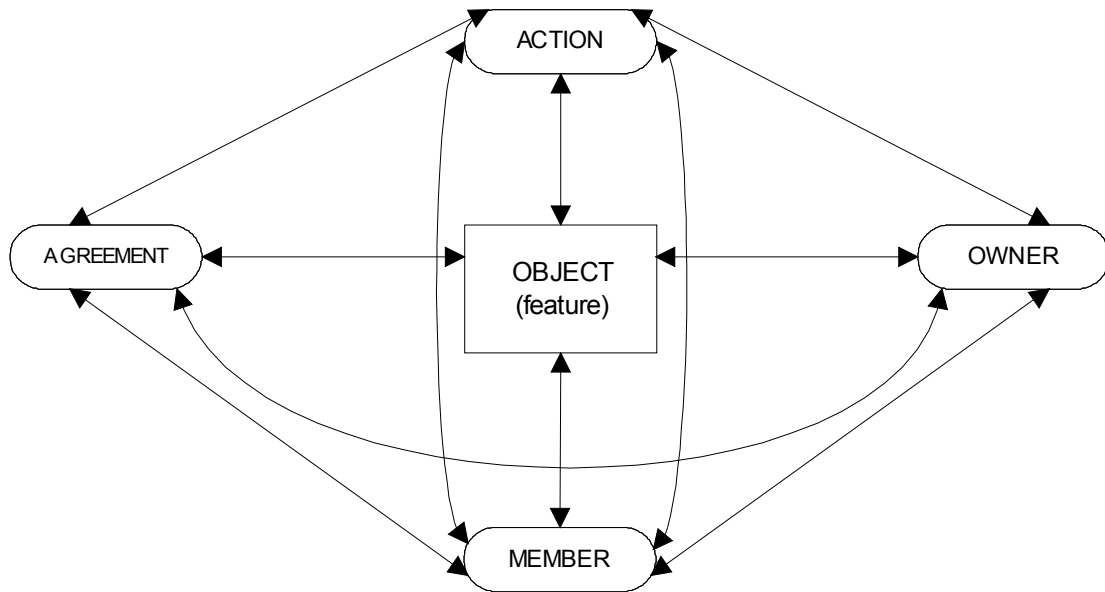
272

273 **There can be some examples:**

274

- 275 a) **There could be some regulations for providing interfaces (private, public)**
- 276 b) **There could be some regulations for document formats (private, public)**
- 277 c) **There could be some regulations for transmitting data between different systems**
- 278 d) **There could be some regulations for using databases (private, public)**
- 279 e) **There could be some regulations for using programs (private, public)**
- 280 f) **There could be some regulations for retrieving information from different systems.**

281



Note: The relations between different aspects of information systems can result rather complicated (legal) network(s): i.e. Ownership, Membership, Agreement.

282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310

Here we can note the difference between owners, agreements and members. In reality ownerships agreements and memberships cause very complex networks, and those networks are changing all the time: divisions, mergers, ownership changes, agreement changes, cooperation with other entities, life-cycles, etc.

Here we can note that ownership, agreement and membership are interlinked in different ways. Generally speaking average usage of a system means an unique combination of ownership, agreement and membership. When everything works fine there are not problems. However changes with ownership, agreement and membership can result difficult situations.

[Continues on the next page]

311

| | 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 | | | | |

312

313

Note: The relations between different aspects of information systems can result rather complicated (legal) network(s): i.e. Ownership, Membership, Agreement.

314

315

316

Proposal: There could be some considerations for assessing possible / future changes in ownerships, agreements and memberships.

317

318

319

320

Good luck!!!

321

322

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

323

324

325

326

327

[Continues on the next page]

328

329

330

ANNEX 1

331 DISCLAIMERS

332

333 Legal disclaimer:

334 All opinions in this opinion paper are personal opinions and they do not represent opinions of any legal entity I am

335 member either by law or voluntarily. This opinion paper is only intended to trigger thinking and it is not legal advice.

336 This opinion paper does not apply to any past, current or future legal entity. This opinion paper will not cover any of the

337 future changes in this fast-developing area. Any actions made based on this opinion is solely responsibility of respective

338 actor making those actions.

339

340 Political disclaimer:

341 These opinions do not represent opinions of any political party. These opinions are not advices to certain policy and

342 they are only intended to trigger thinking. Any law proposal based on these opinions are sole responsibility of that legal

343 entity making law proposals.

344

345 These opinions are not meant to be extreme-right, moderate-right, extreme-centre, moderate-centre, extreme-left or

346 moderate-left. They are only opinions of an individual whose overall thinking might or might not contain elements of

347 different sources. These opinions do not reflect past, current or future political situation in the Finnish, European or

348 worldwide politics.

349

350 These opinions are not meant to rally for a candidacy in any public election at any level.

351

352 Content of web pages:

353 This text may or may not refer to web pages. The content of those web pages is not responsibility of author of this

354 document. They are referenced on the date of this document. If referenced web pages are not found after the date when

355 this document is dated, that situation is not responsibility of the author. All changes done in the web pages this

356 document refers are sole responsibility of those organisations and individuals maintaining those web pages. All illegal

357 content found on the referred web pages is not on the responsibility of the author of this document, and producing that

358 kind content is not endorsed by the author of this document.

359

360 Use of broken English

361 This text is in English, but from a person, whose is not a native English-speaking person. Therefore the text may or may

362 not contain bad, odd and broken English, and can contain awkward linguistic solutions.

363

364 COPYRIGHT

365

366 This opinion paper is distributed under Creative Commons licence, to be specific the licence is "Attribution-

367 NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0)". The text of the licence can be obtained from

368 the following web page:

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

370 The English explanation is on the following web page:

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

372

373

374

