

1

2 TO: energyefficiency@gov.ab.ca

3 Energy Efficiency Advisory Panel

4 Government of Alberta

5

6

7 **Energy efficiency programs / Alberta / Discussion document (June 2016) / Energy Efficiency**
8 **Advisory Panel**

9

10

11 First of all, a lot of thanks to Energy Efficiency Advisory Panel (Alberta) for organising this
12 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 related to information systems.

26 Annex 2 holds information about disclaimers and copyright.

27

28

29

30 Best Regards,

31

32

33

34 Jukka S. Rannila

35 citizen of Finland

36

37 signed electronically

38

39

40 [Continues on the next page]

41

42

43 Previous Canadian consultation

44

45 Here I can remind readers about previous Canadian consultation:

46

47 EN: Opinion 91: Draft New Plan on Open Government 2016-2018

48 http://www.jukkarannila.fi/lausunnot.html#nro_91

49

50 Possibly Government of Alberta could check that important consultation.

51

52 European context? / Agency for the Cooperation of Energy Regulators (ACER)

53

54 Annex 1 contain information about consultations which are organised by Agency for the
55 Cooperation of Energy Regulators (ACER). There are similar challenges with energy issues in
56 European Union when comparing to Alberta. Possibly my opinions addressed to ACER could be
57 assessed.

58

59 This opinion is rather limited / Mostly about information systems.

60

61 I will not answer to all questions since this opinion is mostly about information systems.

62

63 Previous consultations (about information systems) / Annex 1

64

65 Annex 1 holds a list of previous consultations organised related to information systems.

66

67 Based on previous opinions I have explained several issues in detailed way. It can be noted that
68 some issues are repeated since many consultations concentrated on information technology.

69

70 This opinion does not repeat all previous issues (mainly information technology) mentioned on the
71 previous opinion documents.

72

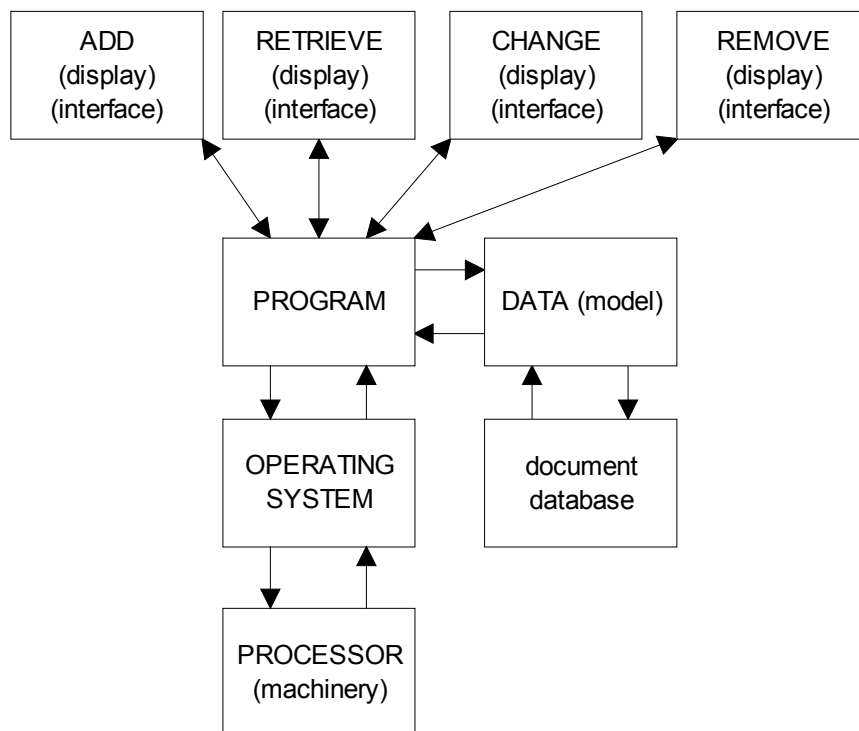
73 One conception of information technology / membership, ownership and agreements

74

75

76 [Continues on the next page]

77



78
79

80 Generally speaking we have different techniques on the information technology field. Here we can
81 note that programs (most arrows) are in the middle of different information systems. Then programs
82 handle the data in a system (documents and/or databases). However we have to have one specific
83 program which is different – i.e. operating system. Operating systems handle connections with
84 machinery and processors. Generally speaking programs can work with an operating system and
85 developers of programs use different parts of an operating system.

86

87 **What this means to energy efficiency and community energy in Alberta?**

- 88 1) **There can be several computer programs for energy systems.**
- 89 2) **There are several providers of different computer programs.**
- 90 3) **There are naturally competing programs.**
- 91 4) **Different programs comply with different standards.**

92

93 We have to note that data can have different models and data (models) are developed and/or used by
94 different stakeholders (four basic functions). Especially in databases there are possibilities for
95 several data models; depending on the modellers there can be different data models in databases.
96 Generally speaking changing data models can be very difficult in many cases.

97

98 **What this means to energy efficiency and community energy in Alberta?**

- 99 1) **Different data models could be assessed.**
- 100 2) **Possibilities for consolidated data models could be assessed.**

101

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

- 103
104 * public sector institute owns the machinery and processor of the information system
105 * the machinery and processor are based on relevant open standards
106 * the operating system is based on an open-source solution
107 * public sector institute owns the source code of the information system
108 * public sector institute owns the database of the information system
109 * the database is based on open-source solution and on relevant open standards
110 * public sector institute owns all data in the information system.

111
112 Naturally, there can be solutions, which are not based on the maximum solution.

113
114 Next table gives us some possibilities for assessing possibilities for open solutions and closed
115 solutions.

116
117 **Note: The relations between different aspects of information systems can result rather
118 complicated (legal) network(s): i.e. Ownership, Membership, Agreement.**

119
120 **Proposal: There could be some considerations for assessing possible / future changes in
121 ownerships, agreements and memberships.**

122
123 Here we can note the difference between owners, agreements and members. In reality ownerships
124 agreements and memberships cause very complex networks, and those networks are changing all
125 the time: divisions, mergers, ownership changes, agreement changes, cooperation with other
126 entities, life-cycles, etc.

127
128 **What this means to energy efficiency and community energy in Alberta?**

- 129 **1) There could be a catalogue of different energy information systems.**
130 **2) There could be clear information of membership, ownership and agreements of
131 different energy information systems.**
132 **3) There could be some (new?) regulations for keeping the catalogue of different
133 energy information systems up-to-date.**

134
135 Here we can note that ownership, agreement and membership are interlinked in different ways.
136 Generally speaking average usage of a system means an unique combination of ownership,
137 agreement and membership. When everything works fine there are not problems. However changes
138 with ownership, agreement and membership can result difficult situations.

139
140 [Continues on the next page]

141
142
143
144
145
146
147

	Owner? Member? Agreement?	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			

148

149

What this means to energy efficiency and community energy in Alberta?

150

1) Assessing mentioned issues (previous table) mean a lot of work for different stakeholders.

151

152

2) Complex networks of membership, ownership and agreements can change during life-cycles of different information systems.

153

154

3) Assessing complex networks of membership, ownership and agreements could be done regularly.

155

156

157 **Standards / “standards wars” or “format wars” / Standardisation organisations**

158

159

Discussion document (Page 8):

160

Question: What are the most significant barriers to adopting energy efficient and community energy system technologies that are common to all sectors?

161

162

Answer: One serious problem is number of different standards.

163

164

Answer: This chapter is about different standards.

165

166

There are different standards setting organisations on the information technology field. One list ¹ of these standards setting organisations is provided by ConsortiumInfo.org.

167

168

169

¹ Standard Setting Organizations and Standards List, www.consortiuminfo.org/links/linksall.php

170 **What this means to energy efficiency and community energy in Alberta?**

- 171 1) **There are several standardisation issues with energy systems.**
172 2) **There is a need for several standards on different levels.**
173 3) **There are several standardisation organisations.**
174 4) **Assessing and selection of standards mean more work.**
175

176 One warning can be said about standards setting organisations. All standards setting organisations
177 are not successes based on several factors and there can be many irrelevant standards setting
178 organisations. Market situation on different vehicle markets varies a lot based on different factors.

179
180 Here we can note some problems:

- 181
182 • some systems are based on **de-facto** standards
183 • some systems are based on **de-jure** standards
184 • there can be confrontations between **de-facto** and **de-jure** standards
185 • there can be a monopoly situation in some domain
186 • some standards may inhibit possible actions of some stakeholders
187 • there can be a standard war on some domains
188 • standards have different life-cycles
189 • systems have different life-cycles
190 • there can be mismatches between different life-cycles
191 • there can be failed standards
192 • there can be deprecated standards.

193
194 It is quite normal situation in the information technology field that there are competing standards
195 for some application field. Therefore there are all the time ongoing “standards wars” or “format
196 wars”. The information technology standards tend to be interrelated and one “standards war” or
197 “format war” can lead to another similar situation.

198
199 **What this means to energy efficiency and community energy in Alberta?**

- 200 1) **Different standards should be assessed carefully.**
201 2) **There could be a catalogue of different standards of energy systems.**
202 3) **There could be some (new?) regulations for keeping the catalogue of different
203 standards up-to-date.**
204

205 I have advocated open standards even though in some cases open standards are not de facto
206 standards. In practice public sector has very important role, when some standards are competing in
207 the market place. Because public sector has a considerable power when buying/developing
208 information systems and therefore public sector can sometimes direct markets to certain standards.
209 Therefore there should be serious vigilance when assessing different standards and “standards” in
210 some application fields.

211
212 **Proposal: Current standardisation (e.g. list provided by ConsortiumInfo.org) efforts by
213 different organisations could be assessed carefully.**

214

215 There are differences between horizontal and vertical standards. A simple example is naturally
216 email solutions. There are several vertical standards when creating technically email solutions. Then
217 there are horizontal standards which enable sending messages between technically different email
218 solutions.

219

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

221

222 **Proposal: Using horizontal standards could be favoured when creating different**
223 **information systems.**

224

225 Horizontal standards enables technological solutions which can work together. Horizontal standards
226 hides different complexities in information systems.

227

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

229

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

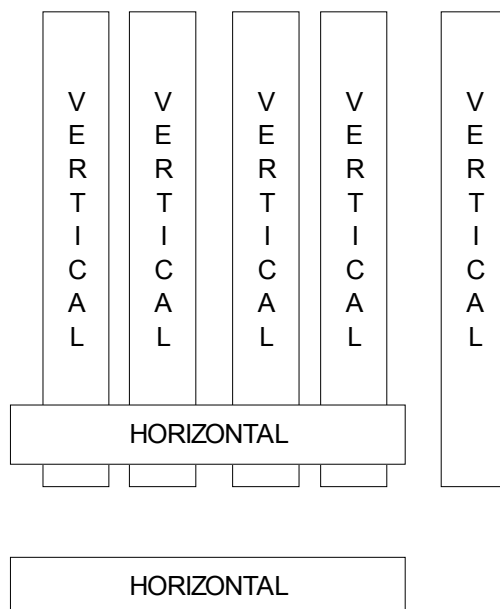
231

232 **Proposal: There could be different standardisation efforts to horizontal standards and**
233 **vertical standards.**

234

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

237



238

239

240 **Proposal: Governments should especially concentrate on open horizontal standards.**

241

242 **Proposal: Some government agencies could apply for memberships of different**
243 **standard setting organisations which develop especially open horizontal standards.**
244

245 **Proposal: Government agencies should not be passive by-standers when different open**
246 **horizontal standards are developed.**
247

248 **Proposal: Government agencies could financially support development of open**
249 **horizontal standards.**
250

251 Here we can note that developing horizontal standards is very demanding compared to developing
252 vertical standards.
253

254 **What this means to energy efficiency and community energy in Alberta?**

- 255 1) **There can be different standardisation organisations which provide different**
256 **standards.**
- 257 2) **There can be competing horizontal standards.**
- 258 3) **Some government agencies (Alberta) could join some standardisation**
259 **organisations which develop especially open horizontal standards,**
- 260 4) **Some government agencies (Alberta) could fund development of open**
261 **horizontal standards.**
262

263 **More and more new identifiers (ID) / Challenges to privacy?**
264

265 In the previous consultations there has been discussion about different identifiers (ID) in different
266 information systems. It can be noted from the previous opinions that there will be several and
267 different identifiers (ID) for different levels.
268

269 Examples of these identifiers (ID) are following:
270

- 271 1) Facebook ID for an individual person
- 272 2) Facebook ID for the individual up-dates of individuals
- 273 3) Data Universal Numbering System (D-U-N-S)
- 274 4) Reuters instruments codes (RICs)
- 275 5) Social security code for individual citizens in the European Union member states
- 276 6) Business identity code for a company in an European Union member state
- 277 7) Value added tax code for a company in an European Union member state.
278

279 The examples of private identifiers (Facebook IDs, Data Universal Numbering System (D-U-N-S),
280 Reuters Instrumens Codes (RICs)) show, that persons and/or communities can use or even demand
281 of using identifiers (ID) from privately owned information systems.
282

283 **Proposal: There could be a systematic review of different identifiers (ID) on different**
284 **levels.**
285

286 **Proposal: Possible systematic review of different identifiers (ID) should assess different**

287 **situations.**

288

289 Different information systems have also internal identifiers (ID) and external identifiers (ID) for
290 (possible) public usage. The added value for different stakeholders is provided by combination of
291 different identifiers (ID) in a specific information system.

292

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

295

296 It can be possible, that there are some legacy identifiers (ID) in the near future. It can be possible,
297 that gradually some legacy identifiers (ID) can be consolidated for more standardised identifiers
298 (ID), but this consolidation means some serious technical and administrative actions.

299

300 **Proposal: Legacy identifiers (ID) could be assessed seriously.**

301

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

305

306 **Proposal: The nature of different identifiers (ID) could be assessed.**

307

308 **Proposal: There could be serious negotiations with some providers of identifiers (ID).**

309

310 In the European Union there has been different anti-trust cases which are related to different private
311 sector identifiers (ID), since some of those private sector identifiers (ID) have been used in several
312 other systems. Some private sector identifiers (ID) can mean a (near) monopoly situation.

313

314 **What this means to energy efficiency and community energy in Alberta?**

315 1) **Number of different identifiers (ID) is increasing – not decreasing**

316 2) **New identifiers (ID) mean a lot work for creating and/or updating of different**
317 **information systems – also in Alberta.**

318 3) **There can new identifiers (ID) which are related to energy systems.**

319 4) **There can public and private identifiers (ID).**

320 5) **Some private identifiers (ID) can limit actions of different stakeholders.**

321 6) **Different identifiers (ID) related to energy systems could be assessed carefully.**

322 7) **There could be some discussions with communities which provide private**
323 **identifiers (ID).**

324 8) **Monopoly situation with some private identifiers (ID) could be assessed.**

325

326 From the discussion document we can note pages 11-12 which gives us examples of energy
327 efficient technologies and practices.

328

329 **What this means to energy efficiency and community energy in Alberta?**

330 1) **Almost all technologies mentioned on pages 11-12 (discussion document) mean**
331 **more identifiers (ID).**

332

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

334



335

336

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

339

340 **Proposal: Web feeds could be advocated when developing different informations**
341 **systems.**

342

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

345

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

349

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

351

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

354

355 It can be noted, that different back-office systems (with a wide variety of different technologies) can
356 implement RSS standards, and these RSS feeds can be used in the front-office systems. With this
357 kind solutions front-office systems dont need direct system-to-system communications with back-
358 office systems.

359

360 **What this means to energy efficiency and community energy in Alberta?**

361 **1) Web feeds (RSS and/or Atom) could be used extensively.**

362 **2) There can be several web feeds (RSS and/or Atom) for different stakeholders.**

363

364 **Complex networks of different systems?**

365

366 [Continues on the next page]

367

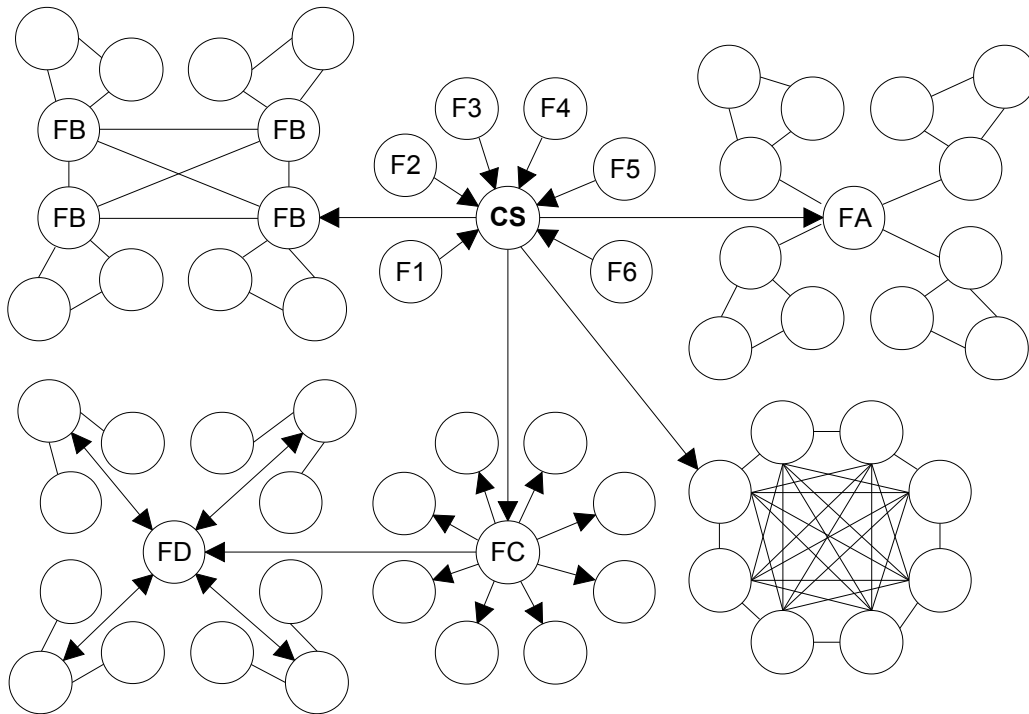
2 <http://www.rssboard.org/rss-specification>, RSS 2.0 Specification

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



368
369

370 Based on previous issues (web feeds) we can note that there can several formats (e.g. 1-6, A-D) for
371 transmitting information from some central (CS) information system. Some formats may be non-
372 standard or standard.

373

374 **What this means to energy efficiency and community energy in Alberta?**

- 375 1) **There could be one central information system for energy issues which collects**
- 376 **information from other energy systems.**
- 377 2) **One central information system for energy issue could be based on web feed**
- 378 **standards (RSS and/or Atom).**
- 379 3) **One central information system for energy issues could provide several web**
- 380 **feeds for different stakeholders.**

381

382 One issue for central information system for energy issues could be security issue. Security
383 notifications should be transmitted very fast for different stakeholders.

384

385 **What this means to energy efficiency and community energy in Alberta?**

- 386 1) **There could be some regulations about security notifications.**
- 387 2) **There could be one central information system which collects security**
- 388 **notifications.**
- 389 3) **One central information system could forward security notifications to other**
- 390 **information systems.**

391

392 **Important factors?**

393

394 **Discussion document (Page 14):**

395 **Question: What are the most important factors in determining which technologies and**
396 **practices should be included in energy efficiency and community energy programs?**

397

398 **Answer: Here we can reiterate need for open standards and especially open horizontal**
399 **standards.**

400 **Answer: Government agencies (Alberta) should advance development of open**
401 **horizontal standards.**

402

403 **Proposal: More technically oriented consultations**

404

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

406 Previously mentioned issues could be detailed for new technically oriented consultations.

407

408

409

410 **Good luck!**

411

412 This opinion is quite limited and probably other opinions will result some constructive ideas.

413

414

415

416 [Continues on the next page]

417

418

419

ANNEX 1

420

421

I have constructed different opinions about different issues, and on the following web page
are all written (PDF files) opinions:

422

423

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

424

425

**I have constructed specifically opinions related to information systems – both in English and
in Finnish. Here is the list of opinions related to information systems.**

426

427

428

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

429

http://www.jukkarannila.fi/lausunnot.html#nro_8

430

431

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

432

proposal for comments

433

http://www.jukkarannila.fi/lausunnot.html#nro_9

434

435

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

436

http://www.jukkarannila.fi/lausunnot.html#nro_13

437

438

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

439

http://www.jukkarannila.fi/lausunnot.html#nro_14

440

441

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

442

http://www.jukkarannila.fi/lausunnot.html#nro_17

443

444

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

445

http://www.jukkarannila.fi/lausunnot.html#nro_18

446

447

EN: Opinion 19: Official Acknowledgement by the Commission

448

http://www.jukkarannila.fi/lausunnot.html#nro_19

449

450

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

451

http://www.jukkarannila.fi/lausunnot.html#nro_20

452

453

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

454

http://www.jukkarannila.fi/lausunnot.html#nro_21

455

456

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

457

http://www.jukkarannila.fi/lausunnot.html#nro_23

458

459

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

460

http://www.jukkarannila.fi/lausunnot.html#nro_24

461

FI: Lausunto 29: Avoimen demokratian avoimen datan avaamisen detaljit (ADADAD)

462

http://www.jukkarannila.fi/lausunnot.html#nro_29

- 463 EN: Opinion 30: Internet Filtering
464 http://www.jukkarannila.fi/lausunnot.html#nro_30
465
- 466 FI: Lausunto 31: Terveystieteiden tietotekniikasta
467 http://www.jukkarannila.fi/lausunnot.html#nro_31
468
- 469 EN: Opinion 32: COMP/C-3/39.692/IBM - Maintenance services
470 http://www.jukkarannila.fi/lausunnot.html#nro_32
471
- 472 FI: Lausunto 33: Julkishallinnon tietoluovutusten periaatteet ja käytännöt
473 http://www.jukkarannila.fi/lausunnot.html#nro_33
474
- 475 EN: Opinion 34: REMIT Registration Format
476 http://www.jukkarannila.fi/lausunnot.html#nro_34
477
- 478 EN: Opinion 37: CASE COMP/39.654 - Reuters instrument codes
479 http://www.jukkarannila.fi/lausunnot.html#nro_37
480
- 481 FI: Lausunto 38: SAdE-ohjelman avoimen lähdekoodin toimintamallin luonnos
482 http://www.jukkarannila.fi/lausunnot.html#nro_38
483
- 484 EN: Opinion 39: Registry options to facilitate linking of emissions trading systems
485 http://www.jukkarannila.fi/lausunnot.html#nro_39
486
- 487 EN: Opinion 41: AT.39398: observations on the proposed commitments
488 http://www.jukkarannila.fi/lausunnot.html#nro_41
489
- 490 EN: Opinion 43: Publication of extracts of the European register of market participants
491 http://www.jukkarannila.fi/lausunnot.html#nro_43
492
- 493 EN: Opinion 45: About ICT standardisation
494 http://www.jukkarannila.fi/lausunnot.html#nro_45
495
- 496 EN: Opinion 46: Review of the EU copyright rules
497 http://www.jukkarannila.fi/lausunnot.html#nro_46
498
- 499 EN: Opinion 47: Sharing or collaborating with government documents
500 http://www.jukkarannila.fi/lausunnot.html#nro_47
501
- 502 FI: Lausunto 49: JSH 166 -suosituksen päivitys
503 http://www.jukkarannila.fi/lausunnot.html#nro_49
504
- 505 EN: Opinion 52: Trusted Cloud Europe Survey
506 http://www.jukkarannila.fi/lausunnot.html#nro_52
507

- 508 EN: Opinion 53: Trade Reporting User Manual (TRUM) (Draft)
509 http://www.jukkarannila.fi/lausunnot.html#nro_53
510
- 511 EN: Opinion 54: Government Content Management System
512 http://www.jukkarannila.fi/lausunnot.html#nro_54
513
- 514 EN: Opinion 55: European Energy Regulation
515 http://www.jukkarannila.fi/lausunnot.html#nro_55
516
- 517 EN: Opinion 56: National Identity Proofing Guidelines
518 http://www.jukkarannila.fi/lausunnot.html#nro_56
519
- 520 FI: Lausunto 58: Puoluekokousaloitteet / 2010 ja 2014
521 http://www.jukkarannila.fi/lausunnot.html#nro_58
522
- 523 EN: Opinion 59: Green paper on mobile Health
524 http://www.jukkarannila.fi/lausunnot.html#nro_59
525
- 526 EN: Opinion 60: Cross-border inheritance tax problems within the EU
527 http://www.jukkarannila.fi/lausunnot.html#nro_60
528
- 529 EN: Opinion 61: European Register of Products Containing Nanomaterials
530 http://www.jukkarannila.fi/lausunnot.html#nro_61
531
- 532 FI: Lausunto 65: Lausuntopyyntö nettiäänestystyöryhmän väliraportista
533 http://www.jukkarannila.fi/lausunnot.html#nro_65
534
- 535 EN: Opinion 66: Net Innovation for the Work Programme 2016-2017
536 http://www.jukkarannila.fi/lausunnot.html#nro_66
537
- 538 FI: Lausunto 67: Valtioneuvoston hanketiedon esiselvityksestä
539 http://www.jukkarannila.fi/lausunnot.html#nro_67
540
- 541 EN: Opinion 68: European Network Code Stakeholder Committees
542 http://www.jukkarannila.fi/lausunnot.html#nro_68
543
- 544 FI: Lausunto 69: Hallituksen esitys (luonnos 16.4.2015) vieraslajeista
545 http://www.jukkarannila.fi/lausunnot.html#nro_69
546
- 547 EN: Opinion 70: Providing better APIs in New Zealand
548 http://www.jukkarannila.fi/lausunnot.html#nro_70
549
- 550 EN: Opinion 71: Common Schema for the Disclosure of Inside Information
551 http://www.jukkarannila.fi/lausunnot.html#nro_71
552

- 553 EN: Opinion 72: Queensland biofuel mandate
554 http://www.jukkarannila.fi/lausunnot.html#nro_72
555
- 556 EN: Opinion 73: Financial / Conceptual Frameworks
557 http://www.jukkarannila.fi/lausunnot.html#nro_73
558
- 559 EN: Opinion 74: Enabling the Internet of Things
560 http://www.jukkarannila.fi/lausunnot.html#nro_74
561
- 562 EN: Opinion 78: Consumer Complaints Register (NSW)
563 http://www.jukkarannila.fi/lausunnot.html#nro_78
564
- 565 EN: Opinion 79: PCEHR (Information Commissioner Enforcement Powers) Guidelines 2015
566 http://www.jukkarannila.fi/lausunnot.html#nro_79
567
- 568 EN: Opinion 80: Mandatory Transparency Register
569 http://www.jukkarannila.fi/lausunnot.html#nro_80
570
- 571 EN: Opinion 81: Records and Information Management Standard
572 http://www.jukkarannila.fi/lausunnot.html#nro_81
573
- 574 EN: Opinion 84: Revision of the European Interoperability Framework
575 http://www.jukkarannila.fi/lausunnot.html#nro_84
576
- 577 EN: Opinion 85: Regulatory options for automated vehicles
578 http://www.jukkarannila.fi/lausunnot.html#nro_85
579
- 580 EN: Opinion 86: 2016 Annual Colloquium on fundamental rights
581 http://www.jukkarannila.fi/lausunnot.html#nro_86
582
- 583 EN: Opinion 87: Assessing privacy and big data on the Internet
584 http://www.jukkarannila.fi/lausunnot.html#nro_87
585
- 586 EN: Opinion 88: Evaluation and Review of the ePrivacy Directive
587 http://www.jukkarannila.fi/lausunnot.html#nro_88
588
- 589 EN: Opinion 89: BEREC Guidelines for net neutrality rules
590 http://www.jukkarannila.fi/lausunnot.html#nro_89
591
- 592 EN: Opinion 90: Consent / Information and Privacy Commission NSW (IPC)
593 http://www.jukkarannila.fi/lausunnot.html#nro_90
594
- 595 EN: Opinion 91: Draft New Plan on Open Government 2016-2018
596 http://www.jukkarannila.fi/lausunnot.html#nro_91

597

598

599 DISCLAIMERS

600

601 Legal disclaimer:

602 All opinions in this opinion paper are personal opinions and they do not represent opinions of any legal entity I am
603 member either by law or voluntarily. This opinion paper is only intended to trigger thinking and it is not legal advice.

604 This opinion paper does not apply to any past, current or future legal entity. This opinion paper will not cover any of the
605 future changes in this fast-developing area. Any actions made based on this opinion is solely responsibility of respective
606 actor making those actions.

607

608 Political disclaimer:

609 These opinions do not represent opinions of any political party. These opinions are not advices to certain policy and
610 they are only intended to trigger thinking. Any law proposal based on these opinions are sole responsibility of that legal
611 entity making law proposals.

612

613 These opinions are not meant to be extreme-right, moderate-right, extreme-centre ⁷, moderate-centre, extreme-left or
614 moderate-left. They are only opinions of an individual whose overall thinking might or might not contain elements of
615 different sources. These opinions do not reflect past, current or future political situation in the Finnish, European or
616 worldwide politics.

617

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

619

620 Content of web pages:

621 This text may or may not refer to web pages. The content of those web pages is not responsibility of author of this
622 document. They are referenced on the date of this document. If referenced web pages are not found after the date when
623 this document is dated, that situation is not responsibility of the author. All changes done in the web pages this
624 document refers are sole responsibility of those organisations and individuals maintaining those web pages. All illegal
625 content found on the referred web pages is not on the responsibility of the author of this document, and producing that
626 kind content is not endorsed by the author of this document.

627

628 Use of broken English

629 This text is in English, but from a person, whose is not a native English-speaking person. Therefore the text may or may
630 not contain bad, odd and broken English, and can contain awkward linguistic solutions.

631

632 COPYRIGHT

633

634 This opinion paper is distributed under Creative Commons licence, to be specific the licence is "Attribution-
635 NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0)". The text of the licence can be obtained from
636 the following web page:

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

638 The English explanation is on the following web page:

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

640

641

642



7 Based on the Finnish three-party system there is a phenomenon called extreme-centre in Finland. The 2011 parliamentary elections in Finland challenged the three-party system, since three "old" parties were not traditionally as the three largest parties. On 2015 this "new" party is part of the current Finnish Government. We all must be interested about this new development in Finland.