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TO: Archives New Zealand
rkconsultation@dia.govt.nz

Opinion about Records and Information Management Standard

First of all, a lot of thanks to Archives New Zealand 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.

Archives New Zealand can add the PDF file of this opinion to a relevant web page.

Annex 1 holds a list of my opinions related to information systems.

Annex 2 holds information about disclaimers and copyright.

Best Regards,

Jukka S. Rannila
citizen of Finland

signed electronically

[Continues on the next page]

43

44 **Respondent information**

45

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47

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49

50 **GSM: +358 (0)40 59 29 829**

51

52 **I am making this submission: as an INDIVIDUAL**

53

54 **General remarks**

55

56 Annex 1 holds a list of my opinions related to information systems.

57

58 Based on the previous opinions it is possible to make some observations for Records and
59 Information Management Standard draft(s).

60

61 From this consultation it is possible to compare different issues in Finland and in New Zealand.
62 Possibly there is something to be learned.

63

64 **General remarks / Alternate ways for representing requirements?**

65

66 Cooper, A. (1999). *The Inmates Are Running the Asylum: Why High Tech Products Drive
67 Us Crazy and How to Restore the Sanity*. Sams - Pearson Education.

68

69 Cooper, A., Reimann, R., & Cronin, D. (2007). *About face 3: the essentials of interaction
70 design*. Indianapolis: Wiley.

71

72 Cooper (1999) and Cooper, Reimann & Cronin (2007) gives us different/alternate ways for
73 describing requirements. One thesis is that long lists of requirements are not efficient and they
74 propose using different personas for presenting requirements.

75

76 **General remarks / Alternate ways for assessing usability / Light methods and other methods**

77

78 Krug, S. (2006). *Don't make me think! a common sense approach to web usability*.
79 Berkeley, Calif: New Riders.

80

81 Sinkkonen, I., Kuoppala, H., Parkkinen, J., & Vastamäki, R. (2006). *Psychology of
82 Usability*. Helsinki: IT Press.

83

84 Krug (2006) describes and proposes light usability assessment methods for an information (web
85 page) assessment. Sinkkonen et. al (2006, Appendix) describes rather extensive and large-scale
86 usability assessment methods. One thesis (Krug 2006) is that it is easier to do light usability
87 assessments during a information (web page) system development.

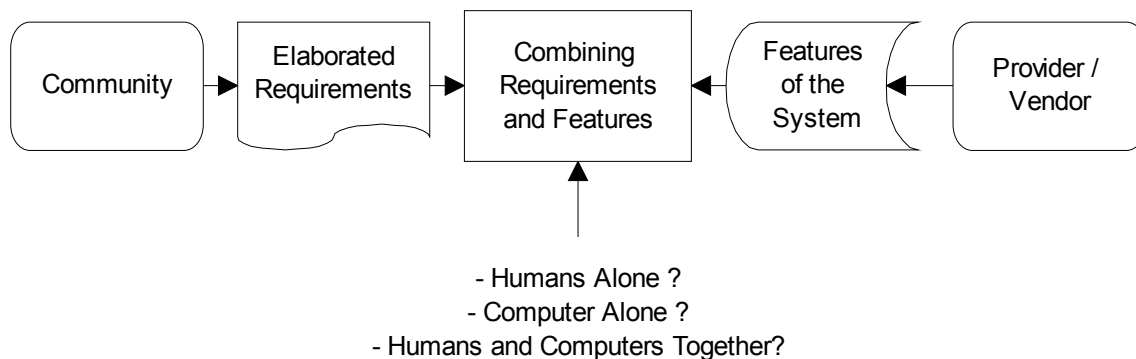
88

89 **General remarks / Difference between requirements and features**

90

91 It can be said, that the Archives New Zealand is now a community for elaborating different
 92 requirements to a (new) information system. The (new) information system features should conform
 93 to the requirements. Requirements engineering is very high-risk task in the information and
 94 communication technology (ICT) field. Therefore we have even today very high-risk projects
 95 failing because of the requirements engineering problems.

96



97

98

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

- 100 1) discovery
- 101 2) specification
- 102 3) validation and verification.

103

104 However, the scientific information about requirements engineering is not cumulated extensively.
 105 Mainly the scientific information about requirements is still based on describing different issues in
 106 the requirements process. (Jarke et al. 2011)

107

108 Jarke, M., Loucopoulos, P., Lyytinen, K., Mylopoulos, J., & Robinson, W. (2011). The brave
 109 new world of design requirements. *Information Systems*, 36(7), 992-1008.
 110 doi:10.1016/j.is.2011.04.003

111

112 One thing is sure, requirements engineering is very high-risk task in the information and
 113 communication technology (ICT) field. Therefore we have even today very high-risk projects
 114 failing because of the requirements engineering problems.

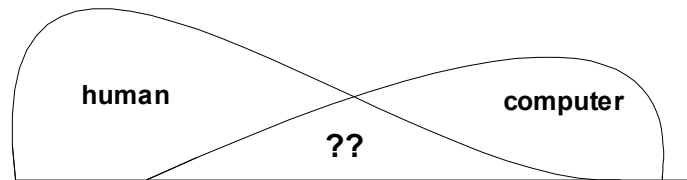
115

116 However, it can be said with high certainty that this consultation will not result full discovery and
 117 totally unambiguous specification. Therefore the actual implementation of the (new) information
 118 system can open totally new scenes of new and unforeseen requirements – thus opening a way for a
 119 new information system failure.

120

121 Different requirements for an IT system can be described in many ways, and there can be
 122 mismatches between features and requirements. Also, the division of labour between humans and

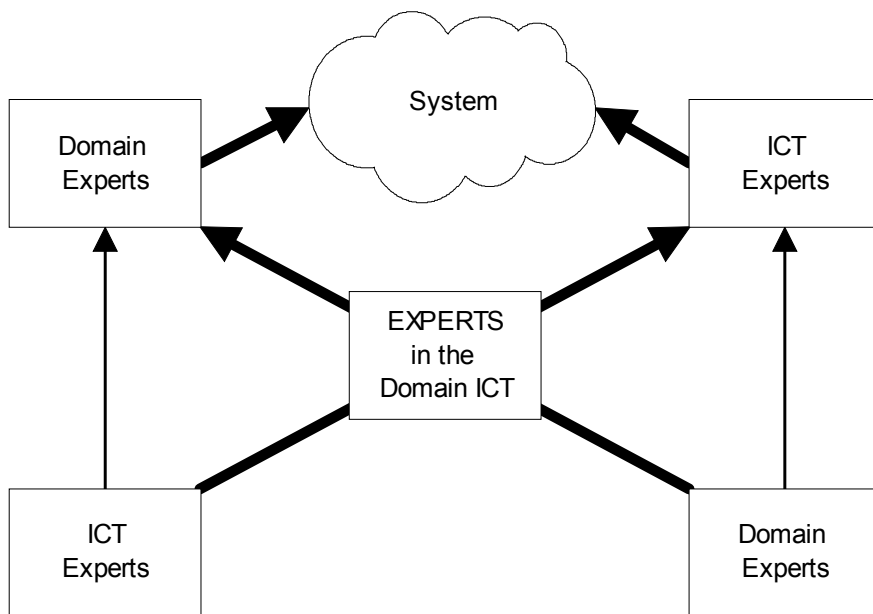
123 computers can cause problems, and there are always real possibilities for creating cumbersome IT
 124 solutions.
 125



126
 127
 128 In reality there are several ways for organising task: humans only; computers only; combinations
 129 for human and computers. Naturally the last task (combinations for human and computers) is
 130 hardest to implement in reality – sometimes we create wrong combinations for these tasks.
 131

132 **General remarks / Domain experts and ICT experts**

133



134
 135
 136 Based on previous opinions (check Annex 1) I have presented the previous figure. Generally
 137 speaking different ICT experts try to understand a specific domain. Generally speaking different
 138 domain experts try to understand ICT. There can be several several mismatches between ICT
 139 experts and domain experts.

140
 141 There could be more understanding between different experts when different issues are carefully
 142 and presented with more clarity.

143
 144 **General remarks / Conception of information technology (IT)**

145
 146 We have the four basic functions: add, retrieve, change and remove. Then there are databases and

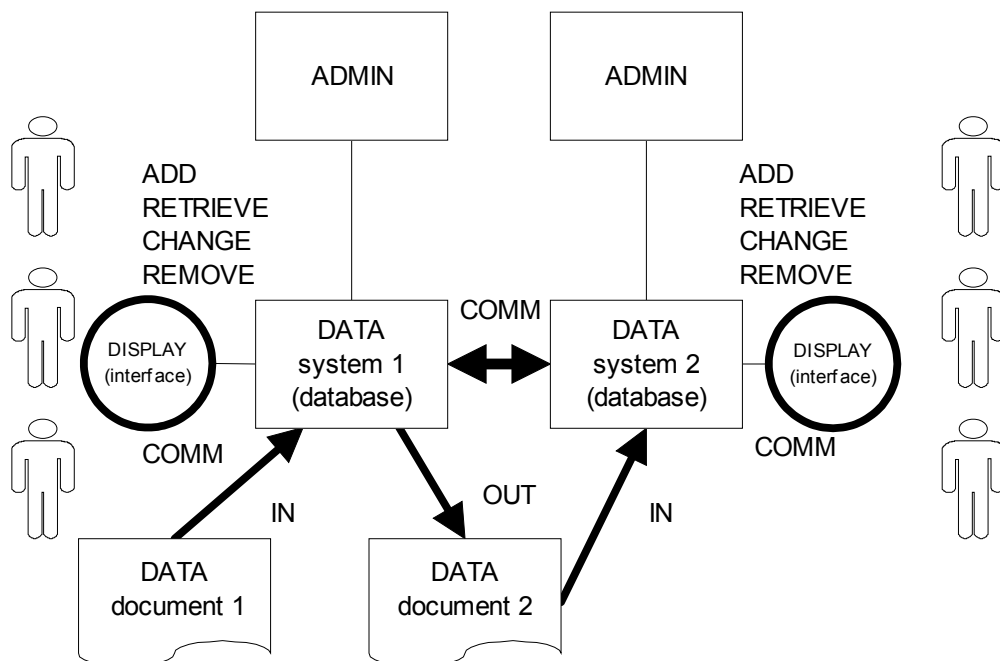
147 documents used in different systems. Users use different displays (interfaces). Different systems
 148 need administration (also maintenance) for keeping a system functional. Then there is
 149 communication (also standards) for direct and indirect usage of an information system.
 150

151 In practical reality, different information systems are interrelated, and practical added value is based
 152 on the seamless cooperation between systems.
 153

154 Here we can note some general issues with information systems. Generally speaking there can be
 155 direct system-to-system connections. Generally speaking cooperation between systems are based on
 156 transmitting different documents to different systems.
 157

Note: There may be a need for both solutions – direct system-to-system connections and transmitting different documents between systems.

Proposal: Probably there has to both options implemented – direct system-to-system connections and transmitting different documents between systems.



164
 165
 166 Like the figure indicates, there are databases in different information systems. Then there are
 167 different documents for transmitting data between different systems. Here we can note especially
 168 following standardisation needs for different parts of the proposed IT platform:

- * communication standards
- * data standards (also document standards)
- * database standards
- * display / interface standards.

171
 172
 173
 Copyright, licence and disclaimers: check Annex 2.

174 **Proposal: There could different standardisation efforts for communication, data,**
 175 **document, database, display/interface standards.**

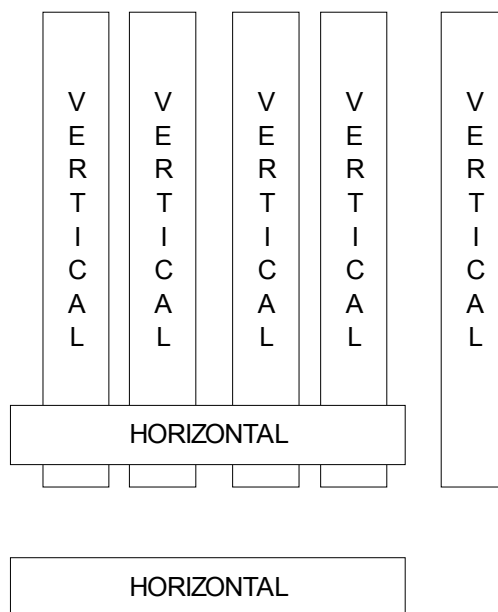
176
 177 **Proposal: Assessing previously developed standards could be done seriously.**
 178

179 One comprehensive list for different standard developing organisations (SDO) is provided ¹
 180 ConsortiumInfo.org. It may possible to use previously developed standards.

181
 182 Here we can note that there can be direct system-to-system connections, which can mean some
 183 standardised interfaces. Also we can note that different document formats can be used when there is
 184 system-to-system connections.
 185

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

191
 192 An example can be different email standards. There are numerous email systems developed with
 193 numerous technologies (vertical), but the cooperation between numerous email systems is possible
 194 with different (horizontal) email standards.
 195



196
 197
 198 **Opinion: The number of redundant standardisation efforts should be minimal.**
 199

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

¹ <http://www.consortiuminfo.org/links/linksall.php>, List of different standard developing organisations

201

202

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

203

204

205

Personally I advocate using different horizontal standards. For example email standards (horizontal) are implemented with very different technologies (vertical).

206

207

208

Proposal: Archives New Zealand could assess both vertical and HORIZONTAL

209

standards.

210

211

Proposal: Archives New Zealand could favour usage of HORIZONTAL standards.

212

213

Here we can note that developing horizontal standards is very demanding compared to developing vertical standards. Therefore NSW Fair Trading has to carefully assess situation of horizontal standards before developing new horizontal standards. On the other hand NSW Fair Trading could/can endorse and enforce usage of different horizontal standards.

214

215

216

217

218

Here we can note some problems:

219

220

- some systems are based on **de-facto** standards

221

- some systems are based on **de-jure** standards

222

- there can be confrontations between **de-facto** and **de-jure** standards

223

- there can be a monopoly situation in some domain

224

- some standards may inhibit possible actions of some stakeholders

225

- there can be a standard war on some domains

226

- standards have different life-cycles

227

- systems have different life-cycles

228

- there can be mismatches between different life-cycles

229

- there can be failed standards

230

- there can be deprecated standards.

231

232

General remarks / Actual reality / Different standards and standards versions

233

234

Previously I have advocated open standards for different information systems.

235

236

It is quite normal situation in the information technology field that there is competing standards for some application field. Therefore there are all the time ongoing “standards wars” or “format wars”.

237

238

The information technology standards tend to be interrelated and one “standards war” or “format war” can lead to another similar situation.

239

240

241

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

242

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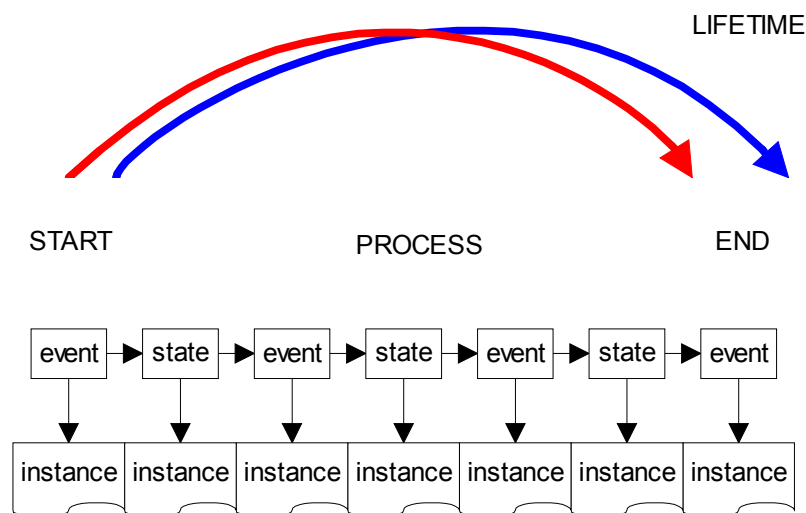
245

246 some application fields.

247

248 **General remarks / Processes, events, states, lifetime, instances, start and end**

249



250

251

252 Important concepts can noted: processes, events, states, lifetime, instances start and end. It can
253 noted that during the lifetime of an information system there can be significant changes with the
254 selected and implemented standards.

255

256 **Proposal: Based on the results of this consultation Archives New Zealand could create**
257 **a roadmap for implementing different open and/or especially horizontal standards.**

258

259 It can noted that there are very cumbersome information systems on on different application fields.
260 Therefore Archives New Zealand could have a clear roadmap for implementing different standards
261 in the near and distant future. Archives New Zealand could formally join to some important
262 (standards developing) organisations based on the results of this consultation.

263

264 **General remarks / Owner, member or agreement?**

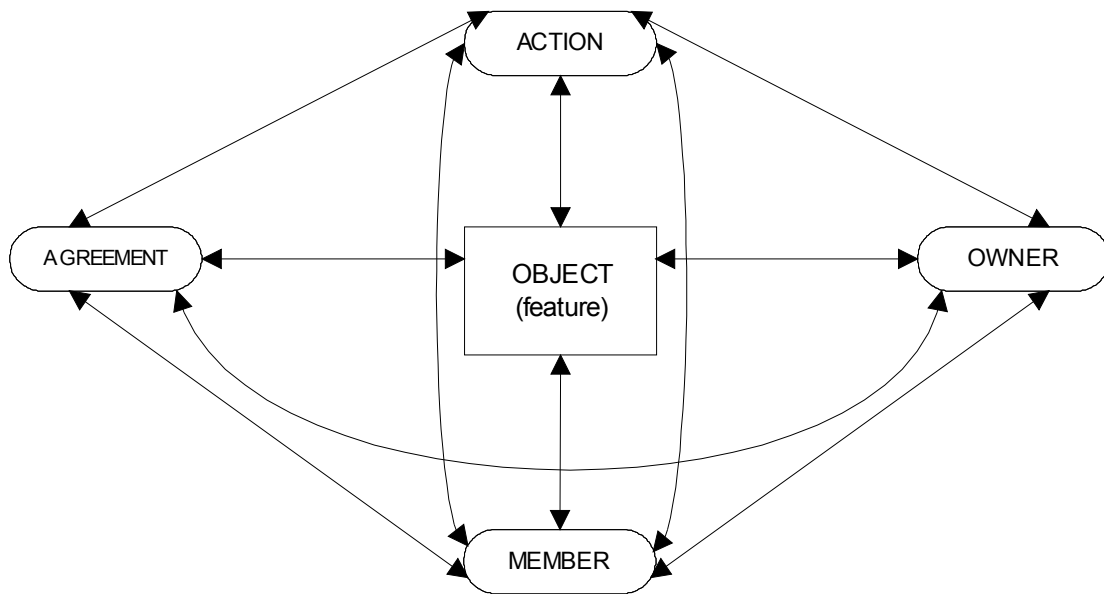
265

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

270

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

275



276
277

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

278
279
280

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

282

- 283 * public sector institute owns the machinery and processor of the information system
- 284 * the machinery and processor are based on relevant open standards
- 285 * the operating system is based on an open-source solution
- 286 * public sector institute owns the source code of the information system
- 287 * public sector institute owns the database of the information system
- 288 * the database is based on open-source solution and on relevant open standards
- 289 * public sector institute owns all data in the information system.

290

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

292

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

294
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296
297
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300

301 [Continues on the next page]

302

303

304

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

305

306 So there can be several ways for organising different (sub)systems. In many cases there are
307 problems with different concepts since many systems are developed by different communities.

308

309 **Requirement: 1.1 Records and information management is directed by policy and strategy,**
310 **and is regularly reviewed.**

311



312

313

314 There are several models for policy and strategy. Many of those models contains different phases
315 and repetition of those phases (circle). For example there can be following a model: Plan, Do,

316 Check, Act.

317

318 **Proposal:** There could be a phased model (circle) for assessing systematically policy
 319 and strategy.
 320

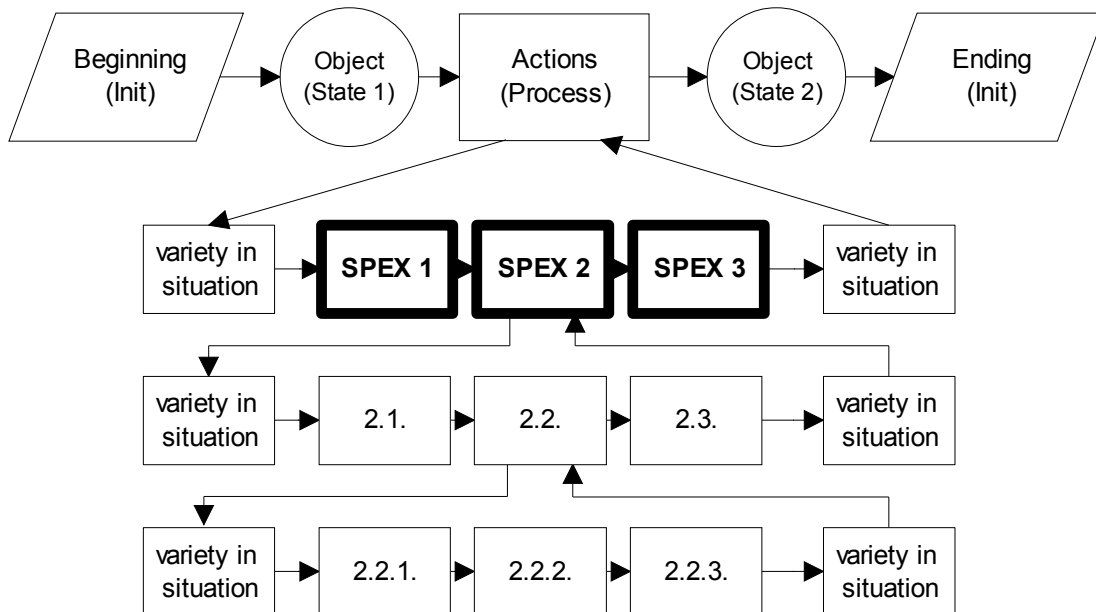
321 **Requirement: 1.2** Records and information management is the responsibility of senior
 322 management who provide direction and support for records and information management in
 323 accordance with business requirements and relevant laws and regulations.
 324

325 **Proposal:** Here we can reiterate that long lists of requirements can be cumbersome.
 326

327 Previously mentioned personas (Cooper 1999; Cooper, Reimann & Cronin 200) can be used for
 328 describing requirements since it is different compared with long list(s) of requirements.
 329

330 **Requirement: 1.5** Responsibility for ensuring that records and information management is
 331 integrated into work processes, systems, and services, is allocated to business owners and
 332 business units.
 333

334 In previous consultations I have advocated standardisation of interfaces. There are different
 335 processes (Beginning → Actions → Ending), which can be described in different levels of details.
 336



337
 338
 339 **Requirement: 1.5 / Standardising (SPEX) different parts of processes**
 340

341 Based on the previously proposed actions there can be a clear understanding of different processes.
 342 It can noted that describing different processes can mean a lot of work for different stakeholders.
 343

344 It can be noted here that describing different processes are implement in information systems which
 345 are hierarchically structured. So there is always some possible mismatches between actual process

346 models and actual hierarchy of system.

347
348 Here we can note, that in a process some objects change their state in different stages.

349
350 **Proposal: After some serious assessment there could be some serious work for**
351 **standardised (SPEX) interfaces and displays.**

352
353 **Proposal: Some parts of the processes could be standardised for interfaces (SPEX) for**
354 **different stakeholders.**

355
356 **Proposal: Some standardised customer interfaces (SPEX) could be used for having**
357 **better service processes for different stakeholders.**

358
359 It can be noted, that several systems could implement (SPEX) the same parts of different processes,
360 even though the technology in different systems can be totally different.

361
362 **Requirement: 1.7 Records and information management responsibilities are identified and**
363 **addressed in outsourced and similar service arrangements.**

364
365 **Requirement: 1.7 / Question about open data?**

366
367 In some cases public sector information systems can provide open data – either free or with nominal
368 fees. Here we can note that data can be provided in documents and/or in databases. Data can be
369 provided either realtime or in some timeframes.

370
371 **Proposal: Providing open data from could be assessed carefully.**

372
373 **Proposal: Providing (open) data with different timeframes could be assessed carefully.**

374
375 **Proposal: Providing (open) data directly from database(s) could be assessed carefully.**

376
377 **Proposal: Providing (open) data as documents could be assessed carefully.**

378
379 Generally speaking different stakeholder communities can use open data in very intelligently – also
380 adding other (open) data for creation an information service is a possibility.

381
382 **Requirement: 3.3 Records and information are identifiable, retrievable, accessible and**
383 **useable for as long as they are required**

384
385 **Requirement: 3.3 / More different identifiers (ID)?**

386
387 More IDs is one of the consequences of digitalisation (of everything). The ID is identifier in an
388 information system.

389
390 In the previous consultations there has been discussion about different identifiers (ID) in the

391 different systems. It can be noted from the previous opinions, that there will be several and different
 392 identifiers (ID) for different levels. There can be several identifiers (ID), e.g. following:

393

394 **Proposal: There could be a systematic review of different identifiers (ID) which records**
 395 **and information management.**

396

397 An example could be that stakeholder communities may have a national identifier (ID) in some
 398 member states. Not all member states require registration of interest representatives on the national
 399 level.

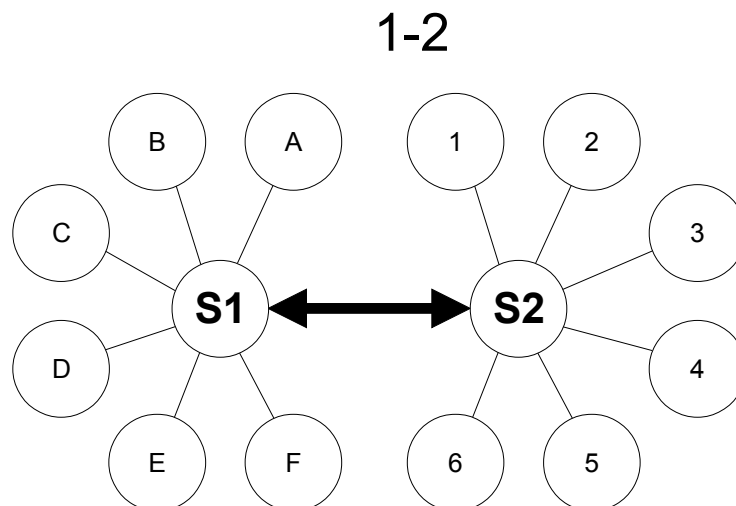
400

401 **Note: The number of different identifiers (ID) is increasing all the time.**

402

403 **Requirement: 3.3 / Added value of different identifiers (ID)?**

404



405

406

407 Here we can note possible cooperation between different systems and usually cooperation between
 408 different systems means using different identifiers (ID). There can be some central (S1 ↔ S2)
 409 systems which collect information from other systems which have own identifiers (ID).

410

411 **Final remarks**

412

413 I have proposed in some cases more technically oriented consultations. Also I have proposed
 414 different questionnaires for members on different national IT expert associations. Naturally there
 415 should be only a limited number of technical consultations for different IT expert associations.

416

417 **Proposal: There could be more more technically oriented consultation(s) based on the**
 418 **results of this consultation.**

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ANNEX 1

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

EN: Opinion 19: Official Acknowledgement by the Commission

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

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

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

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

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

- 465 EN: Opinion 23: Public consultation on the review of the European Standardisation System
466 http://www.jukkarannila.fi/lausunnot.html#nro_23
467
- 468 EN: Opinion 24: ISO/IEC JTC 1 / SC 34 / WGs 1, 4 and 5 in Helsinki 14-17 June 2010
469 http://www.jukkarannila.fi/lausunnot.html#nro_24
470
- 471 FI: Lausunto 29: Avoimen demokratian avoimen datan avaamisen detaljit (ADADAD)
472 http://www.jukkarannila.fi/lausunnot.html#nro_29
473
- 474 EN: Opinion 30: Internet Filtering
475 http://www.jukkarannila.fi/lausunnot.html#nro_30
476
- 477 FI: Lausunto 31: Terveystieteiden tietotekniikasta
478 http://www.jukkarannila.fi/lausunnot.html#nro_31
479
- 480 EN: Opinion 32: COMP/C-3/39.692/IBM - Maintenance services
481 http://www.jukkarannila.fi/lausunnot.html#nro_32
482
- 483 FI: Lausunto 33: Julkishallinnon tietoluovutusten periaatteet ja käytännöt
484 http://www.jukkarannila.fi/lausunnot.html#nro_33
485
- 486 EN: Opinion 34: REMIT Registration Format
487 http://www.jukkarannila.fi/lausunnot.html#nro_34
488
- 489 EN: Opinion 37: CASE COMP/39.654 - Reuters instrument codes
490 http://www.jukkarannila.fi/lausunnot.html#nro_37
491
- 492 FI: Lausunto 38: SADe-ohjelman avoimen lähdekoodin toimintamallin luonnos
493 http://www.jukkarannila.fi/lausunnot.html#nro_38
494
- 495 EN: Opinion 39: Registry options to facilitate linking of emissions trading systems
496 http://www.jukkarannila.fi/lausunnot.html#nro_39
497
- 498 EN: Opinion 41: AT.39398: observations on the proposed commitments
499 http://www.jukkarannila.fi/lausunnot.html#nro_41
500
- 501 EN: Opinion 43: Publication of extracts of the European register of market participants
502 http://www.jukkarannila.fi/lausunnot.html#nro_43
503
- 504 EN: Opinion 45: About ICT standardisation
505 http://www.jukkarannila.fi/lausunnot.html#nro_45
506
- 507 EN: Opinion 46: Review of the EU copyright rules
508 http://www.jukkarannila.fi/lausunnot.html#nro_46
509

- 510 EN: Opinion 47: Sharing or collaborating with government documents
511 http://www.jukkarannila.fi/lausunnot.html#nro_47
512
- 513 FI: Lausunto 49: JSH 166 -suosituksen päivitys
514 http://www.jukkarannila.fi/lausunnot.html#nro_49
515
- 516 EN: Opinion 52: Trusted Cloud Europe Survey
517 http://www.jukkarannila.fi/lausunnot.html#nro_52
518
- 519 EN: Opinion 53: Trade Reporting User Manual (TRUM) (Draft)
520 http://www.jukkarannila.fi/lausunnot.html#nro_53
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- 522 EN: Opinion 54: Government Content Management System
523 http://www.jukkarannila.fi/lausunnot.html#nro_54
524
- 525 EN: Opinion 55: European Energy Regulation
526 http://www.jukkarannila.fi/lausunnot.html#nro_55
527
- 528 EN: Opinion 56: National Identity Proofing Guidelines
529 http://www.jukkarannila.fi/lausunnot.html#nro_56
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- 531 FI: Lausunto 58: Puoluekokousaloitteet / 2010 ja 2014
532 http://www.jukkarannila.fi/lausunnot.html#nro_58
533
- 534 EN: Opinion 59: Green paper on mobile Health
535 http://www.jukkarannila.fi/lausunnot.html#nro_59
536
- 537 EN: Opinion 60: Cross-border inheritance tax problems within the EU
538 http://www.jukkarannila.fi/lausunnot.html#nro_60
539
- 540 EN: Opinion 61: European Register of Products Containing Nanomaterials
541 http://www.jukkarannila.fi/lausunnot.html#nro_61
542
- 543 FI: Lausunto 65: Lausuntopyyntö nettiäänestystyöryhmän väliraportista
544 http://www.jukkarannila.fi/lausunnot.html#nro_65
545
- 546 EN: Opinion 66: Net Innovation for the Work Programme 2016-2017
547 http://www.jukkarannila.fi/lausunnot.html#nro_66
548
- 549 FI: Lausunto 67: Valtioneuvoston hanketiedon esiselvityksestä
550 http://www.jukkarannila.fi/lausunnot.html#nro_67
551
- 552 EN: Opinion 68: European Network Code Stakeholder Committees
553 http://www.jukkarannila.fi/lausunnot.html#nro_68
554

- 555 FI: Lausunto 69: Hallituksen esitys (luonnos 16.4.2015) vieraslajeista
556 http://www.jukkarannila.fi/lausunnot.html#nro_69
557
558 EN: Opinion 70: Providing better APIs in New Zealand
559 http://www.jukkarannila.fi/lausunnot.html#nro_70
560
561 EN: Opinion 71: Common Schema for the Disclosure of Inside Information
562 http://www.jukkarannila.fi/lausunnot.html#nro_71
563
564 EN: Opinion 72: Queensland biofuel mandate
565 http://www.jukkarannila.fi/lausunnot.html#nro_72
566
567 EN: Opinion 73: Financial / Conceptual Frameworks
568 http://www.jukkarannila.fi/lausunnot.html#nro_73
569
570 EN: Opinion 74: Enabling the Internet of Things
571 http://www.jukkarannila.fi/lausunnot.html#nro_74
572
573 EN: Opinion 78: Consumer Complaints Register (NSW)
574 http://www.jukkarannila.fi/lausunnot.html#nro_78
575
576 EN: Opinion 79: PCEHR (Information Commissioner Enforcement Powers) Guidelines 2015
577 http://www.jukkarannila.fi/lausunnot.html#nro_79
578
579 EN: Opinion 80: Mandatory Transparency Register
580 http://www.jukkarannila.fi/lausunnot.html#nro_80
581
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584

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

587 <http://www.jukkarannila.fi/lausunnot.html>
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636 <http://creativecommons.org/licenses/by-nc-nd/4.0/legalcode>

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2 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.