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TO:
Unit H.3: eHealth, WellBeing & Ageing
Directorate-General for Communications Networks, Content and Technology
European Commission

Reference: Commission Recommendation to Establish a Format for a European Electronic Health Record (EHR) Exchange – Roadmap – Ares(2018)5986687

First of all, a lot of thanks to (Unit H.3.) The Directorate-General for Communications Networks, Content and Technology (CONNECT) 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 previous consultations at the European Union level.
Annex 2 holds information about disclaimers and copyright.

Best Regards,

Jukka S. Rannila
citizen of Finland
signed electronically

[Continues on the next page]

42

43 Previous opinions

44

45 Annex 1 holds information about previous consultations and my previous opinions.

46

47 Here we can note that I have repeated the same issues based on previous consultations. Different
48 units of the European Commission already know something about my previous opinions

49

50 Proposed interoperability – viewpoints

51

52 Consultation document contains following text:

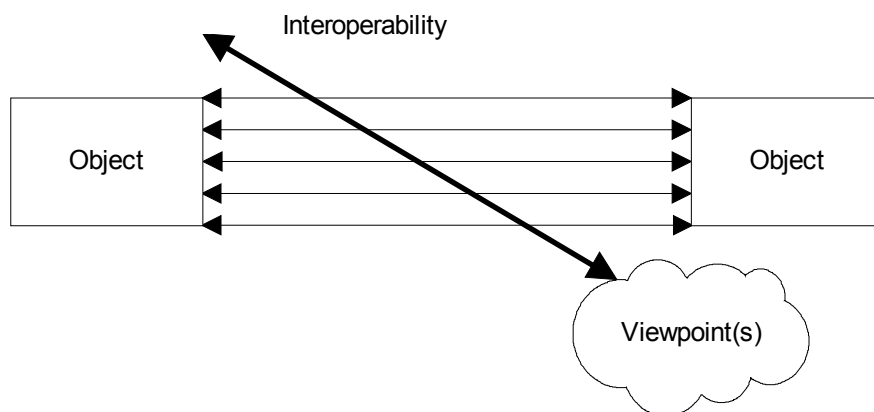
53

54 “The open public consultation carried out in 2017 confirmed that all stakeholders see the
55 lack of interoperability between Electronic Health Records as a major barrier to seamless
56 access to health data.”

57

58 Here we can note that interoperability is based on different viewpoints. This means that there can be
59 different levels of interoperability.

60



61

62

63 **Proposal: Different levels of interoperability should be assessed – e.g. results of this
64 consultation.**

65

66 About different standards

67

68 I have proposed several times usage of open horizontal standards when developing different
69 information systems.

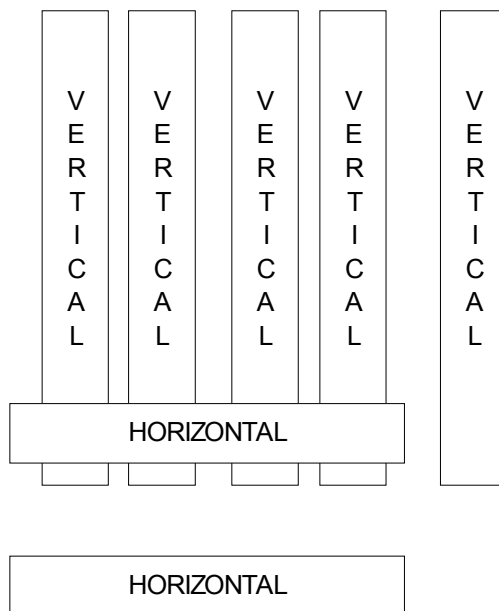
70

71 Favouring open standards / Favouring horizontal standards

72

73 There are differences between horizontal and vertical standards. A simple example is naturally
74 email solutions. There are several vertical standards when creating technically email solutions. Then

75 there are horizontal standards which enable sending messages between technically different email
76 solutions.
77



78
79
80 **Proposal: There could be assessment of vertical and horizontal standards.**

81
82 **Proposal: Using horizontal standards could be favoured when creating different**
83 **information systems at the European Union level.**

84
85 Horizontal standards enables technological solutions which can work together. Horizontal standards
86 hides different complexities in information systems.

87
88 **Opinion: The number of redundant standardisation efforts should be minimal.**

89
90 **Proposal: There could be separation of horizontal standards and vertical standards.**

91
92 **Proposal: There could be different standardisation efforts to horizontal standards and**
93 **vertical standards**

94
95 Personally I have advocated using different open horizontal standards. For example email standards
96 (horizontal) are implemented with very different technologies (vertical).

97
98 Here we can note that different national details can be vertical standards.

99
100 **Proposal: Different (vertical) national details (standards) should not hinder usage of**
101 **(European) other standards (horizontal).**

102

103

104 **Complexity at the European Union level**

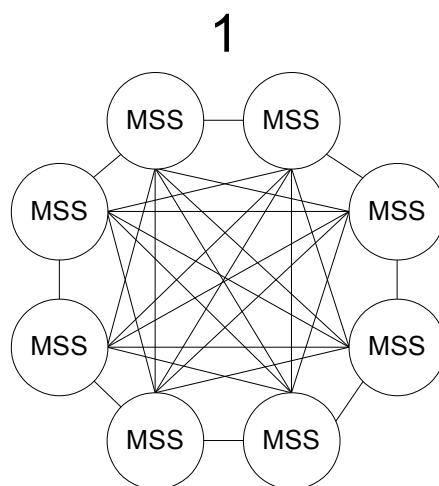
105

106 I have noted several times that different member state systems (MSS) can interlinked in many ways.

107 This means that co-operation with European Union systems means a lot of work. This leads to the

108 question of a European Contact Point (EUCP) for different member state systems (MSS).

109



MSS = Member State System

110

111

112

113 There are 28 member states (European Union) at the moment. In reality there are unique situations

114 with information systems in different member states. In some cases information systems can be

115 implemented based on complex system-to-system connections. Complex system-to-system

116 connections means a lot of work when there are changes in some systems.

117

118 Here we can calculate connections based on number of information systems.

119

120 1×28 member state systems = 28 systems121 5×28 member state systems = 140 systems122 10×28 member state systems = 280 systems123 15×28 member state systems = 420 systems124 20×28 member state systems = 560 systems.125 28×30 member state systems = 840 systems

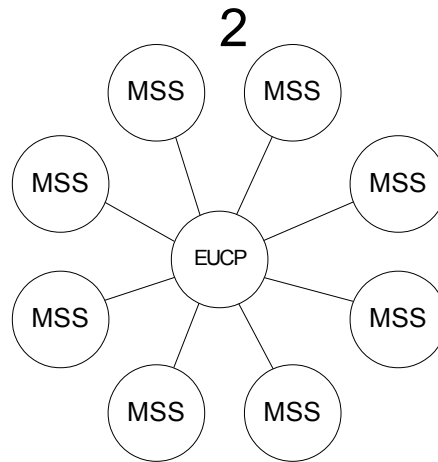
126

Proposal: Complex system-to-system connections implemented in information systems could be assessed carefully.

129

130

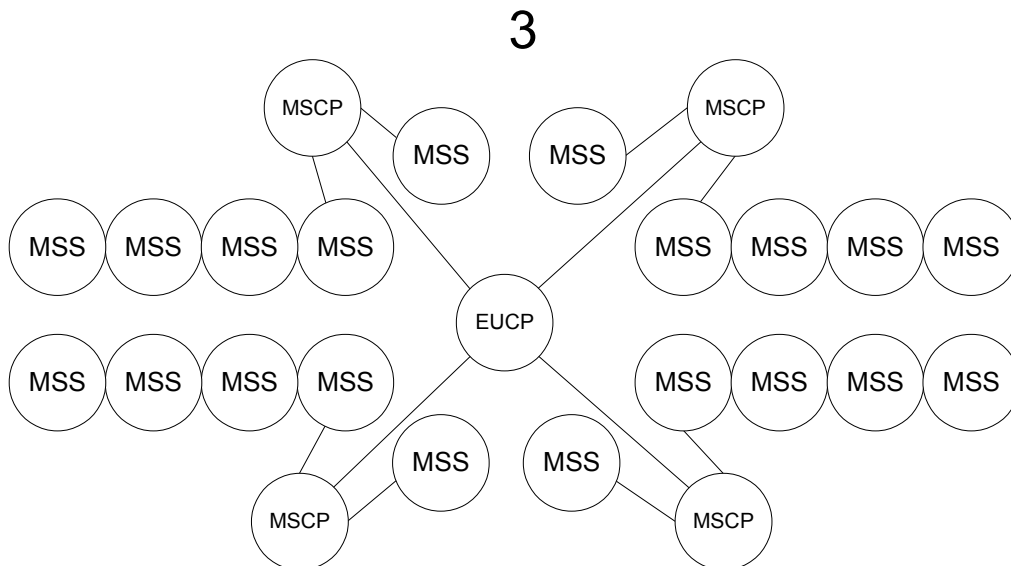
131 [Continues on the next page]



MSS = Member State System
EUCP = European Contact Point

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Naturally there could be direct contacts between different member state systems (MSS) and European Union Contact Point (EUCP). This option (MSS ↔ EUCP) could mean very large number of different member state system. Based on 28 member state systems there could be hundreds of connections. One option is to have a single European contact point for member state systems. Here we can note that there can be hierarchy between different system (EU ↔ member states) and there can be member state contact points (MCP). Then there can be some hierarchy between different systems. (European Union ↔ EUCP ↔ MSCP ↔ MSS ↔ Member State). There are unique situations with member statesystems in member states. Therefore member state contact points (MCP) can reduce the complexity with European Union contact point (EUCP).



MSS = Member State System, MSCP = Member State Contact Point,
EUCP = European Contact Point

146
 147
 148

149

150 Based on those calculations there could be a lot of direct connections to the European contact point.
151 Number of those connections can be overwhelming. The situation between member states can vary
152 in many ways. So there can be different and unique systems between member states.

153

154 I have proposed several times creation of member state contact points which could handle different
155 system-to-system connections at member state level. Then it can be easier to create connections
156 between member state contact points and European contact point.

157

158 **Proposal: There could be one information system (member state contact point, MSCP)**
159 **at member state level.**

160

161 **Proposal: Different member state systems could be consolidated based on limited**
162 **number system-to-system connections (MSCP ↔ MSS).**

163

164 **Proposal: One information system (member state contact point, MSCP) at member**
165 **state level could handle system-to-system connections at the European Union level**
166 **(European contact point) (EUCP ↔ MSCP).**

167

168 **Proposal: There could be some serious work for developing a standardised member**
169 **state contact points (MSCP).**

170

171 **Proposal: After developing a standardised member state contact point (MSCP)**
172 **different member states could consolidate their systems (MSCP ↔ MSS).**

173

174 **Proposal: European Union contact point (EUCP) and member state contact points**
175 **(MSCP) could then handle cooperation (EUCP ↔ MSCP ↔ MSS) at the European**
176 **Union level.**

177

178 Naturally we have to note that developing a standardised member state contact point (MSCP) means
179 more work. On the other hand a standardised member state contact point (MSCP) could handle
180 cooperation (EUCP ↔ MSCP ↔ MSS) based on unique situations in member states. Some member
181 states may have more systems than other member states. We have to note that there are different
182 systems based on several technological solutions.

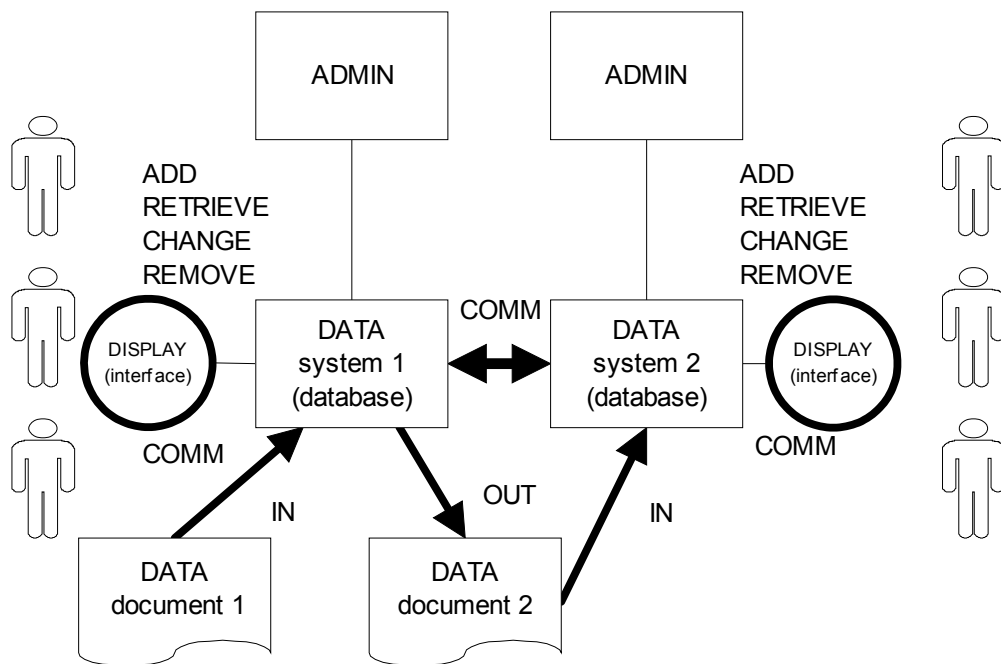
183

184 **One presentation of information system**

185

186 [Continues on the next page]

187



188
189

190 Now we can add four basic functions, communication, displays, interfaces, users, documents, data
191 and databases for describing an information system. Like the figure indicates, there are databases in
192 different information systems. Then there are different documents for transmitting data between
193 different systems. Here we can note especially following standardisation needs for different parts of
194 different parts of an information system.

195

196 Here we can note several basic issues about documents and databases:

- 197 • four basic functions (add, retrieve, change, remove)
- 198 • administration of a system
- 199 • displays and interfaces
- 200 • direct communication between system (data)
- 201 • transferring documents between systems (data).

202

203 Here we can note especially following standardisation needs for different parts of different parts of
204 an information system:

205

206 From this simple (figure) conception we can differentiate several standard classes:

- 207 1) Data (documents) standards
- 208 2) Data (database) standards
- 209 3) Standards for adding data to a system.
- 210 4) Standards for retrieving data from a system.
- 211 5) Standards for changing data in a system.
- 212 6) Standards for removing data from a system.
- 213 7) Display standards
- 214 8) Interface standards

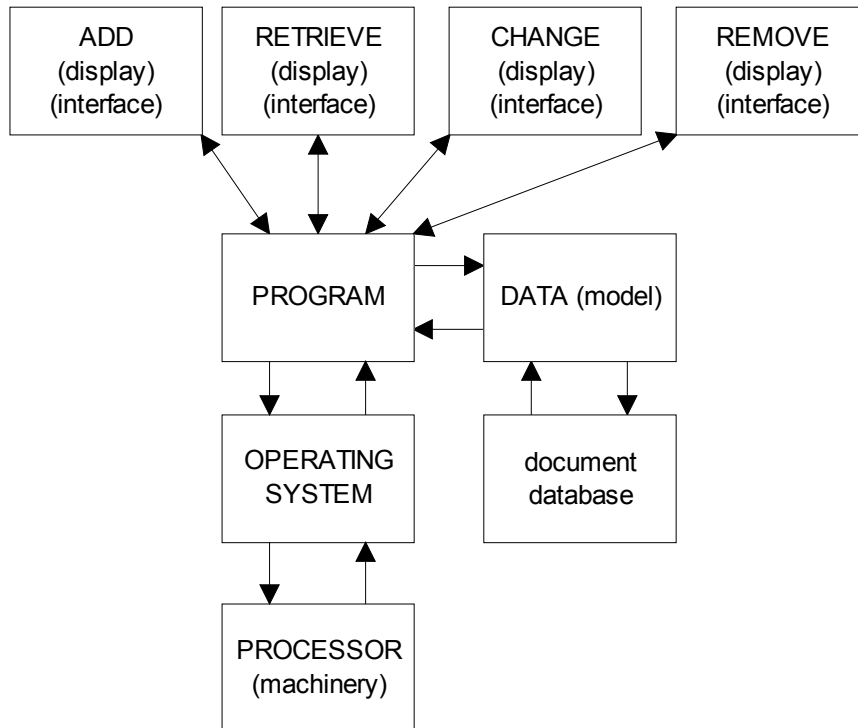
215 9) Different communication standards.

216

217 **One presentation for information system**

218

219 Following figure on the reflection paper is one conception of information system. I have presented
220 the following figure as one conception of information system.



221

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

228

229 **What this means to information systems?**

230

- 231 1) **There can be several processor (machinery) possibilities**
- 232 2) **There can be several operating systems possibilities**
- 233 3) **There can be several programs possibilities**
- 234 4) **Programs handle data in different ways**
- 235 5) **The data can modelled in different ways**
- 236 6) **There can documents and/or databases in different systems**
- 237 7) **There are always four basic functions (add, retrieve, change, remove).**
- 238 8) **There are several providers of different computer programs.**
- 239 9) **There are naturally competing programs.**
- 10) **Different programs comply with different standards.**

240

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

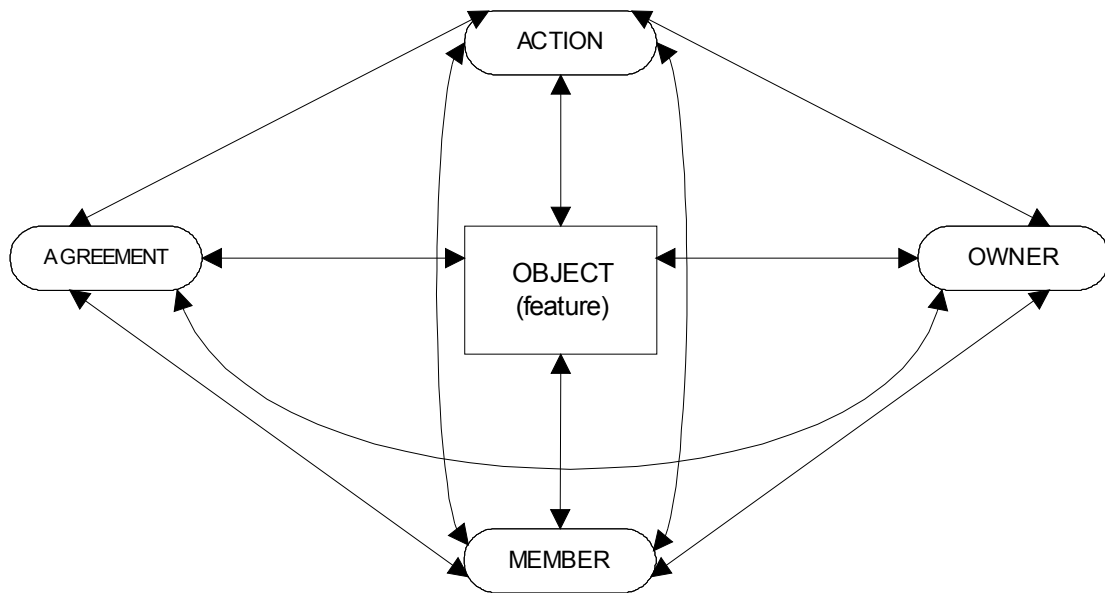
245

246 **There can be some examples:**

247

- 248 a) There could be some regulations for providing interfaces (private, public)
- 249 b) There could be some regulations for document formats (private, public)
- 250 c) There could be some regulations for transmitting data between different systems
- 251 d) There could be some regulations for using databases (private, public)
- 252 e) There could be some regulations for using programs (private, public)
- 253 f) There could be some regulations for retrieving information from different systems.

254



255

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

258

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

263

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

268

	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				

269

270

271

272

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

273

274

275

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

276

277 **About different identifiers (ID)**

278

279 Developing a standardised member state contact point (MSCP) means some work to be done. Here
280 we can note that there will be several *identifiers* when developing new systems and maintaining
281 current systems (EUCP ↔ MSCP).

282

283 I have proposed several times to use *open and public identifiers* when developing different
284 information system.

285

286 **More and more new identifiers (ID)**

287

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

291

292 Examples of these identifiers (ID) are following:

293

294

1) Facebook ID for an individual person

295

2) Facebook ID for the individual updates of individuals

296

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

297

4) Reuters instruments codes (RICs)

298

5) Social security code for individual citizens in the European Union member states

299

6) Business identity code for a company in an European Union member state

300

7) Value added tax code for a company in an European Union member state.

301

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

305

306

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

307

308

309

Proposal: Possible systematic review of different identifiers (ID) should assess different situations.

310

311

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

315

316

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

317

318

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

322

323

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

324

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

328

329

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

330

331

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

332

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

336

337

338 **Different data fields**

339

340 Consultation document contains following text:

341

342 “It will recommend the establishment of a European Electronic Health Record exchange
343 format and will propose a set of common technical specifications for the transfer of health
344 data in chosen categories of health information such as patient summaries and e-
345 prescriptions, and proposing further categories.”

346

347 Some previous opinions are based on proposed data fields. Here we can note that in many cases
348 there has been proposed XML format(s) for transferring data between different systems.

349

350 **Proposal: After this consultation there could be a consultation for assessing different**
351 ***data fields* for Electronic Health Record exchange format.**

352

353 **Proposal: After this consultation there could be a consultation for assessing possible**
354 ***XML formats* for Electronic Health Record exchange format.**

355

356 **NOTE: There are also other formats – not just XML format.**

357

358 Some previous consultations has been organised by ACER (Agency for the Cooperation of Energy
359 Regulators) based on proposing different data fields. Based on those consultations it can be noted
360 that the number of different data fields can be rather large.

361

362 One example can be ClaimReview standard for transferring fact-checking reviews of claims.

363

364 schema.org → ClaimReview

365 Canonical URL: <http://schema.org/ClaimReview>

366

367 Like the ClaimReview standard indicates there are several fields for transferring fact-checking
368 reviews of claims.

369

370

371 **Good luck!!!**

372

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

375

376

377 [Continues on the next page]

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ANNEX 1

My opinions to the previous and relevant consultations – there consultations were mostly organised by the European Commission. General page to all consultations – both in English and in Finnish:

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

My opinions to the previous and relevant consultations – there consultations were mostly organised by the European Commission.

EN: Opinion 1: Review of the rules on access to documents

http://www.jukkarannila.fi/lausunnot.html#nro_1

EN: Opinion 2: Schools for the 21st Century

http://www.jukkarannila.fi/lausunnot.html#nro_2

EN: Opinion 3: The future of pharmaceuticals for Human use in Europe- making Europe a Hub for Safe and Innovative medicines

http://www.jukkarannila.fi/lausunnot.html#nro_3

EN: Opinion 5: Consumer Scoreboard, Questionnaire for stakeholders

http://www.jukkarannila.fi/lausunnot.html#nro_5

EN: Opinion 6: Consultation on a Code of Conduct for Interest Representatives

http://www.jukkarannila.fi/lausunnot.html#nro_6

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 15: Collective Redress

http://www.jukkarannila.fi/lausunnot.html#nro_15

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

- 424 EN: Opinion 19: Official Acknowledgement by the Commission
425 http://www.jukkarannila.fi/lausunnot.html#nro_19
426
- 427 EN: Opinion 20: SECOND Opinion Related to the Public Undertaking by Microsoft
428 http://www.jukkarannila.fi/lausunnot.html#nro_20
429
- 430 EN: Opinion 21: Opinion about the European Interoperability Strategy proposal
431 http://www.jukkarannila.fi/lausunnot.html#nro_21
432
- 433 EN: Opinion 23: Public consultation on the review of the European Standardisation System
434 http://www.jukkarannila.fi/lausunnot.html#nro_23
435
- 436 EN: Opinion 27: Public Consultation on the Modernisation of EU Public Procurement Policy
437 http://www.jukkarannila.fi/lausunnot.html#nro_27
438
- 439 EN: Opinion 28: Consultation on the Europe 2020 Project Bond Initiative
440 http://www.jukkarannila.fi/lausunnot.html#nro_28
441
- 442 EN: Opinion 30: Internet Filtering
443 http://www.jukkarannila.fi/lausunnot.html#nro_30
444 NOTE: Organised by the European Committee for Standardization (CEN) ¹
445
- 446 EN: Opinion 32: COMP/C-3/39.692/IBM – Maintenance services
447 http://www.jukkarannila.fi/lausunnot.html#nro_32
448
- 449 EN: Opinion 34: REMIT Registration Format
450 http://www.jukkarannila.fi/lausunnot.html#nro_34
451 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER) ²
452
- 453 EN: Opinion 35: Exploiting the employment potential of the personal and household services
454 http://www.jukkarannila.fi/lausunnot.html#nro_35
455
- 456 EN: Opinion 37: CASE COMP/39.654 - Reuters instrument codes
457 http://www.jukkarannila.fi/lausunnot.html#nro_37
458
- 459 EN: Opinion 39: Registry options to facilitate linking of emissions trading systems
460 http://www.jukkarannila.fi/lausunnot.html#nro_39
461
- 462 EN: Opinion 40: Media Freedom and Pluralism / audiovisual regulatory bodies
463 http://www.jukkarannila.fi/lausunnot.html#nro_40
464
- 465 EN: Opinion 41: AT.39398: observations on the proposed commitments
466 http://www.jukkarannila.fi/lausunnot.html#nro_41

1 <http://www.cen.eu/> (Accessed 2 July 2012)

2 <http://www.acer.europa.eu/> (Accessed 2 July 2012)

- 467
468 EN: Opinion 42: Opening up Education
469 http://www.jukkarannila.fi/lausunnot.html#nro_42
470
471 EN: Opinion 43: Publication of extracts of the European register of market participants
472 http://www.jukkarannila.fi/lausunnot.html#nro_43
473 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
474
475 EN: Opinion 44: Evaluation policy guidelines
476 http://www.jukkarannila.fi/lausunnot.html#nro_44
477
478 EN: Opinion 45: About ICT standardisation
479 http://www.jukkarannila.fi/lausunnot.html#nro_45
480
481 EN: Opinion 46: Review of the EU copyright rules
482 http://www.jukkarannila.fi/lausunnot.html#nro_46
483
484 EN: Opinion 51: European Area of Skills and Qualifications
485 http://www.jukkarannila.fi/lausunnot.html#nro_51
486
487 EN: Opinion 52: Trusted Cloud Europe Survey
488 http://www.jukkarannila.fi/lausunnot.html#nro_52
489
490 EN: Opinion 53: Trade Reporting User Manual (TRUM) (Draft)
491 http://www.jukkarannila.fi/lausunnot.html#nro_53
492 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
493
494 EN: Opinion 55: European Energy Regulation
495 http://www.jukkarannila.fi/lausunnot.html#nro_55
496 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
497
498 EN: Opinion 59: Green paper on mobile Health
499 http://www.jukkarannila.fi/lausunnot.html#nro_59
500
501 EN: Opinion 60: Cross-border inheritance tax problems within the EU
502 http://www.jukkarannila.fi/lausunnot.html#nro_60
503
504 EN: Opinion 61: European Register of Products Containing Nanomaterials
505 http://www.jukkarannila.fi/lausunnot.html#nro_61
506
507 EN: Opinion 64: Corporate Social Responsibility - European Commission
508 http://www.jukkarannila.fi/lausunnot.html#nro_64
509
510 EN: Opinion 66: Net Innovation for the Work Programme 2016-2017
511 http://www.jukkarannila.fi/lausunnot.html#nro_66

- 512
513 EN: Opinion 68: European Network Code Stakeholder Committees
514 http://www.jukkarannila.fi/lausunnot.html#nro_68
515 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
516
517 EN: Opinion 71: Common Schema for the Disclosure of Inside Information
518 http://www.jukkarannila.fi/lausunnot.html#nro_71
519 NOTE: Organised by The Agency for the Cooperation of Energy Regulators (ACER)
520
521 EN: Opinion 74: Enabling the Internet of Things
522 http://www.jukkarannila.fi/lausunnot.html#nro_74
523 NOTE: Organised by Body of European Regulators for Electronic Communications (BEREC) ³
524
525 EN: Opinion 80: Mandatory Transparency Register
526 http://www.jukkarannila.fi/lausunnot.html#nro_80
527
528 EN: Opinion 84: Revision of the European Interoperability Framework
529 http://www.jukkarannila.fi/lausunnot.html#nro_84
530
531 EN: Opinion 86: 2016 Annual Colloquium on fundamental rights
532 http://www.jukkarannila.fi/lausunnot.html#nro_86
533
534 EN: Opinion 88: Evaluation and Review of the ePrivacy Directive
535 http://www.jukkarannila.fi/lausunnot.html#nro_88
536
537 EN: Opinion 89: BEREC Guidelines for net neutrality rules
538 http://www.jukkarannila.fi/lausunnot.html#nro_89
539 NOTE: Organised by Body of European Regulators for Electronic Communications (BEREC)
540
541 EN: Opinion 93: Safety of apps and other non-embedded software
542 http://www.jukkarannila.fi/lausunnot.html#nro_93
543
544 EN: Opinion 95: Targeted consultation on eForms
545 http://www.jukkarannila.fi/lausunnot.html#nro_95
546
547 EN: Opinion 97: COM(2016) 882 final - 2016/0408 (COD)
548 http://www.jukkarannila.fi/lausunnot.html#nro_97
549
550 EN: Opinion 98: Opinions related to six (6) co-decision (COD) proposals
551 http://www.jukkarannila.fi/lausunnot.html#nro_98
552
553 EN: Opinion 99: COM(2016)0863 - European Union Agency for the Cooperation of Energy
554 Regulators. Recast
555 http://www.jukkarannila.fi/lausunnot.html#nro_99

³ <http://www.berec.europa.eu>, Body of European Regulators for Electronic Communications (BEREC)

- 556
557 EN: Opinion 100: Protection of personal data (EU)
558 http://www.jukkarannila.fi/lausunnot.html#nro_100
559
560 EN: Opinion 101: Governance of the Energy Union
561 http://www.jukkarannila.fi/lausunnot.html#nro_101
562
563 EN: Opinion 102: Smart Wearables
564 http://www.jukkarannila.fi/lausunnot.html#nro_102
565
566 EN: Opinion 106: Review of the European Union Agency for Network and Information Security
567 (ENISA)
568 http://www.jukkarannila.fi/lausunnot.html#nro_106
569
570 EN: Opinion 108: Single Digital Gateway
571 http://www.jukkarannila.fi/lausunnot.html#nro_108
572
573 EN: Opinion 110: Technical arrangements / Information systems / Union Customs Code
574 http://www.jukkarannila.fi/lausunnot.html#nro_110
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576 EN: Opinion 111: Interoperability of information systems for migration and security
577 http://www.jukkarannila.fi/lausunnot.html#nro_111
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579 EN: Opinion 113: Transform of health and care
580 http://www.jukkarannila.fi/lausunnot.html#nro_113
581
582 EN: Opinion 114: Premium content on ECS markets and the effect of devices on the open use of the
583 Internet
584 http://www.jukkarannila.fi/lausunnot.html#nro_114
585 NOTE: Organised by Body of European Regulators for Electronic Communications (BEREC)
586
587 EN: Opinion 118: Fake news and online disinformation
588 http://www.jukkarannila.fi/lausunnot.html#nro_118
589
590 EN: Opinion 119: European Social Security Number
591 http://www.jukkarannila.fi/lausunnot.html#nro_119
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593 EN: Opinion 120: European Labour Authority
594 http://www.jukkarannila.fi/lausunnot.html#nro_120
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596 EN: Opinion 121: 2nd Data Package
597 http://www.jukkarannila.fi/lausunnot.html#nro_121
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602 EN: Opinion 122: Proposal to create a cybersecurity competence network with a European

603 Cybersecurity Research and Competence Centre

604 http://www.jukkarannila.fi/lausunnot.html#nro_122

605

606 EN: Opinion 123: Proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF

607 THE COUNCIL on the re-use of public sector information (recast)

608 http://www.jukkarannila.fi/lausunnot.html#nro_123

609

610 EN: Opinion 125: Security of identity cards of Union citizens and of residence documents

611 http://www.jukkarannila.fi/lausunnot.html#nro_125

612

613 EN: Opinion 128: Summertime arrangements

614 http://www.jukkarannila.fi/lausunnot.html#nro_128

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619 My opinions to the previous and relevant consultations – there consultations were mostly organised

620 by the European Commission. General page to all consultations – both in English and in Finnish:

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

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624 [Continues on the next page]

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