

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

European Commission
Directorate-General for Informatics
DIGIT/01 - European eGovernment services (IDABC)
B-1049 Brussels

PUBLIC CONSULTATION ON EUROPEAN INTEROPERABILITY STRATEGY

First of all, it is important that IDABC unit has given a public and fair possibility to comment the European Interoperability Strategy (EIS) proposal.

This Opinion does not contain any business or trade secrets.

This Opinion is public and can be published in the dedicated web site of the consultation results.

Annex 1 holds information of copyright, licence and disclaimer.

Best Regards,

Jukka Rannila
citizen of Finland

signed electronically

34

35 **Question Group 1**

36

37 Questions:38 a) How to raise awareness on interoperability and on the link between interoperability,
39 European Public Services and the successful implementation of EU policies?

40 b) Whom to address and how?

41

42 My Opinion to Question Group 1

43

44 I separate some groups, which could be influential to raise awareness of interoperability:

45

46 1. national IT experts associations

47 2. think tanks

48 3. parliamentary committees responsible for IT matters

49 4. joint meetings/seminars for political party activists.

50

51 1.

52 To my mind, members of national IT experts associations can provide valuable feedback,
53 when dealing with technical matters related to interoperability. First of all, it can be said that
54 national IT experts associations crave for interesting seminars/workshops for their members.
55 It is also possible to distribute electronic questionnaires to members of national IT experts
56 associations.

57

58 National IT experts associations and their members can provide valuable information of
59 market situation and future development, if the possible electronic questionnaires are well
60 defined.

61

62 My analysis is, that many IT experts are willing to contribute to these questionnaires, since
63 they are interested in reducing wasteful spending related to the information systems in
64 Member States and in the European Union.

65

66 2.

67 There is a wide variety of different think tanks. Fact of the matter is that (so called) new
68 ideas disperse to political process through different think tank publications. Generally
69 speaking, politicians are the last resource for new ideas. And in practical matters, it
70 sometimes safer for politicians, if a new (so called) idea is proposed to the general public
71 discussion by someone else than a politician.

72

73 It is of course unfortunate, that politicians are the last resource for new ideas, but we have to
74 live with the situation. With think tanks there are always some ethical problems, but we have
75 to live with the situation.

76

77 In practical terms, interoperability can be endorsed in different meetings/seminars, which are
78 organised by think tanks. If interoperability is viewed as an important topic, there will be

79 policy briefs about interoperability. When there are policy briefs about interoperability,
80 politicians and other stakeholders can grasp to these “new” ideas.

81

82 3.

83 Since politicians are the last resource for new ideas, there must idea presentation
84 meetings/seminars for parliamentary committees responsible for IT matters. In practical
85 terms the content of the meetings/seminars must be so compelling, that there is wide interest
86 to participate to these meetings/seminars.

87

88 Also it should be noted, that these meetings/seminars should be open for general public, and
89 meetings/seminars should be archived to the information networks (e.g. internet).

90

91 4.

92 Joint meetings/seminars for political party activists are worth considering, since generally
93 speaking political parties crave for interesting seminars/workshops for their members; in
94 practical terms annual compulsory administrative meetings are not always highly valued,
95 and there is need for interesting seminars/workshops accompanied to these meetings.

96

97

98 [Continues on the next page]

99

100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120

121
122
123
124
125
126
127
128
129
130

Question Group 2

Questions:

- a) How to improve semantic interoperability?
- b) How to ensure the active participation of all relevant stakeholders in the process?
- c) When to go for formal standardisation?

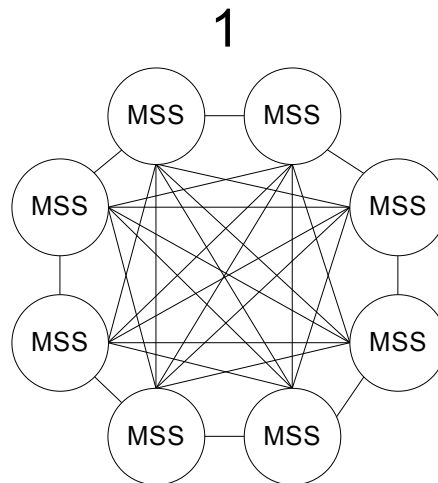
My Opinion to Question Group 2

First of all there are at least three ways to have (semantic) interoperability:

- 1. system-to-system interoperability
- 2. system-to-integrator interoperability
- 3. integrator-to-integrator interoperability.

1.

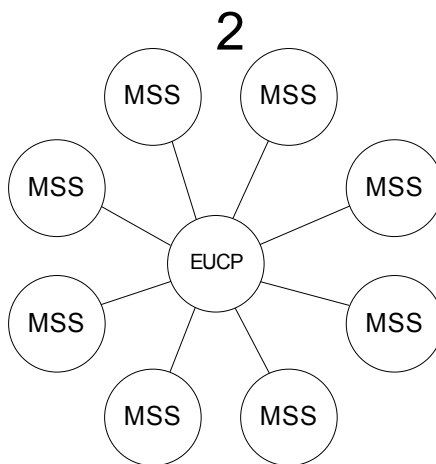
The first situation would be that all Member State systems (MSS) would be integrated to in system-to-system solution. We can give the following simplified figure to describe this situation.



In this scenario all Members States Systems (MSSs) would be integrated one-to-one. Without going to details, it can be said, that this solution would be the most cumbersome and least efficient solution.

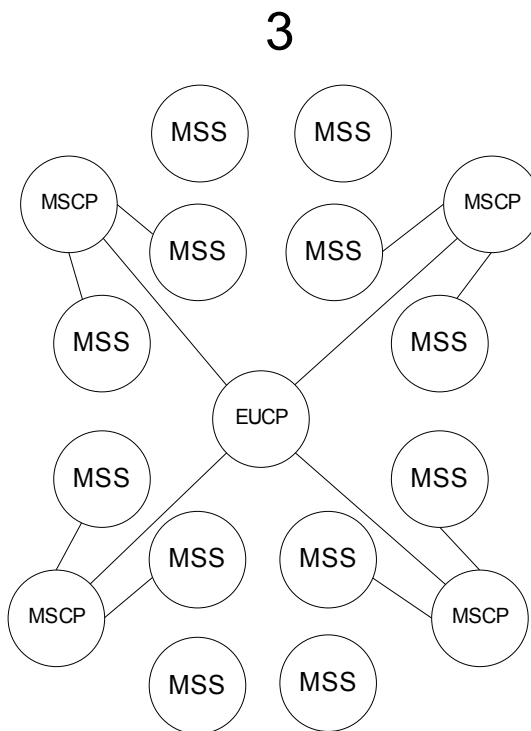
2.

The next solution would be that there is a an integrating connection point, which we call European Contact Point (EUCP). The problem with this solution is, that there would be enormous amount of integration solutions for this European Contact Point (EUCP).



131
132
133
134
135

3.
Therefore we present the integrator-to-integrator interoperability as a feasible solution.



136
137
138
139
140
141
142

MSS = Member State system
MSCP = Member State Contact Point
EUCP = European Contact Point

So, there is Member State Connect Point (MSCP), which integrates member state systems

143 (MSSs), and this Member State Connect Point (MSCP) integrates to the European Contact
144 Point (EUCP).

145
146 In reality there are a huge collection of different Member State Systems (MSSs), which are
147 constructed with wide variety of technologies. Therefore it more feasible, that Member State
148 Systems (MSSs) are made to interoperate first, since it easier to have integrator-integrator
149 connection afterwards.

150
151 Standards? - Did I mention Standards? Interoperability is impossible without standards. This
152 will lead us to the following possibilities:

- 153
- 154 1. Member states agree on EU-wide (semantic) interoperability standard(s).
 - 155 2. Member states agree on using an existing standard.
 - 156 3. Member states agree on creating an EU variant of an existing standard.
 - 157 4. Member states apply for creation of a standard to standards developing
158 organisation.

159
160 1.
161 One way is, that member states agree on EU-wide (semantic) interoperability standard(s).
162 The problem is, that possible and better global standards may evolve during unforeseen
163 future, and EU-wide standards may constitute severe problems afterwards.

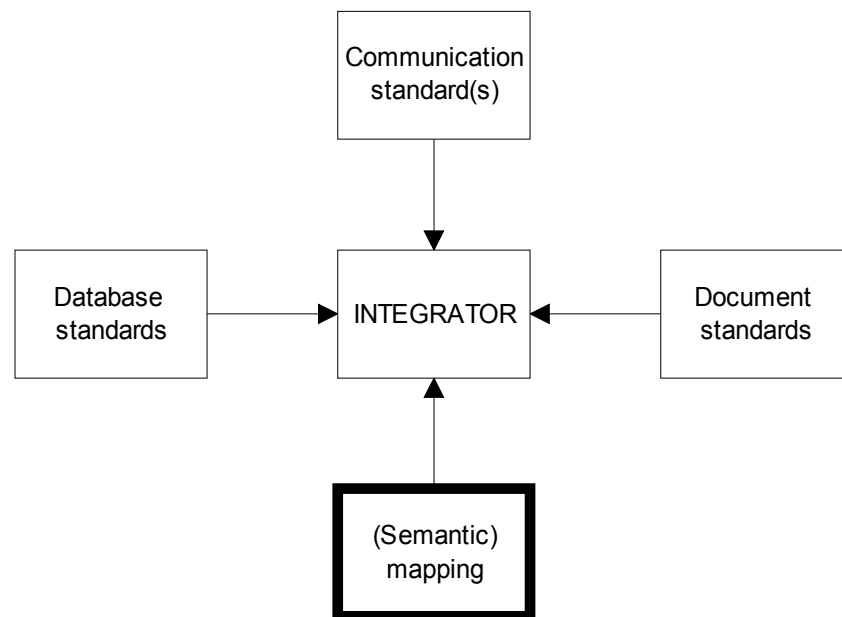
164
165 2.
166 An easy way is to accept an existing standard. The problem with these are, that market
167 situation may change, and afterwards the selected standard is obsolete and it is a
168 cumbersome problem.

169
170 3.
171 A EU-wide variant of a (semantic) interoperability standard may be a short-sighted solution,

172
173 4.
174 Creation of totally new standard(s) is very tedious, since standardisation of information
175 technology requires unimaginable level of detail. Therefore applying for creation of a
176 standard can mean years of development.

177
178 Faced with these dilemmas, we need some other solutions.

179
180 In the following figure there is a simplification of the solution.
181



182
183

184 The practical reality is, that most certainly there will be wrong selections for standards, and
185 therefore in the integration solution there must be a possibility to adapt new standards
186 afterwards.

187

188 The main issue is to select an integration solution, which can

- 189 – can add database standards after initiation of the integration system
- 190 – can add document standards after initiation of the integration system
- 191 – can add communication standards after initiation of the integration system.

192 There are several open source and closed source integration solutions in the market.

193

194 The only certain thing is, that there is need for (semantic) mapping of different systems.

195

196 The answer(s)??? There is no single answer, what to do with (semantic) interoperability
197 standards. The only way is to assess the situation with large enough amount of stakeholders.

198

199 The solution??

200

201 The most feasible solution to my mind is to have **written agreements with different**
202 **stakeholders**, that they are committed to provide feedback to different standards, when
203 these standards are evaluated during (integration) system development. There could be
204 following groups:

- 205 – governmental units
- 206 – companies
- 207 – trade/business associations
- 208 – IT experts associations
- 209 – members of academia

210 – private persons.
211 For governmental units, companies and trade/business associations it could be said, that they
212 can take care of their own costs, since they have vested interests with standards.
213
214 For academia and private persons there could be some compensation measures, since private
215 persons and academia may not have similar resources as governmental units, companies and
216 trade/business associations.
217
218 I have been thinking, that possibly members of academia and private persons could formally
219 apply as officially committed stakeholder with written agreement. It is matter of evaluating
220 credentials of these members of academia and private persons; i.e. if they are really capable
221 to evaluate highly complicated information technology standards. In the case of some
222 complicated standard, the amount of work is considerable and is not well-respected work.
223
224 Of course there should be the normal public possibility to all interested stakeholders to take
225 part in consultations, even if there is not the written agreement(s).
226
227
228 [Continues on the next page]
229

230

231 **Question Group 3**

232

233 Questions:234 a) How to create favourable conditions for the sharing of the information available in the
235 base registers maintained today for public administration purposes?

236 b) How to allow wider use of this information while ensuring security and privacy?

237

238 My Opinion to Question Group 3

239

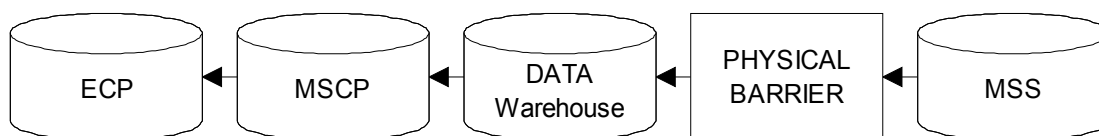
240 The main issue here is to make differentiation with the following:

241 – operational systems

242 – data warehouse systems.

243 The best way to keep things simple is to have a physical barrier between these two system
244 information system classes.

245



246

247

248 ECP = European Contact Point

249 MSCP = Member State Contact Point

250 MSS = Member State System.

251

252 In reality it is too risky to combine several operating systems from several member states,
253 and therefore there must be separate Data Warehouse Systems, which are totally separate
254 from the operational Member State System.

255

256 When thinking ensuring security and privacy, the best way is to have a physical barrier,
257 since **all electronic barriers are very prone to defects, electronic warfare, malicious**
258 **behaviour, etc.**

259

260 In practical reality it is sometimes easy or relatively easy to extract and “purify” data from
261 operational systems. This “purified” data can be transferred to the data warehouse system,
262 e.g. with data tape transfer.

263

264 Therefore I recommend that only needed operational (base) systems are joined together, and
265 other systems are based on these Data Warehouse Systems with a physical barrier to the
266 operational system. Physical barriers are not that prone to defects, electronic warfare,
267 malicious behaviour, etc.

268

269 [Continues on the next page]

270

271 **Question Group 4**

272

273 Questions:

274

a) How to work towards a European catalogue of public services?

275

b) How can such catalogue foster interoperability and the creation of new cross-border and cross-sectoral public services?

276

277

c) Can best practice examples of comparable scope and complexity be found that can be taken as inspiration?

278

279

280

My Opinion to Question Group 4

281

282

The best way for public service directory is to have a list of usable public data sources. What

283

this means?

284

285

People, organisations, etc. are generally speaking very lazy and poorly motivated to add anything to the information systems. There are some exceptions, e.g. so called social media. However, there is always more motivation to use previously added data.

286

287

288

289

The public data source should consist of following:

290

– general description of the data source

291

– clarification of retrieving data with different communication methods

292

– highly detailed technical descriptions of ways of getting data from the data source.

293

294

295

Marketing, management, etc. general functions prefer general guidelines, but real implementation needs those highly detailed technical descriptions.

296

297

298

There could be following possibilities:

299

– use of data source without registration

300

– use of data source with registration

301

– use of data source based on monetary fee.

302

303

When there is possibility to use these usable public data sources, different applications can be created. The data must be there before any applications.

304

305

306

When there is applications, they can be collected to the same registry of public data sources.

307

308

Simple. The data must be there before any applications.

309

310

[Continues on the next page]

311

311

312
313
314
315
316
317
318
319
320
321
322
323
324

Question Group 5

Questions:

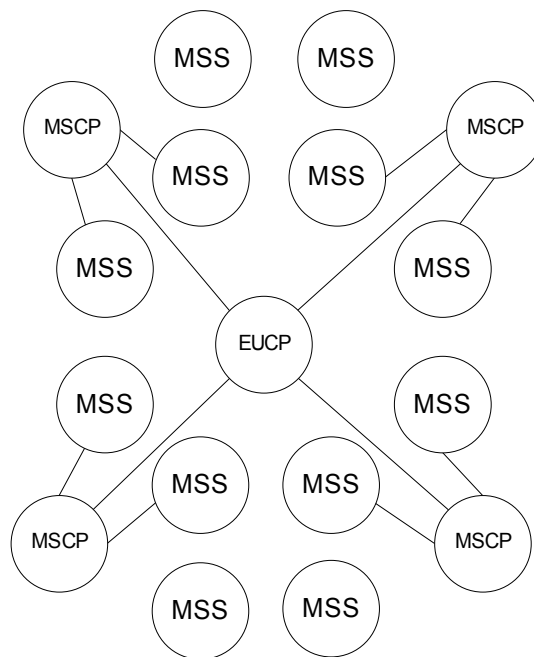
- a) What could be the scope of a European interoperability architecture?
- b) How far should such architecture be supported by common infrastructure?

My Opinion to Question Group 5

This answer combines previously mentioned thoughts together.

Therefore we present the integrator-to-integrator interoperability as a feasible solution.

3



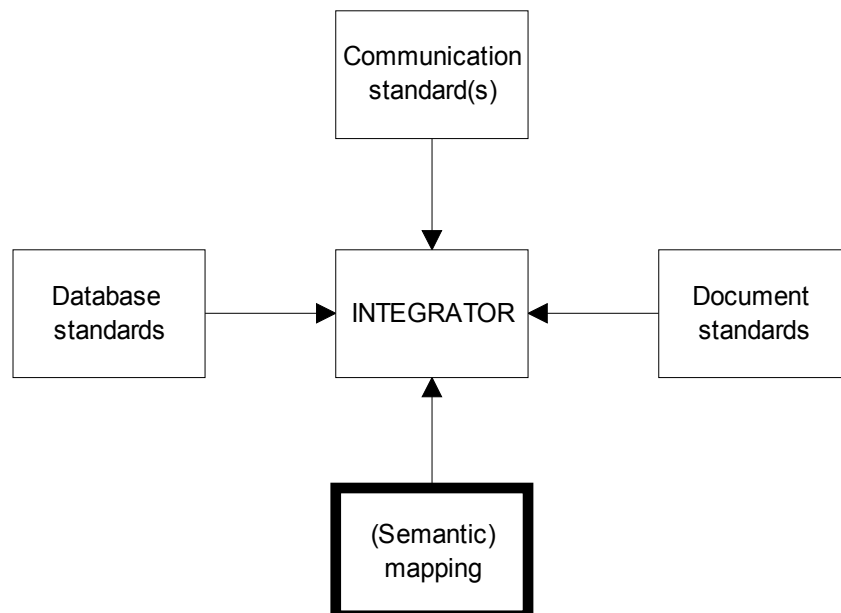
325
326
327
328
329
330
331
332
333
334
335
336

MSS = Member State system
MSCP = Member State Contact Point
EUCP = European Contact Point

So, there is Member State Connect Point (MSCP), which integrates member state systems (MSSs), and this Member State Connect Point (MSCP) integrates to the European Contact Point (EUCP). In reality there are a huge collection of different Member State Systems (MSSs), which are constructed with wide variety of technologies. Therefore it more feasible, that Member State Systems (MSSs) are made to interoperate first, since it easier to have integrator-integrator connection afterwards.

337
338
339

In the following figure there is a simplification of the solution.



340
341

The practical reality is, that most certainly there will be wrong selections for standards, and therefore in the integration solution there must be a possibility to adapt new standards afterwards.

345
346

So?

347
348
349

The main focus should be ensuring that integration-to-integration solutions work well between European Union Contact Point and Member State Contact Points.

350

The main task for EU-wide integrator solution is to ensure following:

351

- database standards can be added later
- document standards can be added later
- communication standards can be added later.

352

353

354

355

And the main task is to work on mappings, which ensure that there is coherent information from different separate systems.

356

357

358

[Continues on the next page]

359

360

361 **Question Group 6**

362

363 Questions:

364 a) How to work towards a European catalogue of re-usable architectural building blocks?

365 b) Who should be allowed, and under what conditions, to contribute to such catalogue?

366 c) Who should be allowed, and under what conditions, to re-use the architectural building
367 blocks listed in such catalogue?368 d) Can best practice examples of comparable scope and complexity be found that can be
369 taken as inspiration?

370

371 My Opinion to Question Group 6

372

373 The best way for public service directory is to have a list of usable public data sources. What
374 this means?

375

376 People, organisations, etc. are generally speaking very lazy and poorly motivated to add
377 anything to the information systems. There are some exceptions, e.g. so called social media.
378 However, there is always more motivation to use previously added data.

379

380 The public data source should consist of following:

- 381 – general description of the data source
- 382 – clarification of retrieving data with different communication methods
- 383 – highly detailed technical descriptions of ways of getting data from the data
384 source.

385

386 There could be following possibilities:

- 387 – use of data source without registration
- 388 – use of data source with registration
- 389 – use of data source based on monetary fee.

390

391 When there is possibility to use these usable public data sources, different applications can
392 be created. When there is applications, they can be collected to the same registry of public
393 data sources. Simple. The data must be there before any applications.

394

395 Now we can have the following table.

396

	OWN DATA	OPEN DATA	BUY DATA
OWN USAGE	Private	Gift	Private
OPEN USAGE	Donation	Public Domain	n/a
BUY USAGE	Private Data Service	Subsidised Data Service	Private Data service

397

398 As can be seen from the table, open data is our concern. As mentioned earlier persons,

399 organisations, etc. are very eager to use previously added data, not so eager to add data to
400 information systems.

401

402 This question group is quite easy.

403 i) When there is open data, it should be possible to anyone use the data and
404 propose different computer-based solutions for European catalogue.

405 ii) When there is partly/wholly subsidised service, proposing different computer-
406 based solutions should be based on registration.

407

408 [Continues on the next page]

409

410

411 **Question Group 7**

412

413 Questions:

414 a) How to reach, via our collaborative platforms all stakeholders who need to work together
415 around interoperability, sharing and re-use within the context of the establishment of
416 European public services?

417 b) How to work together with similar initiatives elsewhere?

418

419 My Opinion to Question Group 7

420

421 These questions are answered in answers 5 and 6.

422

423

ANNEX 1

424 DISCLAIMER

425

426 Legal disclaimer:

427

428 All opinions in this opinion paper are personal opinions and they do not represent opinions of any legal
429 entity I am member either by law or voluntarily. This opinion paper is only intended to trigger thinking and it
430 is not legal advice. This opinion paper does not apply to any past, current or future legal entity. This opinion
431 paper will not cover any of the future changes in this fast-developing area. Any actions made based on this
432 opinion is solely responsibility of respective actor making those actions.

433

434 Political disclaimer:

435

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

439

440 These opinions are not meant to be extreme-right, moderate-right, extreme-centre ¹, moderate-centre,
441 extreme-left or moderate-left. They are only opinions of an individual whose overall thinking might or might
442 not contain elements of different sources. These opinions do not reflect past, current or future political
443 situation in the Finnish, European or worldwide politics.

444

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

446

447 Content of web pages:

448

449 This text may or may not refer to web pages. The content of those web pages is not responsibility of author
450 of this document. They are referenced on the date of this document. If referenced web pages are not found
451 after the date when this document is dated that situation is not responsibility of the author. All changes done
452 in the web pages this document refers are sole responsibility of those organisations and individuals
453 maintaining those web pages. All illegal content found on the web pages referenced is not on the
454 responsibility of the author of this document and producing that kind content is not endorsed by the author of
455 this document.

456

457 COPYRIGHT

458

459 This opinion paper is distributed under Creative Commons licence, to be specific the licence is “Creative
460 Commons Attribution-NoDerivs-NonCommercial 1.0 Finland”. The text of the licence can be obtained from
461 the following web page:

462

<http://creativecommons.org/licenses/by-nd-nc/1.0/fi/legalcode>

464

465 The English explanation is in the following web page:

466

<http://creativecommons.org/licenses/by-nd-nc/1.0/fi/deed.en>

468

1 Based on the Finnish three-party system there is phenomenon called extreme-centre in Finland.