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4 ACER – Agency for the Cooperation of Energy Regulators

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8 Public Consultation: REMIT Registration Format / Public Consultation Paper (PC\_2012\_R\_08)

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10

11 OPINION RELATED TO THE REMIT REGISTRATION FORMAT

12

13 First of all, thanks for ACER (Agency for the Cooperation of Energy Regulators) organising  
14 this very interesting public consultation.

15

16 Energy market integrity and transparency is very important issue and it has straight  
17 consequences to private citizens.

18

19

20 This opinion represents an opinion of an individual citizen, not any legal entity.

21

22 This opinion does not contain:

23 – any business secrets

24 – any trade secrets

25 – any confidential information.

26

27 This opinion is public.

28

29 Annex 1 holds information about disclaimers and copyright.

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32

33 Best Regards,

34

35

36

37 Jukka Rannila

38 citizen of Finland

39

40 signed electronically

41

42 **1. General / Publication of the REMIT registration format**

43

44 It is possible, that ACER has not yet issued a request for quotations (RFQ) for the new information  
45 system, which would handle registrations based on REMIT registration format.

46

47 (REMIT, Pursuant to Article 9(3) of Regulation (EU) No 1227/2011 of the European Parliament and  
48 of the Council of 25 October 2011 on wholesale energy market integrity and transparency).

49

50 It is possible, that after publication of the REMIT registration format on 29 June 2012, there will be  
51 some actions in ACER to start a procurement process for a new information system. This is not  
52 clearly stated in the consultation paper (PC\_2012\_R\_08).

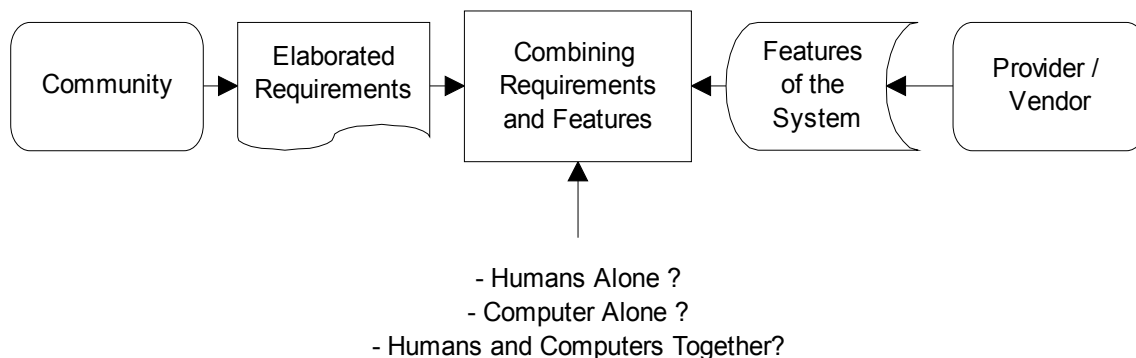
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54 In general, consultation about the REMIT registration format is important, since many actions in a  
55 possibly new information system will be based on actual registration information.

56

57 **2. General / Relations with requirements and features**

58



59

60

61 It can be said, that ACER is now a community for elaborating different requirements to a new  
62 information system. The new information system features should conform to the requirements.

63

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

67

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

71

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

73

1) discovery

74

2) specification

75

3) validation and verification.

76 In the traditional terms it can be said that this consultation of the REMIT registration format is  
77 specifying different requirements for a new information system.

78

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

83

84 Jarke et al. (2011) propose (table 4 in the article) some new requirements practices, based on the  
85 new principles:

86

New RE principle	Potential new practices
Intertwine requirements and contexts	SG 1—develop context requirements SP 1.1—elicit context domain model SP 1.2—develop context-product requirements
Evolve designs and ecologies	SG 2—manage requirements in context SP 2.1—monitor and evolve customer requirements SP 2.2—monitor and evolve context requirements SP 2.3—monitor product satisfaction of requirements (continuous validation)
Manage through architectures	SG 3—manage architectural requirements SP 3.1—specify architectural styles SP 3.2—specify product line requirements SP 3.3—analyze support of evolutionary in architectural requirements
Recognize and mitigate against design complexity	SG 4—manage design complexity SP 4.1—identify requirements that contribute to increased design complexity SP 4.2—analyze requirements to achieve a balance between design complexity and customer satisfaction

87

88 It can be said, that these new potential requirements practices needs to be tested, since the previous  
89 work on requirements has not resulted a lot of verified successes.

90

### 91 **3. General / Who will be the expert – in which context?**

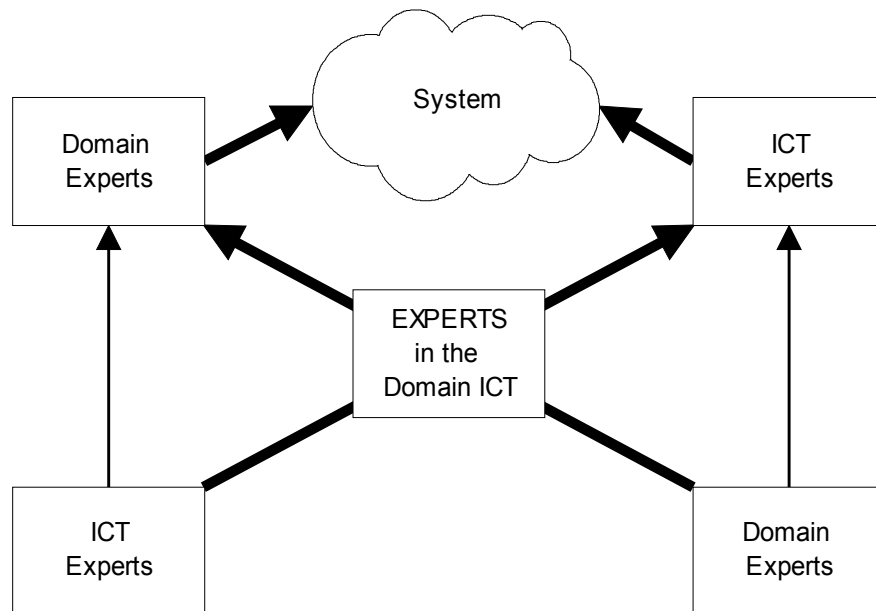
92

93 Like Jarke et al. (2011) describe, one of the prevailing models is, that requirements engineers come  
94 outside the community and then they “find and document” different requirements. In practical  
95 reality this does not work and requirements are not elicited, specified, validated and verified well  
96 enough.

97

98 My proposal is, that traditional roles of ICT experts and domain experts should be altered in many

99 ways. I have tried to explain the idea in the following figure.  
100



101  
102

103 In practical reality ICT experts try to become domain experts, since they are total newcomers in  
104 many situations. What is the problem in this approach? In some domains it will take some years to  
105 become a real expert in some domain.

106

107 On the other hand many domain experts are total newcomers in the many situations. Even though  
108 many domain experts use ICT every day, the understanding of inner workings of different ICT  
109 solutions is very limited.

110

111 What we need? Naturally we need experts in the domain ICT. How could this possibly achieved?  
112 My conclusion is that we need some blurring of ICT knowledge and domain knowledge in very  
113 straightforward way. My proposal is something like this:

114

- 115 1. Domain experts/engineers give education to the ICT experts
- 116 2. ICT experts/engineers give education to the domain experts/engineers.

117

118 My humble opinion is, that in some cases acquiring the needed knowledge in some domain can take  
119 several years, and ICT experts can not learn everything in a certain domain. On the other hand, I  
120 think that pure ICT skills can be learned faster than many specialised skills in different domains.

121

122 What we are missing, is the format for doing this two-stage education process, which can take some  
123 time – e.g. several weeks in some cases.

124

125 My proposal is, that after this education process there can be a lead requirements engineer, who can  
126 successfully navigate in the requirements jungle in a specific domain. This lead requirements

127 engineer should be accompanied with another requirements engineer, who can navigate in the  
128 requirements jungle of ICT solutions.

129

130 Therefore my proposal for the whole REMIT system is following:

131

- 132 1. Specify the registration format as planned
- 133 2. Plan the ICT procurement process
- 134 3. Select suitable persons for giving domain education for ICT experts
- 135 4. Select suitable persons for giving general ICT education for domain experts
- 136 5. Proceed with the ICT procurement process.

137

138 It can be said in the procurement process documents, that certain education will be provided by  
139 domain experts and ICT experts. With the current information I have, I would not recommend the  
140 traditional ICT procurement process, since it is not resulting best possible results.

141

142 The Standish Group International (1995a, 1995b, 1999, 2001) has published the famous CHAOS  
143 reports, which indicate a large amount of ICT failures in several fields. Naturally, those CHAOS  
144 reports has been presented badly or misunderstood. Haigh (2001, 2006) gives us another view for  
145 ICT failures from a longer time period.

146

147 IN short, the REMIT information system can be heading for a ICT failure, and the real ICT success  
148 of the REMIT information system can take some years after some rework and redirections – just  
149 referring to the success rate in the before mentioned CHAOS reports.

150

151 **Basic premise / ACER should own the source code of the REMIT information system**

152

153 Sledgianowski, Tafti and Kierstead (2008) provide an example of an self-developed enterprise  
154 system for a specialised SME (small and medium enterprises). The main conclusion, which I  
155 conclude, is the source code ownership of the procuring legal entity.

156

157 The normal situation is, that the procuring legal entity does NOT own the source code of an  
158 information system. This wrong ownership of the source code of an information system lead to  
159 numerous problems.

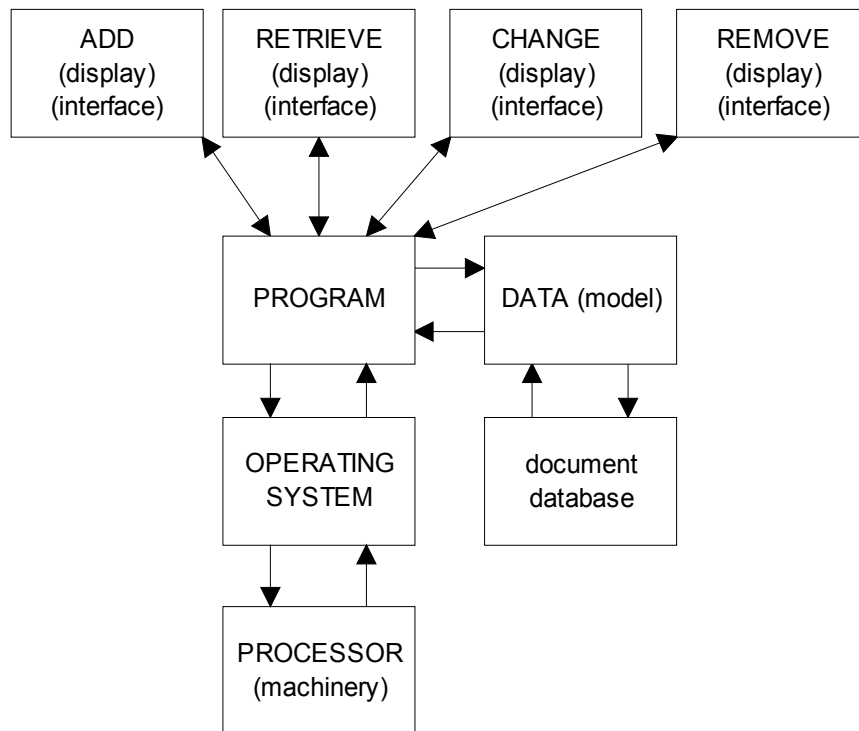
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161 **A simplification of ICT**

162

163 In the following figure there is one simplification of ICT.

164



165  
166

167 It can be said, that REMIT registration format is about the data model for the REMIT information  
168 system. The actual data is processed with documents and/or databases.

169

170 What I would recommend as the minimum solution:

171

- 172 – ACER owns the database of the REMIT information system
- 173 – ACER owns the source code of the program behind the REMIT information system

174

175 The maximum solution would be following:

- 176 – ACER owns the machinery and processor of the information system
- 177 – the machinery and processor are based on relevant open standards
- 178 – the operating system is based on an open-source solution
- 179 – ACER owns the source code of the information system
- 180 – ACER owns the database of the information system
- 181 – the database is based on open-source solution and on relevant open standards.

182

183 Naturally, the maximum solution might not be select as the preferred solution.

184

185 What would be the advantages of the maximum solution?

186

- 187 – the operator for machinery and processor can be selected based on skills and not on  
188 lock-in for certain technology

- 189 – operating system can be maintained by an operator, which is not locked in certain
- 190 technology
- 191 – source code developers can be hired in irregular basis since the source code would be
- 192 owned by ACER
- 193 – open technologies mean that operators could be certified professionals.

194  
195 In practical terms it can be said, that ICT people are divided to three camps:

- 196
- 197 • information systems are owned by providers
- 198 • information systems are owned by the customers
- 199 • information system are developed in an open environment.

200  
201 On the other hand it is quite clear that there will not be several hundred thousands installations of

202 the REMIT information system – there will be only one REMIT system and therefore it is better

203 that ACER owns all relevant parts of the REMIT information system.

204  
205 Naturally ACER can use technologies, which are developed in an open environment, but these open

206 technologies can be the base for actual solutions with direct ownership.

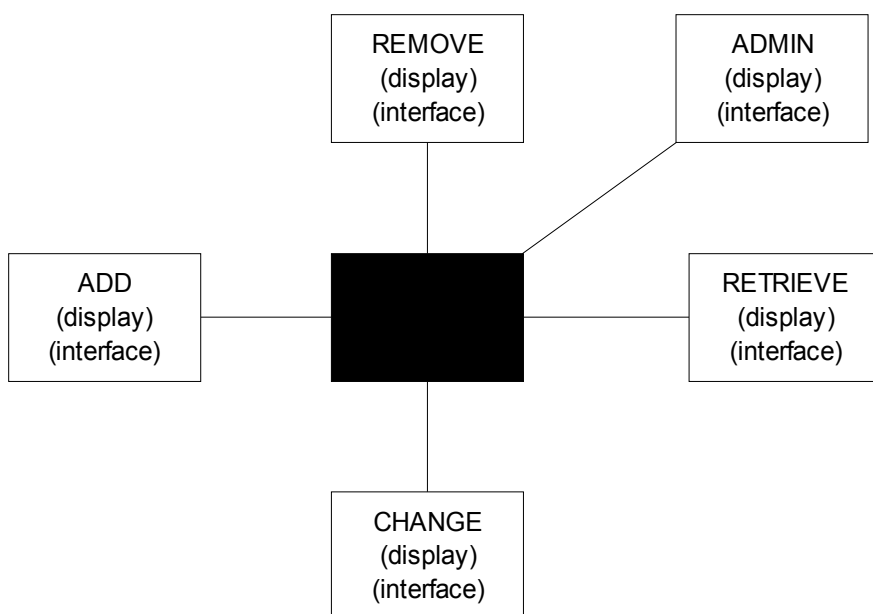
207  
208 **ACER will most probably face a fierce resistance from several stakeholder groups**

209 **when/if ACER is demanding total ownership of the whole information system.**

210  
211 It can be said, that customer’s total ownership of the information system is somehow non-

212 understandable for some ICT persons.

213  
214 **Black box experience / The general situation**



216

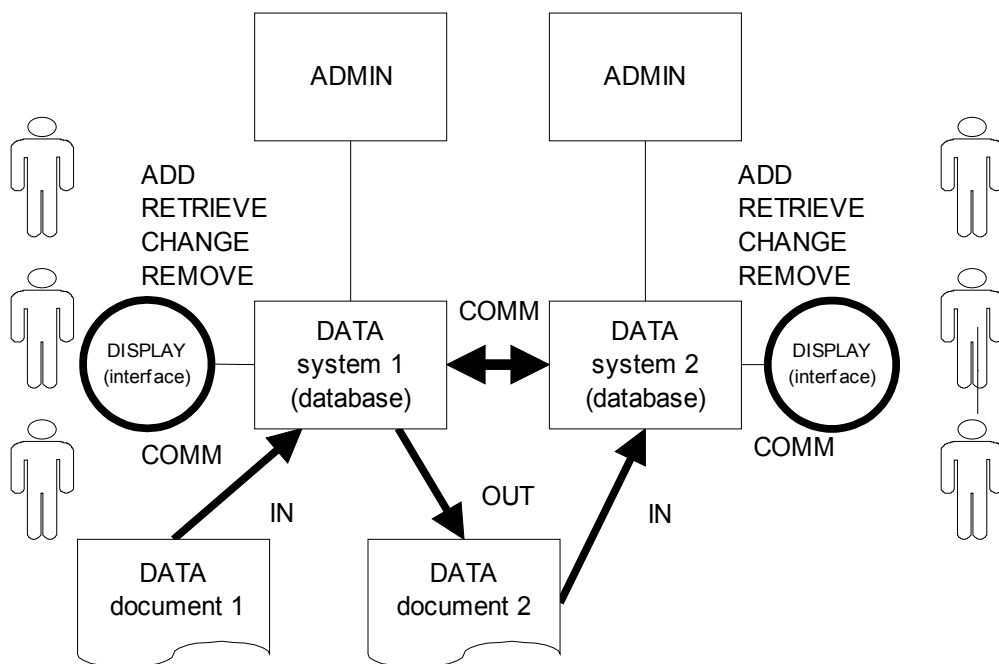
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218 Generally speaking average users are happy with the four basic functions of any information  
 219 system: add, remove, change and change information in the system. Then the administrators of the  
 220 system are distant people; sometimes administrators are not even working in the same community.  
 221

221

222 **The actual reality – systems must communicate with each other**

223



224

225

226 The actual reality is more complex than the general black box experience. In practical terms there  
 227 are several situations:

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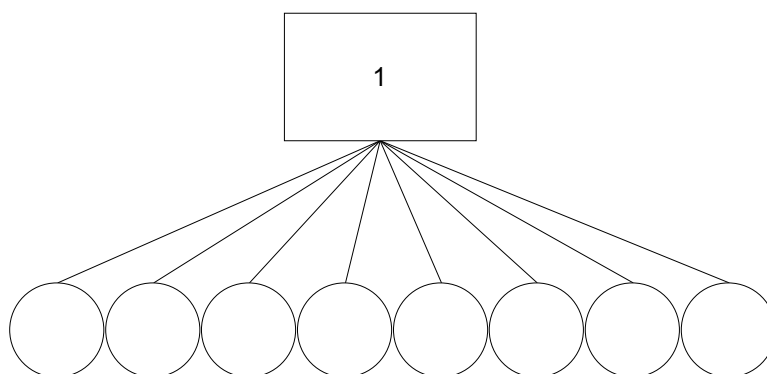
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240

- systems must communicate directly with each other
- there will be several communications methods for direct communication
- there are different standards for direct communication
- data in the system is added by processing different documents
- data from the system is extracted and loaded to different documents
- there are different standards for different documents
- there will be several types for different documents
- there are several displays / interfaces to system(s)
- there are several user groups.

This complexity can be described in the following figure.





242 One system will have several connections and several interfaces (displays).

243

### 244 **The dream of one good interface**

245

246 Most probably the following claims will cause a lot of unrest among ICT specialists.

247

- 248 1. There has to be possibly tens of different interfaces (displays)
- 249 2. There has to be several interfaces (displays) for different user groups
- 250 3. Different interfaces will be added and removed irregularly.

251

252 One interface to all users will not work, and so-called heavy users will complain about the one  
253 interface being too complex and demanding several selections before the actual functions (add,  
254 remove, change, retrieve).

255

256 For certain ICT specialist, i.e. programmers and database specialists, one interface is a good target,  
257 since just getting one interface to work is a good challenge. Therefore creating several interfaces  
258 (displays) might cause unrest.

259

260 For certain ICT specialist, i.e. usability experts, several displays can be totally non-understandable  
261 challenge, since they are used to create one interface with maximum usability – maximum meaning  
262 all instructions and all selections well-explained. Also user interface testing is thought to demand  
263 several days of testing.

264

265 How to move to different and slightly different solutions with the new REMIT system? Here are  
266 some solutions:

- 267 1. Ask interface proposal from different stakeholder groups
- 268 2. Demand several interface proposal to different usage – from one-time usage to heavy  
269 usage
- 270 3. Collect several interface proposal together
- 271 4. Refine several interface proposal – i.e. redundant proposal are extracted together
- 272 5. Calculate initial support for different interface proposal
- 273 6. Distribute extracted interface proposals to different stakeholder groups
- 274 7. Calculate support for proposed interface proposals.

275

276 My own modest research (Rannila 2003) concludes, that one interface (display) to all user groups is  
277 not a feasible solution. There should be several simple interfaces (displays) to several user groups:

278

279

- one-time users

280

- users using the very rarely – e.g. yearly

281

- users using the system rarely – e.g. monthly

282

- user using the system rather often – e.g. weekly

283

- user using the system almost daily – not every day

284

- users using the system daily

285

- users using the system hourly

286

- etc.

287

288 The user interface to heavy users must be as simple as possible with very few options to select.

289 They need the most reduced user interface (display) for the following functions:

290

- add information

291

- retrieve information

292

- change information

293

- remove information.

294 The user interface will more complex to other users and for one-time users it will be rather  
295 explanatory but also simple at the same time.

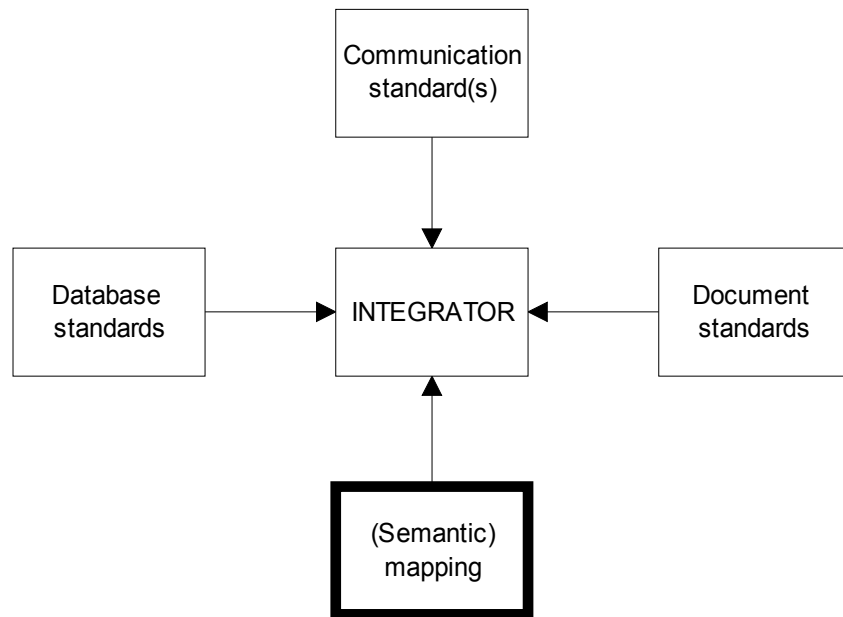
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297 **ACER should select a feasible integrator system**

298

299 The practical reality is that REMIT information system must communicate with other information  
300 systems. The practical reality is, that some parts of the information system may be a legacy  
301 technology in distant future – it depends on the basic technology selections when procuring the  
302 system. However, the integrator systems are nowadays even better, and it might be feasible to  
303 ACER procure a feasible integrator system AND then the actual REMIT information system.

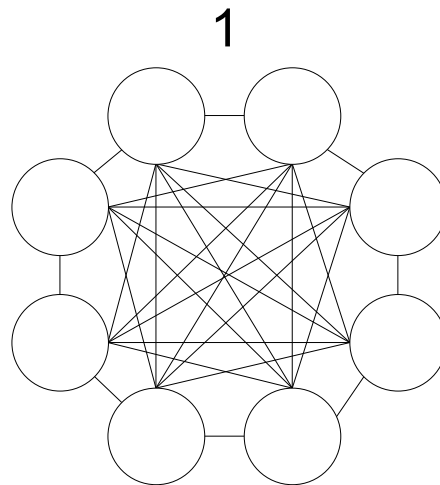
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305  
306

307 Why a separate integrator system? Without a separate integrator system the time will pass, and the  
308 REMIT system will ultimately be integrated to several system. This might result so-called  
309 (infamous) spaghetti situation, where everything is integrated to everything and it is impossible to  
310 move/change/remove anything in the system.

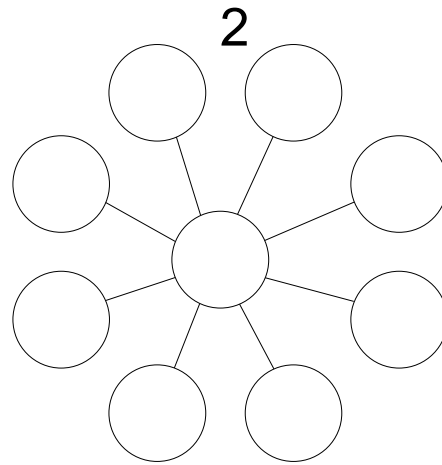
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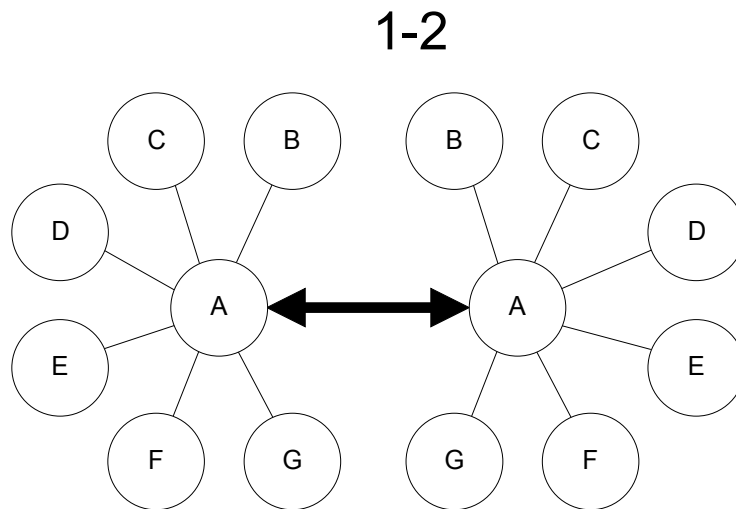
314 In the perfect world there would be just one integrator system, and other systems are systematically  
315 added, changed, removed, etc. and integrator system would handle all situations.

316



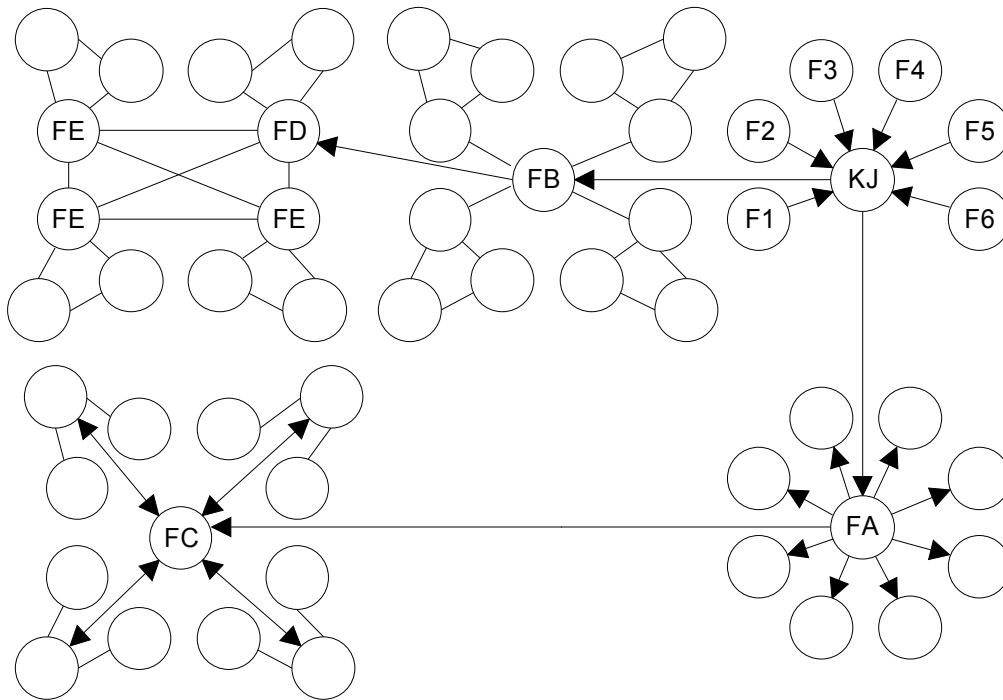
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321

Naturally, there can be several integrator systems, and those integrator systems can communicate with each other.



322  
323  
324  
325  
326

However, we do not live in the perfect world, and different systems are interconnected in several layers. The following figure is an example of a simple layered situation.



327  
328

329 The practical reality is, that there will be numerous IDs (Identifier) in several layers. Therefore one  
330 identifier (REMIT style) for European level is practically impossible. Therefore the REMIT system  
331 must handle numerous external IDs and most probably there will be numerous external IDs added  
332 later.

333

334 **Therefore dreams about one all-powerful ID must be ditched/dumbed.**

335

336 This resolution might be upsetting in the first place, but the practical reality is hard – there are existing  
337 IDs and there will be several (partly new) external IDs to be handled. It is better to accept this fact in  
338 the first place and start planning the REMIT system with understanding of this practical reality.  
339 Most probably the ID done by the REMIT style will be a new layer of IDs for several external  
340 systems.

341

342 **Different replicated systems for different types of retrieval**

343

344 Also different retrieval needs complicate the situation. Naturally adding, changing and removing  
345 data in the systems are important, but retrieval is the most needed function.

346

347 Retrieval needs also vary: sometimes a real-time system is needed and sometimes a daily  
348 retrieval is needed. Therefore ACER must also consider, if there is a reasoned need for different  
349 retrieval data systems. If there is a need for different levels of retrieval, a good integrator system is  
350 once again a feasible option.

351

352

353 **New buzzword: Cloud Computing**

354

355 Most probably there will be several old and new buzzwords used when reading the opinions based  
 356 on the public consultation paper (PC\_2012\_R\_08). One the newest buzzword is Cloud Computing.  
 357 ACER should be very concerned about different and new buzzwords, and ACER should check the  
 358 practical reality behind different buzzwords.

359

360 Cloud Computing is according to my understanding/judgement just adding more stuff to web  
 361 servers and those actions are standardised in many ways. There are possibilities for external and  
 362 internal use of more powerful web servers. Since the communication speed in information networks  
 363 is nowadays considerable, there is possibilities to add more stuff to web servers. Since the client  
 364 computers nowadays are extremely efficient, the load between a server and a client can be divided  
 365 in more efficiently.

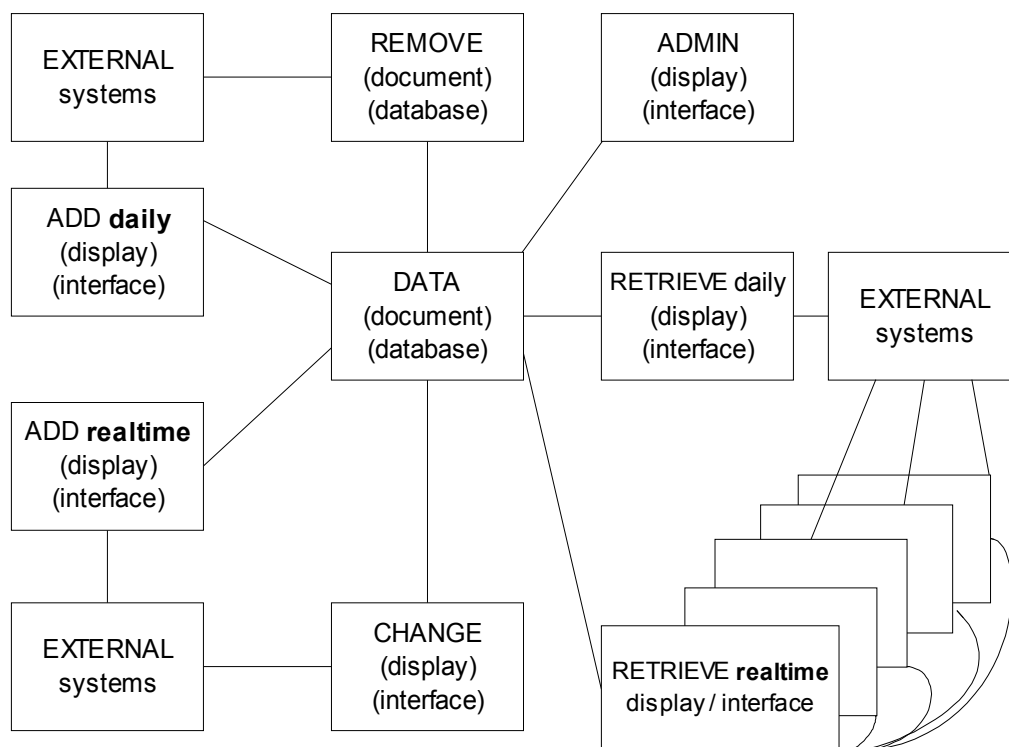
366

367 However, there are always different high-profile risks in different ICT solutions – also in Cloud  
 368 Computing. There is not a magical bullet to everything, and a new buzzword is always a high-  
 369 profile risk.

370

371 **What should actually be in the cloud (so-called)?**

372



373

374

375 In practical reality different communication needs and different interfaces (displays) demand  
 376 replication of some parts of the REMIT system. Since retrieval is the most needed function, the  
 377 might be replications for different communication methods, e.g. possible real-time retrievals come

378 from different replicated data system. These replicated retrieval systems might work on thousands  
379 of retrievals per second. Naturally some external systems might work on real-time basis and they  
380 are some-how connected to the REMIT information system.

381

382 SO – so-called cloud can contain very efficient retrieval systems, and possibly other systems (add,  
383 change, remove) can be more traditional.

384

385 **Generally: chapter 3 in the consultation paper (PC\_2012\_R\_08)**

386

387 It can be said, that ACER should ask a very seasoned database expert to plan the database structure  
388 based on the chapter 3 and based on the given opinions to the chapter 3. **Don't use novices to this**  
389 **task**, since database structure failures are very hard to correct afterwards, specially if there are  
390 several external systems using (connected to) the REMIT system.

391

392 **Some thought based on chapter 3**

393

394 Date format

395 – date formats could be based on ISO 8601 standard <sup>1</sup>

396

397 3.1. (a) Basic information:

398

- 399 – the legal entity might have the name in several languages – e.g. in Finland
- 400 there can Finnish and Swedish name for the same company
- 401 – BIC has to codes actually, the actual account number and bank information
- 402 (e.g. NDEAFIHH in Finland)
- 403 – there must be a possibility to add other codes afterwards, e.g. D-U-N-S might
- 404 an option (Data Universal Numbering System <sup>2</sup>)
- 405 – postal code / address must handle countries which are federations, i.e.
- 406 member states like Germany
- 407 – there could be a time stamp when adding the information
- 408 – there could be a time stamp when changing the information

409

410 3.1. (b) Country-relevant information

411

- 412 – there can be several different registration number for the same legal entity
- 413 – even in the same country there can be several registration number for the same legal
- 414 entity
- 415 – some of those registration numbers might be commercial registration number and
- 416 some of them might be governmental registration number
- 417 – there could be a time stamp when adding the information
- 418 – there could be a time stamp when changing the information

1 [http://en.wikipedia.org/wiki/ISO\\_8601](http://en.wikipedia.org/wiki/ISO_8601) ISO 8601 Data elements and interchange formats – Information interchange  
– Representation of dates and times

2 <http://en.wikipedia.org/wiki/DUNS>, Data Universal Numbering System

419

420 3.1. (c) Corporate structure information

421

- 422 – postal code / address must handle countries which are federations, i.e. member states
- 423 like Germany
- 424 – once again information can be external databases, both commercial and
- 425 governmental
- 426 – so there might several codes for the same legal entity and/or physical person

427

428 3.1. (f) System section

429

430 My understanding of database planning is rather humble, based on general database and SQL  
431 handbooks.

432

433 However, almost every database has its own internal ID, which sometimes is revealed to external  
434 stakeholders, e.g. customer number is almost always internal and is generated automatically.  
435 Probably ACER will have its own internal ID for, which is not always revealed to external  
436 stakeholders. In practical reality this internal ID can help enormously in practical usage of the  
437 system.

438

- 439 – the internal ID in the REMIT system is used only by the ACER
- 440 – the internal ID in the REMIT system can be extremely simple, e.g. starting from
- 441 number 100, and e.g. numbers 1-99 are used for system testing.
- 442 – there could be timestamps for this information

443

444 Then the external ID is also generated automatically, but it has more complex form as explained in  
445 the section 6.4.

446

447 **Answers to the questions 1 and 2**

448

- 449 1. Like said earlier, the registration format needs an closer analysis of a seasoned  
450 database expert (or experts)
- 451 2. There must be possibilities to add further information fields in the near and distant  
452 future
- 453 3. Some of those further information fields can be commercial or governmental
- 454 4. The internal ID in the REMIT system can be rather simple
- 455 5. The external ID in the REMIT system can be rather complex

456

457 **4.2 Updates to the registration and de-activation**

458

459 Once again, time stamps might be useful, when planning the database structure.

460

461 **About information feeds / Especially RSS feeds**

462





463  
464

465 There is not much mentioning about information feeds and providing information feeds in the  
466 consultation paper. Nowadays, RSS feeds are the main solution in several systems, including  
467 European Union information services. RSS is well-specified standard<sup>3</sup> and it could be the basis for  
468 different information feeds.

469

470 Therefore, ACER could (or should) consult about the need for information feeds, there is once again  
471 different needs for several stakeholders. ACER might provide some general information feeds (e.g.  
472 RSS) from the REMIT system. ACER might also demand that market participants provide  
473 information feeds (e.g. RSS).

474

475 **It is possible, that some market participants can provide feeds, which are not based on**  
476 **RSS. Therefore there might be need to convert different feeds in order to have actual**  
477 **RSS feeds.**

478

479 Information about different feeds can be asked in the following consultations.

480

#### 481 **Consultation questions 7, 8, 9 and 10**

482

483 I have already considered, that REMIT system would have an internal ID/code, which is  
484 required to keep the database in order.

485

486 The external ID/code might be rather complex.

487

488 The practical reality is, that REMIT system should have its own unique external ID/code,  
489 which is unique to the REMIT system. Since external ID/code will be used in several  
490 external systems, uniqueness must be clear and there should not be unambiguous factors in  
491 the external ID/code.

492

#### 493 **Need for new consultations**

494

495 This consultation was interesting, but there is still need for new consultations. Here is my proposals  
496 for the next consultations:

497

- 498 1. The proposed database structure could be presented
- 499 2. There could be a consultation about the database structure
- 500 3. Technical information about the proposed information system could be  
501 presented
- 502 4. There could be a consultation about the technical information about the  
503 proposed information system.

---

3 <http://www.rssboard.org/rss-specification> (RSS 2.0 Specification)

504

505 **Possibly a system based on open standards and possibly on open-source software**

506

507 Like said before, there are possibilities for commercial and open-source solutions. The reality  
508 behind the REMIT system might result some hybrid solutions, both commercial and open-source  
509 solutions.

510

511 Open standards can be a feasible option, since then there is possibility to keep the system up-to-date  
512 more easily than with closed standards.

513

514 **Good luck !!!!!**

515

516 Information technology is never easy, and this consultation is just part of the complexity, which will  
517 be there when actually implementing the REMIT system. The journey will be most probably  
518 somewhat unexpected, but consulting seasoned experts in right points of the decision chain might  
519 be a feasible option.

520

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## ANNEX 1

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4 Based on the Finnish three-party system there is a phenomenon called extreme-centre in Finland. The 2011 parliamentary elections in Finland challenge the three-party system, since three “old” parties were not traditionally as the three largest parties. The is now a “new” party as the third largest party. We all must remain being interested about this new development in Finland.