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# GÉANT Data Protection Code of Conduct

## (GDPR Version)

**Working**

2nd draft for consultation of version 2.0 (29 ~~May 2017~~ January 2018)

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## PURPOSE OF THIS CODE OF CONDUCT

This Code of Conduct ~~related~~relates to the ~~sector~~processing of personal data for online access management purposes in the ~~European Research Area~~research and education sector and is ruled by the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation, ~~GDPR~~), and repealing Directive 95/46/EC).<sup>1</sup>

This Code takes into account the specific characteristics of the processing carried out in the the research and education sector and calibrates the obligations of controllers and processors, taking into account the risk likely to result from the processing for the rights and freedoms of natural persons. When drafting the Code relevant stakeholders, including data subjects, were consulted. The text of the Code takes into account the valuable submissions received and views expressed in response to the consultations.

Without prejudice to the provisions as set forth in an agreement between the **Home Organisation** and the **Service Provider**, which in all cases takes precedence, this Code of Conduct sets the rules that Service Providers can commit to when they want to receive End Users' Attributes from **Home Organisations** or their Agent for enabling access to their Services. Home Organisations will feel more comfortable to release affiliated End Users' Attributes to the Service Provider if they can see that the Service Provider has taken measures to properly protect the Attributes.

This Code of Conduct complies with the data protection principles stemming from the General Data Protection Regulation, (GDPR), taking account the specific characteristics of the processing carried out in the ~~academic~~research and education sector, and respecting the national provisions adopted by member states.

~~The Code of Conduct presents a harmonized approach to which Service Providers can commit when receiving End Users' personal data from the Home Organisations. Home Organisations will feel more comfortable to release affiliated End User personal data to the Service Provider if they can see that the Service Provider has taken measures to properly protect the data.~~

This Code of Conduct constitutes a binding community code for the Service Providers that have committed to it.

~~Without prejudice to the provisions as set forth in the agreement between the **Home Organisation** and the **Service Provider**, which in all cases takes precedence, this Code of Conduct sets the rules that Service Providers adhere to when they want to receive End Users' Attributes from **Home Organisations** or their Agent for enabling access to their services.~~

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<sup>1</sup> For further information regarding the purposes of this Code of Conduct, see the Explanatory Memorandum GEANT Code of Conduct ~~of 16 May 2017~~.



182 This Code includes three appendices, detailing best practices on how to adhere to the rules of the Code.

183 These appendices relate to:

- 184 (1) information duties towards **End Users**,
- 185 (2) information security guidelines for **Service Providers** and,
- 186 (3) enforcement procedures for **non-compliance** with the Code of Conduct.

187 Following article 40.2 of the GDPR, ~~the following principles and rules will apply to the whole Code of~~  
188 ~~Conduct;~~ this Code of Conduct specifies the application of the GDPR for online access management in the  
189 research and education sector, such as with regard to the following principles:

- 190 (a) fair and transparent processing;
- 191 (b) the legitimate interests pursued by controllers in specific contexts;
- 192 (c) the collection of personal data;
- 193 (d) the pseudonymisation of personal data;
- 194 (e) the information provided to the public and to data subjects;
- 195 (f) the exercise of the rights of data subjects;
- 196 (g) the measures and procedures referred to in Articles 24 and 25 of the GDPR and the measures  
197 to ensure security of processing referred to in Article 32 of the GDPR;
- 198 (h) the notification of personal data breaches to supervisory authorities and the communication of  
199 such personal data breaches to data subjects;
- 200 -(i) the transfer of personal data to third countries or international organisations; or
- 201 (j) out-of-court proceedings and other dispute resolution procedures for resolving disputes  
202 between controllers and data subjects with regard to processing, without prejudice to the rights of  
203 data subjects pursuant to Articles 77.

204

205 WHO CAN ~~ADHERE~~ADHERE THIS CODE OF CONDUCT?

206

207 TERRITORIAL SCOPE

208 This Code of Conduct is addressed to any **Service Provider** established in any of the Member States of  
209 the European Union and in any of the countries belonging to the European Economic Area (all the  
210 Member States of the European Union, Iceland, Liechtenstein and Norway).

211 Furthermore, **Service Providers** established in any third country offering an adequate level of data  
212 protection in the terms of the article 45 of the GDPR and International Organisations can also subscribe to  
213 this Code of Conduct.

214 In addition to this, Article 40.3 of the GDPR gives the opportunity to **Service Providers** that do not fall  
215 under the territorial scope of the Regulation (Article 3, territorial scope) and that are established outside  
216 of the EEA to join this Code of Conduct in order to provide appropriate safeguards within the framework  
217 of transfers of personal data to third countries or international organisations under the terms referred to in  
218 point (e) of Article 46(2).-

219

## 220 FUNCTIONAL SCOPE

221

222 This Code of Conduct is limited to the processing of **Attributes which are released for enabling access**  
223 **to the Service** as described in clause ~~b. Purpose limitation~~ b. Purpose limitation.

224 The Service Providers and the communities representing the Service Providers can agree to apply the  
225 Code of Conduct also to other attributes, such as those the Service Providers manage and share  
226 themselves, potentially using a community Attribute Provider server.

227 In case the Service Provider uses the attributes for purposes other than enabling access to the  
228 ~~service~~ Service, these activities fall out of the scope of this Code of Conduct.

229

## 230 ROLES OF THE PARTIES INVOLVED

231 This Code of Conduct is addressed to Service Providers acting as data controllers without prejudice ~~to~~  
232 the processing agreement between the Service Provider and the Home Organisation as described in clause  
233 ~~q. Precedence~~ Precedence.

234 In the context of this Code of Conduct:

- 235 1. A **Home Organisation** acts as a data controller as to the wider relationship with the **End User**,  
236 for example operating the Identity Provider (IdP) server in respect of the Attributes. An Agent  
237 who operates the IdP server on behalf of the **Home Organisation** acts as a data processor. This  
238 includes also the Federation Operators who operate a (potentially centralised) IdP server on  
239 behalf of the **Home Organisation**.

- 240 2. A **Service Provider** acts as a data controller in respect of the **Attributes**, processing them for the  
241 purposes as described in the clause ~~b. Purpose limitation~~. b. Purpose limitation. In certain  
242 circumstances a **Service Provider** may be acting as a data processor, acting on behalf and as  
243 instructed by the **Home Organisation**.
- 244 3. An **End User** acts as a data subject whose personal data are being processed for the purposes as  
245 described in clause ~~b. Purpose limitation~~. b. Purpose limitation.

246  
247 ~~As far as the disclosure of the **Attributes** of the **End User** is concerned, the **Service Provider** is obliged~~  
248 ~~to comply with the obligations of the Code of Conduct.~~

249 The processing of the **Attributes** by the **Service Provider** for enabling access to the ~~service~~Service is  
250 further explained in the Service-related Privacy ~~Policy~~Notice.

251 In the case that a Federation and a Federation ~~operator~~Operator do not process the **Attributes** of the **End**  
252 **User**, no specific privacy ~~policy~~notice needs to be put in place between the End User and the Federation  
253 Operator.

## 254 255 256 257 258 259 260 261 262 PRINCIPLES OF THE PROCESSING OF ATTRIBUTES

263 To the extent the **Service Provider** acts as a data controller, it agrees and warrants:

### 264 265 A. LEGAL COMPLIANCE

266  

The Service Provider warrants to only process the Attributes in accordance with: this Code of Conduct,

contractual arrangements with the Home Organisation or the relevant provisions of the ~~Personal Data protection law applicable to the Service Provider, GDPR.~~

267 Where the Service Provider processes the Attributes, the Service Provider shall comply with:

268 1. the processing agreement between the Home Organisation and the Service Provider;

269 2. the provisions of this Code of Conduct; ~~and~~

270 ~~3. applicable Data Protection Laws~~

271 3. the relevant provisions of the GDPR.

272 In particular, the Service Provider shall ensure that all personal data processing activities carried out in  
273 this context ~~shall~~ comply with the GDPR.

274 The **Service Provider** based in the EEA territory commits to process the End User's **Attributes** in  
275 accordance with the applicable European data protection legislation. In principle, a Service Provider  
276 established in the EEA territory, subject to the European Data Protection legislation, shall not find himself  
277 in a situation where their national data protection laws would contradict this Code of Conduct.

278 ~~The Service Provider based outside the EEA commits to process the End User's Attributes in accordance~~  
279 ~~with the GDPR, this Code of Conduct and the eventual contractual arrangements (e.g. EU model clauses).~~

280 ~~The Service Provider is expected to examine if any point in this Code of Conduct enters into conflict~~  
281 ~~with the national data protection laws of his jurisdiction. In case of conflict of laws, the national law of~~  
282 ~~his jurisdiction should be applicable and the Service Provider shall not commit to the Code of Conduct.~~

283 **Service Providers** established outside the EEA territory but in a country offering an adequate data  
284 protection pursuant to Article 45 of the GDPR, should assess the compliance of this Code of Conduct  
285 with their ~~local laws. The Service Provider shall not commit to the~~ laws of its jurisdiction. If observance of  
286 any provision of the Code of Conduct would place the Service Provider in breach of such laws, the  
287 national law of his jurisdiction shall prevail over such provision of the Code of Conduct, and compliance  
288 with national law to this extent will not be deemed to create any non-compliance by the Service Provider  
289 with this Code of Conduct.

290 ~~As far as The Service Providers established in countries~~ Provider based outside the EEA ~~territory without and~~  
291 ~~countries offering an adequate level of data protection pursuant~~ commits to ~~Article 45 of~~ process the End  
292 User's Attributes in accordance with the GDPR ~~are concerned, they shall, together with,~~ this Code of  
293 Conduct, ~~engage on and any other contractual or other arrangements, such as the use of EU model clauses.~~  
294 Such Service Providers shall make binding and enforceable commitments to apply the appropriate  
295 safeguards, including as regards data subjects' rights, in addition to committing to abide by this Code of  
296 Conduct.

297 **Service Providers** may be subject to internal regulations and policies of Intergovernmental  
298 Organisations.

299 Regarding the applicable law, ~~see clause m. Governing law and jurisdiction,~~ see clause n. Governing law and  
300 jurisdiction.

301 In the event of conflict between the provisions of this Code of Conduct and the provisions of a contractual  
302 arrangement with the Home Organisation, see clause ~~q. Precedence.~~ Precedence.

303

## 304 B. PURPOSE LIMITATION

305

The **Service Provider** warrants ~~processing that it will process~~ Attributes of the **End User** ~~solely only~~ for  
the purposes of enabling access to the ~~services.~~

Services.

306 ~~The Service Providers agree that the End User's personal data is processed for the purposes of the~~  
307 ~~legitimate interests pursued by the Service Provider.~~

308 The Attributes shall not be further processed in a manner which is not compatible with the initial purposes  
309 (Article 5.b of the GDPR).

310 The Service Provider must ensure that Attributes are used only for enabling access to the ~~service~~Service.  
311 As far as the use of Attributes deviating purposes is concerned, ~~please,~~ see clause ~~d. Deviating purposes~~

312

~~The Service Provider commits not to process the Attributes for further purposes than enabling access,~~  
~~unless the End User has given prior consent to the Service Provider (see Consent).~~

313

314 -

315 c. Deviating purposes.

316 In practice, enabling access to the ~~service~~Service covers:

317 ●● **Authorisation:** i.e. managing **End User's** access rights to ~~services~~Services provided by the  
318 **Service Provider** based on the **Attributes**. Examples of such **Attributes** are those describing the  
319 End User's **Home Organisation** and organisation unit, their role and position in the **Home**  
320 **Organisation** (whether they are university members, students, administrative staff, etc.) and, for  
321 instance, the courses they are taking or teaching. The provenance of those **Attributes** is important  
322 for information security purposes; therefore, authorisation cannot be based on an Attribute that a  
323 user has self-asserted.

- 324 ●● **Identification** i.e. **End Users** need to have a personal account to be able to access their own files,  
325 datasets, pages, documents, postings, settings, etc. The origin of an **Attribute** used for  
326 identification is important; to avoid an identity theft, one cannot self-assert their own identifier.  
327 Instead, the Identity Provider server authenticates them and provides the **Service Provider** an  
328 **Attribute** that contains their authenticated identifier.
- 329 ●● **Transferring real-world's world trust** to the online world i.e. if the **Service Provider** supports a  
330 user community that exists also in the real world, **Attributes** can be used to transfer that  
331 community to the online world. For instance, if the members of the user community know each  
332 ~~other's other~~ by name in the real world, it is important that their names (or other identifiers) are  
333 displayed also in any discussion or collaboration forum offered by the **Service Provider**. The  
334 source of those **Attributes** is important; to avoid identity theft, one ~~cannot assume user's name to be~~  
335 ~~self-asserted but retrieved~~ must retrieve users' names from a trustworthy ~~source~~ sources and not rely  
336 on self-assertions.
- 337 ●● **Researcher unambiguity** i.e. ensuring that a researcher's scientific contribution is associated  
338 properly to them and not to a wrong person (with potentially the same name or initials). In the  
339 research sector, publishing scientific results is part of researchers' academic career and the  
340 researchers expect to receive the merit for their scientific contribution. There are global  
341 researcher identification systems (such as ORCID and ISNI) which assign identifiers for  
342 researchers to help scientific Service Providers to properly distinguish between researchers, even  
343 if they change their names or organisation they are affiliated with.
- 344 ●● **Accounting and billing:** Personal data can be processed for accounting (for instance, that the  
345 consumption of resources does not exceed the resource quota) and billing purposes. In the  
346 research and education sector, the bill is not always paid by the End User but by their Home  
347 Organisation, project, grant or funding agency.
- 348 ●● **Information Security:** personal data can be processed ~~for ensuring to ensure~~ the integrity,  
349 confidentiality and availability of the ~~service~~ Service (e.g.: incident forensic and response)).
- 350 ●● **Other functionalities** offered by the **Service Provider** for enabling access to the  
351 ~~services~~ Services, i.e. using **Attributes** of users for the purposes of other functionalities offered by  
352 the Service Provider. It is common that services on the Internet send e-mail or other notifications  
353 to their users regarding their services. Examples of scenarios where processing End User's email  
354 address or other contact detail falls within the scope of enabling access to the service include for  
355 instance:
- 356 ●● the End User's application to access the resources has been approved by  
357 the resource owner;
- 358 ●● the End User's permission to use a resource is expiring or they are  
359 running out of the resource allocation quota;
- 360 ●● someone has commented on the End User's blog posting or edited their  
361 wiki page.

362 ~~Conversely, processing End User's e-mail address for sending them commercial or unsolicited messages~~  
363 ~~does not fall within the scope of enabling access to the service of the **Service Provider**.~~

364

365 See also the next clause on deviating purposes.

366 C. ~~DEVIATING PURPOSES~~ DATA MINIMIZATION

367

The Service Provider ~~warrants~~commits not to minimise~~process~~ the Attributes ~~requested from a **Home Organisation** to those that are adequate, relevant and not excessive for purposes other than enabling access to,~~ unless the service and, where a number of Attributes could be used to provide access~~End User has given prior consent to the service, to use the least intrusive Attributes possible.~~

Service Provider.

368 If the Service Provider wants to use the Attributes for purposes other than “enabling access to the  
369 Service” (see b. Purpose limitation), it can only do so if the End User gives his or her consent to the  
370 Service Provider. See also clause I. End User's consent for the requirements on consent.

371 Examples of deviating purposes<sup>2</sup> are: sending the End User commercial or unsolicited messages,  
372 including End User's e-mail address to a newsletter offering new services, selling the Attributes to third  
373 parties, transferring information to third parties such as the search history, profiling activities etc.

374 d. [Data minimization](#)

375

376

The Service Provider undertakes to minimise the Attributes requested from a **Home Organisation** to those that are adequate, relevant and not excessive for enabling access to the Service and, where a number of Attributes could be used to provide access to the Service, to use the least intrusive Attributes possible.

---

<sup>2</sup> Consult the Article 29 Working Party's Opinion 03/2013 on purpose limitation. This document can guide the Service Provider to ascertain whether the purpose for the processing of the personal data is compatible or not.



377 The following list presents examples of ~~attributes~~Attributes that are **adequate, relevant and not excessive**  
378 for enabling access in the context of the ~~service~~Service:

379 ●●            an attribute (such as, ~~eduPersonAffiliation~~eduPerson(Scoped)Affiliation, eduPersonEntitlement or  
380 schacHomeOrganisation) indicating the End User's permission to use the ~~service~~Service:

381           ●●            a trusted value provided by the IdP is needed instead of a value self-  
382 asserted by the End User

383 ●●            an attribute (such as, SAML2 PersistentId) uniquely identifying the End User required, for  
384 instance, to store the End User's ~~service~~Service profile:

385           ●●            a trusted value provided by the IdP is needed. The End User cannot self-  
386 assert their unique identifier

387 ●●            if there are several alternative unique identifiers available for the ~~service~~Service, the least  
388 intrusive must be used:

389           ●●            a pseudonymous bilateral identifier (such as, SAML2 persistentId) is  
390 preferred

391           ●●            if ~~there is a legitimate reason enabling access to match~~the Service requires  
392 matching the same End User's accounts between two Service Providers, a  
393 Service Provider can request a more intrusive identifier (such as  
394 eduPersonPrincipalName or eduPersonUniqueID), whose value for a  
395 given user is shared by several Service Providers

396           ●●            if there is a legitimate reason for an End User (such as, a researcher) to  
397 keep their identity and profile in the Service Provider even when the  
398 organisation they are affiliated with changes, a permanent identifier  
399 (such as, ORCID identifier) can be used

400 ●●            a name attribute (such as commonName or DisplayName attribute) is necessary for a wiki or  
401 other collaboration platform, if the End Users know each other in real life and need to be able to  
402 transfer their existing real-world trust to an online environment.

403           ●●            if knowing the contributor's name is important for the collaboration, the  
404 name can be released.

405           ●●            otherwise, the user may be indicated as "unknown" or a pseudonym the  
406 user has selected or the system has assigned to him/her.

407 ●●            e-mail address or other contact details, if it is necessary to contact the **End User** for the proper  
408 functioning of the ~~services~~Services offered by the **Service Provider**.

409 In the context of this Code of Conduct, under no circumstances a **-Service Provider** is authorized to  
410 request End User's ~~Personal Data~~Attribute revealing racial or ethnic origin, political opinions, religious or



411 philosophical beliefs, trade-union membership, genetic data, biometric data for the purposes of uniquely  
412 identifying a natural person or data concerning health or sex life or sexual orientation.

413

414 E. INFORMATION DUTY TOWARDS END USER

415

The **Service Provider** shall provide -at first contact- the **End User** with a Privacy Notice.

This Privacy Notice must be concise, transparent, intelligible and provided in an easily accessible form.

The Privacy Notice shall contain at least the following information:

- the name, address and jurisdiction of the **Service Provider**; where applicable
- the contact details of the data protection officer, where applicable;
- the purpose or purposes of the processing of the **Attributes**;
- a description of the **Attributes** being processed as well as the legal basis for the processing;
- the third party recipients or categories of third party recipient to whom the **Attributes** might be disclosed, and proposed transfers of **Attributes** to countries outside of the European Economic Area;
- the existence of the rights to access, rectify and delete the **Attributes** held about the **End User**;
- the retention period of the **Attributes**;
- a reference to this Code of Conduct;
- the right to lodge a complaint with a supervisory authority;

416 The Privacy Notice can be, for instance, linked to the front page of the Service. It is important that the  
417 **End User** can review the policy before they log in for the first time. The Privacy Notice shall use clear  
418 and plain language.

419 The Service Provider needs to describe in its Privacy Notice how they can exercise their right to access,  
420 request correction and request deletion of their personal data.

421 The **Service Provider** may include additional information, but must include as a minimum the  
422 information described above. The additional information could for example refer to the additional data  
423 processing activities of the **Service Provider**. ~~d.~~ Additional processing activities must comply with the  
424 provisions of clause c. Deviating purposes and be included in the Privacy Notice.

425 THE SERVICE PROVIDERS ARE ADVISED TO MAKE USE OF THE PRIVACY NOTICE TEMPLATE THAT  
426 BELONGS TO ~~DEVIATING PURPOSES~~

427  
The Service Provider commits not to process the Attributes for further purposes than enabling access, unless the End User has given prior consent to the Service Provider (see Consent).

428  
429 ~~¶~~ the supporting material of the Code of Conduct in Appendix 1: Information duty towards End Users.

430 F. INFORMATION DUTY TOWARDS HOME ORGANISATION

431  
The Service Provider commits to provide to the Home Organisation or its Agent at least the following information:

- a) a machine-readable link to the Privacy Notice;
- b) indication of commitment to this Code of Conduct;
- c) any relevant updates or changes in the local data protection legislation that may affect this Code of Conduct.

432 GÉANT has put in place a scalable technical solution allowing Service Provider wants to use the Attributes  
433 for purposes other than “enabling access to the service” (see clause b. Purpose limitation), it can only do so only  
434 ¶Providers to add their adherence to this Code of Conduct and to communicate its Privacy Notice’s URL.  
435 This information is shared with the Home Organisation’s Identity Provider server prior to sharing the End  
436 User gives his or her consentUser’s Attributes to the Service Provider, enabling the Home Organisation to  
437 present it to the End User as described in Appendix 1.II.

438 The current technical infrastructure is based on standard SAML 2.0 metadata management and  
439 distribution system operated by Federation operators. However this Code of Conduct will apply despite  
440 the future changes in the technical infrastructure.

441 -

442 Examples of deviating purposes<sup>3</sup> are: including End User's e-mail address to a newsletter offering new  
443 services, selling the Attributes to third parties, transferring information to third parties such as the search  
444 history, profiling activities etc.

---

<sup>3</sup>Consult Article's 29 Working Party Opinion 03/2013 on purpose limitation. This document can guide the Service Provider to ascertain whether the purpose for the processing of the personal data is compatible or not.

445 **EG. DATA RETENTION**

446

~~The Service provider shall delete or anonymize all **Attributes** as soon as they are no longer necessary for the purposes of providing the service.~~

The Service provider shall delete or anonymize all **Attributes** as soon as they are no longer necessary for the purposes of providing the Service.

447 Under the GDPR, anonymized data does not constitute personal data; therefore, anonymized data can be  
448 kept indefinitely.

449 The retention period of the **Attributes** depends on the particularities of the ~~service~~Service and it needs to  
450 be decided by the **Service Provider**. However, a **Service Provider** shall not store the **Attributes** for an  
451 unlimited or indefinite period of time.

452 The **Service Provider** has to implement an adequate data retention policy compliant with the GDPR and  
453 other applicable data protection legislation. The existence of this policy must be communicated in the  
454 Service ~~Provider's privacy policy~~Provider's Privacy Notice (see clause ~~i. Information duty towards Home~~  
455 ~~Organisation~~e. Information duty towards End User).

456 For instance, the **Attributes** could be deleted after the expiration of the **End User's** session in the web  
457 ~~service~~Service. On the other hand, for other ~~services~~Services, it may be necessary to store the **Attributes**  
458 for a longer period of time.

459 In principle the personal data must be deleted or anonymised if the **End User** (or their **Home**  
460 **Organisation**) no longer wishes to use the ~~service~~Service.

461 However, in many cases, the **End User** does not explicitly inform the **Service Provider** that they no  
462 longer wish to use the ~~service~~Service, they just do not log in to the ~~service~~Service anymore. In this case it  
463 is considered as a good practice to delete or anonymise the **End User's** personal data if they have not  
464 logged in for 18 months.

465 On the other hand, there are also circumstances where an **End User** not signing in does not necessarily  
466 mean that they no longer wish to use the ~~service~~Service. The **Service Provider** shall implement  
467 appropriate processes to manage this type of situations. For instance:

468 ●●          if the ~~service~~Service is an archive for scientific data, the researchers who deposit their datasets to  
469 the archive may still remain the owners or custodians of the dataset although they do not log in  
470 for a while.

471 ●●          if the ~~service~~Service is a Git (a widely used source code management system) an **End User** uses  
472 to publish their computer program code, the **End User** may still want to be able to log in and  
473 maintain their code, although they have not logged in for a while.

474 ●●        if the ~~service~~**Service** is a repository where researchers publish their scientific findings and  
475 contribution, the researchers still want to have their name and other **Attributes** attached to the  
476 finding, although they do not regularly log in.

477 ●●        if the ~~service~~**Service** is a collaborative application (such as, a wiki or a discussion board) where  
478 the **End User** has their name or other **Attribute** attached to their contribution to let the other  
479 users learn and assess the provenance of the contribution and attribute it to a specific person.

480 The Personal Data, including log files, do not need to be removed or anonymised as long as they are  
481 needed:

482 ●●        for archiving purposes in the public interest, scientific or historical research purposes or statistical  
483 purposes;

484 ●●        for compliance with a legal obligation which requires processing by International, European or  
485 Member State law to which the **Service Provider** is subject;

486 ●●        for the performance of a task carried out in the public interest;

487 ●●        for the establishment, exercise or defence of legal claims, such as resource allocation or invoices;

488 ●●        for exercising the right of freedom of expression and information.

## 489 H. SECURITY MEASURES

490

The **Service Provider** warrants taking appropriate technical and organisational measures to safeguard Attributes against accidental or unlawful destruction or accidental loss, alteration, unauthorized disclosure or access. These measures shall ensure a level of security appropriate to the risks represented by the processing and the nature of the data to be protected, having regard to the state of the art and the cost of their implementation.

491 The **Service Provider** shall implement the security measures described in Appendix 2: Information  
492 Security, technical and organisational guidelines for Service Providers. The Service Provider can also  
493 implement such additional security measures which, evaluated together, provide at least the same level of  
494 security as the level of security provided by the measures described in Appendix 2.

## 495 I. SECURITY BREACHES

496

The **Service Provider** commits to, without undue delay, report all suspected privacy or security breaches, meaning any breach of security leading to the accidental or unlawful destruction, loss,

alteration, unauthorised disclosure of, or access to, personal data transmitted, stored or otherwise processed concerning the **Attributes** to the **Home Organisation** or its Agent and, where this is legally required, to the competent data protection authority and/or to the **End Users** whose data are concerned by the security or privacy breach.

497 Article 33 of the GDPR describes the conditions when a personal data breach must be notified to the  
498 supervisory authority. This clause imposes an obligation to notify also the Home Organisation, to allow  
499 them taking the necessary technical and organisational measures for mitigating any risk the **Home**  
500 **Organisation** may be exposed to.

501 For example, if the **Service Provider** suspects that one or more user accounts in the **Home Organisation**  
502 has been compromised, the **Service Provider** contacting the **Home Organisation** enables the **Home**  
503 **Organisation** to take measures to limit any further damage (such as, suspend the compromised accounts)  
504 and to start the necessary actions to recover from the breach, if any.

505 The Service Provider shall use the security contact point of the Home Organisation or its Agent as  
506 provided in the technical infrastructure (currently, SAML 2.0 metadata), if available, for the reporting.  
507 When a security contact is not provided, the Service Provider shall communicate with alternative contact  
508 points.

509

#### 510 ~~F. RESPECT THE END USER'S RIGHTS~~

~~The Service Provider shall respect End User's rights, including the right to access to personal data, the right to request correction of any inaccurate information relating to them and the right to request deletion of any irrelevant Personal Data the Service Provider holds about him or her.~~

#### 511 ~~GJ. TRANSFER OF PERSONAL DATA TO THIRD PARTIES~~

512

The Service Provider shall not to transfer Attributes to any third party (such as a collaboration partner) except:

- a) if mandated by the Service Provider for enabling access to its ~~service~~Service on its behalf, or
- b) if the third party is committed to the Code of Conduct or has undertaken similar duties considered sufficient under the data protection law applicable to the Service Provider or
- c) if prior Consent has been given by the End User.

513 The Service Provider shall not transfer Attributes to any third party (such as a collaboration partner)  
514 except:

515 a) if the third party is a data processor for the Service Provider in which case an ordinary  
516 controller-processor relationship applies between the Service Provider and the third party  
517 working on behalf of the Service Provider. The Service Provider must conclude a written  
518 agreement with such data processor in accordance with applicable laws.

519  
520 b) if the third party ~~which~~ is also committed to the Code of Conduct. This is expected to be the  
521 case for various collaborative research scenarios, where the ~~service~~Service is provided to the  
522 **End User** by several data controllers working in collaboration.

523 A typical scenario is a proxy setup where a research collaboration has a **Service Provider**  
524 that receives **Attributes** from **Home Organisations** and passes on (parts of) those **Attributes**  
525 to third parties providing the actual or additional ~~services~~Services. In that case, the proxy  
526 **Service Provider** must make sure all third parties receiving **Attributes** are committed to the  
527 Code of Conduct or similar.

528 In contrast, if none of the **Attributes** received from the **Home Organisation** are being passed  
529 on, e.g. when only an internal identifier assigned by the proxy is sent to the third parties, the  
530 proxy does not need to make sure those third parties are committed to the Code of Conduct.

531 In a Service Provider proxy set-up, the organisation acting as the proxy (and operating the  
532 proxy server) needs to assume a role as the intermediary between the **Home Organisation**  
533 and the third party. For instance, the proxy needs to relay the suspected privacy or security  
534 breaches to the **Home Organisation** or its Agent, as described in clause ~~H. Security~~  
535 ~~measures~~h. Security measures.

536 e) ~~if~~ prior consent has been given by the **End User** ~~as described in Consent~~

## 538 ~~H. SECURITY MEASURES~~

539  
~~The Service Provider warrants taking appropriate technical and organisational measures to safeguard  
Attributes against accidental or unlawful destruction or accidental loss, alteration, unauthorized  
disclosure or access. These measures shall ensure a level of security appropriate to the risks represented  
by the processing and the nature of the data to be protected, having regard to the state of the art and the  
cost of their implementation.~~

540 ~~The Service Provider shall implement the security measures described in Appendix 2: Information Security,  
541 technical and organisational guidelines for Service Providers. The Service Provider can also implement such  
542 additional security measures which, evaluated together, provide at least the same level of security as the  
543 level of security provided by the measures described in Appendix 2.~~

## 544 ~~I. INFORMATION DUTY TOWARDS END USER~~

545

~~The **Service Provider** shall provide at first contact the **End User** with a Privacy Policy.~~

~~This Privacy Policy must be concise, transparent, intelligible and provided in an easily accessible form.~~

~~The Privacy Policy shall contain at least the following information:~~

- ~~• the name, address and jurisdiction of the **Service Provider**; where applicable~~
- ~~• the contact details of the data protection officer, where applicable;~~
- ~~• the purpose or purposes of the processing of the **Attributes**;~~
- ~~• a description of the **Attributes** being processed as well as the legal basis for the processing;~~
- ~~• the third party recipients or categories of third party recipient to whom the **Attributes** might be disclosed, and proposed transfers of **Attributes** to countries outside of the European Economic Area;~~
- ~~• the existence of the rights to access, rectify and delete the **Attributes** held about the **End User**;~~
- ~~• the retention period of the **Attributes**;~~
- ~~• a reference to this Code of Conduct;~~
- ~~• the right to lodge a complaint with a supervisory authority;~~

546 ~~The Privacy Policy can be, for instance, linked to the front page of the service. It is important that the~~  
547 ~~**End User** can review the policy before they log in for the first time. The Privacy Policy shall use clear~~  
548 ~~and plain language.~~

549 ~~The **Service Provider** may include additional information, but must include as a minimum the~~  
550 ~~information described above. The additional information could for example refer to the additional data~~  
551 ~~processing activities of the **Service Provider**.~~

552 ~~c) Additional processing activities must comply with the provisions of, For the requirements of such~~  
553 ~~consent, see clause d. Deviating purposes and be included in the Privacy Policy]. End User's~~  
554 ~~consent.~~

555 ~~If transfer to a third party includes also a transfer to a third country, the next clause imposes further~~  
556 ~~requirements.~~

## 557 K. TRANSFER OF PERSONAL DATA TO THIRD COUNTRIES

558



1. Transfers to parties that have **not** adhered to this Code of Conduct established outside the EEA  
The **Service Provider** guarantees that, when transferring **Attributes** to a party that has not adhered to this Code of Conduct and that is based outside the European Economic Area or in a country without an adequate level of data protection pursuant to Article 45.1 of the GDPR or the recipient is an International Organisation, to take appropriate safeguards.

2. Transfers among Service Providers that have adhered to the Code of Conduct.  
This Code of Conduct constitutes an adequate legal basis for cross-border transfers of Attributes among the Service Providers that have adhered to it, whether the Service Provider receiving the Attributes is established in the European Economic Area or not. In other terms, the Code of Conduct legitimates cross-border transfers among the parties that have committed to the Code of Conduct.

559 Under European data protection legislation, transfers of personal data from the European Economic Area  
560 to third countries that do not offer an adequate level of data protection are restricted, unless the recipient  
561 territory ensures a so-called "adequate level of protection". However, there is an exhaustive list of  
562 derogations to this general prohibition that are relevant for this context:

563 ▪ **Consent of the End User:** The unambiguous consent of the data subject legitimates data transfers  
564 to third countries, even if the recipient does not offer an adequate level of protection. The Service  
565 Provider may rely on the End User's freely given informed revocable Consent as described in  
566 clause i. End User's consent.

567 ▪ **Contractual guarantees:** The existence of an appropriate contractual framework, supported by  
568 Standard contract clauses, either adopted by the European Commission or by a supervisory  
569 authority, the use of appropriate safeguards such as Binding Corporate Rules or other legally  
570 binding and enforceable instruments are recognised methods of transferring personal data. The use  
571 of Standard contract clauses does not exclude the possibility for the contracting parties to include  
572 them in a wider contract nor to add other clauses as long as they do not enter in contradiction.  
573 When using EU model clauses, the Service Provider needs to verify and ascertain that the other  
574 party is able to comply with all contractual obligations set out in the model clauses, especially  
575 taking into account local law applicable to such party.

576 ▪ **Approved code of conduct:** an approved code of conduct pursuant to Article 40 together with  
577 binding and enforceable commitments of the controller or processor in the third country to apply  
578 the appropriate safeguards, including as regards data subjects' rights.

579 Notice that if transferring Attributes to a third country involves also a transferring them to a third party,  
580 also clause j. Transfer of personal data to third parties needs to be satisfied.

## 581 L. END USER'S CONSENT

582

Consent must be freely given, specific, informed and must unambiguously indicate the **End User's**  
wishes by which he or she, by a statement or by a clear affirmative action, signifies agreement to the



processing of his or her personal data.

583 When a Service Provider relies on End User's consent (e.g. c. Deviating purposes, j. Transfer of personal  
584 data to third parties, k. Transfer of personal data to third countries ), it can be provided by a written  
585 statement, including by electronic means. This could include ticking a box when visiting an internet  
586 website, choosing technical settings for information society services or another statement or conduct  
587 which clearly indicates the data subject's acceptance of the proposed processing of his or her personal  
588 data. Consent shall always be documented. Furthermore, the **End User** shall be able to withdraw his/her  
589 consent online.

590 Following Recital 43 of the GDPR, the Service Provider shall not rely on consent when there is a clear  
591 imbalance between the End User and the Service Provider.

592 ~~The Notice that this Code of Conduct for Service Providers are advised to does not make use of the Privacy~~  
593 ~~Policy template that belongs to the supporting material of the Code of Conduct in Appendix 1:~~  
594 ~~Information duty towards End Users.~~

595

#### 596 ~~I. INFORMATION DUTY TOWARDS HOME ORGANISATION~~

597

~~The **Service Provider** commits to provide to the **Home Organisation** or its Agent at least the following information:~~

- ~~a) a machine-readable link to the Privacy Policy;~~
- ~~b) indication of commitment to this Code of Conduct;~~
- ~~c) any relevant updates or changes in the local data protection legislation that may affect this Code of Conduct.~~

598 ~~GÉANT has put in place a scalable technical solution allowing Service Providers to add their adherence to this Code~~  
599 ~~of Conduct and to communicate its privacy policy's URL. This information is shared with normative requirements~~  
600 ~~on the Home Organisation's Identity Provider server prior legal grounds to sharing the End User's release~~  
601 ~~Attributes to the Service Provider.~~

602 ~~The current technical infrastructure is based on standard SAML 2.0 metadata management and~~  
603 ~~distribution system operated by Federation operators. However this Code of Conduct will apply despite~~  
604 ~~the future changes in the technical infrastructure.~~

605

#### 606 ~~J. SECURITY BREACHES~~

607

~~The **Service Provider** commits to, without undue delay, report all suspected privacy or security breaches, meaning any breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, personal data transmitted, stored or otherwise processed concerning the **Attributes** to the **Home Organisation** or its Agent and, where this is legally required, to the competent data protection authority and/or to the **End Users** whose data are concerned by the security or privacy breach.~~

608 ~~Article 33 of the GDPR describes the conditions when a personal data breach must be notified to the supervisory~~  
609 ~~authority. This clause imposes an obligation to notify also the Home Organisation, to allow them taking the~~  
610 ~~necessary technical and organisational measures for mitigating any risk the Home Organisation may be~~  
611 ~~exposed to.~~

612 ~~For example, if the Service Provider suspects that one or more user accounts in the Home Organisation~~  
613 ~~has been compromised, the Service Provider contacting the Home Organisation enables the Home~~  
614 ~~Organisation to take measures to limit any further damage (such as, suspend the compromised accounts)~~  
615 ~~and to start the necessary actions to recover from the breach, if any.~~

616 ~~The Service Provider shall use the security contact point of the Home Organisation or its Agent as~~  
617 ~~provided in the technical infrastructure (currently, SAML 2.0 metadata), if available, for the reporting.~~  
618 ~~When a security contact is not provided, the Service Provider shall communicate with alternative contact~~  
619 ~~points.~~

620 **Describe notification duties. When is it necessary to notify?**

621

622 ~~Service Provider. However, the user interaction presented in Appendix 1 assumes the Attribute release is~~  
623 ~~not based on the End User's consent.~~

624 **M. LIABILITY**

625

The Service Provider agrees to hold harmless the **End User**, the **Home Organisation** as well as the Agent who has suffered damage as a result of any violation of this Code of Conduct by the **Service Provider** as determined in a binding and enforceable judicial ruling.

626 In the event of damages related to the breach of this Code of Conduct (i.e.: using the **Attributes** for other  
627 purposes, storing sharing the **Attributes** with third parties etc.), the **Service Provider** will hold the other  
628 parties harmless following a binding and enforceable judicial ruling.

629 For example, in case an **End User** files a complaint against his or her **Home Organisation** for unlawful  
630 release of **Attributes**, and it turns out that a **Service Provider** has released the **Attributes** to a third party,  
631 the **Home Organisation** will be held harmless against the **End User** by the **Service Provider** if it can  
632 prove the **Service Provider** has not complied with all the obligations of this Code of Conduct.

#### 633 **L. TRANSFER TO THIRD COUNTRIES**

634

##### ~~1. Transfers to parties that have **not** adhered to this Code of Conduct established outside the EEA~~

~~The **Service Provider** guarantees that, when transferring **Attributes** to a party that has not adhered to this Code of Conduct and that is based outside the European Economic Area or in a country without an adequate level of data protection pursuant to Article 25.6 of the directive 95/46/EC or Article 45.1 of the GDPR, to take appropriate measures~~

##### ~~2. Transfers among Service Providers that have adhered to the Code of Conduct.~~

~~This Code of Conduct constitutes an adequate legal basis for cross border transfers of **Attributes** among the **Service Providers** that have adhered to it, whether the **Service Provider** receiving the **Attributes** is established in the European Economic Area or not.~~

635

~~Under European data protection legislation, transfers of personal data from the European Economic Area to third countries that do not offer an adequate level of data protection are restricted, unless the recipient territory ensures a so called "adequate level of protection". However, there is an exhaustive list of derogations to this general prohibition that are relevant for this context:~~

~~▪ **Consent of the End User:** The unambiguous consent of the data subject legitimates data transfers to third countries, even if the recipient does not offer an adequate level of protection. The **Service Provider** may rely on the **End User's** freely given informed revocable **Consent** as described in **Error! Reference source not found.**~~

~~▪ **Contractual guarantees:** The existence of an appropriate contractual framework, supported by Standard contract clauses, either adopted by the European Commission or by a supervisory authority, the use of appropriate safeguards such as Binding Corporate Rules or other legally binding and enforceable instruments are recognised methods of transferring personal data. The use of Standard contract clauses does not exclude the possibility for the contracting parties to include them in a wider contract nor to add other clauses as long as they do not enter in contradiction. When using EU model clauses, the **Service Provider** needs to verify and ascertain that the other~~

651 ~~party is able to comply with all contractual obligations set out in the model clauses, especially~~  
652 ~~taking into account local law applicable to such party. [Reference to the section of IOs]~~

653

#### 654 **M. GOVERNING LAW AND JURISDICTION**

655

This Code of Conduct shall be interpreted in the light of the GDPR and of the guidance issued by the European ~~advisory body on data protection and privacy~~<sup>4</sup> ~~[always with~~Data Protection Board, always without prejudice to any privileges and immunities of Service Providers being International Organisations, as these are awarded by their constituent and/or statutory documents and international law~~].~~

This Code of Conduct shall be governed by the Dutch laws and court unless the parties agree to have it governed by other national laws legislation or courts of the country in which one of the Service Provider is establishedEU Member States.

656

657 ~~Alternatively, the Service Provider and the Home Organisation can refer to this Code of Conduct in the~~  
658 ~~case where the Service Provider processed personal data on behalf of the Home Organisation. In that~~  
659 ~~scenario, the applicable law is the one of the Home Organisation.~~

660 ~~AnyIf there are~~ disputes regarding the validity, ~~the~~ interpretation or ~~the~~ implementation of this Code of  
661 ~~Conduct, the parties shall be settled before the competent courts of the country in which the Service~~  
662 ~~Provider is agree on how and where to settle them, based on guidance issued by the regulatory authorities~~  
663 ~~such as the European Data Protection Board or its predecessor.~~<sup>5</sup> For instance, if there is a dispute between  
664 ~~a Home Organisation and Service Provider who are established:~~

665 ~~International Private Law shall apply in order in the same EU Member State, the parties can agree on~~  
666 ~~using the local law and court. If one of the parties prefers arbitration the parties can also agree on an~~  
667 ~~arbitration court. If the parties cannot come to confirm the applicable law and to determine whether a~~  
668 ~~Service Provider is established in a country or not an agreement, the Dutch laws and courts are assumed.~~

---

<sup>4</sup> ~~The Opinion 8/2010 on applicable law of the Article 29 Working Party, as updated in 2015, provides useful guidance on how to determine the applicable law in cross-national collaborations.~~

<sup>5</sup> The Opinion 8/2010 on applicable law of the Article 29 Working Party, as updated in 2015, provides useful guidance on how to determine the applicable law in cross-national collaborations.

669 ~~The Privacy Policy requires specifying the jurisdiction and the applicable law ( clause I. Information duty~~  
670 ~~towards End User.)~~

671

## 672 ~~NO.~~ ELIGIBILITY

673

The ~~Service Provider~~Code of Conduct must be implemented and executed by a duly authorized representative of the **Service Provider**.

674 Each **Service Provider** must make sure that the commitment to this Code of Conduct is ~~executed~~done by a  
675 person or by several persons who has or have the right to commit the **Service Provider** to this Code of  
676 Conduct.

677 The person administering the ~~service~~Service that receives **Attributes** must identify the person or body in  
678 his or her organisation that can decide if the **Home Organisation** commits to this Code of Conduct, as  
679 typically, the service administrator cannot take this decision on his/her own.

680

## 681 ~~OP.~~ TERMINATION OF THE CODE OF CONDUCT

682

The **Service Provider** can only terminate adherence to this Code of Conduct in case of:

- this Code of Conduct being replaced by a similar arrangement,
- the termination of the ~~service~~Service provisioning to the Home Organisation or
- the effective notification provided by the authorised by the Service Provider to terminate its adherence to this Code of Conduct

683 Even after the **Service Provider** has terminated its adherence to the Code of Conduct, the Attributes  
684 received continue to be protected by the GDPR (see ~~p. Survival of the clauses~~q. Survival of the clauses).

685

## 686 ~~PQ.~~ SURVIVAL OF THE ~~CLAUSES~~CODE OF CONDUCT

687

The **Service Provider** agrees to be bound by the provisions of this Code of Conduct that are intended to survive due to their sense and scope after the end, lapse or nullity of this Code of Conduct. ~~[reference to gdpr and other codes]~~ until the processing terminates.

688

## 689 ~~QR.~~ PRECEDENCE

690

The Service Provider warrants to comply with the stipulation that, in the event of conflict between a provision contained in this Code of Conduct and a provision of the agreement concluded between the **Service Provider** and the **Home Organisation**, the provision of the agreement concluded between **Service Provider** and **Home Organisation** takes precedence over the provision of this Code of Conduct.

In case of conflict between the provisions of the agreement between the Service Provider and the Home Organisation, this Code of Conduct and/or the data protection legislation, the following order shall prevail:

1. the processing agreement between the Home Organisation and the Service Provider
2. the provisions of this Code of Conduct; and
3. Applicable Data Protection Laws

691 If a **Service Provider** has an agreement (possibly a data processing agreement) with (some of) the **Home**  
692 **Organisation(s)** and the agreement is in conflict with this Code of Conduct, that agreement has  
693 precedence.

694 This section allows the **Service Provider** to have a bilateral agreement overriding the Code of Conduct  
695 with some **Home Organisations**, meanwhile, this Code of Conduct will still applies to the other **Home**  
696 **Organisations** that have not entered in a bilateral agreement.

## 697 ~~CONSENT~~

698 ~~The Service Provider shall request for End User's consent in the following scenarios:~~

- 699 ~~1. When the purposes are not cover in b. Purpose limitation~~
- 700 ~~2. When the attributes are released to third parties that are not part of this Code of Conduct~~
- 701 ~~3. When the attributes are released to third parties, which are not part to this Code of~~  
702 ~~Conduct, based in countries not offering an adequate level of protection.~~

703 ~~Consent must be freely given, specific, informed and must unambiguously indicate the End User's~~  
704 ~~wishes by which he or she, by a statement or by a clear affirmative action, signifies agreement to the~~  
705 ~~processing of his or her personal data.~~

706 ~~In the context of this Code of Conduct, when consent is used (e.g. d. Deviating purposes, g. Transfer of personal~~  
707 ~~data to third parties, l. Transfer to third countries ),~~

DRAFT

708 ~~it can be provided by a written statement, including by electronic means. This could include ticking a box~~  
709 ~~when visiting an internet website, choosing technical settings for information society services or another~~  
710 ~~statement or conduct which clearly indicates the data subject's acceptance of the proposed processing of~~  
711 ~~his or her personal data. Consent shall always be documented. Furthermore, the End User shall be able to~~  
712 ~~withdraw his/her consent online.~~

713 ~~Following Recital 43 of the GDPR, the Service Provider shall not rely on consent when there is a clear~~  
714 ~~imbalance between the End User and the Service Provider.~~

715

716

DRAFT



717

718

## APPENDIX 1: INFORMATION DUTY TOWARDS END USERS

719

This annex consists of two parts:

720

- I. How to develop a ~~privacy policy~~ Privacy Notice.

721

722

723

724

Although this is a mandatory obligation, practice has shown that it is a challenge for many Service Providers ~~have problems in developing to develop~~ an appropriate ~~privacy policy~~ Privacy Notice for the ~~services~~ Services they provide. A practical template is provided to assist the **Service Providers**.

725

- II. How the **Home Organisation** should inform the **End User** on the **Attribute release**.

726

727

This guideline is primarily for software developers who develop an **End User** interface for the **Attribute** release on an **Identity Provider** server.

728

729

730

731

## 732 I. HOW TO DEVELOP A ~~PRIVACY POLICY~~ PRIVACY NOTICE

733 To understand the interplay of the **Home Organisation** and the **Service Provider** within the  
734 ~~framecontext~~ of the Code of Conduct, it is necessary to know that the Identity federations (and possible  
735 interfederation services like eduGAIN) relay the following information (called ~~SAML2~~ SAML 2.0  
736 metadata) from the **Service Provider** server to the Identity Provider server managed by the Home  
737 Organisation:

- 738 ● a link to **Service Provider's** ~~privacy policy~~ Privacy Notice web page (an XML element with the  
739 name mdui:PrivacyStatementURL) which must be available at least in English.
- 740 ● the Service Provider's name and description (mdui:DisplayName and mdui:Description) at least  
741 in English. The name and description are expected to be meaningful also to the end users not  
742 affiliated with the ~~service~~ Service.
- 743 ● optionally, the **Service Provider's** logo (mdui:logo) that can facilitate the user interface.
- 744 ● the list of **Attributes** that the **Service Provider** requests from the **Home Organisation** and, for  
745 each Attribute, an indication that the Attribute is required. As the legal grounds for the attribute  
746 release (Article ~~7 of the data protection directive and Article~~ 6.1 of the GDPR), the **Home**  
747 **Organisations** are suggested to use the legitimate interests legal grounds.

## 748 PRIVACY ~~POLICY~~ NOTICE TEMPLATE

749 This template intends to assist **Service Providers** in developing a Privacy ~~POLICY~~ NOTICE document that  
750 fulfills the requirements of the GDPR and the Code of Conduct. The second column presents some  
751 examples (in italic) and proposes some issues that should be to taken into account.

752 The Privacy ~~POLICY~~ NOTICE must be provided at least in English. You can add another column to the  
753 template for a local translation of the text. Alternatively, the local translation can be a parallel page, and  
754 you can use the xml:lang element to introduce parallel language versions of the Privacy ~~POLICY~~ NOTICE  
755 page as described in SAML2 Profile for the Code of Conduct.

756

Name of the ~~service~~ Service SHOULD be the same as mdui:DisplayName  
*WebLicht*

Description of the ~~service~~ Service SHOULD be the same as mdui:Description  
*WebLicht is a service for language research. It provides an execution environment for automatic annotation of text corpora.*

Data controller and a contact person *Tübingen university, Institute for language research*  
*Laboratory manager Bob Smith, bob.smith@example.org*

Data controller's data protection officer, if applicable If the controller has a data protection officer (GDPR Section 4)  
*Chief Security Officer bill.smith@example.org*

Jurisdiction and supervisory authority The country in which the Service Provider is established and whose laws are applied.  
SHOULD be an [ISO 3166 code](#) followed by the name of the country and its subdivision if necessary for qualifying the jurisdiction.  
*DE-BW Germany Baden-Württemberg*

How to lodge a complaint to the competent Data protection authority:

*Instructions to lodge a complaint are available at ...*

Personal data processed and the legal basis *A. Personal data retrieved from your Home Organisation:*  
*- your unique user identifier (SAML persistent identifier) \**  
*- your role in your Home Organisation (eduPersonAffiliation attribute) \**  
*- your name \**

*B. Personal data gathered from yourself:*

*- logfiles on the service activity \**

*- your profile*

*...*

*\* = the personal data is necessary for providing the ~~service~~Service. Other personal data is processed because you have consented to it.*

Please make sure the list A. matches the list of requested attributes in the Service Provider's SAML 2.0 metadata.

Purpose of the processing of personal data

Don't forget to describe also the purpose of the log files, if they contain personal data (usually they do).

Third parties to whom personal data is disclosed

Notice clause ~~fj~~ of the Code of Conduct for Service Providers.

Are the 3rd parties outside EU/EEA or the countries or international organisations whose data protection EC has decided to be adequate? If yes, references to the appropriate or suitable safeguards.

How to access, rectify and delete the personal data and object its processing.

*Contact the contact person above.*

*To rectify the data released by your Home Organisation, contact your Home Organisation's IT helpdesk.*

Withdrawal of consent

If personal data is processed on user consent, how he/she can withdraw it?

Data portability

Can the user request his/her data be ported to another ~~service~~Service? How?

Data retention

When the user record is going to be deleted or anonymised? Remember, you cannot store user records infinitely. It is not sufficient that you promise to delete user records on request. Instead, consider defining an explicit period.

*Personal data is deleted on request of the user or if the user hasn't used the ~~service~~Service for 18 months.*

Data Protection Code of Conduct     *Your personal data will be protected according to the [Code of Conduct for Service Providers](#), a common standard for the research and higher education sector to protect your privacy.*

757

## 758 II. HOW THE HOME ORGANISATION SHOULD INFORM THE END USER ON THE ATTRIBUTE RELEASE

759

760 The Data protection laws create a set of requirements for the INFORM interactions with the user. This  
761 Data protection Code of Conduct proposes a division of responsibility where the INFORM interaction is  
762 carried out by the **Home Organisation** of the user, for instance, in an INFORM Graphical User Interface  
763 (GUI) installed to the Identity Provider server.

764 However, the Data protection regulators and the groups developing and enforcing these regulations  
765 recognize that there is a balance between full disclosure to meet the requirements and usability. A poor  
766 design of the user interaction screens can actually reduce the likelihood that users will understand what is  
767 happening.

## 768 LAW REQUIREMENTS

### 769 INFORMING THE END USER (“INFORM INTERACTION”)

770 For a **Home Organisation**, informing the end user can be done when a new end user gets his/her account  
771 at the institution. At that time, the **Home Organisation** has the first opportunity to inform that the user's  
772 **Attributes** may also need to be released to a **Service Provider** when he/she wants to access it. However,  
773 the law requires that, additionally, the end user needs to be informed about the specific **Attribute** release  
774 every time his/her **Attributes** are to be released to a new **Service Provider**.

775 The **Service Provider's** obligation to inform the end user depends on if it is a data processor or a  
776 controller. As a data controller, the **Service Provider** is responsible for communicating with the End user  
777 the issues above; which **Attributes** it will be using, and what it will be doing with them. As a data  
778 processor, a **Service Provider** can refer to the **Home Organisation**.

779 The Article 29 Working Party, EU advisory body contributing to the uniform application of the Data  
780 protection directive, took the view that the information must be given directly to individuals - it is not  
781 enough for information to be "available"<sup>6</sup>. In the Internet, a standard practice to inform the end user on  
782 processing his/her personal data in services is to provide him/her a Privacy [Policy Notice](#) web page in the  
783 service.

---

<sup>6</sup> Opinion 15/2011 on the definition of consent, p.20.

784 In the Web Single Sign-On scenario of SAML 2.0, a convenient place to inform the end user is at the  
785 Home Organisation before the Attribute release takes place for the first time. Several federations  
786 supporting the European higher education and research communities have already developed tools  
787 implementing this approach (e.g. the uApprove module implemented for Shibboleth, [Consent-informed](#)  
788 [Attribute Release system \(CAR\) module implemented for Shibboleth](#), the consent module implemented  
789 for SimpleSAMLphp). This allows the user's decision to directly affect the transfer of **Attributes** to the  
790 **Service Providers**; if the **Service Providers** were communicating with the user it might have already  
791 received all the **Attributes** and values.

792

## 793 GENERAL PRINCIPLES FOR INFORMING THE USER

794 Information dialogues should be short and concise.

795 The UK information commissioner proposes a "layered approach"<sup>7</sup>, the basic information should appear  
796 on the main page, and a hyperlink shall be provided for detail. Merely having a clickable link labelled  
797 "~~privacy policy~~[Privacy Notice](#) here" probably wouldn't be enough.

798 The goal is to provide a human readable form as the primary interface with the ability to click further to  
799 see what the 'technical' data is. The Acceptable Usage Policies presented by most Internet services do not  
800 suffice as they are rarely read nor understood by the users. The basic information should be provided as  
801 short accurate "user-friendly" descriptions; detailed information about "exactly what's going on" can be  
802 provided as a link.

803 Consequently, this profile recommends displaying the **Service Provider's** name, description, logo and  
804 requested attributes on the main page. If a user wants to learn more, he/she can click a link resolving to  
805 the **Service Provider's** Privacy policy. It is possible that users will actually not do the latter, but at least  
806 they have the ability to inform themselves of what is going on.

807 Layered notices can be particularly useful when describing the attribute values which will be released. In  
808 general, LDAP-style attributes are transferred to the SP. However, very few users have any familiarity  
809 with the conventions and usage of LDAP attributes. Instead, the Identity Provider could ask the user to  
810 release "name"; the link would take the user to a page listing all of the LDAP name attributes and values.

811 There are other attributes where the values are intentionally opaque (e.g.  
812 ePE="urn:mace:rediris.es:entitlement:wiki:tfemc2"). It is NOT reasonable to expect the end user to  
813 understand what this value means and to pick up a particular value to be released. Instead, natural  
814 language descriptions of the values should be provided.

---

<sup>7</sup> "A layered notice usually consists of a short notice plus a longer notice. The short notice contains basic information, such as the identity of the organisation and the way in which the personal information will be used... The short notice contains a link to a second, longer notice which provides much more detailed information." ([the UK information commissioner's Privacy Notices Code of Practice](#), page 18).

815 A good way to explain to a user why there is a transfer of information is "your email, name and affiliation  
816 will be transferred". Explaining by analogy is human, albeit not necessarily academic in all disciplines.

817

## 818 RECOMMENDATIONS

819

820 For all Attributes (INFORM interaction):

- 821 1. The user **MUST** be informed on the attribute release separately for each SP.
- 822 2. The user **MUST** be presented with the mdui:DisplayName value for the SP, if it is  
823 available.
- 824 3. The user **MUST** be presented with the mdui:Description value for the SP, if it is  
825 available.
- 826 4. The user **SHOULD** be presented with the mdui:Logo image for the SP, if it is available.
- 827 5. The user **MUST** be provided with access (e.g. a clickable link) to the document  
828 referenced by the mdui:PrivacyStatementURL.
- 829 6. The IDP **MUST** present a list of the RequestedAttributes defined as **NECESSARY**. No user  
830 consent is expected before release. (However, given how web browsers work, the user may  
831 have to click a **CONTINUE** button in order to continue in the sequence.)  
  
832 The IDP **MAY** list the **NECESSARY** attributes on the same screen as the username/password  
833 entry boxes, making clear that *if* you login then this is what will happen. It **MUST** be clear to  
834 the user that the consequence of their next action will be to release the attributes.  
835 **NOTE** -- the attribute values for the specific user are not available when the login screen is  
836 presented, since the user's identity is not yet known.
- 837 7. The display software **SHOULD** provide the ability to configure and display localised  
838 descriptions of the attributes (e.g. what PersistentID means) and their values (e.g. what  
839 eduPersonEntitlement="urn:mace:rediris.es:entitlement:wiki:tfemc2" means)
- 840 8. The display software **MAY** inform the user of the release of an "attribute group" (eg attributes  
841 expressing the user's "name"), and then release all requested attributes in the group (e.g.  
842 various forms of the user's name such as cn, sn, givenName and displayName).
- 843 9. The display software **MAY** give the user the option to remember that they have been  
844 **INFORMed** of the release of the necessary attributes.
- 845 10. If any of the following has changed since the user accessed this SP for the last time, the user  
846 **MUST** be prompted again for the **INFORM** interaction

- 847 a. the list of attributes the SP requests  
848 b. the DisplayName of the SP  
849 c. the Description of the SP

850

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851 INTERNATIONALIZATION

852 The *lang* attribute of the *mdui* elements can be used to match the user's preferred language settings.

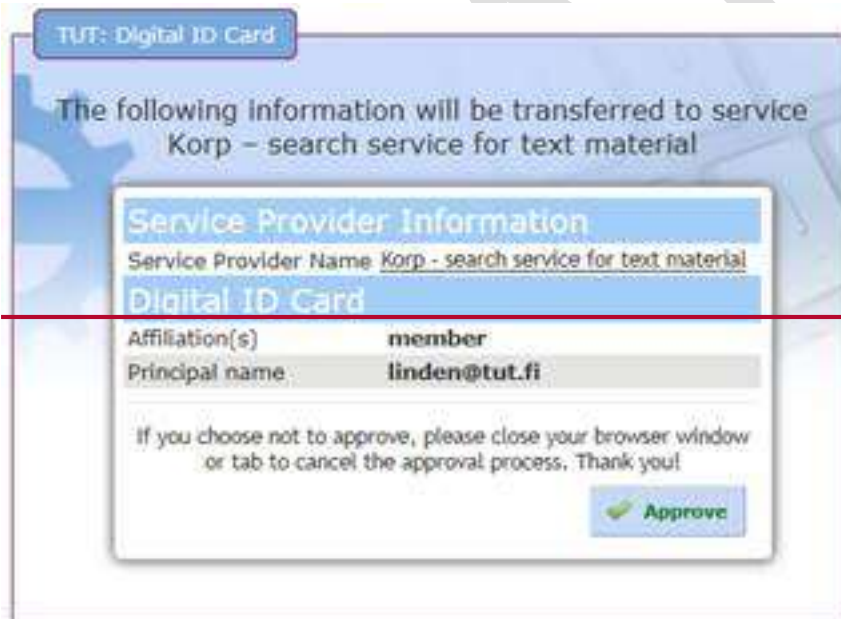
---

853 SAMPLE NOTIFICATION

854

855 Example of how a **Home Organisation** should inform **End Users** and provide an opt-out opportunity  
856 before **Attributes** are released to a new **Service Provider**. Clicking the **Service's Provider** name leads to  
857 its Privacy policy page.

858



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865 **APPENDIX 2: INFORMATION SECURITY, TECHNICAL AND ORGANISATIONAL GUIDELINES FOR**  
866 **SERVICE PROVIDERS**

867

868 This annex describes the technical and organizational security measures for protecting the **Attributes** as  
869 well as the information systems of the Service Provider where they are processed (such as a SAML SP  
870 software, the infrastructures on which the software is deployed and the application(s) it supplies with the  
871 Attributes). Note that the scope of this document is limited to what is required to protect the Attributes.  
872 The Service Provider may need to define as well other requirements for the protection of its assets.

873

874 To address the technical and organisational measures to protect the Attributes as well as the information  
875 systems of the Service Provider where they are processed, it is recommended that the **Service Providers**  
876 adopt the security measures described in the Sirtfi trust framework (ver 1.0) [SIRTFI] which are copied  
877 below for convenience.

878 **NORMATIVE ASSERTIONS**

879 In this section a set of assertions are defined that each organisation shall self-attest to so that they may  
880 participate in the Sirtfi trust framework. These are divided into four areas: operational security, incident  
881 response, traceability and participant responsibilities.

882

883 An attestation to the assertions in this document refers specifically and only to the statements in this  
884 section that are identified by labels within square brackets “[“, “[”].

885

886 How comprehensively or thoroughly each asserted capability should be implemented across an  
887 organisation’s information system assets is not specified. The investment in mitigating a risk should be  
888 commensurate with the degree of its potential impact and the likelihood of its occurrence, and this  
889 determination can only be made within each organization.

890 **1 OPERATIONAL SECURITY [OS]**

891 Managing access to information resources, maintaining their availability and integrity, and maintaining  
892 confidentiality of sensitive information is the goal of operational security.

893 **•• [OS1]** Security patches in operating system and application software are applied in a timely  
894 manner.

- 895        ●● [OS2] A process is used to manage vulnerabilities in software operated by the organisation.
- 896        ●● [OS3] Mechanisms are deployed to detect possible intrusions and protect information systems  
897                from significant and immediate threats
- 898        ●● [OS4] A user's access rights can be suspended, modified or terminated in a timely manner.
- 899        ●● [OS5] Users and Service Owners (as defined by ITIL [ITIL]) within the organisation can be  
900                contacted.
- 901        ●● [OS6] A security incident response capability exists within the organisation with sufficient  
902                authority to mitigate, contain the spread of, and remediate the effects of a security incident.

---

903    2 INCIDENT RESPONSE [IR]

904    Assertion [OS6] above posits that a security incident response capability exists within the organisation.  
905    This section's assertions describe its interactions with other organisations participating in the Sirtfi trust  
906    framework.

- 907        ●● [IR1] Provide security incident response contact information as may be requested by an R&E  
908                federation to which your organization belongs.
- 909        ●● [IR2] Respond to requests for assistance with a security incident from other organisations  
910                participating in the Sirtfi trust framework in a timely manner.
- 911        ●● [IR3] Be able and willing to collaborate in the management of a security incident with affected  
912                organisations that participate in the Sirtfi trust framework.
- 913        ●● [IR4] Follow security incident response procedures established for the organisation.
- 914        ●● [IR5] Respect user privacy as determined by the organisations policies or legal counsel.
- 915        ●● [IR6] Respect and use the Traffic Light Protocol [TLP] information disclosure policy.

---

916    3 TRACEABILITY [TR]

917    To be able to answer the basic questions "who, what, where, and when" concerning a security incident  
918    requires retaining relevant system generated information, including accurate timestamps and identifiers of  
919    system components and actors, for a period of time.

- 920        ●● [TR1] Relevant system generated information, including accurate timestamps and identifiers of  
921                system components and actors, are retained and available for use in security incident response  
922                procedures.
- 923        ●● [TR2] Information attested to in [TR1] is retained in conformance with the organisation's security  
924                incident response policy or practices.

925 4 PARTICIPANT RESPONSIBILITIES [PR]

926 All participants (IdPs and SPs) in the federations need to rely on appropriate behavior.

927 ●● [PR1] The participant has an Acceptable Use Policy (AUP).

928 ●● [PR2] There is a process to ensure that all users are aware of and accept the requirement to abide  
929 by the AUP, for example during a registration or renewal process.

930

931 REFERENCES

932 [ITIL] Axelos ITIL Glossary of Terms, <https://www.axelos.com/glossaries-of-terms>

933 [SIRTFI] A Security Incident Response Trust Framework for Federated Identity, version 1.0:  
934 <https://refeds.org/wp-content/uploads/2016/01/Sirtfi-1.0.pdf> <https://www.axelos.com/glossaries-of-terms>

935 [TLP] US Cert Traffic Light Protocol, <https://www.us-cert.gov/tlp>

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## 940 APPENDIX 3: HANDLING NON-COMPLIANCE OF SERVICE PROVIDERS

### 941 INTRODUCTION

942

943 This appendix describes examples of situations of non-compliance to the GÉANT Data Protection Code  
944 of Conduct. As a result, actions can be raised and monitoring bodies can intervene.

945 This Data protection Code of Conduct relies on the following principles:

946

947 ●● The **Home Federation** that has registered a **Service Provider** records a technical indication  
948 (currently, using a tag embedded to SAML 2.0 metadata) on the **Service Provider's** adherence to  
949 the Code of Conduct. The indication signals that the **Service Provider** believes that its  
950 ~~service~~Service is being operated in a manner that is consistent with the Code of Conduct.

951

952 ●● The technical infrastructure (currently, SAML 2.0 metadata exchange service) that the  
953 federation(s) provides delivers the indications from Service Providers to **Home Organisations'**  
954 Identity Provider servers.

955

956 ●● Reminding the **Service Provider** of a potential (suspected) non-compliance issue does not imply  
957 to make the reminding party sharing any legal responsibility with the **Service Provider**.

958

### 959 EXAMPLES OF SP NON-COMPLIANCE

960

961 The **Service Provider** can violate the Code of Conduct in several ways, such as:

962

963 ●● requesting Attributes which are not relevant for the ~~service~~Service (c.f. clause ~~b. Purpose~~  
964 ~~limitation);~~b. Purpose limitation);

965 ●● processing the Attributes for an undefined period of time (c.f. clause ~~e. Data retention~~);g. Data  
966 retention);

967 ●● processing the Attributes for a deviating purpose or transferring them to a third party in a way  
968 that violates clause ~~b. Purpose limitation and d. Deviating purposes~~b. Purpose limitation and c.  
969 Deviating purposes of the Code of Conduct (for instance, transferring the **Attributes** to a  
970 company for commercial purposes without user consent);

971 ●● Disclosing the **Attributes** (c.f. ~~clause d. Deviating purposes~~);clause c. Deviating purposes);

972 ●● Omitting to install security patches (c.f. clause ~~H. Security measures~~h. Security measures and  
973 ~~Appendix 2: Information Security, technical and organisational guidelines for Service~~  
974 ~~Providers~~);Appendix 2: Information Security, technical and organisational guidelines for Service  
975 Providers);

976 ●● Omitting to publish a ~~privacy policy~~Privacy Notice or publish an insufficient ~~privacy~~  
977 ~~policy~~Privacy Notice (c.f. clause ~~Appendix 1: Information duty towards End Users~~);Appendix 1:  
978 Information duty towards End Users).

979

980 If anyone (such as an end user, a **Home Organisation** or a Federation Operator) suspects that a **Service**  
981 **Provider** is not complying with the Code of Conduct to which it has committed, the following  
982 alternative, mutually non-exclusive, actions are suggested:

- 983 1. Contact the Service Provider directly (with a copy to the **Service Provider's** Home Federation),  
984 describing the suspected problem, and ask the **Service Provider** to check if it has a compliance  
985 problem and correct it,
- 986 2. Contact the Service Provider's Home Federation, and request to contact the **Service Provider** and  
987 to check if there is a compliance problem and request to correct it. Depending on the Home  
988 Federation's policy, there may be also additional measures available for handling non-  
989 compliance.
- 990 3. Contact the body accredited to monitor compliance with the Code of Conduct, if applicable, as  
991 defined in the Article 41 of the GDPR and below;
- 992 4. Determine the location of the legal entity operating the **Service Provider**, (see clause e), and  
993 lodge a complaint with the competent Supervisory authority (as defined in Articles 57 and 58 of  
994 the GDPR).

#### 999 CODE OF CONDUCT MONITORING BODY

000  
001 A Federation operator can nominate a body to monitor the **Service Providers'** compliance with the Code  
002 of Conduct. The monitoring body must be accredited by a competent supervisory authority pursuant to  
003 Article 41 of the GDPR.

004  
005 Only the monitoring body nominated by the Home Federation of the **Service Provider** is competent to  
006 assess the compliance of the **Service Provider** with the Code of Conduct.

007  
008 The monitoring body ~~publishes~~will make its contact details ~~and~~, procedures ~~in a~~and structures to handle  
009 complaints about infringements of the Code transparent to the public ~~and accessible~~ way.

010  
011 The monitoring body is responsible for processing complaints received from end users, Home  
012 Organisations, Federation Operators or other parties.

013  
014 Having received a complaint the monitoring body will:

- 015 I. ask the **Service Provider** to present its counterpart,
- 016 II. ~~give the Service Provider at most four weeks' time to revise the issue~~ if the  
017 monitoring body finds the **Service Provider** to be non-compliant with the Code  
018 of Conduct, give the Service Provider at most four weeks' time to revise the  
019 issue,
- 020 III. communicate the Service Provider the decision to remove the Service  
021 Provider's tag and allow the Service Provider to introduce an appeal within two  
022 weeks after the notification of the decision to the Service Provider,
- 023 IV. acknowledge receipt and consider the appeal submitted by the Service Provider,
- 024

025 III.V. mandate the Home Federation to remove the **Service Provider's** tag if the appeal  
026 has been dismissed and if the Service Provider ~~hasn't~~has not fixed the non-  
027 compliance issue within the given timeframe.

028 The **Service Provider** whose tag has been removed can reclaim the tag only after demonstrating to the  
029 monitoring body that it has returned to compliance. The Service Provider can appeal the decision of the  
030 Monitoring Body with the competent Supervisory Authority pursuant to article 41.4 of the GDPR.

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#### **APPENDIX 4: GLOSSARY OF TERMS**

**Agent:** The organisation operating the Identity Provider on behalf of the Home Organisation, if applicable.

**Attribute(s):** The End User's Personal Data as managed by the Home Organisation or its Agent and exchanged between the Service Provider, such as (but not limited to) name, e-mail and role in the Home Organisation.

**Attribute Provider:** An organization other than the Home Organisation that manages extra attributes for End Users of a Home Organisation and releases them to the Service Providers

**Data Controller:** shall mean the natural or legal person, public authority, agency or any other body which alone or jointly with others determines the purposes and means of the processing of personal data; where the purposes and means of processing are determined by national or Community laws or regulations, the controller or the specific criteria for his nomination may be designated by national or Community law

**Data Processor:** shall mean a natural or legal person, public authority, agency or any other body which processes personal data on behalf of the controller

**EEA:** European Economic Area

**End User:** any natural person affiliated with a Home Organisation, e.g. as a researcher or student, making use of the Service of a Service Provider.

**End User Consent:** any freely given, specific, informed and unambiguous indication of the End Users wishes by which he or she, by a statement or by a clear affirmative action, signifies agreement to the processing of personal data relating to him or her.

**Federation:** An association of Home Organisations and Service Providers typically organised at national level, which collaborate for allowing cross-organisational access to Services.

**Federation Operator:** An organisation that manages a trusted list of Identity and Service Providers registered to a Federation.



056 **GDPR:** Regulation (EU) 2016/679 on the protection of natural persons with regard to the  
057 processing of personal data and on the free movement of such data, and repealing Directive  
058 95/46/EC (General Data Protection Regulation).

059 **Home Organisation (HO):** The organisation with which an End User is affiliated, operating the  
060 Identity Provider by itself or through an Agent. It is responsible for managing End Users' identity  
061 data and authenticating them.

062 **Identity Provider (IdP):** The system component that issues Attribute assertions on behalf of End  
063 Users who use them to access the Services of Service Providers.

064 **Personal Data:** any information relating to an identified or identifiable natural person.

065 **Processing of personal data:** any operation or set of operations which is performed upon  
066 personal data, whether or not by automatic means, such as collection, recording, organisation,  
067 storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission,  
068 dissemination or otherwise making available, alignment or combination, blocking, erasure or  
069 destruction.

070 **Service Provider (SP):** An organisation that is responsible for offering the End User the Service  
071 he or she desires to use.

072 **Service:** An information society service, in the sense of Article 1 point 2 of Directive 98/34/EC.  
073 This means any service normally provided for remuneration, at a distance, by electronic means  
074 and at the individual request of a recipient of services.

075