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GÉANT Data Protection Code of Conduct

(GDPR Version)

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

The work leading to this Code of Conduct has received funding from the European Community's Horizon2020 programme under Grant Agreement No. 731122 (GN4-2). This work is © 2012-2018 GÉANT Ltd, used under a Creative Commons Attribution ShareAlike license (CC BY-SA 3.0)

23	TABLE OF CONTENTS	
24	Table of contents	2
25	Purpose of this Code of Conduct	4
26	Who can adhere this code of conduct?	5
27	Territorial scope	5
28	Functional Scope	5
29	Roles of the parties involved	5
30	Principles of the Processing of attributes	6
31	a. Legal compliance	6
32	b. Purpose limitation	7
33	c. Deviating purposes	9
34	d. Data minimization	9
35	e. Information duty towards End User	10
36	f. Information duty towards Home Organisation	11
37	g. Data retention	12
38	h. Security measures	13
39	i. Security breaches	13
40	j. Transfer of personal data to third parties	14
41	k. Transfer of personal data to third countries	15
42	l. End User's consent	16
43	m. Liability	16
44	n. Governing law and jurisdiction	17
45	o. Eligibility	17
46	p. Termination of the Code of Conduct	17
47	q. Survival of the code of conduct	18

48	r. Precedence	18
49	Appendix 1: Information duty towards End Users	20
50	I. How to develop a Privacy Notice	20
51	Privacy Notice Template	20
52	II. How the Home Organisation should inform the End User on the Attribute release	23
53	Law requirements	23
54	Informing the end user (“INFORM interaction”)	23
55	General Principles for informing the user	24
56	Recommendations	24
57	Internationalization	25
58	Sample notification	25
59	Appendix 2: Information Security, technical and organisational guidelines for Service Providers	27
60	Normative Assertions	27
61	1 Operational Security [OS]	27
62	2 Incident Response [IR]	28
63	3 Traceability [TR]	28
64	4 Participant Responsibilities [PR]	28
65	References	28
66	Appendix 3: Handling non-compliance of service providers	30
67	Introduction	30
68	Examples of SP non-compliance	30
69	Code of Conduct monitoring body	31
70	Appendix 4: Glossary of Terms	32
71		

72 PURPOSE OF THIS CODE OF CONDUCT

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

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

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

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

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

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

95 These appendices relate to:

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

99 Following article 40.2 of the GDPR, this Code of Conduct specifies the application of the GDPR for
100 online access management in the research and education sector, such as with regard to the following
101 principles:

- 102 (a) fair and transparent processing;
- 103 (b) the legitimate interests pursued by controllers in specific contexts;
- 104 (c) the collection of personal data;

¹ For further information regarding the purposes of this Code of Conduct, see the Explanatory Memorandum GEANT Code of Conduct.

- 105 (d) the pseudonymisation of personal data;
- 106 (e) the information provided to the public and to data subjects;
- 107 (f) the exercise of the rights of data subjects;
- 108 (g) the measures and procedures referred to in Articles 24 and 25 of the GDPR and the measures
109 to ensure security of processing referred to in Article 32 of the GDPR;
- 110 (h) the notification of personal data breaches to supervisory authorities and the communication of
111 such personal data breaches to data subjects;
- 112 (i) the transfer of personal data to third countries or international organisations; or
- 113 (j) out-of-court proceedings and other dispute resolution procedures for resolving disputes
114 between controllers and data subjects with regard to processing, without prejudice to the rights of
115 data subjects pursuant to Articles 77.

116 WHO CAN ADHERE THIS CODE OF CONDUCT?

117 TERRITORIAL SCOPE

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

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

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

129 FUNCTIONAL SCOPE

130 This Code of Conduct is limited to the processing of **Attributes which are released for enabling access**
131 **to the Service** as described in clause [b. Purpose limitation](#).

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

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

137 ROLES OF THE PARTIES INVOLVED

138 This Code of Conduct is addressed to Service Providers acting as data controllers without prejudice to the
139 processing agreement between the Service Provider and the Home Organisation as described in clause [r.](#)
140 [Precedence](#).

141 In the context of this Code of Conduct:

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

147 2. A **Service Provider** acts as a data controller in respect of the **Attributes**, processing them for the
148 purposes as described in the clause [b. Purpose limitation](#). In certain circumstances a **Service**
149 **Provider** may be acting as a data processor, acting on behalf and as instructed by the **Home**
150 **Organisation**.

151 3. An **End User** acts as a data subject whose personal data are being processed for the purposes as
152 described in clause [b. Purpose limitation](#).

153 The processing of the **Attributes** by the **Service Provider** for enabling access to the Service is further
154 explained in the Service-related Privacy Notice.

155 In the case that a Federation and a Federation Operator do not process the **Attributes** of the **End User**, no
156 specific privacy notice needs to be put in place between the End User and the Federation Operator.

157 PRINCIPLES OF THE PROCESSING OF ATTRIBUTES

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

159 A. LEGAL COMPLIANCE

160

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 GDPR.

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

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

163 2. the provisions of this Code of Conduct;

164 3. the relevant provisions of the GDPR.

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

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

171 **Service Providers** established outside the EEA territory but in a country offering an adequate data
172 protection pursuant to Article 45 of the GDPR, should assess the compliance of this Code of Conduct
173 with their laws of its jurisdiction. If observance of any provision of the Code of Conduct would place the
174 Service Provider in breach of such laws, the national law of his jurisdiction shall prevail over such
175 provision of the Code of Conduct, and compliance with national law to this extent will not be deemed to
176 create any non-compliance by the Service Provider with this Code of Conduct.

177 The **Service Provider** based outside the EEA and countries offering adequate data protection commits to
178 process the End User's Attributes in accordance with the GDPR, this Code of Conduct and any other
179 contractual or other arrangements, such as the use of EU model clauses. Such Service Providers shall
180 make binding and enforceable commitments to apply the appropriate safeguards, including as regards data
181 subjects' rights, in addition to committing to abide by this Code of Conduct.

182 **Service Providers** may be subject to internal regulations and policies of Intergovernmental
183 Organisations.

184 Regarding the applicable law, see clause [n. Governing law and jurisdiction](#).

185 In the event of conflict between the provisions of this Code of Conduct and the provisions of a contractual
186 arrangement with the Home Organisation, see clause [r. Precedence](#).

187 B. PURPOSE LIMITATION

188

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

189

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

192 The Service Provider must ensure that Attributes are used only for enabling access to the Service. As far
193 as the use of Attributes deviating purposes is concerned, see clause [c. Deviating purposes](#).

194 In practice, enabling access to the Service covers:

- 195 • **Authorisation:** i.e. managing **End User's** access rights to Services provided by the **Service**
196 **Provider** based on the **Attributes**. Examples of such **Attributes** are those describing the End
197 User's **Home Organisation** and organisation unit, their role and position in the **Home**
198 **Organisation** (whether they are university members, students, administrative staff, etc.) and, for
199 instance, the courses they are taking or teaching. The provenance of those **Attributes** is important

200 for information security purposes; therefore, authorisation cannot be based on an Attribute that a
201 user has self-asserted.

202 • **Identification** i.e. **End Users** need to have a personal account to be able to access their own files,
203 datasets, pages, documents, postings, settings, etc. The origin of an **Attribute** used for
204 identification is important; to avoid an identity theft, one cannot self-assert their own identifier.
205 Instead, the Identity Provider server authenticates them and provides the **Service Provider** an
206 **Attribute** that contains their authenticated identifier.

207 • **Transferring real-world trust** to the online world i.e. if the **Service Provider** supports a user
208 community that exists also in the real world, **Attributes** can be used to transfer that community to
209 the online world. For instance, if the members of the user community know each other by name
210 in the real world, it is important that their names (or other identifiers) are displayed also in any
211 discussion or collaboration forum offered by the **Service Provider**. The source of those
212 **Attributes** is important; to avoid identity theft, one must retrieve users' names from trustworthy
213 sources and not rely on self-assertions.

214 • **Researcher unambiguity** i.e. ensuring that a researcher's scientific contribution is associated
215 properly to them and not to a wrong person (with potentially the same name or initials). In the
216 research sector, publishing scientific results is part of researchers' academic career and the
217 researchers expect to receive the merit for their scientific contribution. There are global
218 researcher identification systems (such as ORCID and ISNI) which assign identifiers for
219 researchers to help scientific Service Providers to properly distinguish between researchers, even
220 if they change their names or organisation they are affiliated with.

221 • **Accounting and billing:** Personal data can be processed for accounting (for instance, that the
222 consumption of resources does not exceed the resource quota) and billing purposes. In the
223 research and education sector, the bill is not always paid by the End User but by their Home
224 Organisation, project, grant or funding agency.

225 • **Information Security:** personal data can be processed to ensure the integrity, confidentiality and
226 availability of the Service (e.g.: incident forensic and response).

227 • **Other functionalities** offered by the **Service Provider** for enabling access to the Services, i.e.
228 using **Attributes** of users for the purposes of other functionalities offered by the Service
229 Provider. It is common that services on the Internet send e-mail or other notifications to their
230 users regarding their services. Examples of scenarios where processing End User's email address
231 or other contact detail falls within the scope of enabling access to the service include for instance:

232 ▪ the End User's application to access the resources has been approved by
233 the resource owner;

234 ▪ the End User's permission to use a resource is expiring or they are
235 running out of the resource allocation quota;

236 ▪ someone has commented on the End User's blog posting or edited their
237 wiki page.

238 See also the next clause on deviating purposes.

239 C. DEVIATING PURPOSES

240

The Service Provider commits not to process the Attributes for purposes other than enabling access, unless the End User has given prior consent to the Service Provider.

241 If the Service Provider wants to use the Attributes for purposes other than “enabling access to the
242 Service” (see [b. Purpose limitation](#)), it can only do so if the End User gives his or her consent to the
243 Service Provider. See also clause [1. End User's consent](#) for the requirements on consent.

244 Examples of deviating purposes² are: sending the End User commercial or unsolicited messages,
245 including End User's e-mail address to a newsletter offering new services, selling the Attributes to third
246 parties, transferring information to third parties such as the search history, profiling activities etc.

247 D. DATA MINIMIZATION

248

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.

249 The following list presents examples of Attributes that are **adequate, relevant and not excessive** for
250 enabling access in the context of the Service:

- 251 • an attribute (such as, eduPerson(Scoped)Affiliation, eduPersonEntitlement or
252 schacHomeOrganisation) indicating the End User's permission to use the Service:
 - 253 ▪ a trusted value provided by the IdP is needed instead of a value self-
254 asserted by the End User
- 255 • an attribute (such as, SAML2 PersistentId) uniquely identifying the End User required, for
256 instance, to store the End User's Service profile:
 - 257 ▪ a trusted value provided by the IdP is needed. The End User cannot self-
258 assert their unique identifier
- 259 • if there are several alternative unique identifiers available for the Service, the least intrusive must
260 be used:

² 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.

- 261 ▪ a pseudonymous bilateral identifier (such as, SAML2 persistentId) is
262 preferred
- 263 ▪ if enabling access to the Service requires matching the same End User's
264 accounts between two Service Providers, a Service Provider can request
265 a more intrusive identifier (such as eduPersonPrincipalName or
266 eduPersonUniqueID), whose value for a given user is shared by several
267 Service Providers
- 268 ▪ if there is a legitimate reason for an End User (such as, a researcher) to
269 keep their identity and profile in the Service Provider even when the
270 organisation they are affiliated with changes, a permanent identifier
271 (such as, ORCID identifier) can be used
- 272 ● a name attribute (such as commonName or DisplayName attribute) is necessary for a wiki or
273 other collaboration platform, if the End Users know each other in real life and need to be able to
274 transfer their existing real-world trust to an online environment.
- 275 ▪ if knowing the contributor's name is important for the collaboration, the
276 name can be released.
- 277 ▪ otherwise, the user may be indicated as "unknown" or a pseudonym the
278 user has selected or the system has assigned to him/her.
- 279 ● e-mail address or other contact details, if it is necessary to contact the **End User** for the proper
280 functioning of the Services offered by the **Service Provider**.

281 In the context of this Code of Conduct, under no circumstances a **Service Provider** is authorized to
282 request End User's Attribute revealing racial or ethnic origin, political opinions, religious or philosophical
283 beliefs, trade-union membership, genetic data, biometric data for the purposes of uniquely identifying a
284 natural person or data concerning health or sex life or sexual orientation.

285

286 E. INFORMATION DUTY TOWARDS END USER

287

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;

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

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

293 The **Service Provider** may include additional information, but must include as a minimum the
294 information described above. The additional information could for example refer to the additional data
295 processing activities of the **Service Provider**. Additional processing activities must comply with the
296 provisions of clause [c. Deviating purposes](#) and be included in the Privacy Notice.

297 The Service Providers are advised to make use of the Privacy Notice template that belongs to the
298 supporting material of the Code of Conduct in [Appendix 1: Information duty towards End Users](#).

299 F. INFORMATION DUTY TOWARDS HOME ORGANISATION

300

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.

301 GÉANT has put in place a scalable technical solution allowing Service Providers to add their adherence
302 to this Code of Conduct and to communicate its Privacy Notice's URL. This information is shared with
303 the Home Organisation's Identity Provider server prior to sharing the End User's Attributes to the Service
304 Provider, enabling the Home Organisation to present it to the End User as described in [Appendix 1.II](#).

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

308 G. DATA RETENTION

309

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

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

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

315 The **Service Provider** has to implement an adequate data retention policy compliant with the GDPR and
316 other applicable data protection legislation. The existence of this policy must be communicated in the
317 Service Provider's Privacy Notice (see clause [e. Information duty towards End User](#)).

318 For instance, the **Attributes** could be deleted after the expiration of the **End User's** session in the web
319 Service. On the other hand, for other Services, it may be necessary to store the **Attributes** for a longer
320 period of time.

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

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

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

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

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

- 336 • if the Service is a repository where researchers publish their scientific findings and contribution,
337 the researchers still want to have their name and other **Attributes** attached to the finding,
338 although they do not regularly log in.
- 339 • if the Service is a collaborative application (such as, a wiki or a discussion board) where the **End**
340 **User** has their name or other **Attribute** attached to their contribution to let the other users learn
341 and assess the provenance of the contribution and attribute it to a specific person.

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

- 344 • for archiving purposes in the public interest, scientific or historical research purposes or statistical
345 purposes;
- 346 • for compliance with a legal obligation which requires processing by International, European or
347 Member State law to which the **Service Provider** is subject;
- 348 • for the performance of a task carried out in the public interest;
- 349 • for the establishment, exercise or defence of legal claims, such as resource allocation or invoices;
- 350 • for exercising the right of freedom of expression and information.

351 H. SECURITY MEASURES

352

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.

353 The **Service Provider** shall implement the security measures described in [Appendix 2: Information](#)
354 [Security, technical and organisational guidelines for Service Providers](#). The Service Provider can also
355 implement such additional security measures which, evaluated together, provide at least the same level of
356 security as the level of security provided by the measures described in Appendix 2.

357 I. SECURITY BREACHES

358

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.

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

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

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

371 J. TRANSFER OF PERSONAL DATA TO THIRD PARTIES

372

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 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.

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

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

379
380 b) if the third party is also committed to the Code of Conduct. This is expected to be the case for
381 various collaborative research scenarios, where the Service is provided to the **End User** by
382 several data controllers working in collaboration.

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

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

391 In a Service Provider proxy set-up, the organisation acting as the proxy (and operating the
392 proxy server) needs to assume a role as the intermediary between the **Home Organisation**
393 and the third party. For instance, the proxy needs to relay the suspected privacy or security
394 breaches to the **Home Organisation** or its Agent, as described in clause [h. Security measures](#).

395 c) if prior consent has been given by the **End User**. For the requirements of such consent, see
396 clause [l. End User's consent](#).

397 If transfer to a third party includes also a transfer to a third country, the next clause imposes further
398 requirements.

399 K. TRANSFER OF PERSONAL DATA TO THIRD COUNTRIES

400

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.

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

405 ▪ **Consent of the End User:** The unambiguous consent of the data subject legitimates data transfers
406 to third countries, even if the recipient does not offer an adequate level of protection. The Service
407 Provider may rely on the End User's freely given informed revocable Consent as described in
408 clause [l. End User's consent](#).

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

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

421 Notice that if transferring Attributes to a third country involves also a transferring them to a third party,
422 also clause [j. Transfer of personal data to third parties](#) needs to be satisfied.

423 L. END USER'S CONSENT

424

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.

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

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

434 Notice that this Code of Conduct for Service Providers does not make normative requirements on the
435 Home Organisation's legal grounds to release Attributes to the Service Provider. However, the user
436 interaction presented in Appendix 1 assumes the Attribute release is not based on the End User's consent.

437 M. LIABILITY

438

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.

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

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

446

447 N. GOVERNING LAW AND JURISDICTION

448

This Code of Conduct shall be interpreted in the light of the GDPR and of the guidance issued by the European 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 legislation or courts of one of the EU Member States.

449 If there are disputes regarding the validity, interpretation or implementation of this Code of Conduct, the
450 parties shall agree on how and where to settle them, based on guidance issued by the regulatory
451 authorities such as the European Data Protection Board or its predecessor.³ For instance, if there is a
452 dispute between a Home Organisation and Service Provider who are established in the same EU Member
453 State, the parties can agree on using the local law and court. If one of the parties prefers arbitration the
454 parties can also agree on an arbitration court. If the parties cannot come to an agreement, the Dutch laws
455 and courts are assumed.

456 O. ELIGIBILITY

457

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

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

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

463

464 P. TERMINATION OF THE CODE OF CONDUCT

465

³ 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.

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 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

466 Even after the **Service Provider** has terminated its adherence to the Code of Conduct, the Attributes
467 received continue to be protected by the GDPR (see [q. Survival of the clauses](#)).

468

469 Q. SURVIVAL OF THE CODE OF CONDUCT

470

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 until the processing terminates.

471

472 R. PRECEDENCE

473

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

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

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

480

481 APPENDIX 1: INFORMATION DUTY TOWARDS END USERS

482 This annex consists of two parts:

483 I. How to develop a Privacy Notice.

484 Although this is a mandatory obligation, practice has shown that it is a challenge for many
485 **Service Providers** to develop an appropriate Privacy Notice for the Services they provide. A
486 practical template is provided to assist the **Service Providers**.

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

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

490 I. HOW TO DEVELOP A PRIVACY NOTICE

491 To understand the interplay of the **Home Organisation** and the **Service Provider** within the context of
492 the Code of Conduct, it is necessary to know that the Identity federations (and possible interfederation
493 services like eduGAIN) relay the following information (called SAML 2.0 metadata) from the **Service**
494 **Provider** server to the Identity Provider server managed by the Home Organisation:

- 495 ● a link to **Service Provider's** Privacy Notice web page (an XML element with the name
496 mdui:PrivacyStatementURL) which must be available at least in English.
- 497 ● the Service Provider's name and description (mdui:DisplayName and mdui:Description) at least
498 in English. The name and description are expected to be meaningful also to the end users not
499 affiliated with the Service.
- 500 ● optionally, the **Service Provider's** logo (mdui:logo) that can facilitate the user interface.
- 501 ● the list of **Attributes** that the **Service Provider** requests from the **Home Organisation** and, for
502 each Attribute, an indication that the Attribute is required. As the legal grounds for the attribute
503 release (Article 6.1 of the GDPR), the **Home Organisations** are suggested to use the legitimate
504 interests legal grounds.

505 PRIVACY NOTICE TEMPLATE

506 This template intends to assist **Service Providers** in developing a Privacy Notice document that fulfills
507 the requirements of the GDPR and the Code of Conduct. The second column presents some examples (in
508 italic) and proposes some issues that should be taken into account.

509 The Privacy Notice must be provided at least in English. You can add another column to the template for
510 a local translation of the text. Alternatively, the local translation can be a parallel page, and you can use
511 the xml:lang element to introduce parallel language versions of the Privacy Notice page as described in
512 SAML2 Profile for the Code of Conduct.

513

Name of the Service SHOULD be the same as mdui:DisplayName

	<i>WebLicht</i>
Description of the Service	<p>SHOULD be the same as mdui:Description</p> <p><i>WebLicht is a service for language research. It provides an execution environment for automatic annotation of text corpora.</i></p>
Data controller and a contact person	<p><i>Tübingen university, Institute for language research</i></p> <p><i>Laboratory manager Bob Smith, bob.smith@example.org</i></p>
Data controller's data protection officer, if applicable	<p>If the controller has a data protection officer (GDPR Section 4)</p> <p><i>Chief Security Officer bill.smith@example.org</i></p>
Jurisdiction and supervisory authority	<p>The country in which the Service Provider is established and whose laws are applied.</p> <p>SHOULD be an ISO 3166 code followed by the name of the country and its subdivision if necessary for qualifying the jurisdiction.</p> <p><i>DE-BW Germany Baden-Württemberg</i></p> <p>How to lodge a complaint to the competent Data protection authority:</p> <p><i>Instructions to lodge a complaint are available at ...</i></p>
Personal data processed and the legal basis	<p><i>A. Personal data retrieved from your Home Organisation:</i></p> <ul style="list-style-type: none"><i>- your unique user identifier (SAML persistent identifier) *</i><i>- your role in your Home Organisation (eduPersonAffiliation attribute) *</i><i>- your name *</i> <p><i>B. Personal data gathered from yourself:</i></p> <ul style="list-style-type: none"><i>- logfiles on the service activity *</i>

- *your profile*

...

** = the personal data is necessary for providing the 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 j 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? 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 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.*

514

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

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

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

524 LAW REQUIREMENTS

525 INFORMING THE END USER (“INFORM INTERACTION”)

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

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

535 The Article 29 Working Party, EU advisory body contributing to the uniform application of the Data
536 protection directive, took the view that the information must be given directly to individuals - it is not
537 enough for information to be "available"⁴. In the Internet, a standard practice to inform the end user on
538 processing his/her personal data in services is to provide him/her a Privacy Notice web page in the
539 service.

540 In the Web Single Sign-On scenario of SAML 2.0, a convenient place to inform the end user is at the
541 Home Organisation before the Attribute release takes place for the first time. Several federations
542 supporting the European higher education and research communities have already developed tools
543 implementing this approach (e.g. the uApprove module implemented for Shibboleth, Consent-informed
544 Attribute Release system (CAR) module implemented for Shibboleth, the consent module implemented

⁴ Opinion 15/2011 on the definition of consent, p.20.

545 for SimpleSAMLphp). This allows the user's decision to directly affect the transfer of **Attributes** to the
546 **Service Providers**; if the **Service Providers** were communicating with the user it might have already
547 received all the **Attributes** and values.

548

549 GENERAL PRINCIPLES FOR INFORMING THE USER

550 Information dialogues should be short and concise.

551 The UK information commissioner proposes a "layered approach"⁵, the basic information should appear
552 on the main page, and a hyperlink shall be provided for detail. Merely having a clickable link labelled
553 "Privacy Notice here" probably wouldn't be enough.

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

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

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

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

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

573

574 RECOMMENDATIONS

⁵ "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).

575 For all Attributes (INFORM interaction):

- 576 1. The user **MUST** be informed on the attribute release separately for each SP.
- 577 2. The user **MUST** be presented with the `mdui:DisplayName` value for the SP, if it is
578 available.
- 579 3. The user **MUST** be presented with the `mdui:Description` value for the SP, if it is
580 available.
- 581 4. The user **SHOULD** be presented with the `mdui:Logo` image for the SP, if it is available.
- 582 5. The user **MUST** be provided with access (e.g. a clickable link) to the document
583 referenced by the `mdui:PrivacyStatementURL`.
- 584 6. The IDP **MUST** present a list of the `RequestedAttributes` defined as **NECESSARY**. No user
585 consent is expected before release. (However, given how web browsers work, the user may
586 have to click a **CONTINUE** button in order to continue in the sequence.)
- 587 The IDP **MAY** list the **NECESSARY** attributes on the same screen as the username/password
588 entry boxes, making clear that *if* you login then this is what will happen. It **MUST** be clear to
589 the user that the consequence of their next action will be to release the attributes.
590 **NOTE** -- the attribute values for the specific user are not available when the login screen is
591 presented, since the user's identity is not yet known.
- 592 7. The display software **SHOULD** provide the ability to configure and display localised
593 descriptions of the attributes (e.g. what `PersistentID` means) and their values (e.g. what
594 `eduPersonEntitlement="urn:mace:rediris.es:entitlement:wiki:tfemc2"` means)
- 595 8. The display software **MAY** inform the user of the release of an "attribute group" (eg attributes
596 expressing the user's "name"), and then release all requested attributes in the group (e.g.
597 various forms of the user's name such as `cn`, `sn`, `givenName` and `displayName`).
- 598 9. The display software **MAY** give the user the option to remember that they have been
599 **INFORMed** of the release of the necessary attributes.
- 600 10. If any of the following has changed since the user accessed this SP for the last time, the user
601 **MUST** be prompted again for the **INFORM** interaction
- 602 a. the list of attributes the SP requests
603 b. the `DisplayName` of the SP
604 c. the `Description` of the SP

605

606 INTERNATIONALIZATION

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

608 SAMPLE NOTIFICATION

609

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

613



614

615

616

617

618

619 **APPENDIX 2: INFORMATION SECURITY, TECHNICAL AND ORGANISATIONAL GUIDELINES FOR**
620 **SERVICE PROVIDERS**

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

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

630 **NORMATIVE ASSERTIONS**

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

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

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

640 **1 OPERATIONAL SECURITY [OS]**

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

- 643 • [OS1] Security patches in operating system and application software are applied in a timely
644 manner.
- 645 • [OS2] A process is used to manage vulnerabilities in software operated by the organisation.
- 646 • [OS3] Mechanisms are deployed to detect possible intrusions and protect information systems
647 from significant and immediate threats
- 648 • [OS4] A user’s access rights can be suspended, modified or terminated in a timely manner.
- 649 • [OS5] Users and Service Owners (as defined by ITIL [ITIL]) within the organisation can be
650 contacted.

- 651 • [OS6] A security incident response capability exists within the organisation with sufficient
652 authority to mitigate, contain the spread of, and remediate the effects of a security incident.

653 | 2 INCIDENT RESPONSE [IR]

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

- 657 • [IR1] Provide security incident response contact information as may be requested by an R&E
658 federation to which your organization belongs.
- 659 • [IR2] Respond to requests for assistance with a security incident from other organisations
660 participating in the Sirtfi trust framework in a timely manner.
- 661 • [IR3] Be able and willing to collaborate in the management of a security incident with affected
662 organisations that participate in the Sirtfi trust framework.
- 663 • [IR4] Follow security incident response procedures established for the organisation.
- 664 • [IR5] Respect user privacy as determined by the organisations policies or legal counsel.
- 665 • [IR6] Respect and use the Traffic Light Protocol [TLP] information disclosure policy.

666 | 3 TRACEABILITY [TR]

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

- 670 • [TR1] Relevant system generated information, including accurate timestamps and identifiers of
671 system components and actors, are retained and available for use in security incident response
672 procedures.
- 673 • [TR2] Information attested to in [TR1] is retained in conformance with the organisation's security
674 incident response policy or practices.

675 | 4 PARTICIPANT RESPONSIBILITIES [PR]

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

- 677 • [PR1] The participant has an Acceptable Use Policy (AUP).
- 678 • [PR2] There is a process to ensure that all users are aware of and accept the requirement to abide
679 by the AUP, for example during a registration or renewal process.

680

681 | REFERENCES

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

683 [SIRTFI] A Security Incident Response Trust Framework for Federated Identity, version 1.0:
684 <https://refeds.org/wp-content/uploads/2016/01/Sirtfi-1.0.pdf>

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

686

687

688

689

690 APPENDIX 3: HANDLING NON-COMPLIANCE OF SERVICE PROVIDERS

691 INTRODUCTION

692

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

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

696

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

701

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

705

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

708

709 EXAMPLES OF SP NON-COMPLIANCE

710

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

712

- 713 ● requesting Attributes which are not relevant for the Service (c.f. clause b. Purpose limitation);
- 714 ● processing the Attributes for an undefined period of time (c.f. clause g. Data retention);
- 715 ● processing the Attributes for a deviating purpose or transferring them to a third party in a way
716 that violates clause b. Purpose limitation and c. Deviating purposes of the Code of Conduct (for
717 instance, transferring the **Attributes** to a company for commercial purposes without user
718 consent);
- 719 ● Disclosing the **Attributes** (c.f. clause c. Deviating purposes);
- 720 ● Omitting to install security patches (c.f. clause h. Security measures and Appendix 2: Information
721 Security, technical and organisational guidelines for Service Providers);
- 722 ● Omitting to publish a Privacy Notice or publish an insufficient Privacy Notice (c.f. clause
723 Appendix 1: Information duty towards End Users).

724

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

728

- 729 1. Contact the Service Provider directly (with a copy to the **Service Provider's** Home Federation),
730 describing the suspected problem, and ask the **Service Provider** to check if it has a compliance
731 problem and correct it,

- 732 2. Contact the Service Provider's Home Federation, and request to contact the **Service Provider** and
733 to check if there is a compliance problem and request to correct it. Depending on the Home
734 Federation's policy, there may be also additional measures available for handling non-
735 compliance.
- 736 3. Contact the body accredited to monitor compliance with the Code of Conduct, if applicable, as
737 defined in the Article 41 of the GDPR and below;
- 738 4. Determine the location of the legal entity operating the **Service Provider** (see clause e), and
739 lodge a complaint with the competent Supervisory authority (as defined in Articles 57 and 58 of
740 the GDPR).
741

742 CODE OF CONDUCT MONITORING BODY

743
744 A Federation operator can nominate a body to monitor the **Service Providers'** compliance with the Code
745 of Conduct. The monitoring body must be accredited by a competent supervisory authority pursuant to
746 Article 41 of the GDPR.

747
748 Only the monitoring body nominated by the Home Federation of the **Service Provider** is competent to
749 assess the compliance of the **Service Provider** with the Code of Conduct.

750
751 The monitoring body will make its contact details, procedures and structures to handle complaints about
752 infringements of the Code transparent to the public.

753
754 The monitoring body is responsible for processing complaints received from end users, Home
755 Organisations, Federation Operators or other parties.

756
757 Having received a complaint the monitoring body will:

- 758
759 I. ask the **Service Provider** to present its counterpart,
760 II. if the monitoring body finds the **Service Provider** to be non-compliant with the
761 Code of Conduct, give the **Service Provider** at most four weeks' time to revise
762 the issue,
763 III. communicate the **Service Provider** the decision to remove the **Service**
764 **Provider's** tag and allow the **Service Provider** to introduce an appeal within two
765 weeks after the notification of the decision to the **Service Provider**,
766 IV. acknowledge receipt and consider the appeal submitted by the **Service Provider**,
767 V. mandate the Home Federation to remove the **Service Provider's** tag if the appeal
768 has been dismissed and if the Service Provider has not fixed the non-compliance
769 issue within the given timeframe.

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

773 APPENDIX 4: GLOSSARY OF TERMS

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

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

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

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

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

788 **EEA:** European Economic Area

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

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

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

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

798 **GDPR:** Regulation (EU) 2016/679 on the protection of natural persons with regard to the
799 processing of personal data and on the free movement of such data, and repealing Directive
800 95/46/EC (General Data Protection Regulation).

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

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

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

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

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

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

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