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# **REFEDS Data Protection Code of Conduct**

## **REFEDS Best Practice**

Draft **xx xx xxxx**

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65

## PURPOSE OF THIS CODE OF CONDUCT

66 This Code of Conduct relates to the processing of personal data for online access management purposes  
67 in the research and education sector as a best practice set of guidelines to help to meet the requirements  
68 set by the General Data Protection Regulation<sup>1</sup>. This Code of Conduct is not endorsed by the European  
69 Data Protection Board and is therefore only considered as a Best Current Practice.

70 Notwithstanding the provisions as set forth in an agreement between the **Home Organisation** and the  
71 **Service Provider Organisation**, which in all cases takes precedence, this Code of Conduct sets the rules  
72 that **Service Provider Organisations** can commit to when they want to receive **End Users' Attributes**  
73 from **Home Organisations** or their Agent for enabling the **End Users** to access their Services. **Home**  
74 **Organisations** will feel more comfortable to release affiliated **End Users' Attributes** to the **Service**  
75 **Provider Organisation** if they can see that the **Service Provider Organisation** has taken measures to  
76 properly protect the **Attributes**.

77 This Code of Conduct constitutes a binding community code for the **Service Provider Organisations** that  
78 have committed to it.

79 This Code includes three appendices, detailing best practices on how to adhere to the rules of the Code.  
80 These appendices relate to:

- 81 (1) Principles of the processing of attributes
- 82 (2) Glossary of Terms
- 83 (3) Purpose limitation and data minimisation

84

## WHO CAN ADHERE THIS CODE OF CONDUCT?

85

### Territorial Scope

86 This Code of Conduct is addressed to any **Service Provider Organisation** established in any of the  
87 Member States of the European Union and in any other countries belonging to the European Economic  
88 Area (Iceland, Liechtenstein and Norway).

89 Furthermore, **Service Provider Organisations** established in any third country or International  
90 organization offering an adequate level of data protection in the terms of Article 45 of the GDPR or  
91 appropriate safeguards in the terms of the Article 46 of the GDPR can also subscribe to this Code of  
92 Conduct.

93

### Functional Scope

94 This Code of Conduct is limited to the processing of **Attributes which are released for enabling the**  
95 **End User to access the Service** as described in clause B. Purpose Limitation.

96 In case the **Service Provider Organisation** uses the **Attributes** for purposes other than enabling the **End**  
97 **User** to access the Service, these activities fall out of the scope of this Code of Conduct.

98 The **Service Provider Organisations** and the communities representing the **Service Provider**  
99 **Organisations** can agree to apply the Code of Conduct also to other **Attributes**, such as those the **Service**  
100 **Provider Organisations** manage and share themselves, as further described in the Attribute Providers  
101 section.

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<sup>1</sup> 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).

102

## ROLES OF THE PARTIES INVOLVED

103 This Code of Conduct is addressed to **Service Provider Organisations** acting as data controllers  
104 notwithstanding potential processing agreement between the **Service Provider Organisation** and the  
105 **Home Organisation** as described in clause Q. Precedence.

106 In the context of this Code of Conduct:

- 107 1. A **Home Organisation** acts as a data controller as to the wider relationship with the **End User**,  
108 for example operating the Identity Provider (IdP) server in respect of the **Attributes**. An Agent  
109 who operates the IdP server on behalf of the **Home Organisation** acts as a data processor. This  
110 includes also the Federation Operators who operate a (potentially centralised) IdP server on behalf  
111 of the **Home Organisation**.
- 112 2. A **Service Provider Organisation** acts as a data controller in respect of the **Attributes**,  
113 processing them for the purposes as described in the clause B. Purpose Limitation. In certain  
114 circumstances a **Service Provider Organisation** may be acting as a data processor, acting on  
115 behalf and as instructed by the **Home Organisation**. A **Service Provider Organisation** can also  
116 manage (and be a Data Controller for) extra **Attributes** of an **End User** and further become an  
117 Attribute Provider, as described in the Attribute Providers section. A **Service Provider**  
118 **Organisation** may manage several independent Services and commits to the Code of Conduct for  
119 each of them separately.
- 120 3. An **End User** acts as a data subject whose personal data are being processed for the purposes as  
121 described in clause B. Purpose Limitation.

122 The processing of the **Attributes** by the **Service Provider Organisation** for enabling the **End User** to  
123 access the Service is further explained in the Service-related Privacy Notice.

124

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

- 127 A. **Legal Compliance;** The Service Provider Organisation warrants to only process the Attributes in  
128 accordance with: the relevant provisions of the GDPR, this Code of Conduct and a contractual  
129 agreement with the Home Organisation, if any.
- 130 B. **Purpose Limitation;** The Service Provider Organisation warrants that it will process Attributes of  
131 the End User only for the purposes of enabling access to the Service. The **Service Provider**  
132 **Organisation** commits not to process the **Attributes** for purposes other than enabling the **End User**  
133 to access the Service.
- 134 C. **Data Minimisation;** The Service Provider Organisation commits to minimise the Attributes  
135 requested to those that are adequate, relevant and not excessive for enabling access to the Service  
136 and, where a number of Attributes could be used to provide access to the Service, to use the least  
137 intrusive Attributes possible.
- 138 D. **Information Duty Towards End Users;** The Service Provider Organisation shall provide the End  
139 User with a publicly readable Privacy Notice before they initiate the federated login for the first  
140 time. This Privacy Notice must be concise, transparent, intelligible and provided in an easily  
141 accessible form. The Privacy Notice shall contain at least the following information:
- 142 a. the name, address and jurisdiction of the Service Provider Organisation; where applicable;
  - 143 b. the contact details of the data protection officer, where applicable;
  - 144 c. the purpose or purposes of the processing of the Attributes;
  - 145 d. a description of the Attributes being processed as well as the legal basis for the processing;
  - 146 e. the third party recipients or categories of third party recipient to whom the Attributes might  
147 be disclosed, and proposed transfers of Attributes to countries outside of the European  
148 Economic Area;
  - 149 f. the existence of the rights to access, rectify and delete the Attributes held about the End  
150 User;
  - 151 g. the retention period of the Attributes;
  - 152 h. the right to lodge a complaint with a Supervisory Authority.
- 153 E. **Information Duty Towards Home Organisation;** The Service Provider Organisation commits to  
154 provide to the Home Organisation or its Agent at least the following information:
- 155 a. a machine-readable link to the Privacy Notice;
  - 156 b. indication of commitment to this Code of Conduct;
  - 157 c. any relevant updates or changes in the local data protection legislation that may affect this  
158 Code of Conduct.
- 159 F. **Data Retention;** The Service Provider Organisation shall delete or anonymize all Attributes without  
160 undue delay as soon as they are no longer necessary for the purposes of providing the Service.
- 161 G. **Security Measures;** The Service Provider Organisation warrants taking appropriate technical and  
162 organisational measures to safeguard Attributes against accidental or unlawful destruction or  
163 accidental loss, alteration, unauthorised disclosure or access. These measures shall ensure a level of  
164 security appropriate to the risks represented by the processing and the nature of the data to be  
165 protected, having regard to the state of the art and the cost of their implementation.

- 166 H. **Security Breaches;** The Service Provider Organisation commits to, without undue delay, report all  
167 suspected privacy or security breaches, meaning any breach of security leading to the accidental or  
168 unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, personal data  
169 transmitted, stored or otherwise processed concerning the Attributes to the Home Organisation or  
170 its Agent and, where this is legally required, to the competent data protection authority and/or to the  
171 End Users whose data are concerned by the security or privacy breach.
- 172 I. **Transfer of Personal Data to Third Parties;** The Service Provider Organisation shall not transfer  
173 Attributes to any third party (such as a collaboration partner) except:
- 174 a. if mandated by the Service Provider Organisation for enabling the End User to access its  
175 Service on its behalf, or;
- 176 b. if the third party is committed to the Code of Conduct or has undertaken similar duties  
177 considered sufficient under the data protection law applicable to the Service Provider  
178 Organisation or;
- 179 c. if prior consent has been given by the End User.
- 180 J. **Transfer of Personal Data to Third Countries;** The Service Provider Organisation guarantees  
181 that, when transferring Attributes to a party that is based outside the European Economic Area or in  
182 a country without an adequate level of data protection pursuant to Article 45.1 of the GDPR or the  
183 recipient is an International Organisation, to take appropriate safeguards or use the derogations  
184 pursuant to Article 49.
- 185 K. **End User's Consent;** When consent is used, as per Article 7 of GDPR, inter alia, it must be freely  
186 given, specific, informed and must unambiguously indicate the End User's wishes by which they,  
187 by a statement or by a clear affirmative action, signify agreement to the processing of their personal  
188 data. Furthermore, the End Users shall be able to withdraw their consent.
- 189 L. **Liability;** The Service Provider Organisation agrees to hold harmless the End User and the Home  
190 Organisation (as well as the Agent) who has suffered damage as a result solely of any violation of  
191 this Code of Conduct by the Service Provider Organisation as determined in a binding and  
192 enforceable judicial ruling.
- 193 M. **Governing Law and Jurisdiction;** This Code of Conduct shall be interpreted in the light of the  
194 GDPR and of the guidance issued by the European Data Protection Board or its predecessor, always  
195 notwithstanding any privileges and immunities of Service Provider Organisations being  
196 International Organisations, as these are awarded by their constituent and/or statutory documents  
197 and international law. If there are any disputes regarding the validity, interpretation or  
198 implementation of this Code of Conduct, the parties shall agree on how and where to settle them.
- 199 N. **Eligibility;** The Code of Conduct must be implemented and executed by a duly authorised  
200 representative of the Service Provider Organisation.
- 201 O. **Termination of the Code of Conduct;** The Service Provider Organisation can only terminate  
202 adherence to this Code of Conduct in case of:
- 203 a. this Code of Conduct being replaced by a similar arrangement, or;
- 204 b. the termination of the Service provisioning to the Home Organisation or;
- 205 c. the effective notification provided by the authorised representative of the Service Provider  
206 Organisation to terminate its adherence to this Code of Conduct.
- 207 P. **Survival of the Code of Conduct;** The Service Provider Organisation agrees to be bound by the  
208 provisions of this Code of Conduct that are intended to survive due to their sense and scope after the  
209 end, lapse or nullity of this Code of Conduct until the processing terminates.
- 210 Q. **Precedence;** The Service Provider Organisation warrants to comply with the stipulation that, in the

211 event of conflict between a provision contained in this Code of Conduct and a provision of the  
212 agreement concluded between the Service Provider Organisation and the Home Organisation, the  
213 provision of the agreement concluded between Service Provider Organisation and Home  
214 Organisation takes precedence over the provision of this Code of Conduct.  
215 In case of conflict between the provisions of the agreement between the Service Provider  
216 Organisation and the Home Organisation, this Code of Conduct and/or the data protection  
217 legislation, the following order shall prevail:

- 218 a. the agreement between the Home Organisation and the Service Provider Organisation;
- 219 b. applicable Data Protection Laws (such as other country specific law on Data protection or  
220 Privacy); and
- 221 c. the provisions of this Code of Conduct.

222 Appendix 1 provides a normative interpretation of the above principles.

## 223 **ATTRIBUTE PROVIDERS**

224 An Attribute Provider is an organisation other than the Home Organisation that manages extra Attributes for  
225 End Users of a Home Organisation and releases them to the Service Provider Organisation.

226 According to Section Functional Scope, the **Service Provider Organisation** and the communities  
227 representing the **Service Provider Organisation** can agree to apply the Code of Conduct also to other  
228 **Attributes**, such as those the **Service Provider Organisations** manage and share themselves. The  
229 organisation managing the extra **Attributes** becomes an Attribute Provider.

230 When the Code of Conduct is applied to **Attributes** managed by Attribute Providers, the **Service Provider**  
231 **Organisation** further agrees and warrants the following:

- 232 - (see clause H. Security Breaches) the **Service Provider Organisation** commits to report all  
233 suspected privacy or security breaches also to the Attribute Provider;
- 234 - (see clause L. Liability) the **Service Provider Organisation** agrees to hold harmless also the  
235 Attribute Provider who has suffered damage as a result solely of any violation of this Code of  
236 Conduct by the **Service Provider Organisation** as determined in a binding and enforceable  
237 judicial ruling;
- 238 - (see clause Q. Precedence) the **Service Provider Organisation** warrants to comply also with the  
239 stipulation that, in the event of conflict between a provision contained in this Code of Conduct  
240 and a provision of the agreement concluded between the **Service Provider Organisation** and the  
241 Attribute Provider, the provision of the agreement concluded between **Service Provider**  
242 **Organisation** and Attribute Provider takes precedence over the provision of this Code of  
243 Conduct.

## APPENDIX 1: PRINCIPLES OF THE PROCESSING OF ATTRIBUTES

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

### A. Legal compliance

The **Service Provider Organisation** warrants to only process the **Attributes** in accordance with: the relevant provisions of the GDPR, this Code of Conduct and a contractual agreement with the **Home Organisation**, if any.

The **Service Provider Organisation** shall ensure that all personal data processing activities carried out in this context comply with the GDPR.

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

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

The **Service Provider Organisation** based outside the EEA and countries offering adequate data protection commits to process the End User's **Attributes** in accordance with the GDPR, this Code of Conduct and any other contractual or other arrangements, such as the use of EU model clauses. Such **Service Provider Organisations** shall make binding and enforceable commitments to apply the appropriate safeguards, including as regards data subjects' rights<sup>2</sup>, in addition to committing to abide by this Code of Conduct.

**Service Provider Organisations** that are International Organisations may be subject to their own internal rules, regulations and policies. Such International Organisations, which may not be subject to GDPR, shall make binding and enforceable commitments to apply appropriate safeguards.

Regarding the applicable law, see clause M. Governing Law and Jurisdiction.

In the event of conflict between the provisions of this Code of Conduct and the provisions of a contractual arrangement with the **Home Organisation**, see clause Q. Precedence.

### B. Purpose Limitation

The **Service Provider Organisation** warrants that it will process **Attributes** of the **End User** only for the purposes of enabling access to the Service. The **Service Provider Organisation** commits not to process the **Attributes** for purposes other than enabling the **End User** to access the Service.

The **Service Provider Organisation** must ensure that **Attributes** are used only for enabling the **End User** to access the Service. See Appendix 3 for how this shall be interpreted.

<sup>2</sup> In the event where an EU End User would lodge a complaint against a Service Provider Organisation based outside the EU (i.e. in the US), the competent European Data Protection Authority would be able to investigate on the alleged violation of data protection.



283 The Attributes shall not be further processed in a manner which is not compatible with the initial purposes  
284 (Article 5.b of the GDPR). Processing of Attributes for any purpose other than enabling the End User to  
285 access the Service is outside the scope of this Code of Conduct.

286 Examples of purposes other than enabling access to the service (deviating purposes<sup>3</sup>) are: sending the **End**  
287 **User** commercial or unsolicited messages, including End User's e-mail address to a newsletter offering  
288 new services, selling the **Attributes** to third parties, transferring information to third parties such as the  
289 search history, profiling activities etc.

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### 295 C. Data Minimisation

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

299 See Appendix 3 for how data minimisation is coupled with the purpose limitation (Clause B) and how it  
300 maps to the **Attributes** commonly available from the **Home organisations**.

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

### 305 D. Information Duty Towards End Users

306 The **Service Provider Organisation** shall provide the **End User** with a publicly readable Privacy Notice  
307 before they initiate the federated login for the first time. This Privacy Notice must be concise, transparent,  
308 intelligible and provided in an easily accessible form. The Privacy Notice shall contain at least the  
309 following information:

- 310 a. the name, address and jurisdiction of the **Service Provider Organisation**; where applicable;
- 311 b. the contact details of the data protection officer, where applicable;
- 312 c. the purpose or purposes of the processing of the **Attributes**;
- 313 d. a description of the **Attributes** being processed as well as the legal basis for the processing;
- 314 e. the third party recipients or categories of third party recipient to whom the **Attributes** might be  
315 disclosed, and proposed transfers of **Attributes** to countries outside of the European Economic Area;
- 316 f. the existence of the rights to access, rectify and delete the **Attributes** held about the End User;
- 317 g. the retention period of the **Attributes**;

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<sup>3</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.

318 | h. the right to lodge a complaint with a Supervisory Authority.

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

322 The Privacy Notice can be Service specific and does not need to be the same for different Services of a  
323 **Service Provider Organisation**.

324 The **Service Provider Organisation** needs to describe in its Privacy Notice how **End Users** can exercise  
325 their right to access, request correction and request deletion of their personal data.

326 The **Service Provider Organisation** may include additional information, but must include as a minimum  
327 the information described above. The additional information could for example refer to the additional data  
328 processing activities of the **Service Provider Organisation**.

329 The **Service Provider Organisations** are advised to make use of the Privacy Notice template that belongs  
330 to the supporting material of the Code of Conduct.

### 331 E. Information Duty Towards Home Organisation

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

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

338 The technical infrastructure allows **Service Provider Organisations** to publicly announce their  
339 adherence to this Code of Conduct and to communicate its Service Privacy Notice's URL. When a **Service**  
340 **Provider Organisation** has several Service Privacy Notices, the URL of each Service Privacy Notice will  
341 be provided to the **Home Organisation**. This information is shared with the **Home Organisation's**  
342 Identity Provider before it releases the End User's **Attributes** to the **Service Provider Organisation**,  
343 enabling the **Home Organisation** to present it to the End User.

### 344 F. Data Retention

345 The **Service Provider Organisation** shall delete or anonymize all **Attributes** without undue delay as  
346 soon as they are no longer necessary for the purposes of providing the Service.

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

349 The retention period of the **Attributes** depends on the particularities of the Service and it needs to be  
350 decided by the **Service Provider Organisation**. However, a **Service Provider Organisation** shall not  
351 store the **Attributes** for an unlimited or indefinite period of time. The **Service Provider Organisation**  
352 has to implement an adequate data retention policy compliant with the GDPR and other applicable data  
353 protection legislation. The existence of this policy must be communicated in the Service's Privacy Notice  
354 (see clause D. Information Duty Towards End Users). In principle the personal data must be deleted or  
355 anonymised if the **End User** (or their **Home Organisation**) no longer wishes to use the Service.

356 However, in many cases, the **End User** does not explicitly inform the **Service Provider Organisation**  
357 that they no longer wish to use the Service, they just do not log in to the Service anymore. In this case it  
358 is considered as a good practice to delete or anonymise the **End User's** personal data if they have not

359 logged in for 18 months.

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

- 363 ● if the Service is an archive for scientific data, the researchers who deposit their datasets to the  
364 archive may still remain the owners or custodians of the dataset although they do not log in for a  
365 while;
- 366 ● if the Service is a source code control system (for example, git), an **End User** uses to publish their  
367 computer program code, the **End User** may still want to be able to log in and maintain their code,  
368 although they have not logged in for a while;
- 369 ● if the Service is a repository where researchers publish their scientific findings and contribution,  
370 the researchers still want to have their name and other **Attributes** attached to the finding, although  
371 they do not regularly log in;
- 372 ● if the Service is a collaborative application (such as, a wiki or a discussion board) where the **End**  
373 **User** has their name or other **Attribute** attached to their contribution to let the other users learn  
374 and assess the provenance of the contribution and attribute it to a specific person.

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

- 377 ● for archiving purposes in the public interest, scientific or historical research purposes or statistical  
378 purposes;
- 379 ● for compliance with a legal obligation which requires processing by International, European or  
380 Member State law to which the **Service Provider Organisation** is subject;
- 381 ● for the performance of a task carried out in the public interest;
- 382 ● for the establishment, exercise or defense of legal claims, such as resource allocation or invoices;
- 383 ● for exercising the right of freedom of expression and information.

## 384 G. Security Measures

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

390 The **Service Provider Organisation** shall implement the security measures described in the Security  
391 Incident Response Trust Framework for Federated Identity (Sirtfi) and signal it to the **Identity Provider**.

## 392 H. Security Breaches

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

399 Article 33 of the GDPR describes the conditions when a personal data breach must be notified to the

400 supervisory authority. This clause imposes an obligation to notify also the **Home Organisation**, to allow  
401 them to take the necessary technical and organisational measures for mitigating any risk the **Home**  
402 **Organisation** may be exposed to.

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

407 The **Service Provider Organisation** shall use the security contact point of the **Home Organisation** or its  
408 Agent as provided in the technical infrastructure (currently, SAML 2.0 metadata), or an appropriate  
409 alternative, for the reporting.

## 410 I. Transfer of Personal Data to Third Parties

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

- 413 a. if mandated by the **Service Provider Organisation** for enabling the **End User** to access its Service  
414 on its behalf, or;
- 415 b. if the third party is committed to the Code of Conduct or has undertaken similar duties considered  
416 sufficient under the data protection law applicable to the **Service Provider Organisation** or;
- 417 c. if prior consent has been given by the End User.

418 The **Service Provider Organisation** shall not transfer **Attributes** to any third party (third party means a  
419 data controller other than the **Home organisation** or the Service Provider Organisation such as a  
420 collaboration partner) except:

- 421 a. if the third party is a data processor for the **Service Provider Organisation** in which case an  
422 ordinary controller-processor relationship applies between the **Service Provider Organisation**  
423 and the third party working on behalf of the **Service Provider Organisation**. The **Service**  
424 **Provider Organisation** must conclude a written agreement with such data processor in  
425 accordance with applicable laws.
- 426 b. if the third party is committed to the Code of Conduct. This is expected to be the case for various  
427 collaborative research scenarios, where the Service is provided to the **End User** by several data  
428 controllers working in collaboration.

429 A typical scenario is where a research collaboration has a **Service Provider Organisation** that  
430 receives **Attributes** from **Home Organisations** and passes on (parts of) those **Attributes** to third  
431 parties providing the actual Services. In this case, where the **Service Provider Organisation** acts  
432 as a proxy for the third parties, the **Service Provider Organisation** must ensure that all third  
433 parties receiving **Attributes** are committed to the Code of Conduct or similar (such as a Data  
434 Processing Agreement or a Data Transfer Agreement).

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

438 The organisation operating a proxy service, as described above, must act as intermediary between  
439 the **Home Organisation** and the third party. For instance, the proxy needs to relay the suspected  
440 privacy or security breaches to the **Home Organisation** or its Agent, as described in clause G.  
441 Security Measures.

- 442 c. if prior consent has been given by the **End User**. For the requirements of such consent, see clause  
443 K. End User's Consent.

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

## 446 J. Transfer of Personal Data to Third Countries

447 The **Service Provider Organisation** guarantees that, when transferring **Attributes** to a party that is based  
448 outside the European Economic Area or in a country without an adequate level of data protection pursuant  
449 to Article 45.1 of the GDPR or the recipient is an International Organisation, to take appropriate safeguards  
450 or use the derogations pursuant to Article 49.

451 Under European data protection legislation, transfers of personal data from the European Economic Area  
452 to third countries that do not offer an adequate level of data protection are restricted, unless the recipient  
453 territory ensures so-called "*appropriate safeguards*":

- 454 ● The existence of an appropriate contractual framework, supported by Standard contract clauses,  
455 either adopted by the European Commission or by a supervisory authority,
- 456 ● The use of appropriate safeguards such as Binding Corporate Rules or other legally binding and  
457 enforceable instruments are recognised methods of transferring personal data.

458 The use of Standard contract clauses does not exclude the possibility for the contracting parties to include  
459 them in a wider contract nor to add other clauses as long as they do not enter in contradiction. When using  
460 EU model clauses, the **Service Provider Organisation** needs to verify and ascertain that the other party  
461 is able to comply with all contractual obligations set out in the model clauses, especially taking into  
462 account local law applicable to such party.

463 If the appropriate safeguards cannot be applied,, Article 49 of the GDPR provides with an exhaustive list  
464 of *derogations* for the consideration of the Service Provider Organisation.

465 If transferring **Attributes** to a third country involves also a transferring them to a third party, also clause  
466 I. Transfer Of Personal Data To Third Parties needs to be satisfied.

## 467 K. End User's Consent

468 When consent is used, as per Article 7 of GDPR, inter alia, it must be freely given, specific, informed and  
469 must unambiguously indicate the End User's wishes by which they, by a statement or by a clear affirmative  
470 action, signify agreement to the processing of their personal data. Furthermore, the **End Users** shall be  
471 able to withdraw their consent.

472 When a **Service Provider Organisation** relies on End User's consent (e.g. clause I. Transfer of Personal  
473 Data to Third Parties, clause J. Transfer of Personal Data to Third Countries), it can be provided by a  
474 written statement, including by electronic means. This could include ticking a box when visiting an  
475 internet website, choosing privacy settings options of a software or another statement or conduct (i.e. a  
476 clear affirmative action) which clearly indicates the data subject's acceptance of the proposed processing  
477 of their personal data. Consent shall always be documented.

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

480 Notice that this Code of Conduct for **Service Provider Organisations** does not make normative  
481 requirements on the **Home Organisation's** legal grounds to release **Attributes** to the **Service Provider**  
482 **Organisation**.

## 483 L. Liability

484 The **Service Provider Organisation** agrees to hold harmless the **End User** and the **Home Organisation**

485 (as well as the Agent) who has suffered damage as a result solely of any violation of this Code of Conduct  
486 by the **Service Provider Organisation** as determined in a binding and enforceable judicial ruling.

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

490 For example, in case an **End User** files a complaint against their **Home Organisation** for unlawful release  
491 of **Attributes** after a **Service Provider Organisation** has released the **Attributes** to a third party, the  
492 **Service Provider Organisation** agrees to assume the liabilities of the **Home Organisation** towards the  
493 **End User** in respect of a breach of this Code of Conduct by the **Service Provider Organisation**.

494 A **Service Provider Organisation** shall be exempt from liability if it proves that it is not in any way  
495 responsible for the event giving rise to the damage.

## 496 M. Governing Law and Jurisdiction

497 This Code of Conduct shall be interpreted in the light of the GDPR and of the guidance issued by the  
498 European Data Protection Board or its predecessor<sup>4</sup>, always notwithstanding any privileges and  
499 immunities of **Service Provider Organisations** being International Organisations, as these are awarded  
500 by their constituent and/or statutory documents and international law.

501 If there are any disputes regarding the validity, interpretation or implementation of this Code of Conduct,  
502 the parties shall agree on how and where to settle them.

503 This Code of Conduct shall be interpreted in the light of the GDPR and of guidance issued by the  
504 regulatory authorities such as the European Data Protection Board.

505 If there are disputes regarding the validity, interpretation or implementation of this Code of Conduct which  
506 cannot be settled amicably, the parties shall agree on how and where to settle them. For instance, if there  
507 is a dispute between a **Home Organisation** and **Service Provider Organisation** who are established in  
508 the same EU Member State, the parties can agree on using the local law and court. If the parties cannot  
509 come to an agreement, the Dutch laws and courts are assumed.

510 If at least one party to the dispute is an International Organisation, the dispute must be submitted to final  
511 and binding arbitration. In the absence of agreement over applicable arbitration rules, any dispute,  
512 controversy or claim arising out of or in relation to this Code of Conduct, or the existence, interpretation,  
513 application, breach, termination, or invalidity thereof, shall be settled by arbitration in accordance with  
514 the PCA Arbitration Rules 2012.

## 515 N. Eligibility

516 The Code of Conduct must be implemented and executed by a duly authorised representative of the  
517 **Service Provider Organisation**.

518 Each **Service Provider Organisation** must make sure that the commitment to this Code of Conduct is  
519 done by a person or by several persons (sometimes called a “signature authority”) who has or have the  
520 right to commit the **Service Provider Organisation** to this Code of Conduct.

521 The person administering the Service that receives **Attributes** must identify the person or body in their  
522 organisation that can decide if the **Service Provider Organisation** commits to this Code of Conduct, as  
523 the Service administrator cannot necessarily take this decision on their own.

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<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.

## 524 O. Termination of the Code of Conduct

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

- 526 ● this Code of Conduct being replaced by a similar arrangement, or;
- 527 ● the termination of the Service provisioning to the **Home Organisation** or;
- 528 ● the effective notification provided by the authorised representative of the **Service Provider**
- 529 **Organisation** to terminate its adherence to this Code of Conduct.

530 Even after the **Service Provider Organisation** has terminated its adherence to the Code of Conduct, the

531 **Attributes** received continue to be protected by the principles enshrined in this Code of Conduct (see

532 clause P. Survival of the Code of Conduct).

## 533 P. Survival of the Code of Conduct

534 The **Service Provider Organisation** agrees to be bound by the provisions of this Code of Conduct that

535 are intended to survive due to their sense and scope after the end, lapse or nullity of this Code of Conduct

536 until the processing terminates.

## 537 Q. Precedence

538 The **Service Provider Organisation** warrants to comply with the stipulation that, in the event of conflict

539 between a provision contained in this Code of Conduct and a provision of the agreement concluded

540 between the **Service Provider Organisation** and the **Home Organisation**, the provision of the agreement

541 concluded between **Service Provider Organisation** and **Home Organisation** takes precedence over the

542 provision of this Code of Conduct.

543 In case of conflict between the provisions of the agreement between the **Service Provider Organisation**

544 and the **Home Organisation**, this Code of Conduct and/or the data protection legislation, the following

545 order shall prevail:

- 546 1. the agreement between the **Home Organisation** and the **Service Provider Organisation**;
- 547 2. applicable Data Protection Laws (such as other country specific law on Data protection or Privacy);
- 548 and
- 549 3. the provisions of this Code of Conduct.

550 If a **Service Provider Organisation** has an agreement (possibly a data processing agreement) with (some

551 of) the **Home Organisation(s)** and the agreement is in conflict with this Code of Conduct, that agreement

552 has precedence.

553 This section allows the **Service Provider Organisation** to have a bilateral agreement overriding the Code

554 of Conduct with some **Home Organisations**, meanwhile, this Code of Conduct will still apply to the other

555 **Home Organisations** that have not entered into a bilateral agreement.

556

- 558 **Agent:** the organisation operating the Identity Provider on behalf of the Home Organisation, if applicable.
- 559 **Attribute(s):** the End User's Personal Data as managed by the Home Organisation (or its Agent) and  
560 requested by the Service Provider Organisation, such as (but not limited to) name, e-mail and role in the  
561 Home Organisation.
- 562 **Attribute Provider:** an organisation other than the Home Organisation that manages extra Attributes for  
563 End Users of a Home Organisation and releases them to the Service Provider Organisations.
- 564 **Data Controller:** the natural or legal person, public authority, agency or any other body which alone or  
565 jointly with others determines the purposes and means of the processing of personal data; where the  
566 purposes and means of processing are determined by national or Community laws or regulations, the  
567 controller or the specific criteria for their nomination may be designated by national or Community law
- 568 **Data Processor:** a natural or legal person, public authority, agency or any other body which processes  
569 personal data on behalf of the controller.
- 570 **EEA:** European Economic Area.
- 571 **End User:** any natural person affiliated with a Home Organisation, e.g. as a researcher or student, making  
572 use of the Service of a Service Provider Organisation.
- 573 **End User's consent:** any freely given, specific, informed and unambiguous indication of the End Users  
574 wishes by which they, by a statement or by a clear affirmative action, signify agreement to the processing  
575 of personal data relating to them.
- 576 **Federation:** an association of Home Organisations and Service Provider Organisations typically  
577 organised at national level, which collaborate for allowing cross-organisational access to Services.
- 578 **Federation Operator:** an organisation that manages a trusted list of Identity Providers and Services  
579 registered to a Federation.
- 580 **GDPR:** Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of  
581 personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data  
582 Protection Regulation).
- 583 **Home Organisation :** the organisation with which an End User is affiliated, operating the Identity  
584 Provider by itself or through an Agent. It is responsible for managing End Users' identity data and  
585 authenticating them.
- 586 **Identity Provider (IdP):** the system component that issues Attribute assertions on behalf of End Users  
587 who use them to access the Services of Service Provider Organisations.
- 588 **International Organisation:** an organization and its subordinate bodies governed by public international  
589 law, or any other body which is set up by, or on the basis of, an agreement between two or more countries.
- 590 **Personal Data:** any information relating to an identified or identifiable natural person.
- 591 **Processing of personal data:** any operation or set of operations which is performed upon personal data,  
592 whether or not by automatic means, such as collection, recording, organisation, storage, adaptation or  
593 alteration, retrieval, consultation, use, disclosure by transmission, dissemination or otherwise making  
594 available, alignment or combination, blocking, erasure or destruction.
- 595 **Service:** an information society service, in the sense of Article 1 point 2 of Directive 98/34/EC. This  
596 means any service provided, at a distance, by electronic means and at the individual request of a recipient  
597 of services.
- 598 **Service Provider Organisation:** an organisation that is responsible for offering the End User the Service



599 they desire to use.

600 **Supervisory Authority:** an independent public authority responsible for monitoring the application of the  
601 GDPR and the national data protection legislations in order to protect the rights and freedoms of the data  
602 subjects in relation to the processing of their personal data.

603 **APPENDIX 3: PURPOSE LIMITATION AND DATA MINIMISATION**

604 Clause B requires that the Service Provider Organisation will process Attributes of the End User only for  
605 the purposes of enabling them to access the Service Provider and Clause C requires that the Attributes  
606 must be adequate, relevant and not excessive for that purpose. This appendix discusses what enabling an  
607 end user to access a service means and proposes some Attributes commonly available in Home  
608 Organisations that may serve the need.

609 **Authorisation:**

- 610 • **Description:** managing **End User's** access rights to Services provided by the **Service Provider**  
611 **Organisation** based on the **Attributes**. Examples of such **Attributes** are those describing the  
612 End User's **Home Organisation** and organisation unit, their role and position in the **Home**  
613 **Organisation** (whether they are university members, students, administrative staff, etc.) and, for  
614 instance, the courses they are taking or teaching. The provenance of those **Attributes** is important  
615 for information security purposes; therefore, authorisation cannot be based on an **Attribute** that  
616 an **End User** has self-asserted.
- 617 • Suggested Attributes:
  - 618 • eduPerson(Scoped)Affiliation,
  - 619 • eduPersonEntitlement
  - 620 • schacHomeOrganisation

621 **Identification:**

- 622 • **Description:** **End Users** need to have a personal identifier with the **Service Provider**  
623 **Organisation** to be able to access their own files, datasets, pages, documents, postings, settings,  
624 etc. The origin of an **Attribute** used for identification is important; to avoid an identity theft, an  
625 **End User** cannot self-assert their own identifier. Instead, the Identity Provider authenticates them  
626 and the **Home Organisation** (or Attribute Provider) provides the **Service Provider Organisation**  
627 with an **Attribute** that contains their authenticated identifier.
- 628 • Suggested Attributes:
  - 629 • a pseudonymous bilateral identifier (such as, SAML2 PairwiseID or PersistentID) is  
630 preferred;
  - 631 • if enabling access to the Service requires matching the same End User's accounts  
632 between two **Service Provider Organisations**, a **Service Provider Organisation** can  
633 request a more intrusive identifier (such as SAML2 Subject ID,  
634 eduPersonPrincipalName or eduPersonUniqueID), whose value for a given user is  
635 shared by several **Service Provider Organisations**;
  - 636 • if there is a legitimate reason for an **End User** (such as a researcher) to keep their  
637 identity and profile in the **Service Provider Organisation** even when the organisation  
638 they are affiliated with changes, a permanent identifier (such as, ORCID identifier) can  
639 be used.

640 **Transferring real-world trust** to the online world:

- 641 • **Description:** if the **Service Provider Organisation** supports a user community that exists also  
642 in the real world, **Attributes** can be used to transfer that community to the online world. For  
643 instance, if the members of the user community know each other by name in the real world, it is  
644 important that their names (or other identifiers) are displayed also in any discussion or  
645 collaboration forum offered by the **Service Provider Organisation**. The source of those  
646 **Attributes** is important; to avoid identity theft, the **Service Provider Organisation** must retrieve

647 users' names from trustworthy sources and not rely on self- assertions.

648 ● Suggested Attributes:

649 ● displayName

650 ● commonName, surName, GivenName

#### 651 **Researcher unambiguity:**

652 ● **Description:** ensuring that a researcher's scientific contribution is associated properly to them  
653 and not to a wrong person (with potentially the same name or initials). In the research sector,  
654 publishing scientific results is part of researchers' academic career and the researchers expect to  
655 receive the merit for their scientific contribution<sup>5</sup>. There are global researcher identification  
656 systems (such as ORCID and ISNI) which assign identifiers for researchers to help scientific  
657 **Service Provider Organisations** to properly distinguish between researchers, even if they change  
658 their names or organisation they are affiliated with.

659 ● Suggested Attributes:

660 ● eduPersonOrcid

#### 661 **Accounting and billing:**

662 ● **Description:** personal data can be processed for accounting (for instance, that the consumption  
663 of resources does not exceed the resource quota) and billing purposes. In the research and  
664 education sector, the bill is not always paid by the **End User** but by their **Home Organisation**,  
665 project, grant or funding agency.

#### 666 **Information Security:**

667 ● **Description:** personal data can be processed to ensure the integrity, confidentiality and  
668 availability of the Service (e.g.: incident forensic and response). This requires collecting proper  
669 audit trail from the service.

#### 670 **Other functionalities:**

671 ● **Description: Other functionalities** offered by the **Service Provider Organisation** for enabling  
672 the **End User** to access the Service. It is common that services on the Internet send e-mail or other  
673 notifications to their users regarding their services. Examples of scenarios where processing End  
674 User's e-mail address or other contact detail falls within the scope of enabling access to the  
675 Service include for instance:

676 ● the End User's application to access the resources has been approved by the resource  
677 owner;

678 ● the End User's permission to use a resource is expiring or they are running out of the  
679 resource allocation quota;

680 ● someone has commented on the End User's blog posting or edited their wiki page.

681 ● Suggested Attributes:

682 ● mail

683

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<sup>5</sup> See Article 27(2) of the Universal Declaration of Human Rights.