GÉANT Data Protection Code of Conduct

(GDPR Version)

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PURPOSE OF THIS CODE OF CONDUCT

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

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

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

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

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

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

These appendices relate to:

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

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

(a) fair and transparent processing;

¹ For further information regarding the purposes of this Code of Conduct, see the Explanatory Memorandum GEANT Code of Conduct.
(b) the legitimate interests pursued by controllers in specific contexts;

(c) the collection of personal data;

(d) the pseudonymisation of personal data;

(e) the information provided to the public and to data subjects;

(f) the exercise of the rights of data subjects;

(g) the measures and procedures referred to in Articles 24 and 25 of the GDPR and the measures to ensure security of processing referred to in Article 32 of the GDPR;

(h) the notification of personal data breaches to supervisory authorities and the communication of such personal data breaches to data subjects;

(i) the transfer of personal data to third countries or international organisations; or

(j) out-of-court proceedings and other dispute resolution procedures for resolving disputes between controllers and data subjects with regard to processing, without prejudice to the rights of data subjects pursuant to Articles 77.

[1]

WHO CAN ADHERE THIS CODE?

TERRITORIAL SCOPE

This Code of Conduct applies globally to any Service Provider Organisation that has committed to adhere to it, irrespective of its country of establishment.

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

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

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

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

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

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

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

[2]

ROLES OF THE PARTIES INVOLVED

This Code of Conduct is addressed to Service Providers acting as data controllers without prejudice to the notwithstanding potential processing agreement between the Service Provider Organisation and the Home Organisation as described in clause **r. Precedence**.

In the context of this Code of Conduct:

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

2. A **Service Provider Organisation** acts as a data controller in respect of the **Attributes**, processing them for the purposes as described in the clause **b. Purpose limitation**. In certain circumstances a **Service Provider Organisation** may be acting as a data processor, acting on behalf and as instructed by the **Home Organisation**. A **Service Provider Organisation** may manage several independent Services and commits to the Code of Conduct for each of them separately.

3. An **End User** acts as a data subject whose personal data are being processed for the purposes as described in clause **b. Purpose limitation**.

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

In the case that a Federation and a Federation Operator do not process the **Attributes** of the **End User**, no specific privacy notice needs to be put in place between the End User and the Federation Operator.
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: this Code of Conduct, the contractual arrangements with the Home Organisation, this Code of Conduct, or the relevant provisions of the GDPR.

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

1. the processing agreement between the Home Organisation and the Service Provider Organisation;
2. the provisions of this Code of Conduct;
3. the relevant provisions of the GDPR.

In particular, 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 himself in a situation where their national data protection laws would contradict this Code of Conduct.

Service Providers Organisation 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 their 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 Providers Organisation shall make binding and enforceable commitments to apply the appropriate
safeguards, including as regards data subjects' rights\(^2\), in addition to committing to abide by this Code of Conduct.

Service Providers Provider Organisations may be subject to internal regulations and policies of Intergovernmental Organisations.

Regarding the applicable law, see clause n. 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 r. 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 Attributes shall not be further processed in a manner which is not compatible with the initial purposes (Article 5.b of the GDPR).

The Service Provider Organisation must ensure that Attributes are used only for enabling the End User to access to the Service. As far as the use of Attributes deviating purposes is concerned, see clause c. Deviating purposes.

In practice, enabling access to the Service covers:

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

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

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\(^2\) In the event where a 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.
• Transferring real-world trust to the online world i.e. if the Service Provider Organisation supports a user community that exists also in the real world, Attributes can be used to transfer that community to the online world. For instance, if the members of the user community know each other by name in the real world, it is important that their names (or other identifiers) are displayed also in any discussion or collaboration forum offered by the Service Provider Organisation. The source of those Attributes is important; to avoid identity theft, the Service Provider Organisation must retrieve users’ names from trustworthy sources and not rely on self-assertions.

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

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

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

• Other functionalities offered by the Service Provider Organisation for enabling the End User to access to the Service: using Attributes of users End Users for the purposes of other functionalities offered by the Service Provider Organisation. It is common that services on the Internet send e-mail or other notifications to their users regarding their services. Examples of scenarios where processing End User’s email address or other contact detail falls within the scope of enabling access to the Service include for instance:
  • the End User’s application to access the resources has been approved by the resource owner;
  • the End User’s permission to use a resource is expiring or they are running out of the resource allocation quota;
  • someone has commented on the End User’s blog posting or edited their wiki page.

See also the next clause on deviating purposes.
C. DEVIATING PURPOSES

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

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

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

D. DATA MINIMIZATION

The Service Provider Organisation commits 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.

The following list presents examples of Attributes that are adequate, relevant and not excessive for enabling access in the context of the Service the End User to access the Service. The Attribute names refer to the schema (e.g. eduPerson, Schac) and protocol (SAML2) definitions currently used widely in the GÉANT community:

- an attribute Attribute (such as, eduPerson(Scoped)Affiliation, eduPersonEntitlement or schacHomeOrganisation) indicating that the End User’s permission User is authorised to use the Service:
  - a trusted value provided by the IdP is needed instead of a value self-asserted by the End User.

3 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.
an attribute (such as, SAML2 PersistentId) uniquely identifying the End User required, for instance, to store the End User's Service profile:

- a trusted value provided by the IdP is needed. To avoid an identity theft, an End User cannot self-assert their unique identifier.

if there are several alternative unique identifiers available for the Service, the least intrusive must be used:

- a pseudonymous bilateral identifier (such as, SAML2 persistentId) is preferred;
- if enabling access to the Service requires matching the same End User's accounts between two Service Provider Organisations, a Service Provider Organisation can request a more intrusive identifier (such as eduPersonPrincipalName or eduPersonUniqueID), whose value for a given user is shared by several Service Provider Organisations;
- if there is a legitimate reason for an End User (such as, a researcher) to keep their identity and profile in the Service Provider Organisation even when the organisation they are affiliated with changes, a permanent identifier (such as, ORCID identifier) can be used.

- e-mail address or other contact details, if it is necessary to contact the End User for the proper functioning of the Services offered by the Service Provider Organisation.

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

E. INFORMATION DUTY TOWARDS END USER
The Service Provider Organisation shall provide, at first contact, the End User with a Privacy Notice before they initiate the federated login for the first time.

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 Organisation; 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.

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

The Privacy Notice is Service specific and not the same for different Services of a Service Provider Organisation.

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

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

The Service Providers Provider Organisations are advised to make use of the Privacy Notice template that belongs to the supporting material of the Code of Conduct in Appendix 1: Information duty towards End Users.
F. INFORMATION DUTY TOWARDS HOME ORGANISATION

The Service Provider Organisation 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.

GÉANT has put in place a scalable technical solution allowing Service Provider Organisations to add their adherence to this Code of Conduct and to communicate its Privacy Notice’s URL. This information is shared with the Home Organisation’s Identity Provider server prior to sharing the End User’s Attributes to the Service Provider Organisation, enabling the Home Organisation to present it to the End User as described in Appendix 1.11.

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

G. DATA RETENTION

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

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

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

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

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

In principle the personal data must be deleted or anonymised if the End User (or their Home Organisation) no longer wishes to use the Service.
However, in many cases, the End User does not explicitly inform the Service Provider Organisation that they no longer wish to use the Service, they just do not log in to the Service anymore. In this case it is considered as a good practice to delete or anonymise the End User’s personal data if they have not logged in for 18 months.

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

- if the Service is an archive for scientific data, the researchers who deposit their datasets to the archive may still remain the owners or custodians of the dataset although they do not log in for a while.
- if the Service is a Git (a widely used source code management system) an End User uses to publish their computer program code, the End User may still want to be able to log in and maintain their code, although they have not logged in for a while.
- if the Service is a repository where researchers publish their scientific findings and contribution, the researchers still want to have their name and other Attributes attached to the finding, although they do not regularly log in.
- if the Service is a collaborative application (such as, a wiki or a discussion board) where the End User has their name or other Attribute attached to their contribution to let the other users learn and assess the provenance of the contribution and attribute it to a specific person.

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

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

H. SECURITY MEASURES

The Service Provider Organisation warrants taking appropriate technical and organisational measures to safeguard Attributes against accidental or unlawful destruction or accidental loss, alteration, unauthorised disclosure or access. These measures shall ensure a level of security appropriate
The **Service Provider Organisation** shall implement the security measures described in **Appendix 2: Information Security, technical and organisational guidelines for Service Providers Provider Organisations**. The Service Provider can also implement such additional security measures which, evaluated together, provide at least the same level of security as the level of security provided by the measures described in Appendix 2.

### I. SECURITY BREACHES

The **Service Provider Organisation** 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.

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

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

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

### J. TRANSFER OF PERSONAL DATA TO THIRD PARTIES

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

a) if mandated by the **Service Provider Organisation** for enabling the **End User** to access 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 Organisation or;

c) if prior consent has been given by the End User.

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

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

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

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

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

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

c) if prior consent has been given by the End User. For the requirements of such consent, see clause l, End User’s consent.

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

K. TRANSFER OF PERSONAL DATA TO THIRD COUNTRIES

1. Transfers among Service Provider Organisations 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 Provider Organisations that have adhered to it, whether the Service Provider Organisation
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.

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

The Service Provider Organisation 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.

Under European data protection legislation, transfers of personal data from the European Economic Area
to third countries that do not offer an adequate level of data protection are restricted, unless the recipient
territory ensures a so-called "adequate level of protection—appropriate safeguards". However, there is
an Article 49 of the GDPR provides with an exhaustive list of derogations to this general prohibition that.
The following derogations are relevant for this context:

- **Consent of the End User**: The unambiguous consent of the data subject legitimates data transfers to
  third countries, even if the recipient does not offer an adequate level of protection. The Service
  Provider Organisation may rely on the End User’s freely given informed revocable Consent as described in clause 1. End User’s consent.

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

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

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

L. END USER’S CONSENT
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.

When a Service Provider Organisation relies on End User’s consent (e.g. c. Deviating purposes, i. Transfer of personal data to third parties, k. Transfer of personal data to third countries), it can be provided by a written statement, including by electronic means. This could include ticking a box when visiting an internet website, choosing technical privacy settings for information society services options of a software or another statement or conduct (i.e. a clear affirmative action) which clearly indicates the data subject’s acceptance of the proposed processing of his or her personal data. Consent shall always be documented. Furthermore, the End Users shall be able to withdraw his/her consent online.

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

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

M. LIABILITY

The Service Provider Organisation agrees to hold harmless the End User, and 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 Organisation as determined in a binding and enforceable judicial ruling.

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

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

N. GOVERNING LAW AND JURISDICTION
This Code of Conduct shall be interpreted in the light of the GDPR and of the guidance issued by the European Data Protection Board or its predecessor\(^4\), always without prejudice to not with standing any privileges and immunities of Service Providers Provider Organisations being International Organisations, as these are awarded by their constituent and/or statutory documents and international law.

If there are any disputes regarding the validity, interpretation or implementation of this Code of Conduct, the parties shall agree on how and where to have it governed by other national legislation or courts of one of the EU Member States, settle them.

**O. ELIGIBILITY**

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

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

The person administering the Service that receives Attributes must identify the person or body in his or her organisation that can decide if the Home Service Provider Organisation commits to this Code of Conduct.

\(^4\) 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.

\(^5\) 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.
Conduct, as typically, the service administrator cannot necessarily take this decision on his/her own.

**P. TERMINATION OF THE CODE OF CONDUCT**

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

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

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

**Q. SURVIVAL OF THE CODE OF CONDUCT**

The **Service Provider Organisation** 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.

**R. PRECEDENCE**

The **Service Provider Organisation** 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 Organisation** and the **Home Organisation**, the provision of the agreement concluded between **Service Provider Organisation** 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 Organisation 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 Organisation;
2. the provisions of this Code of Conduct; and:
3. Applicable Data Protection Laws (such as other country specific law on Data protection or Privacy).

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

This section allows the Service Provider Organisation to have a bilateral agreement overriding the Code of Conduct with some Home Organisations, meanwhile, this Code of Conduct will still apply to the other Home Organisations that have not entered into a bilateral agreement.

**ATTRIBUTE PROVIDERS**

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

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

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

- (see clause i. Security Breaches) the Service Provider Organisation commits to report all suspected privacy or security breaches also to the Attribute Provider;
- (see clause m. Liability) the Service Provider Organisation agrees to hold harmless also the Attribute Provider who has suffered damage as a result of any violation of this Code of Conduct by the Service Provider Organisation as determined in a binding and enforceable judicial ruling;
- (see clause r. Precedence) the Service Provider Organisation warrants to comply also 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 Organisation and the Attribute Provider, the provision of the agreement concluded between Service Provider Organisation and Attribute Provider takes precedence over the provision of this Code of Conduct.
APPENDIX 1: INFORMATION DUTY TOWARDS END USERS

This appendix consists of two parts:

I. How to develop a Service Provider Organisation can develop a Privacy Notice.

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

II. How the Home Organisation should inform the End User about the Attribute release.

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

I. HOW TO DEVELOP A PRIVACY NOTICE

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

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

PRIVACY NOTICE TEMPLATE

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

The Privacy Notice must be provided at least in English. You can add another column to the template for a local translation of the text. Alternatively, the local translation can be a parallel page, and you can use the xml:lang element to introduce parallel language versions of the Privacy Notice page as described in SAML2 Profile for the Code of Conduct.
<table>
<thead>
<tr>
<th>Name of the Service</th>
<th>SHOULD be the same as mdui:Displayname</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebLicht</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description of the Service</th>
<th>SHOULD be the same as mdui:Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebLicht is a service for language research. It provides an execution environment for automatic annotation of text corpora.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data controller and a contact person</th>
<th>Tübingen university, Institute for language research</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Laboratory manager Bob Smith, <a href="mailto:bob.smith@example.org">bob.smith@example.org</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data controller’s data protection officer, if applicable</th>
<th>If the controller has a data protection officer (GDPR Section 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chief Security Officer <a href="mailto:bill.smith@example.org">bill.smith@example.org</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Jurisdiction and supervisory authority</th>
<th>The country in which the Service Provider [Organisation] is established and whose laws are applied.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SHOULD be an ISO 3166 code followed by the name of the country and its subdivision if necessary for qualifying the jurisdiction.</td>
</tr>
<tr>
<td></td>
<td>DE-BW Germany Baden-Württemberg</td>
</tr>
</tbody>
</table>

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

Instructions to lodge a complaint are available at ...

<table>
<thead>
<tr>
<th>Personal data processed and the legal basis for processing</th>
<th>A. Personal data retrieved from your Home Organisation:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- your unique user identifier (SAML persistent identifier) *</td>
</tr>
<tr>
<td></td>
<td>- your role in your Home Organisation (eduPersonAffiliation attribute) *</td>
</tr>
</tbody>
</table>
- **your name** *

**B. Personal data gathered from yourself you have provided or may be generated as a result of your use of our service:**

- **logfiles on the service activity** *

- **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 Organisation'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).

**Your personal data is used**

- to authorise your access to and use of the compute resources we provide
- to properly account your use to relevant infrastructure funding bodies
- to ensure the integrity and availability of our service

### Third parties to whom personal data is disclosed

Notice clause j of the Code of Conduct for Service Providers.

We may share your personal data with third parties (or otherwise allow them access to it) in the following cases:

(a) to satisfy any applicable law, regulation, legal process, subpoena or governmental request;  

(b) to enforce this Privacy Policy, including investigation of potential violations thereof;
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.

*In the case where a third party is located in a country whose data protection laws are not as comprehensive as those of the countries within the European Union we will take appropriate steps to ensure that transfers of your personal data are still protected in line with European standards.*

You have a right to contact us for more information about the safeguards we have put in place to ensure the adequate protection of your personal data when this is transferred as mentioned above.

<table>
<thead>
<tr>
<th>How to access, rectify and delete the personal data and object its processing.</th>
<th>Contact the contact person above.</th>
</tr>
</thead>
<tbody>
<tr>
<td>To rectify the data released by your Home Organisation, contact your Home Organisation's IT helpdesk.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Withdrawal of consent</th>
<th>If personal data is processed based on user consent, how he/she they can withdraw it?</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Data portability</th>
<th>Can the user request his/her their data be ported to another Service? How?</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Data retention</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal data is deleted on request of the user or if the user hasn't used the Service for 18 months.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Protection Code of Conduct</th>
<th>Your personal data will be protected according to the Code of Conduct for Service Providers Provider Organisations, a common standard for the research and higher education sector to protect your privacy.</th>
</tr>
</thead>
</table>
II. HOW THE HOME ORGANISATION SHOULD INFORM THE END USER ON THE ATTRIBUTE RELEASE

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

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

LAW REQUIREMENTS

INFORMING THE END USER (“INFORM INTERACTION”)

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

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

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

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

**General Principles for informing the user**

Information dialogues should be short and concise.

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

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

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

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

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

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

**Recommendations**

For all Attributes (INFORM interaction):

1. The user MUST be informed on the attribute release separately for each SP.

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2. "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).
2. The user MUST be presented with the mdui:DisplayName value for the SP, if it is available.

3. The user MUST be presented with the mdui:Description value for the SP, if it is available.

4. The user SHOULD be presented with the mdui:Logo image for the SP, if it is available.

5. The user MUST be provided with access (e.g. a clickable link) to the document referenced by the mdui:PrivacyStatementURL.

6. The IDP MUST present a list of the RequestedAttributes defined as NECESSARY. No user consent is expected before release. (However, given how web browsers work, the user may have to click a CONTINUE button in order to continue in the sequence.) The IDP MAY list the NECESSARY attributes on the same screen as the username/password entry boxes, making clear that if you login then this is what will happen. It MUST be clear to the user that the consequence of their next action will be to release the attributes.

   NOTE — the attribute values for the specific user are not available when the login screen is presented, since the user's identity is not yet known.

7. The display software SHOULD provide the ability to configure and display localised descriptions of the attributes (e.g. what PersistentID means) and their values (e.g. what eduPersonEntitlement="urn:mace:rediris.es:entitlement:wiki:tfemc2" means)

8. The display software MAY inform the user of the release of an "attribute group" (eg attributes expressing the user’s "name"), and then release all requested attributes in the group (e.g. various forms of the user's name such as cn, sn, givenName and displayName).

9. The display software MAY give the user the option to remember that they have been INFORMed of the release of the necessary attributes.

10. If any of the following has changed since the user accessed this SP for the last time, the user MUST be prompted again for the INFORM interaction

   a. the list of attributes the SP requests
   b. the DisplayName of the SP
   c. the Description of the SP

---

**INTERNATIONALIZATION**

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

**SAMPLE NOTIFICATION**
Example of how a **Home Organisation** should inform **End Users** and provide an opt-out opportunity before **Attributes** are released to a new **Service Provider**. Clicking the Service’s Provider name leads to its Privacy policy page.
APPENDIX 2: INFORMATION SECURITY, TECHNICAL AND ORGANISATIONAL GUIDELINES FOR SERVICE PROVIDERS/ORGANISATIONS

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

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

NORMATIVE ASSERTIONS

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

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

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

1 OPERATIONAL SECURITY [OS]

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

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

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

- [IR1] Provide security incident response contact information as may be requested by an R&E federation to which your organisation belongs.
- [IR2] Respond to requests for assistance with a security incident from other organisations participating in the Sirtfi trust framework in a timely manner.
- [IR3] Be able and willing to collaborate in the management of a security incident with affected organisations that participate in the Sirtfi trust framework.
- [IR4] Follow security incident response procedures established for the organisation.
- [IR5] Respect user privacy as determined by the organisations policies or legal counsel.

3 TRACEABILITY [TR]

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

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

4 PARTICIPANT RESPONSIBILITIES [PR]

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

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


APPENDIX 3: HANDLING NON-COMPLIANCE OF SERVICE PROVIDERS ORGANISATIONS

INTRODUCTION

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

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

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

- The technical infrastructure (currently, SAML 2.0 metadata exchange service) that the federation(s) provides delivers the indications from Service Provider Organisations to Home Organisations’ Identity Provider servers.

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

EXAMPLES OF SP NON-COMPLIANCE

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

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

If anyone (such as an end user, a Home Organisation or a Federation Operator) suspects that a Service Provider Organisation is not complying with the Code of Conduct to which it has committed, the following alternative, mutually non-exclusive, actions are suggested:
1. Contact the Service Provider Organisation directly (with a copy to the Service Provider's Home Federation), describing the suspected problem, and ask the Service Provider Organisation to check if it has a compliance problem and correct it;

2. Contact the Service Provider's Home Federation, and request to contact the Service Provider Organisation and to check if there is a compliance problem and request to correct it. Depending on the Home Federation's policy, there may be also additional measures available for handling non-compliance;

3. Contact the body accredited to monitor compliance with the Code of Conduct, if applicable, as defined in the Article 41 of the GDPR and below;

4. Determine the location of the legal entity operating the Service Provider Organisation (see clause e), and lodge a complaint with the competent Supervisory authority (as defined in Articles 57 and 58 of the GDPR).

**CODE OF CONDUCT MONITORING BODY**

A Federation operator can nominate a body to monitor of the Service Providers' compliance with the Code of Conduct. The monitoring body must be accredited by a competent supervisory authority pursuant to CODE OF CONDUCT.

Accredited in accordance with Article 41 of the GDPR.

Only, GÉANT is appointed Monitoring Body of the Code of Conduct. This section shall be interpreted in the light of the Home Federation of guidance to be issued by the Service Provider is competent to assess regulatory authorities such as the European Data Protection Board.

The compliance of Monitoring Body is responsible for:

- monitoring the Service Provider with Organisations' compliance with the Code of Conduct;
- issuing guidelines on the implementation of the Code of Conduct;

- The monitoring body will make its contact details, providing guidance on the self-assessment procedure for Service Provider Organisations and issue checklist;
- establishing procedures and structures to handle complaints about infringements of the Code transparent and making its contact details available to the public;

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

Having received a complaint the Monitoring Body will:

I. ask the Service Provider Organisation to present its counterpart,
II. if the monitoring body finds the Service Provider Organisation to be non-compliant with the Code of Conduct, give the Service Provider Organisation at most four weeks’ time to revise the issue,
III. communicate the Service Provider Organisation the decision to remove the Service Provider's Provider Organisation's tag and allow the Service Provider Organisation to introduce an appeal within two weeks after the notification of the decision to the Service Provider Organisation.

IV. acknowledge receipt and consider the appeal submitted by the Service Provider Organisation.

V. mandate the Home Federation to remove the Service Provider's Provider Organisation's tag if the appeal has been dismissed and if the Service Provider Organisation has not fixed the non-compliance issue within the given timeframe.

The Service Provider Organisation whose tag has been removed can reclaim the tag only after demonstrating to the monitoring body that it has returned to compliance. The Service Provider Organisation can appeal the decision of the Monitoring Body with the competent Supervisory Authority pursuant to Article 41.4 of the GDPR.
The working language of the Monitoring Body shall be English.
APPENDIX 4: GLOSSARY OF TERMS

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

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

Attribute Provider: An organisation other than the Home Organisation that manages extra attributes for End Users of a Home Organisation and releases them to the Service Provider Organisations.

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

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

EEA: European Economic Area.

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

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

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

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

GDPR: Regulation (EU) 2016/679 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).

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

Identity Provider (IdP): The system component that issues Attribute assertions on behalf of End Users who use them to access the Services of Service Provider Organisations.
**Personal Data:** any information relating to an identified or identifiable natural person.

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

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

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

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