



# EFIS

Ethiopian Federated Identity System

## Identity Federation Policy

<b>Authors</b>	EthERNet
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## 1. Definitions and Terminology

Definitions and terminology used in this document.

Access Control	A system at the provider uses the identity information to enforce authorization policies.
Attribute	A piece of information describing the End User, his/her properties or roles in an organization.
Attribute Authority	An organization responsible for managing additional Attributes for an End User of a Home Organization.
Authentication	Process of proving the identity of a previously registered End User.
Authorization	Process of granting or denying access rights to a service for an authenticated End User.
Digital Identity	A set of information that is attributable to an End User. Digital identity consists of Attributes. It is issued and managed by a Home Organization and zero or more Attribute Authorities based on the identification of the End User.
End User	Any natural person affiliated to a Home Organization, e.g. as an employee, researcher or student making use of the service of a Service Provider.
EthERNet	Ethiopian Education and Research Network
EFIS	Ethiopian Federated Identity System
Federation	Identity federation. An association of organizations that come together to exchange information as appropriate about their users and resources to enable collaborations and transactions.
Federation Operator	Organization providing Infrastructure for Authentication and Authorization to Federation Members.
Federation Member	An organization that has joined the Federation by agreeing to be bound by the Federation Policy in writing. Within the federation framework, a Federation Member can act as a Home Organization and/or a Service Provider and/or an Attribute Authority.
Home Organization	The organization with which an End User is affiliated. It is responsible for authenticating the End User and managing End Users' digital identity data.

Identity Management	Process of issuing and managing end users' digital identities.
Identity Provider (IdPs)	A system entity that creates, maintains, and manages identity information for principals and also provides authentication services to relying on applications within a federation. It is used to authenticate users and provide identity information to service providers.
Inter-federation	Voluntary collaboration of two or more Identity Federations to enable End Users in one Identity Federation to access ServiceProviders in another Identity Federation.
Registered Representatives	Individuals authorized to act on behalf of the member. These may take on different roles with different rights attached to them.
Service Provider	An organization that is responsible for offering the End User the service he or she desires to use. Service Providers may rely on the authentication outcome and attributes that Home Organizations and Attribute Authorities assert for its End Users.
Technology Profile	Profile of the individual regarding their use of technology and new media.

## 2. Introduction

The Ethiopian Federated Identity System (EFIS) is introduced to facilitate and simplify the introduction of shared services between EFIS participants with federation technologies, an end user from EFIS participant can use his Digital Identity to access Service Providers within the whole federation or base on inter-federation agreements even in other federations. It is the means of linking a person's electronic identity and attributes, stored across multiple distinct identity management systems. Federated identity is related to single sign-on (SSO), in which a user's single authentication ticket, or token, is trusted across multiple IT systems or even organizations.

EthERNet as Federation Operator coordinates and manages the necessary activities, which in the end enables direct interoperation between end users. EFIS is an identity federation service provided by EthERNet.

The Federation relies on Home Organizations and Attribute Authorities to assert information correctly and accurately about the identity of End Users to Service Providers, that may use that information to grant (or deny) access to the services and resources they offer to End Users.

The Federation Policy document defines the Federation by defining the Federation

Members' obligations and rights to be able to use available Federation Technologies for electronic identification and for access to attribute and authorization information about End Users in the Federation.

This document, together with its appendices constitutes the Federation Policy. The current list of all appendices is available at <https://efis.ethernet.edu.et>

## **3. Governance and Roles**

### **3.1 Governance**

EFIS is managed by EthERNet, the Ethiopian Education and Research Network, a department at the federal ministry of education dedicated to deliver highly interconnected and high-performance networks for universities and other educational and research Institutions in Ethiopia. Federation operator is a team of professionals from EthERNet responsible for operating the Federation.

EthERNet is responsible for:

- Setting criteria for membership for the Federation.
- Granting or denying an application for membership in the Federation.
- Deciding whether a Federation member is entitled to act as Home Organization.
- Revoking the membership if a Federation Member is in a breach of the Policy.
- Providing future directions and enhancements for the Federation together with the Federation Operator who prepares the plans.
- Entering to inter-federation agreement.
- Maintaining formal ties with relevant national and international organizations.
- Approving changes to the Federation Policy prepared by the Federation Operator.
- Address financial needs of the Federation.
- Approves the fees to be paid by the Federation Members to cover the operational costs of the Federation, on proposal of Federation Operator.
- Deciding on any other matter referred to it by the Federation Operator.

### 3.2 Obligations and Rights of Federation Operator

In addition to what is stated elsewhere in the Federation Policy, EthERNet is responsible for:

- Secure and trustworthy operational management of the Federation and providing central services following the procedures and technical descriptions specified in this document and its appendices.
- Provides support services for Federation Members' appropriate contact persons to work out operational problems regarding the Federation services.
- Acts as center of competence for Identity Federation: tests software, recommends and documents solutions, provides software deployment and configuration guides for selected software and operating systems for use within the Federation.
- Prepares and presents issues to the EthERNet and acts as the secretary of the EthERNet meetings.
- Maintaining relationships with national and international stakeholders in the area of Identity Federations. This especially includes contacts regarding inter-federation activities and work with other Identity Federations in harmonization.
- Promoting the idea and concepts implemented in the Federation so prospective Federation Members learn about the possibilities of the Federation.

In addition to what is stated elsewhere in the Federation Policy, EthERNet reserves the right to:

- Temporarily suspend individual Technology Profiles for a Federation Member that is disrupting secure and trustworthy operation of the Federation.
- Publish a list of Federation Members along with information about which profiles each Federation Members fulfills or implements, for the purpose of promoting the Federation.
- Publish some of the data regarding the Federation Member using specific technology profile. Definition of which data may be published is provided in appropriate technology profiles.

### 3.3 Obligations and Rights of Federation Members

All Federation Members:

- Must appoint and name Registered Representatives, an administrative contact, technical contact and security contact for interactions with EthERNet.
- Must cooperate with the Federation Operator and other Members in resolving incidents and should report incidents to the Federation Operator in cases where these incidents could negatively affect the security, trustworthiness, or reputation of the Federation or any of its members.
- Must comply with the obligations of the Technology Profiles when specified.
- Must ensure its IT systems that are used in implemented Technology Profiles are operated securely.
- Must pay the fees. Prices and payment terms are communicated annually by the EthERNet secretariat.
- If a Federation Member processes personal data, the Federation Member will be subject to applicable data protection laws and regulations thereunder and must comply with the Standard Data Protection Policy developed by the governing body or their own Data Protection Policy that has been approved by the governing body.

If a Federation Member is acting as a Home Organization, it:

- Is responsible for delivering and managing authentication credentials for its End Users and for authenticating them.
- Should submit its Identity Management Practice Statement to the Federation Operator, who in turn makes it available to other Federation Members upon their request. The Identity Management Practice Statement is a description of the Identity Management life cycle including a description of how individual digital identities are enrolled, maintained, and removed from the identity management system. The statement must contain descriptions of administrative processes, practices and significant technologies used in the identity management life cycle, which must be able to support a secure and consistent identity management lifecycle.
- Ensures an End User is committed to the Home Organization's Acceptable Usage Policy.

- Operates a helpdesk for its End Users regarding Federation services related issues. Home Organizations are encouraged to maintain a helpdesk for user queries at least during normal office hours in the local time zone. Home Organizations must not redirect End User queries directly to the Federation Operator but must make every effort to ensure that only relevant problems and queries are sent to the Federation Operator by appropriate Home Organization contacts.

If a Federation Member is acting as a Home Organization or Attribute Authority, it:

- Is responsible for assigning attribute values to the End Users and managing the values in a way which ensures they adhere to the attribute specifications and are up to date.
- Is responsible for releasing the Attributes to Service Providers

If a Federation Member is acting as a Service Provider, it:

- Is responsible for making decisions on which End Users can access the services they operate, and which access rights are granted to an End User. It is Service Providers responsibility to implement those decisions.

## 4. Eligibility

The Federation sets out eligibility criteria that determines who is able to become a Federation Member and who is able to act as Home Organization. The criteria is fully described in section Rules of Membership. Responsibility for setting membership criteria rests with EthERNet and may be revised from time to time.

### 4.1 Rules of Membership

The Federation is operated by the Federation Operator that also operates the national research network. Further participants are Members and Partners that must have a signed contract with the Operator.

The following institutions may be Members of the federation:

1. Public and private Higher education institutions
2. Research, educational, academic and innovation institutions.
3. Companies from ICT ecosystem.

All Members of the Federation might provide services. Members are entitled to supply user identity information to the federation.



## 5. Procedures

In this section procedures for joining and withdrawal will be described.

### 5.1 How to Join

In order to become a Federation Member, an organization applies for membership in the Federation by agreeing to be bound by the Federation Policy in writing by an official representative of the organization.

Each application for membership has to be sent to EthERNet who in turn decides on whether to grant or deny the application. If the application is denied, the decision and the reason for denying the application are communicated to the applying organization by EthERNet.

### 5.2 How to Withdraw

Federation Member may cancel its membership in the Federation at any time by sending a request to EthERNet. A cancellation of membership in the Federation implies the cancellation of the use of all federations Technology Profiles for the organization within a reasonable time interval. The Federation Operator may cancel its participation in the Federation by announcing the termination date to the Federation Members. Until termination date, Federation Operator shall run the Federation on best effort basis. After the termination date, Federation Operator shall cancel the use of all Federations Technology Profiles for all Federation Members.

## 6. Legal Conditions of Use

### 6.1 Termination

A Federation Member who fails to comply with the Federation Policy may have its membership in the Federation revoked. If EthERNet is aware of a breach of the Federation Policy by a Federation Member, they may issue a formal notification of concern. If the cause for the notification of concern is not rectified within 60 days by the Federation Member, EthERNet can make a decision to revoke the membership. Revocation of membership implies as soon as possible the revocation of the use of all Technology Profiles for the Federation Member.

### 6.2 Liability and Indemnification

The Federation Operator offers this service on an “as is” basis, that is, without liability for Federation Operator and EthERNet for any faults and defects meaning amongst other that the Federation Member cannot demand that Federation Operator amend defects, refund payments, or pay damages. Federation Operator will nevertheless strive to ensure that any faults and defects of significance are corrected within a

reasonable period.

The Federation Operator and EthERNet may not be held liable for any loss, damage or cost that arises as a result of the Federation Member connection to or use of Federation services, or other systems to which the Federation Member obtains access in accordance with the agreement. This limitation of liability does not however apply in the case of gross negligence or intent shown by Federation Operator personnel.

The Federation Operator offers this service on an “as is” basis, without any warranties or liabilities to the Federation Member or its End Users.

Neither the Federation Operator nor the EthERNet shall be liable for damage caused to the Federation Member or its End Users. The Federation Member shall not be liable for damage caused to the Federation Operator or the EthERNet due to the use of the Federation services, service downtime or other issues relating to the use of the Federation services.

Unless agreed otherwise in writing between Federation Members, the Federation Member will have no liability to any other Federation Member solely by virtue of the Federation Member’s membership of the Federation. In particular membership of the Federation alone does not create any enforceable rights or obligations directly between Federation Members. Federation Operator and the Federation Member shall refrain from claiming damages from other Federation Members for damages caused by the use of the Federation services, service downtime or other issues relating to the use of Federation services. The Federation Member may, in its absolute discretion, agree variations with any other Federation Member to the exclusions of liability. Such variations will only apply between those Federation Members.

The Federation Member is required to ensure compliance with applicable laws. Neither the Federation Operator nor EthERNet shall be liable for damages caused by failure to comply with any such laws on behalf of the Federation Member or its End Users relating to the use of the Federation services.

Neither party shall be liable for any consequential or indirect damage.

Neither the existence of inter-federation agreements, nor the exchange of information enabled by it, shall create any new legal obligations or rights between Members or operators of any federation. Federation Operator and Federation Members remain bound only by their own respective laws and jurisdictions.

The Federation Member and Federation Operator shall refrain from claiming damages from entities in other federations involved in an inter-federation agreement.

### **6.3 Jurisdiction and dispute resolution**

Disputes concerning the Federation Policy shall be settled primarily through negotiation. If the issue cannot be resolved through negotiation, any disputes shall be submitted to the Federal court in Addis Ababa.

If such negotiations do not succeed within four weeks of the date on which the claim for negotiations was made in writing by one party, each of the parties may bring the dispute before the authorized court in Addis Ababa that will decide according to Federal law.

If any provision of the Federation Policy is held to be unenforceable by any court of competent jurisdiction, all other provisions will nevertheless continue in full force and effect.

### **6.4 Inter-federation**

In order to facilitate collaboration across national and organizational borders the Federation may participate in inter-federation agreements. The Member understands and acknowledges that via those inter-federation arrangements the Member may interact with organizations which are bound by and committed to foreign laws and federation policies. Those laws and policies may be different from the laws and policies in this Federation.

### **6.5 Amendment**

EthERNet has the right to amend the Federation Policy from time to time. Any such changes need to be approved by the Governing Body and shall be communicated to all Federation Members in written form at least 60 days before they are to take effect.