

MARCH 24, 2026



EUSL CLOUD – FOR THE EUSL FEDERATION

*A SOVEREIGN DIGITAL INFRASTRUCTURE FOR MEMBERS,
MUNICIPALITIES, AND CONTINENTAL PROGRAMMES*

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Table of Contents

EUSL Federation Digital Ecosystem – A Formal Framing	2
EUSL Cloud – A Formal Deep-Dive.....	3
Introduction	3
I. The Juridical and Institutional Purpose of the EUSL Cloud	3
II. The Schleswig-Holstein Precedent and the Legal Foundation for Digital Sovereignty.....	3
III. The Swedish Municipio Platform as the Civic and Institutional Frontend.....	4
IV. The EUSL Sovereign Cloud Architecture	4
V. Virtual Services, “One Membership, One Cloud”, and the 100GB Storage Allocation	5
VI. Integration Logic: How Municipio, Schleswig-Holstein, and the EUSL Cloud Converge.....	5
VII. Expected Outcomes and Structural Advantages	6



EUSL Cloud for the EUSL Federation

EUSL Federation Digital Ecosystem – A Formal Framing

Within the constitutional structure of the EUSL Federation, the EUSL Cloud serves as the unifying digital environment through which members, institutions, municipalities, and programme units interact. The relationship is not constructed as a commercial dependency but as an integrated cooperative ecosystem, where continuity of services, identity, data, and operational capabilities is maintained across all elements of the Federation.

Whereas commercial technology companies rely on proprietary lock-in to retain customers, the EUSL architecture is grounded in a legally distinct principle: ecosystem coherence. Each component—identity, storage, communications, web presence, municipal portals, DESA units, and programme dashboards—is engineered to interoperate seamlessly under a sovereign governance framework. This creates a digital environment where all units naturally reinforce and depend upon one another without coercion, forming a stable, predictable, and secure infrastructure for economic and social participation.

In effect, the EUSL Federation becomes:

- A sovereign version of Apple’s ecosystem logic — unified identity, shared services, seamless device/application interaction, and a single continuity environment.
- A cooperative analogue to Azure — cloud resources, virtual machines, application hosting, identity federation, and enterprise-grade services for SMEs, institutions, and public bodies.

However, the result is neither corporate nor commercial. It is juridically structured as a federated cooperative digital infrastructure, where the “ecosystem effect” arises from governance design rather than vendor dependency. Members operate within a shared digital space because it maximises efficiency, transparency, compliance, and economic inclusion—not because exit is structurally punished.

This creates a self-reinforcing environment in which:

1. **Identity continuity** ensures that members authenticate once and operate across all Federation services.
2. **Data continuity** ensures that files, communications, dashboards, and applications remain within the sovereign boundary.
3. **Service continuity** ensures that websites, virtual machines, municipal portals, DESA platforms, and programme tools remain interoperable within the same environment.
4. **Economic continuity** ensures that procurement, membership, certifications, and cooperative marketplaces all operate within the same shared infrastructure.

The Federation thereby establishes a digital architecture where remaining inside the ecosystem is not a constraint but a rational preference. Members gain increasing value with each additional component added to the Federation. Institutions benefit from unified sovereignty, municipalities gain interoperability with DESA and PCGG structures, and SMEs benefit from consolidated infrastructure replacing dozens of fragmented services.



In this configuration, the EUSL Cloud becomes the digital connective tissue of the Federation. It provides the same elegant, frictionless, unified experience associated with Apple’s ecosystem, combined with the capacity and industrial-grade capabilities associated with Azure, yet grounded entirely in European jurisdiction, cooperative governance, and the Agenda 2074 principles of social equity and digital sovereignty.

EUSL Cloud – A Formal Deep-Dive

A Sovereign Digital Infrastructure for Members, Municipalities, and Continental Programmes

Introduction

This document provides a consolidated, formal, and structured exposition of the EUSL Cloud as an institutional component of the EUSL Federation membership. It outlines the sovereign digital architecture underpinning the membership offering, describes how European models of open digital governance are transferred into the EUSL framework, and clarifies how the Swedish Municipio platform and the Schleswig-Holstein sovereignty shift form the conceptual and operational foundation of the cloud layer. It further explains the inclusion of 100GB of sovereign storage per member, the provision of virtual services, and the operational logic of the sovereign “tenant” architecture available to municipalities, DESA units, ministries, SMEs, and individuals who enter through the unified EUSL membership.

The objective is to articulate how the EUSL Cloud emerges not as a commercial hosting bundle, but as an institutionalised governance instrument forming part of the wider Creativa Universe infrastructure ecosystem, aligned with Agenda for Social Equity 2074, the Social Label Unity Center (SLUC), the Pan-Continental Global Ground (PCGG), and the DESA programme family.

I. The Juridical and Institutional Purpose of the EUSL Cloud

The EUSL Cloud is designed as a sovereign digital infrastructure layer whose purpose is to guarantee independence from foreign jurisdictions, reduce operational costs for members, and create a secure and uniform information space for economic, social, and governance functions under the EUSL Federation architecture. It is both a public good (in terms of its systemic value to partners, institutions, and municipalities) and a private right (in terms of individual membership entitlements).

The Cloud is not positioned as a commercial software bundle nor as a technology reseller. It is an element of the cooperative governance framework which ensures that all members—enterprises, civil-society organisations, cooperatives, municipal actors, DESA units, and individual professionals—operate within a sovereign, privacy-preserving, cost-efficient digital environment.

This distinction is legally material. The EUSL Cloud does not compete in the commercial cloud market, but instead forms part of the institutional obligations of the Federation: to provide a protected, equitable, and inclusive environment where data, communications, collaboration, and economic activity are placed under accountable European jurisdiction.

II. The Schleswig-Holstein Precedent and the Legal Foundation for Digital Sovereignty

The structural model underpinning the EUSL Cloud is derived in part from the German state of Schleswig-Holstein, which in 2021–2022 began a multi-year migration away from Microsoft services toward a sovereign open-source ecosystem consisting of:

- **Nextcloud** as the primary collaboration and file-exchange environment
- **LibreOffice** for document editing



- **Linux-based desktops** for government employees
- **OpenXchange / UCS / Keycloak** for identity and productivity integration
- **Open-source video and messaging tools** replacing Teams

This shift was motivated by sovereignty considerations, cost reduction, GDPR compliance, and the desire to eliminate foreign dependency in critical digital services.

The relevance for the EUSL Cloud is direct: it provides a legally and operationally validated European precedent demonstrating that a sovereign, non-Microsoft, non-Google, non-Amazon digital environment is not only possible but fiscally advantageous at governmental scale. The EUSL Cloud adopts the same foundation—Nextcloud, Linux servers, Proxmox virtualisation, Matrix/Jitsi for communications, and Keycloak as the single identity provider—thereby aligning with the strongest sovereignty model presently deployed in the European public sector.

III. The Swedish Municipio Platform as the Civic and Institutional Frontend

The Municipio platform, developed and maintained within Sweden’s municipal sector and licensed under the MIT licence, functions as the sovereign civic frontend for many Swedish cities. It is a WordPress-based, accessibility-certified, modular system engineered for public-sector websites, intranets, service portals, forms, and information governance, used by more than twenty Swedish municipalities and municipal companies.

In the EUSL Cloud, Municipio becomes the institutional interface layer that municipalities, DESA units, ministries, and programme partners will use to create:

- digital government portals,
- transparency dashboards,
- public service windows,
- municipal intranets,
- form and request submissions,
- public project reporting, and
- information dissemination aligned with WCAG 2.1 AA.

Because Municipio is MIT-licensed, it can be fully incorporated into the EUSL sovereign stack without licensing fees or vendor lock-in, and can be extended, forked, and evolved across European, African, Asian, and Pan-American programme contexts.

Municipio thus becomes the public-facing part of the EUSL Cloud, while the sovereign infrastructure (Nextcloud, Matrix, Jitsi, Proxmox, Keycloak) forms the operational backbone behind it.

IV. The EUSL Sovereign Cloud Architecture

The Cloud is built on a unified architectural model combining:

- 1. Identity layer** – Keycloak as the single federated identity provider for all members, tenants, and institutions.
- 2. Storage and collaboration** – Nextcloud with 100GB sovereign storage per individual member, expandable per institutional policies.
- 3. Communications** – Jitsi for secure video, Matrix/Element for encrypted messaging.
- 4. Virtualisation** – Proxmox clusters hosting virtual machines, LXC containers, and Docker-ready app environments for members.
- 5. Web presence** – Managed WordPress environments (standard WordPress or Municipio), included



as part of the membership rights.

6. API and integration layer – enabling DESA, PCGG, SLUC, EUOS, and ECHO/FlexSus systems to interoperate with civic platforms and member services.

This architecture allows each member, each SME, each municipality, and each DESA unit to obtain its own secure tenant, isolated but integrated under a single governance framework. Because all major components are EU-jurisdiction, open-source, and sovereign, the EUSL Cloud eliminates external dependency and consolidates operations inside a unified, low-cost, high-control environment.

V. Virtual Services, “One Membership, One Cloud”, and the 100GB Storage Allocation

Every EUSL member, regardless of category (individual, SME, cooperative, professional, municipality, or anchor institution), receives a sovereign cloud environment under the EUSL Cloud Charter. This includes:

- A secure identity
- A Nextcloud storage environment with 100GB allocated at entry
- Access to Matrix and Jitsi
- Access to an application container or VM depending on tier
- The ability to run a basic managed website
- Participation in the internal EUSL Marketplace
- Interoperability with DESA and PCGG institutional systems
- Eligibility to connect to Municipio-based municipal or DESA portals

The allocation of 100GB is not a commercial quota but a governance right: each member receives secure digital capacity within the sovereign infrastructure in the same way they receive access to SLUC, PCGG, or Creativa Universe social mechanisms. Additional capacity is handled through cooperative, not commercial, principles.

VI. Integration Logic: How Municipio, Schleswig-Holstein, and the EUSL Cloud Converge

The convergence occurs along three axes.

First, Municipio provides a tested, public-sector user interface aligned with transparency, simplicity, and citizen access.

Second, the Schleswig-Holstein model provides the sovereign foundation, proving that large-scale public administration can operate without proprietary foreign vendors.

Third, the EUSL Cloud brings these two elements together in a member-centric, cooperative governance context, where individuals, SMEs, municipalities, DESA units, and PCGG institutions operate within the same infrastructure, governed by uniform rules, privacy protections, and shared digital assets.

The result is a federated, sovereign, multi-tenant environment that—unlike national digital systems—extends across borders, sectors, and programme categories. It allows a micro-enterprise, a municipality, a DESA unit, and a citizen to operate under one infrastructure while preserving role-based boundaries, security, and autonomy.



VII. Expected Outcomes and Structural Advantages

The EUSL Cloud yields several institutional outcomes.

First, it creates a pan-continental sovereign digital backbone aligned with European jurisdictional standards, removing dependency on non-European platforms and reducing long-term operational costs for all members.

Second, it creates a unified identity ecosystem, which simplifies user management, enhances security, and allows rapid scale across DESA implementations, municipal deployments, and private-sector activation models.

Third, it establishes a public-sector-grade frontend (Municipio) that ensures accessibility, transparency, and usability in all programme regions—particularly relevant where trust in government systems is low, such as in many African partner states.

Fourth, it materially reduces the cost of digital operations for SMEs and micro-businesses, allowing them to replace multiple subscriptions—Microsoft 365, Slack, Zoom, Dropbox, website hosting, and VPS hosting—with a single sovereign membership environment.

Fifth, it integrates directly with the Creativa Universe governance ecosystem—including SLUC, PCGG, DESA, and ECHO/FlexSus—creating a digital infrastructure that is not merely technically coherent but institutionally and economically aligned with Agenda 2074.

The EUSL Cloud, built upon the Schleswig-Holstein sovereignty model, the Swedish Municipio civic platform, and the cooperative membership architecture of the EUSL Federation, constitutes a sovereign, inclusive, multi-tenant digital ecosystem. It is not a software offering but a structural component of the Creativa Universe, enabling transparency, economic inclusion, sovereign digital rights, and cross-continental governance.

It provides the legal, institutional, and operational infrastructure upon which the wider Creativa and Agenda 2074 programmes can operate. It therefore stands as both a governance tool and an economic engine, delivering clarity, coherence, sovereignty, and public trust across Europe, Africa, Asia, and the Americas.