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# Univention Nubus Product Data Sheet

Nubus gives organizations control over their digital identity infrastructure and business applications, with the flexibility to integrate and operate on their own terms.

Date: September 2026.

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# 1 Univention Nubus

Univention Nubus is an open source Identity and Access Management platform for centrally managing digital identities and integrating applications and IT systems.

Nubus is designed for heterogeneous IT environments and interoperability. Applications can integrate through established standards and documented APIs, while existing identity providers and directory services can be connected to the central identity infrastructure.

Nubus can be operated cloud-native as Nubus for Kubernetes or as Nubus for Virtual Machines on the UCS operating environment. The deployment model can be selected according to the organization's infrastructure and operating requirements.

# 2 Scenarios / Problems Nubus solves

## 2.2 Central Identity Management

Nubus provides a central identity store and management layer for digital identities.

Administrators can centrally manage users, groups, group memberships and identity attributes through a web-based Management UI. Applications and automation can access identity management functions through documented APIs.

The identity model can be extended with additional attributes to represent organization- and application-specific identity information.

This provides applications with a common identity basis instead of requiring each application to maintain its own independent user and group database.

## 2.3 Authentication, Single Sign-On and federation

Nubus provides a central Identity Provider for authentication and Single Sign-On.

Applications can integrate through established protocols including OpenID Connect, OAuth 2.0 and SAML. Users can authenticate centrally and access integrated applications through a common identity.

Nubus can also federate with external Identity Providers. Existing authentication infrastructures can therefore remain authoritative for authentication while Nubus provides the common IAM and application integration layer.

Two-factor authentication is supported. Nubus also provides a 2FA Helpdesk that enables authorized administrators to reset users' two-factor credentials and can provide a self-service reset function for users.

## 2.4 Single access to applications

The Univention Portal provides a central browser-based entry point to applications and services.

Applications available to a user can be presented in one common interface. Portal content can be controlled based on group membership and adapted to the organization.

Nubus also provides End User Self Service functions. Depending on the deployment and configuration, users can maintain supported account information, change or reset passwords and perform account-related tasks without administrative intervention.

Portal, Self Service and Single Sign-On work on the same central identity infrastructure.

## 2.5 Identity lifecycle and provisioning

Nubus supports the distribution of identity changes to integrated applications and services.

The Provisioning Service provides an event-based integration mechanism for systems that maintain their own data persistence. Consumers can register for relevant changes to directory objects and receive user, group and other identity-related changes through a documented REST interface.

This allows connected systems to react to identity lifecycle events such as the creation or modification of users, changes to group memberships or the removal of identities.

Nubus also supports initial provisioning of data for newly connected consumers.

## 2.6 Open integration platform

Nubus is designed to integrate applications from different vendors and technology stacks.

Instead of requiring one proprietary integration mechanism, Nubus provides several integration levels for different use cases. These include:

- OpenID Connect
- OAuth 2.0
- SAML 2.0
- LDAP and LDAPS
- HTTP REST APIs
- UDM HTTP REST API
- SCIM

- event-based provisioning
- identity and application connectors

An application can therefore integrate only the capabilities it needs. An application may, for example, use Nubus only for Single Sign-On, use the central directory for identity information, consume lifecycle events, or combine multiple integration mechanisms.

Nubus can also connect existing IAM and directory systems. The Nubus Directory Importer supports the recurring unidirectional synchronization of users and groups from external LDAP-based directories into Nubus. Federation provides an alternative where identities remain authenticated by an external Identity Provider.

## 2.7 Integration ecosystem

Nubus combines generic open interfaces with an established ecosystem of application integrations.

The Univention Integration Catalog provides a central overview of integrations available for Nubus. It includes different integration models such as:

- applications integrated through open standards
- documented configuration-based integrations
- identity connectors
- groupware connectors
- packaged integrations
- applications available through the Univention App Center
- integrations for cloud-native software stacks
- additional integration solutions provided by Univention and ecosystem partners

This means that integration is not limited to applications for which a dedicated Nubus-specific connector exists. Applications supporting compatible standards such as OpenID Connect, SAML, SCIM or LDAP can use these standard interfaces, while more complex lifecycle or data synchronization scenarios can use dedicated integration components.

The Integration Catalog documents the available integration path and supported capabilities for individual solutions.

## 2.8 Integration with existing identity infrastructures

Nubus does not require organizations to replace all existing identity systems before introducing a common IAM layer. Existing Identity Providers can be federated through SAML or OpenID Connect. Existing LDAP-based directories can be connected through the Nubus Directory Importer.

Nubus for Virtual Machines additionally provides extensive integration capabilities for existing Windows, Linux and Microsoft Active Directory environments through the UCS operating environment.

This enables Nubus to be introduced into heterogeneous existing infrastructures and to act either as the central identity system or as part of a federated identity architecture.

## 2.9 Flexible deployment

Nubus provides two deployment models.

Nubus for Kubernetes provides the IAM functionality as containerized services deployed using Kubernetes. The deployment is described through Helm Charts and is designed for integration into cloud-native platform environments.

Nubus for Virtual Machines operates the Nubus IAM functionality on the UCS operating environment. It supports deployment on virtual machines or physical systems and provides additional infrastructure capabilities for traditional data center and domain environments.

Both deployment variants provide the central Nubus capabilities for identity management, application integration, Portal and Single Sign-On. The detailed technical capabilities available in each deployment model may differ.

## 2.10 Scalable and highly available operation

Nubus is designed for operation in larger and distributed environments.

Nubus for Kubernetes uses Kubernetes workload management to scale supported components. The directory service supports separate primary, secondary and proxy roles. Secondary LDAP instances can be scaled for read workloads and two LDAP Primary instances can be operated in mirror mode to provide high availability for the directory service.

Nubus for Virtual Machines supports distributed domain architectures, directory replication and redundant directory nodes.

The specific availability and scaling architecture can therefore be adapted to the selected deployment model and operating environment.

## 2.11 Operational transparency and observability

Nubus provides operational interfaces and information that can be integrated into standard monitoring and logging environments.

Current Nubus releases provide structured logging and metrics interfaces. Nubus for Kubernetes can expose metrics for central IAM components to Prometheus-compatible monitoring systems, including metrics from the Directory Manager and Identity Provider.

Technical information about managed directory objects, including identifiers and modification information, is available to administrators.

## 2.12 Software supply-chain transparency

Nubus for Kubernetes provides mechanisms that allow operators to verify the software artifacts supplied by Univention.

Container images and Helm Charts are cryptographically signed. Software Bill of Materials information is provided in CycloneDX format and Vulnerability Exploitability eXchange information is supplied for vulnerability assessment.

These mechanisms allow operators to integrate Nubus artifacts into established software supply-chain and vulnerability-management processes.

## 2.13 Open Source and operational control

Nubus is Open Source software.

Source code and, for Nubus for Kubernetes, the deployment artifacts are publicly available. Nubus can be operated in infrastructure selected and controlled by the organization rather than requiring the use of a specific proprietary identity cloud.

Its use of established protocols and documented interfaces supports interoperability between Open Source and proprietary applications and allows organizations to design their IAM architecture independently of a single application vendor.

# 3 Current status

Publication date: September 2026.

For product updates after the publication date of this data sheet, refer to the current Univention product documentation and release notes.

The complete and continuously updated documentation is available at:

https://docs.software-univention.de/

This includes the current documentation for:

- Nubus for Kubernetes Architecture
- Nubus for Kubernetes Operation
- Nubus for Kubernetes Release Notes
- Nubus Manual
- Nubus for Virtual Machines / Nubus for UCS Operation

The release notes document new capabilities, changes, fixes, security updates, deprecations and upgrade requirements for subsequent Nubus releases.

For the latest product capabilities and technical requirements, the documentation applicable to the respective deployed product version should be consulted.