

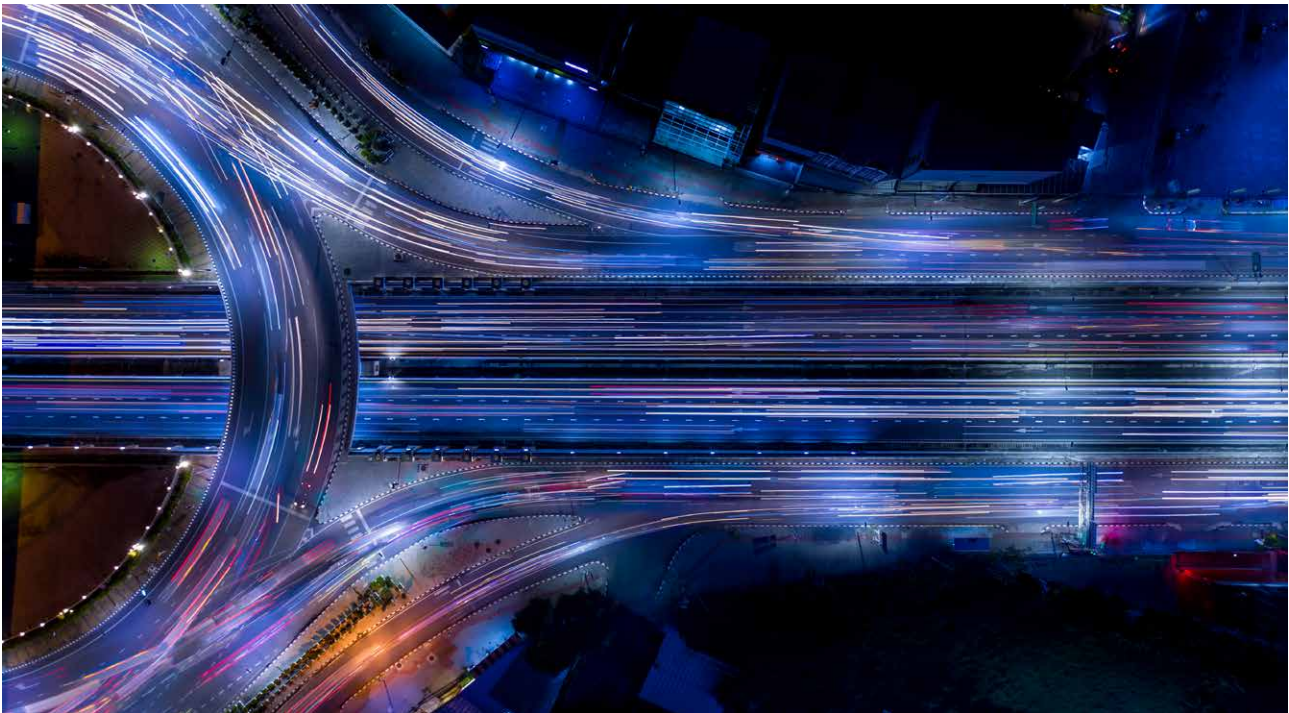


# u.trust Identify

Enabling Secure and Easy PKI and Certificate Lifecycle Management



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u.trust Identify



UTIMACO u.trust Identify is the all-in-one PKI solution providing secure and easy PKI and certificate lifecycle management.

Public Key Infrastructures (PKIs) are used today in a variety of industries to secure the electronic transfer of information enabling the identification of people and devices and provide means for trusted signatures. The secure and reliable generation, issuance, renewal, and revocation of certificates is crucial for that.

UTIMACO u.trust Identify is the all-in-one PKI solution providing a flexible design and can therefore be adapted to the requirements of different industries, applications and use cases with minimal configuration effort. Whether it is smart metering, eID, document signing, S/MIME, TLS, or a combination of all these use cases – u.trust Identify is the perfect fit.

**UTIMACO u.trust Identify is the flexible and scalable all-in-one solution to deploy and operate PKIs with all core functionality in scalable modules that are seamlessly interfacing with each other.**



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**Certificate Authority (CA)**



**Validation Service (VS)**

Online Certificate Status Protocol (OCSP)  
Proxy and Responder, as well as CRL support



**Certificate Management Systems (CMS)**

Which also acts as a Registration Authority (RA)



**Active Directory Certificate Services (ADCS)  
integration support**

## Key Advantages of u.trust Identify



## Key Features

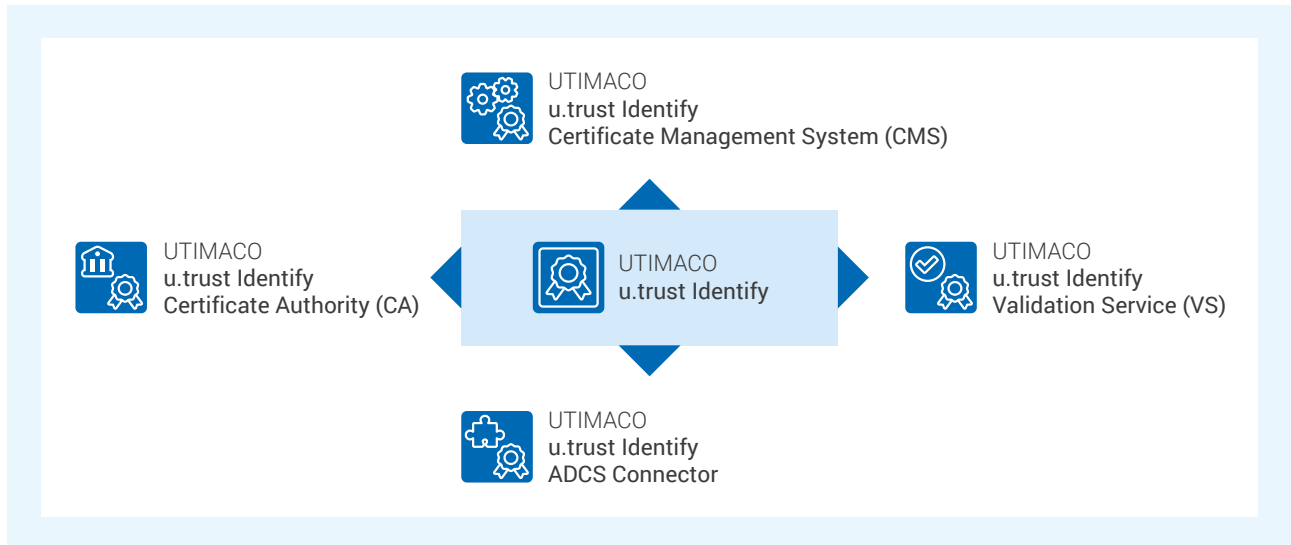
- **An all-in-one Solution for PKI**
  - CA – Certificate Authority
  - CMS – Certificate Management Systems
  - VS- Validation Service (OCSP Proxy and Responder, CRL Support)
  - MS ADCS Integration – Active Directory Certificate Services (ADCS) Connector
- **Easy Setup and True Automation**

Scriptable to the core – even with regards to the installation. Get more done in less time by automating the setup of new CAs, workflows and management operations
- **More Control and Reduced Complexity**

Easy to manage with a single pane of glass for all PKI related operations. An in-depth view into your PKI environment at your fingertips
- **Separation of Duties**

Need-to-know and need-to-do principles as part of the fine granular role concept

## ☆ u.trust Identify Components at a Glance



# The UTIMACO u.trust Identify Components



## UTIMACO u.trust Identify Certificate Authority

**The u.trust Identify Certificate Authority (CA) is a core component of the PKI solution and can be setup as Root CA or Subordinate CA.**

The u.trust Identify Certificate Authority module is responsible for issuing, renewing, and revoking certificates and supports Certificate Signing Requests (CSRs). You can launch multiple CA instances on a single host for multi-tenancy and multi-CA setups. Each instance can either have individual, or shared certificate profiles and be connected to u.trust Identify CMS, as well as u.trust Identify VS.

u.trust Identify provides built-in HSM support ensuring the hardware-based security for the private keys of the certificate authorities and multiple log options; reporting into syslog or individual log files.



## Key Features

- Multi-tenant capabilities through virtual CAs
- Easy customization
- Individual certificate profiles per CA
- Built-in support for UTIMACO SecurityServer HSM
- Highly flexible and scalable
- X.509 v3 and optional CV-Certificate support



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## u.trust Identify Certificate Management System

**The UTIMACO u.trust Identify Certificate Management System (CMS) acts as the core interface to the PKI. It enables certificate lifecycle management and offers an easy overview of all issued certificates from a single, intuitive Web UI.**

The u.trust Identify Certificate Management System (CMS) offers central administration and management of multiple (online and offline) CAs, with a fine-grained permission management. It provides a single pane of glass for all CAs, deployed and revoked certificate profiles and the entire certificate inventory. Notification services such as expiry reminders help to avoid outages and approval workflows enable e.g. four-eye principles. The full certificate lifecycle, like certificate issuance, renewal and revocation can be triggered and managed from within the central UI, including logging and auditing. The system was designed to also address multi-tenancy, providing the perfect base for PKIaaS deployments.



### Key Features

- Multi-CA support
- Multi-tenant support with mix-and-match permissions for CA management
- Certificate inventory, lifecycle management and automation
- Active Directory (AD) or Lightweight Active Directory Protocol (LDAP) integration
- Role-based management with separation of duties
- Support for customer-specific workflows



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## u.trust Identify Validation Service

**The UTIMACO u.trust Identify Validation Service (VS) is the single point of contact for all certificate status related queries.**

The u.trust Identify Validation Service (VS) provides full flexibility in high-performance handling of certificate status queries. The status information can be fed into the VS system from multiple Online Certificate Status Protocol (OCSP) databases or Certificate Revocation Lists (CRLs) depending on your individual setup.

This module goes beyond the features of traditional OCSP responders or CRL publishing services, by offering an OCSP proxy service aggregating multiple OCSP responders under a single URL.



### Key Features

- High-performance status queries
- Including Online Certificate Status Protocol (OCSP) responder and proxy
- Support for CRL and Delta-CRL
- Multi-CA support



# UTIMACO u.trust Identify ADCS Connector

**u.trust Identify ADCS Connector is the perfect add-on to the u.trust Identify CMS to integrate with existing Microsoft Active Directory Certificate Services into your u.trust Identify set-up and provides the benefit of a centralized management through a single pane of glass.**

The connector offers the import of existing ADCS certificates into the certificate inventory and triggering issuance, renewal, and revocation of certificates.



## Key Features

- Integration of Microsoft Active Directory Certificate Services (MS ADCS)
- Certificate inventory overview, request, revocation for MS ADCS

## u.trust Identify Bundle Overview

		u.trust Identify Basic	u.trust Identify Standard Bundle	u.trust Identify Enhanced Bundle
Modules	u.trust Identify CA – Certificate Authority	✓	✓	✓
	u.trust Identify CMS – Certificate Management System	✓	✓	✓
	u.trust Identify VS – Validation Service	✓	✓	✓
Certificate Management System	Number of Tenants	1	up to 3	up to 10
Certificate Authority	Number of CAs	up to 6	up to 12	up to 30
	Number of Certificates	up to 100,000	up to 250,000	up to 5,000,000
Validation Service	OCSP Responder incl. OCSP Proxy	✓	✓	✓
	CRL	✓	✓	✓
Integration Options	Protocols	EST, ACME, CMP, SCEP, OCSP	EST, ACME, CMP, SCEP, OCSP	EST, ACME, CMP, SCEP, OCSP
	Application Programming Interfaces (APIs)	–	WebServices, REST API	WebServices, REST API
	HSM Integration	optional	optional	optional
Deployment Options		RPM	RPM, VM, Docker Support	RPM, VM, Docker Support
License	Licensing Type	perpetual	perpetual	perpetual



# About UTIMACO

**UTIMACO is a global platform provider of trusted Cybersecurity and Compliance solutions and services with headquarters in Aachen (Germany) and Campbell, CA (USA).**

UTIMACO develops on-premise and cloud-based hardware security modules and key management solutions as well as compliance solutions for telecommunication providers in the field of regulation. UTIMACO is one of the world's leading manufacturers in these market segments.

470+ employees around the globe create innovative solutions and services to protect data, identities and communication networks with responsibility for global customers and citizens. Customers and partners in many different industries value the reliability and long-term investment security of UTIMACO's high-security products and solutions.

Find out more on [utimaco.com](https://utimaco.com)



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