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# PITCH DECK.

JANUARY 2026

secure, compliant and  
streamlined digital identity  
management in OT  
environments



# INTRO

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**Open-source** platform for automated, secure identity management in industrial networks.

## INDUSTRIAL DIGITALIZATION

Industry is shifting to **connected, intelligent, and automated** environments.

## MANDATORY SECURITY

**Cybersecurity and compliance** (e.g., CRA, NIS2) will be mandatory.

## TRUSTPOINTS APPROACH

Trustpoint enables **manufacturers and operators** to integrate digital identities easily and securely.

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# PROBLEM

Security & Compliance in Industrial OT: **Still Manual, Costly, Risk-Prone**

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## CERTIFICATE CHAOS

Manual certificate provisioning is **error-prone** and doesn't scale.

## SECURITY SKILL GAP

Engineering teams lack **time, resources, and expertise** to manage secure PKI.

## VENDOR LOCK-IN

Existing solutions are often **proprietary, costly, or not designed for OT**.

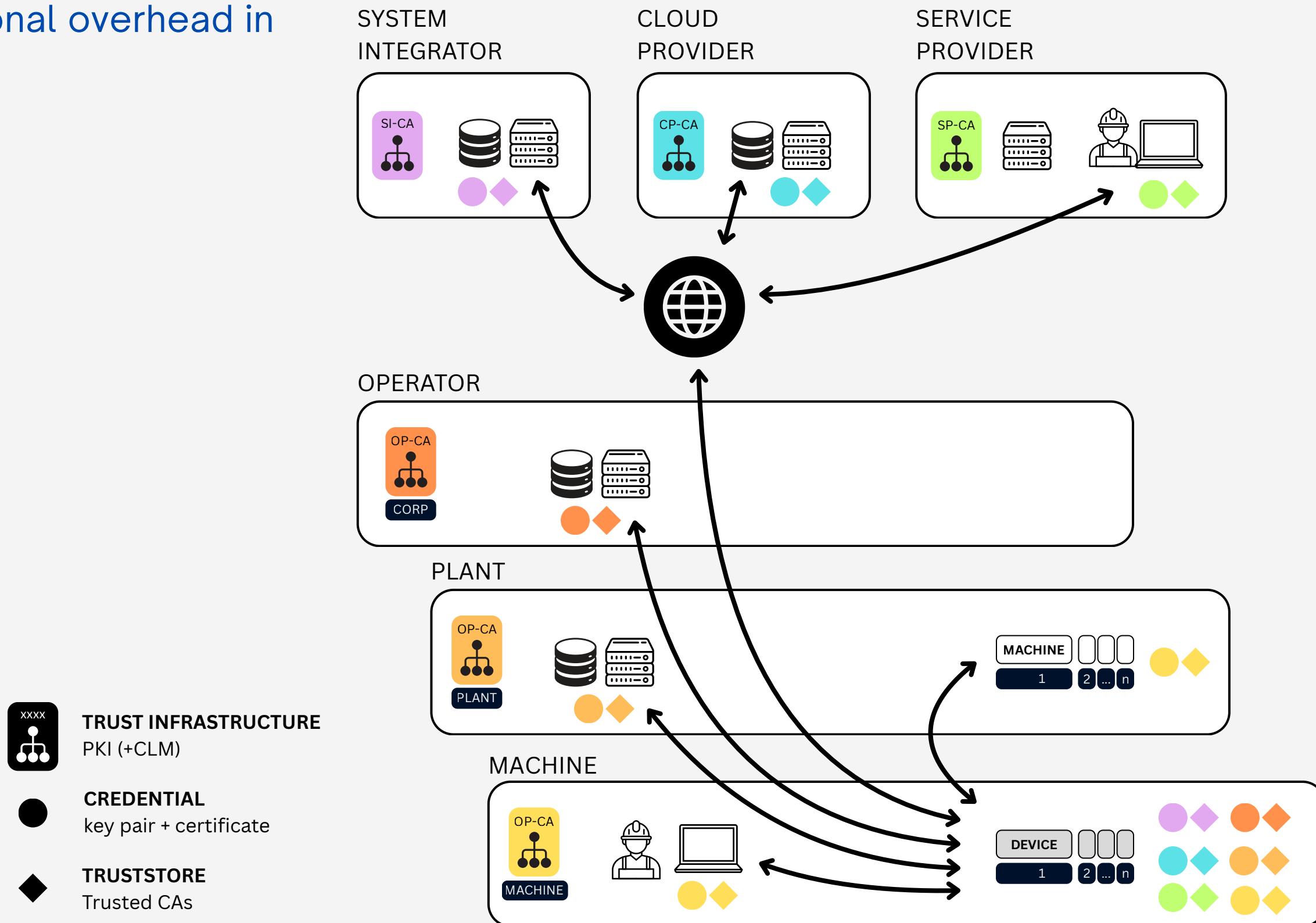
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\* More information about certificates can be found in the appendix.

# FRAGMENTATION

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Disconnected **certificate silos** increase complexity, risk, and operational overhead in OT environments.



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## DEVICE MANUFACTURER



## SYSTEM INTEGRATOR



## OPERATORS INDUSTRY



## BUILDING AUTOMATION



## POWER GRID

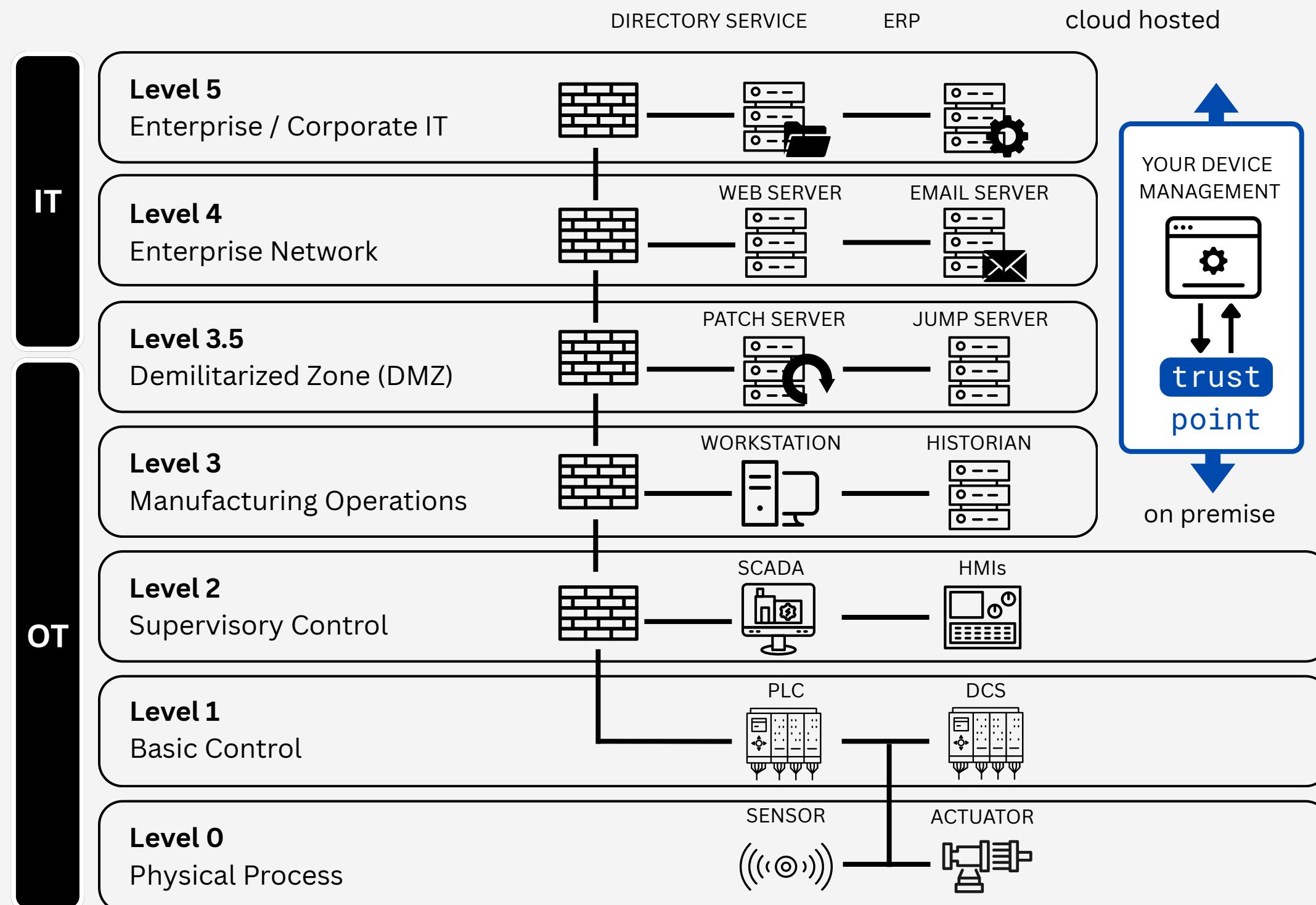


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# DEVICE MANUFACTURER

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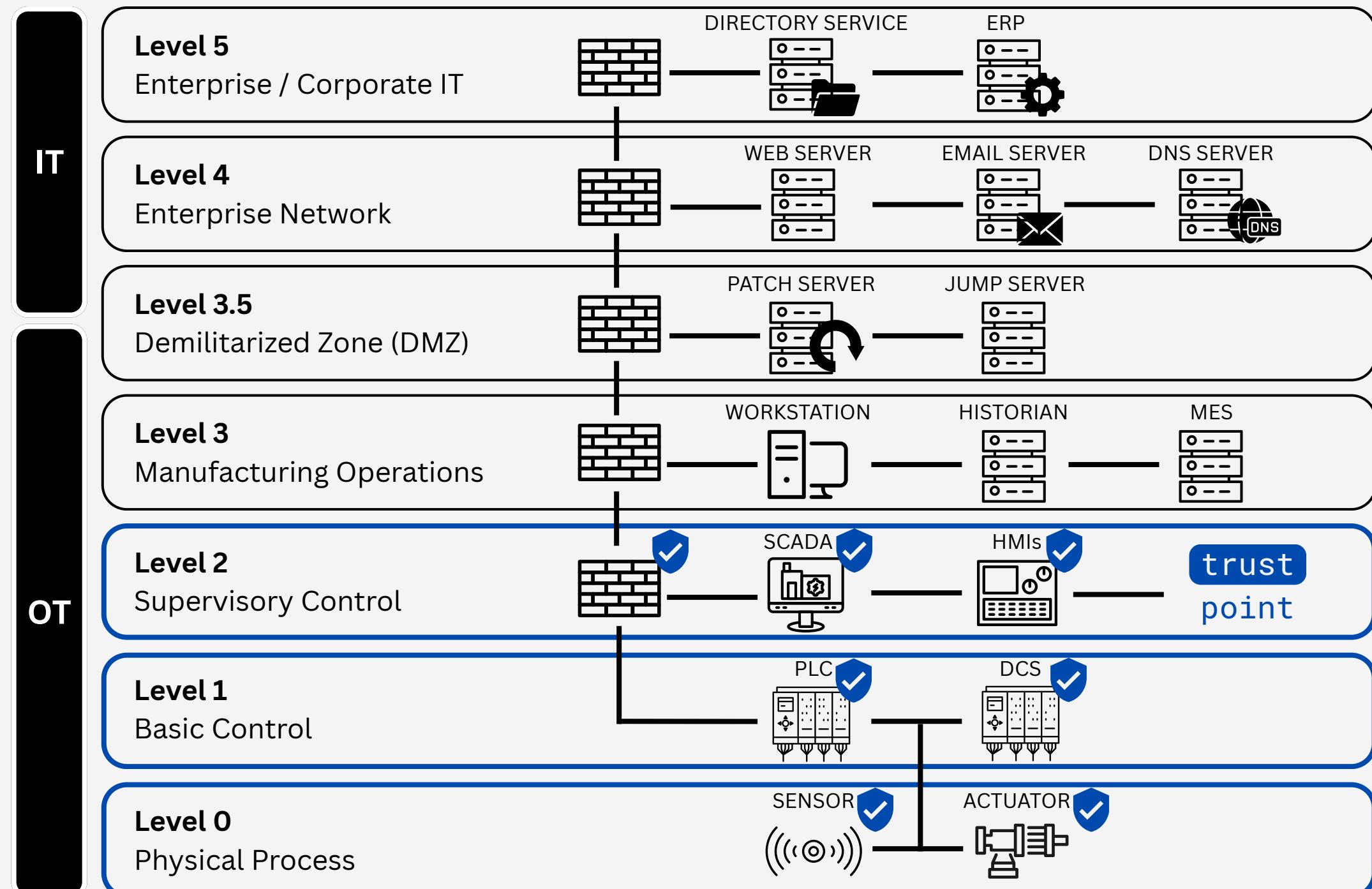
Trustpoint can be integrated (headless) into devices, machines, or management platforms to provide built-in certificate and identity management.



# SYSTEM INTEGRATORS

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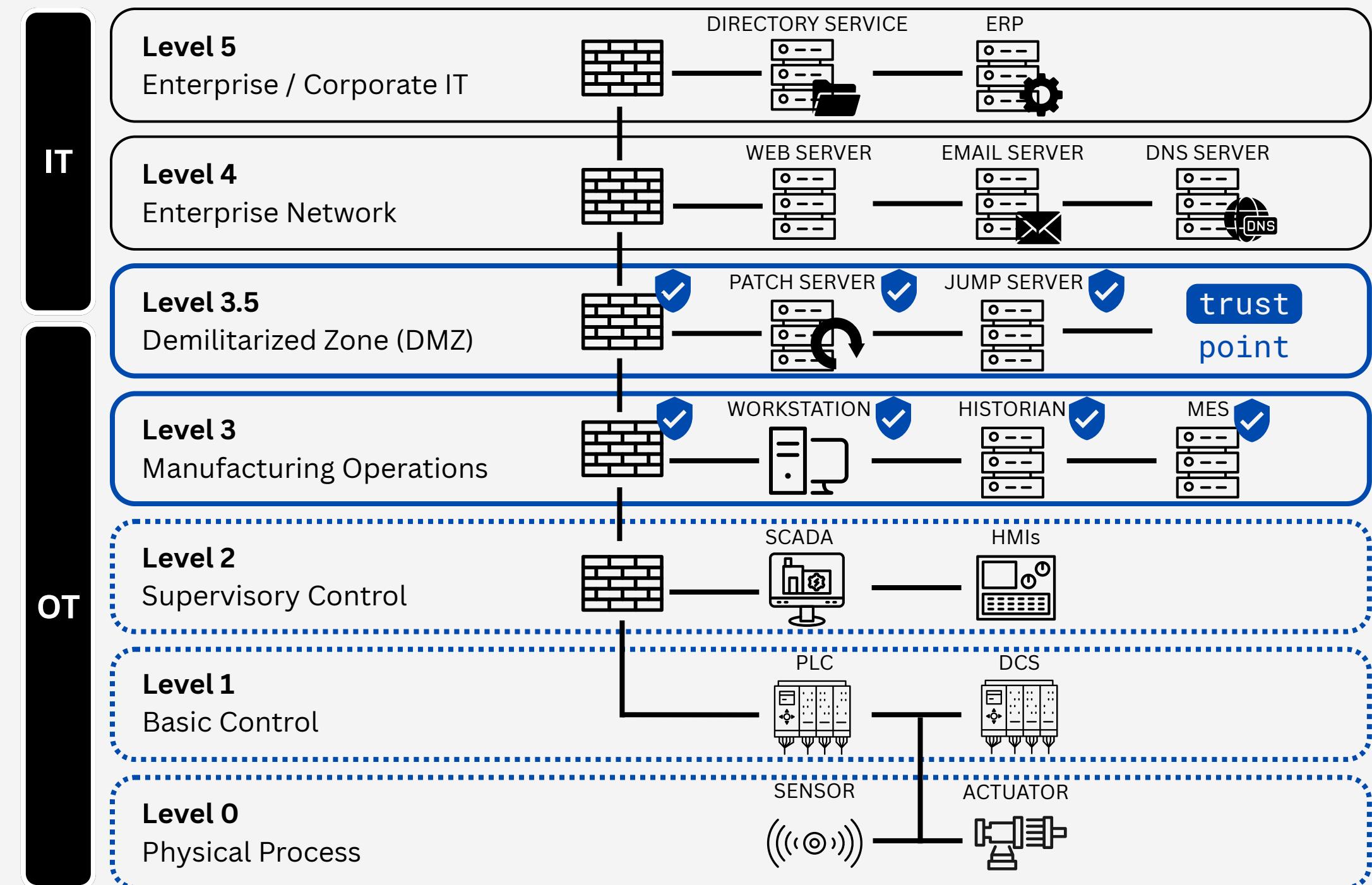
Trustpoint enables system integrators to centrally manage device identities and certificates even in restricted or offline industrial environments.



# OPERATORS

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Trustpoint helps operators securely manage machine identities throughout the entire lifecycle—from commissioning to decommissioning



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# SOLUTION

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Trustpoint – Open, Flexible, and Automatable

## LIFECYCLE AUTOMATION

Automated **certificate lifecycle management** for OT devices and systems.

## FLEXIBLE ONBOARDING

Supports **manual, semi-automated, and Zero-Touch** onboarding.

## OPEN CORE

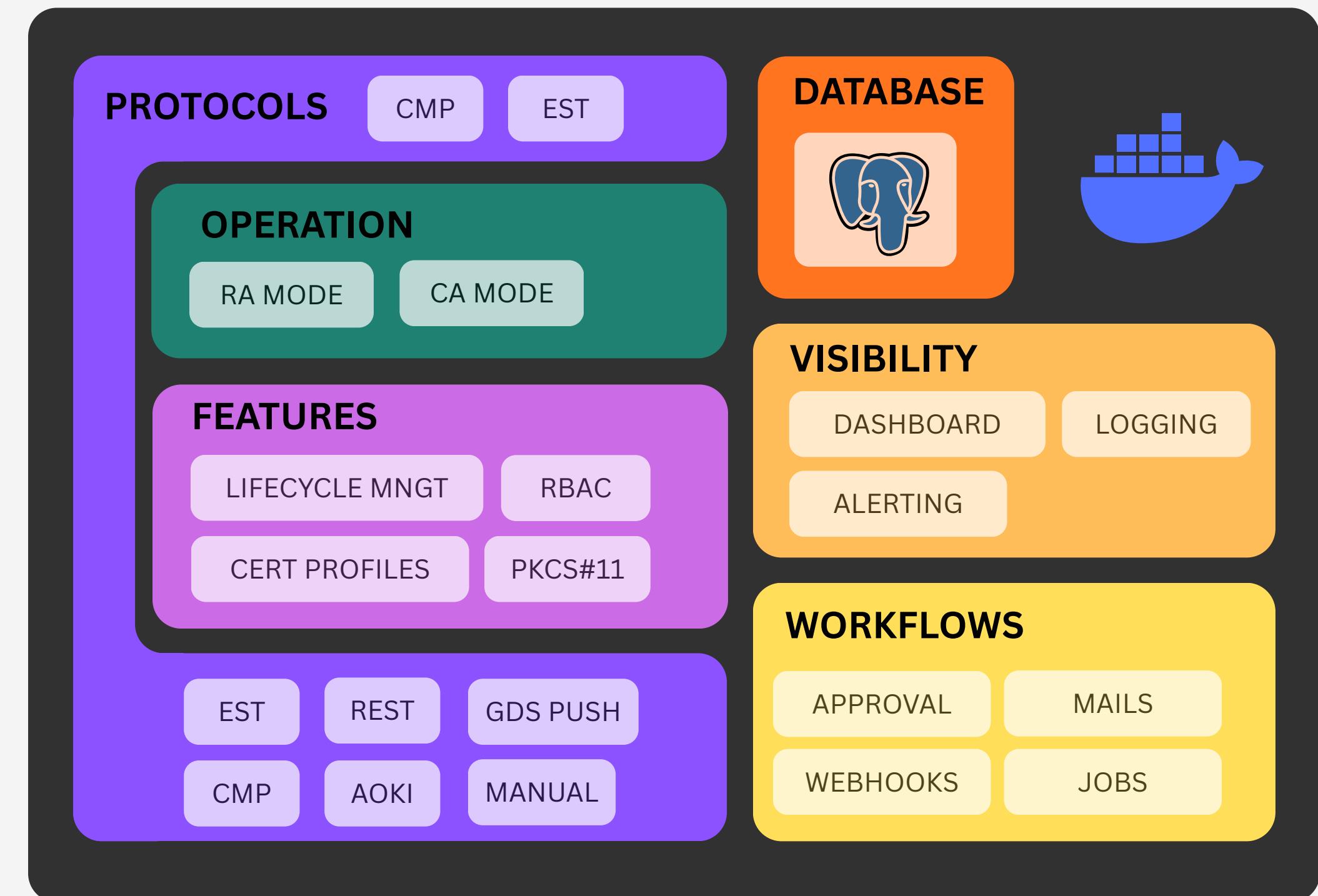
**OSS** foundation with optional professional services and integrations.

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# ARCHITECTURE

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From onboarding to decommissioning — Trustpoint automates the entire certificate lifecycle.



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\* Some features will be available in future versions.

# REFERENCE PROJECTS

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Secure Device Onboarding in Real Industrial Environments

## SECURE ONBOARDING

A Belden Hirschmann BOBCAT Switch is securely onboarded using its **Initial Device Identifier (IDevID)** for authentication.

## OPC UA GDS

Certificates are issued to a Siemens S7-1500 via UaGDS, which handles **centralized certificate provisioning, trust list management, and automated renewal**



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SIEMENS

# BUSINESS MODEL

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Open Source Base – Sustainable Service & Support Model

## REVENUE STREAMS

- **Professional services** (deployment, training, compliance consulting)
- **SLA-based support and incident response**
- **Custom integrations & feature** development

## GO-TO-MARKET STRATEGY

- **Community-first** (GitHub, DockerHub, events)
- Partner & integrator channels
- OEM-ready modules
- Industrial marketplace visibility

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\* As of today, Trustpoint is not yet an operating company (due to funding guidelines; expected 09/26). Nevertheless, we look forward to discussing use cases and PoCs with you.

Funded by:



Bundesministerium  
für Forschung, Technologie  
und Raumfahrt

# RESSOURCES & ACCESS

Everything You Need to Explore, Deploy, and Contribute

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# THANK YOU.

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# APPENDIX

# DIGITAL CERTIFICATES

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Digital Certificates – The Trust Layer for Machines

*“Digital certificates are essential for **securing communication, proving device identity, and ensuring compliance** in connected industrial environments”*

## WHAT IS IT?

A **digital certificate** is a **digital ID** for machines, proving their **identity** and enabling **secure communication**.

## WHY IT MATTERS?

- **Verifies** machines and components
- Enables **encrypted, trusted connections**
- Replaces insecure passwords and manual configs
- Supports **CRA, NIS2, IEC 62443** compliance

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# LOGISTICS

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Trustpoint different ways to manage certificates on end devices. From zero-touch to manual ways.

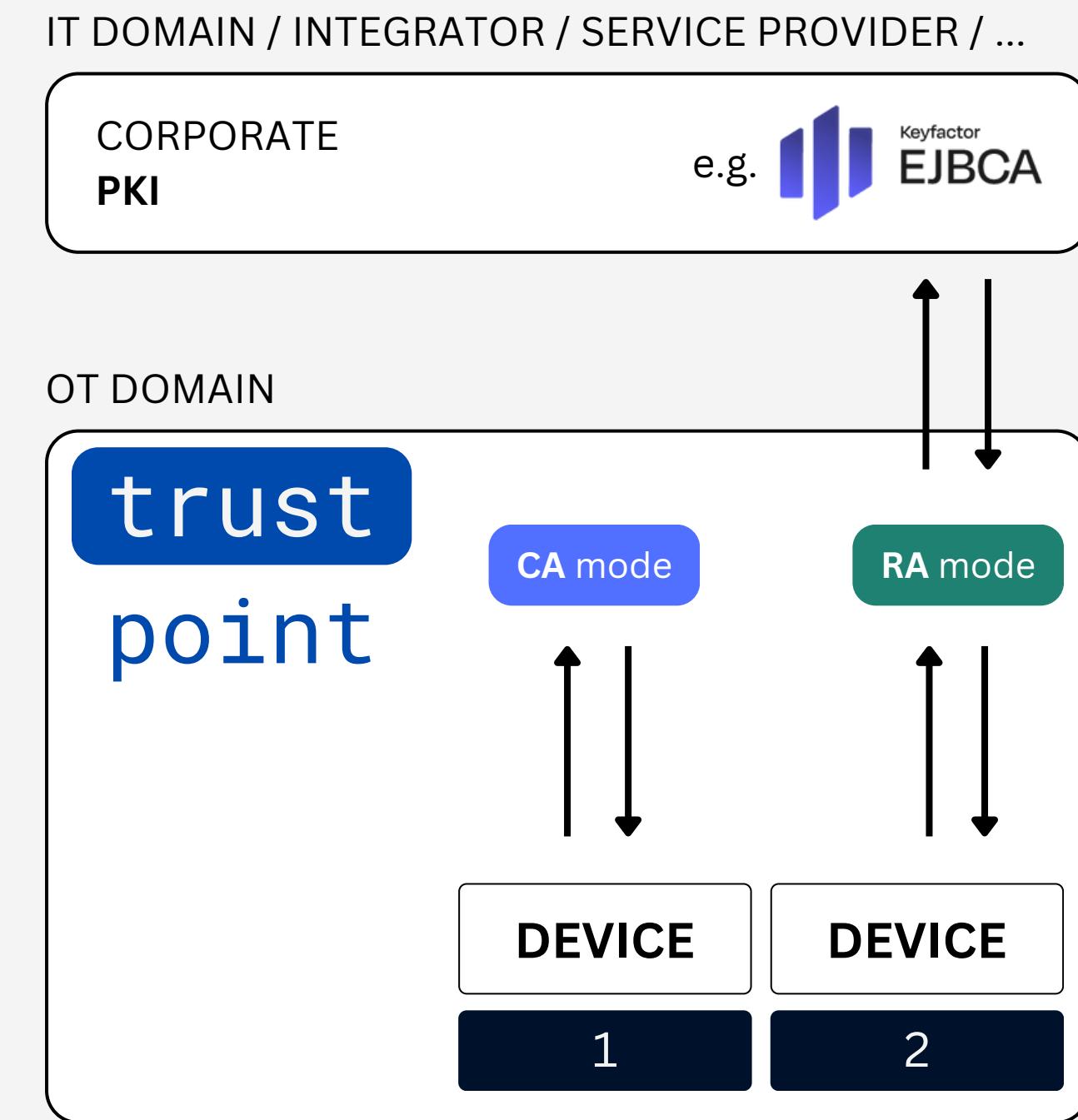
Method	Auth Methods	Key Capabilities
AOKI (Zero-Touch)	IDevID	Zero-touch onboarding; automatic LDevID issuance
EST (RFC 7030)	Username+Password, IDevID, mTLS	LDevID onboarding; app cert enrollment; renewal & re-enrollment
CMP (RFC 9483)	Shared Secret, IDevID, mTLS	LDevID onboarding; app cert enrollment; automated renewal & rekey
Manual Download	—	Server-generated credentials; PKCS#12/PEM download
Remote Credential Download	OTP	Browser-based retrieval of issued credentials

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# OPERATION

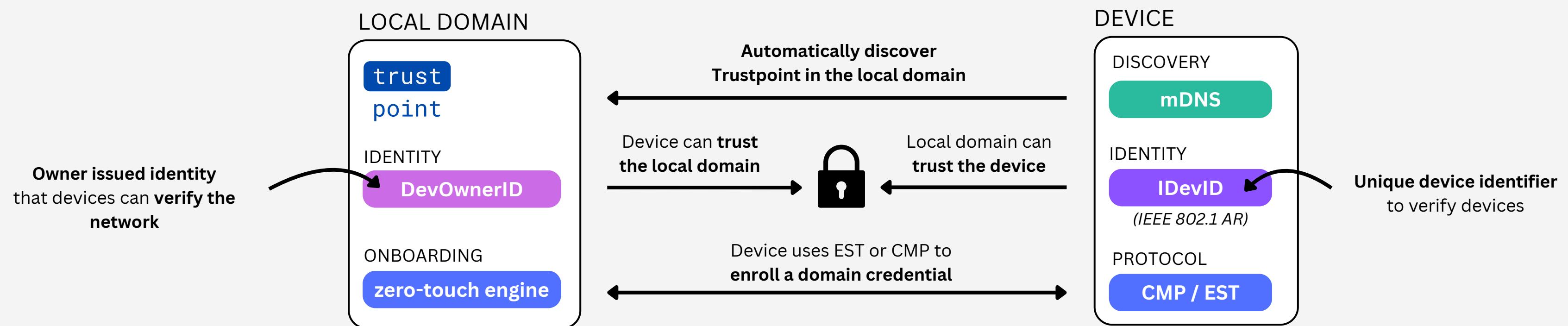
Trustpoint supports **local (air-gapped)** certificate management and acts as a local **registration authority**, issuing certificates via a remote PKI.

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Devices can automatically onboard into Trustpoint using the Automated Onboarding Key Infrastructure (AOKI) for **zero-touch onboarding**, leveraging their manufacturer device identity and multicast DNS for Owner Service discovery.



# AOKI OPTIONS

BETA

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Devices can **automatically onboard** into Trustpoint using their manufacturer device identity utilizing multicast DNS.

## PER-DOMAIN AOKI

- DevOwnerIDs are **issued per owner domain**, not per device.
- Device establishes trust by **pinning the DevOwnerID issuer chain** used during onboarding.

No direct device-owner cryptographic binding, but more scalable for large and distributed environments.

## PER-DEVICE AOKI

- Each device is associated with a **device-specific DevOwnerID** (by referencing the IDevID in the SAN)
- Ownership is **cryptographically tied to the individual device** from the beginning.

Maximum security through device-intrinsic ownership binding, at the cost of higher operational effort

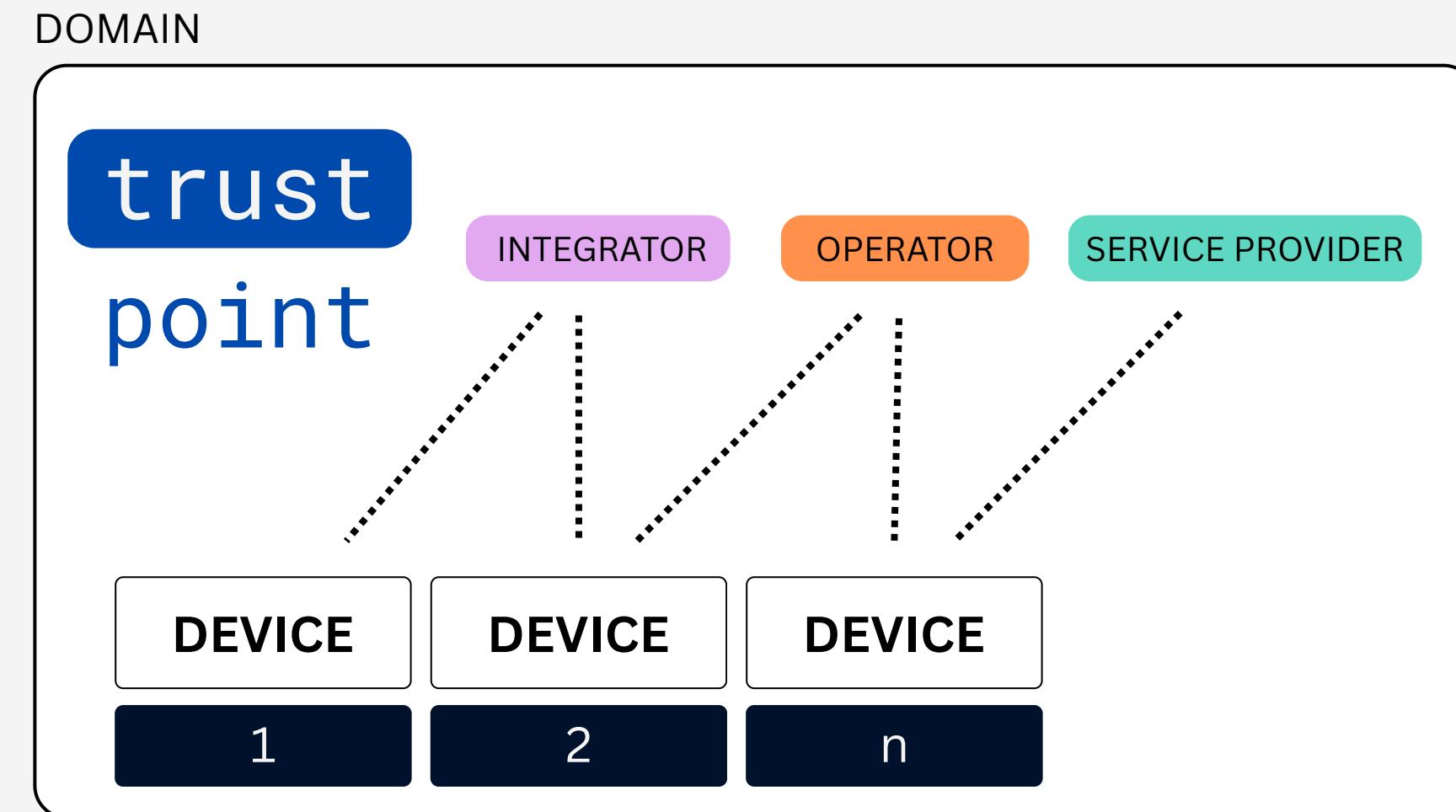
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# MULTI-TENANCY

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Since multiple actors need to manage certificates on the device, Trustpoint offers **multi-tenancy for different actors**, such as integrators, operators, and service providers.



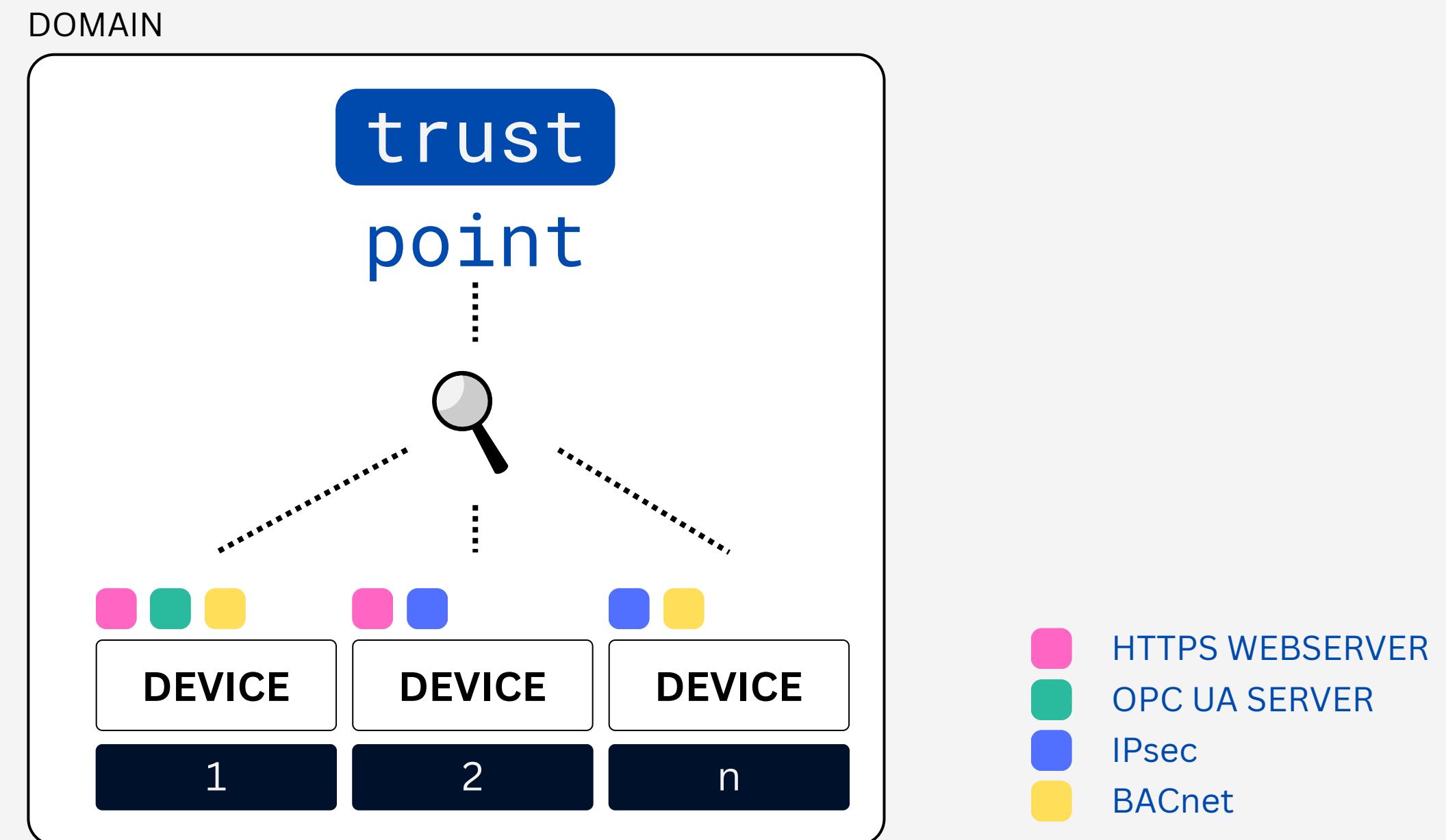
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# CRYPTO DETECTION

UPCOMING FEATURE

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Trustpoint **detects devices** and their capabilities on certificates. Our device library offers an individualized workflow for certificate management.



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