

## ***Workload Identity Management: Non-Human Identity (NHI) Governance with AI Agents***

### Overview

Tuebora's Workload Identity Management Service delivers intelligent, end-to-end governance for Non-Human Identities (NHIs) - digital identities used by services, bots, applications, machines, and automated tasks.

As organizations accelerate digital transformation, the number of NHIs has surged. Yet, these identities often lack ownership, well-defined life cycle management processes, governance, and visibility, posing significant security and compliance risks. Tuebora's Agent-Driven solution fills this gap with lifecycle automation, deep analytics, and policy enforcement tailored for NHIs.

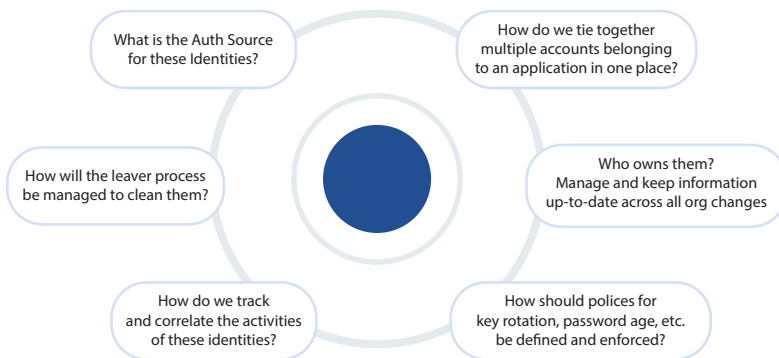


### Key Capabilities

1. **Discovery & Reconciliation** - Auto-discovers NHIs across hybrid, cloud, and on-prem environments; reconciles accounts with associated workloads for full visibility; categorizes identities by type, risk, and business function.
2. **Ownership & Lifecycle Management** - Assigns accountable owners to every NHI; tracks lifecycle changes including ownership transfers.
3. **Credential & Secrets Governance** - Enforces policies for password/keys, ownership; automatic vaulting of keys/passwords; integrates with enterprise PAM tools.
4. **Orphaned Account Mitigation** - Identifies NHIs without active usage or application links; automates decommissioning of obsolete accounts; provides forensics on account history and usage.
5. **Governance & Policy Enforcement** - Enables periodic access reviews and usage certification; aligns entitlements with the principle of least privilege; generates audit-ready reports with full access context.
6. **Anomaly Detection & Threat Prevention** - Monitors NHI usage via SIEM integration; detects anomalies and triggers automated remediation; flags excessive or unusual access behavior.

### AI-Driven NHI Lifecycle Framework

Phase	Functionality
Discover	Locate NHIs across infrastructure and cloud platforms.
Reconcile	Link NHIs to services, applications, and responsible owners.
Ownership	Ability for human identities to track lifecycle changes and be notified.
Define and Enforce Policies	Set rules for credentials, access limits, and usage thresholds.
Review Access	Perform periodic reviews with stakeholder feedback loops
Audit	Log and analyze historical activity, changes, and alerts.
Decommission	Automatically retire or revoke accounts when services are deprecated.



## Technical Highlights

- **Modular AI Agent Design** – Integrates seamlessly with other Tuebora AI Agents (e.g., JML, Access Reviews).
- **PAM + IGA Integration** – Combines secrets management with full identity lifecycle oversight.
- **SIEM Compatibility** – Plug into tools like Splunk, QRadar, and Sentinel for behavioral monitoring.
- **Self-Service Support** – Role-based access for credential updates and access requests.
- **Policy Engine** – Declarative and customizable governance rules for different NHI types.

## Business Benefits

- **Stronger Security Posture** - Reduce attack surface and insider threats by eliminating orphaned and over-privileged NHIs.
- **Full Visibility & Control** - Understand who owns, uses, and approves each NHI across your enterprise.
- **Operational Efficiency** - Automate provisioning, de-provisioning, and access certification tasks.

- **Regulatory Compliance** - Meet audit requirements with continuous tracking and complete governance.

## Integration Ecosystem

- **Cloud Platforms** - AWS, Azure, GCP.
- **Secrets Managers** - CyberArk, BeyondTrust, AKeyless, AWS Secrets Manager.
- **SIEM Tools** - Splunk, QRadar, Microsoft Sentinel.

## Conclusion

As Non-Human Identities (NHIs) continue to proliferate across cloud-native, hybrid, and automated enterprise environments, many identity governance solutions struggle to provide the necessary control, visibility, and security. This is often due to their reliance on traditional processes and mechanisms originally designed for managing human identities, which aren't well-suited to the unique needs of NHIs.

**Tuebora's Workload Identity Management Service** bridges this critical gap, empowering organizations to **proactively discover, govern, and secure Non-Human Identities** with the same rigor applied to human account.

Through **AI-Driven automation, policy-driven governance, and seamless integration** with existing security ecosystems, Tuebora enables enterprises to institute and maintain:

- **Comprehensive Governance** - Extends beyond password management to offer full lifecycle oversight of NPAs.
- **Enhanced Security Posture** - Reduces the attack surface by eliminating orphaned accounts and enforcing strict access controls.
- **Operational Efficiency** - Automates routine tasks, freeing up IT resources for strategic initiatives.
- **Regulatory Compliance** - Maintains detailed audit trails and enforces policies that align with industry standards.

**Don't leave your machine identities unmanaged.** Gain full lifecycle control with Tuebora's purpose-built NHI governance solution designed for the modern enterprise.

## Contact Information

For more details about Tuebora's Non-Human Identity (NHI) Governance with AI Agents, visit [www.tuebora.com](https://www.tuebora.com) or contact us at [info@tuebora.com](mailto:info@tuebora.com).