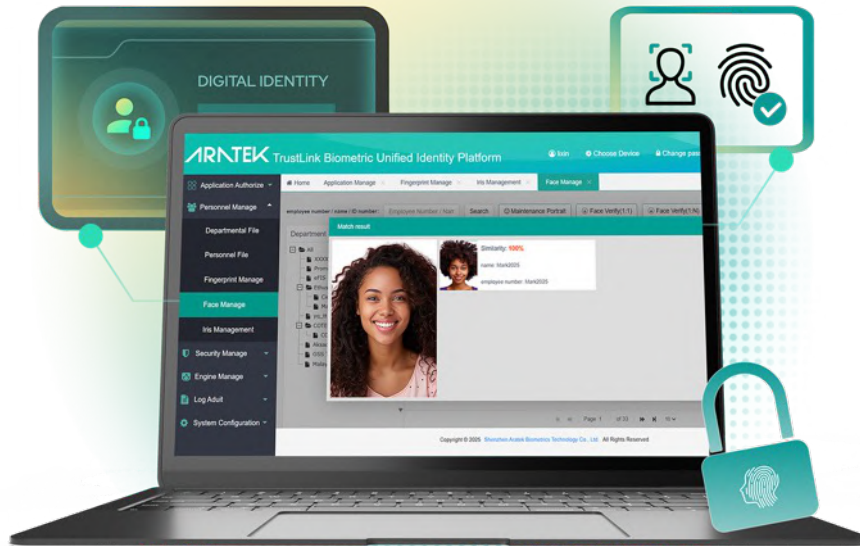# ARATEK

TrustLink™ Platform

Effortless Biometric Identity Management for Modern Organizations

Aratek TrustLink™ is a high-performance biometric identity management platform designed for organizations seeking robust digital onboarding, identity verification, and authentication across diverse applications. Powered by Aratek's advanced biometric algorithms for image processing and matching, TrustLink™ delivers exceptional accuracy and speed in fingerprint and facial recognition—backed by proven compliance with rigorous industry performance benchmarks. All transactions are secured with encrypted communication protocols, ensuring data integrity and privacy at every stage. This combination enables enterprises, government agencies, and service providers to deploy trusted digital identity ecosystems with confidence.

Its modular architecture, comprehensive API suite, and cross-platform compatibility make integration straightforward, with deployment options for both on-premises and cloud environments. From workforce and government identity management to financial eKYC and healthcare authentication, TrustLink™ provides the flexibility to support a wide range of use cases. As a turn-key identity management solution, it enables organizations to quickly deploy reliable, tailored biometric identity ecosystems—minimizing complexity, maximizing agility, and delivering the capabilities needed to address evolving digital identity challenges.

Complete Identity Lifecycle Management
Enables identity enrollment, matching, updates, and revocation with full administrative oversight and reporting tools.

Multimodal Biometric Processing & Matching
Delivers fast, accurate fingerprint and face matching (1:1 and 1:N) with image optimization and duplicate record detection.

Secure Architecture & Data Protection
Secures transactions via ROS-encrypted channels with dynamic key authentication and full data encryption at rest and in transit.

Flexible Deployment & Seamless Integration
Deployable on-premises or in the cloud, with modular architecture and RESTful APIs for seamless integration into third-party platforms.

Standards Compliance & Interoperability
Compliant with ISO/IEC 19794-2/4/5 and ANSI INCITS 378/381 standards for seamless system integration and future-proof deployments.
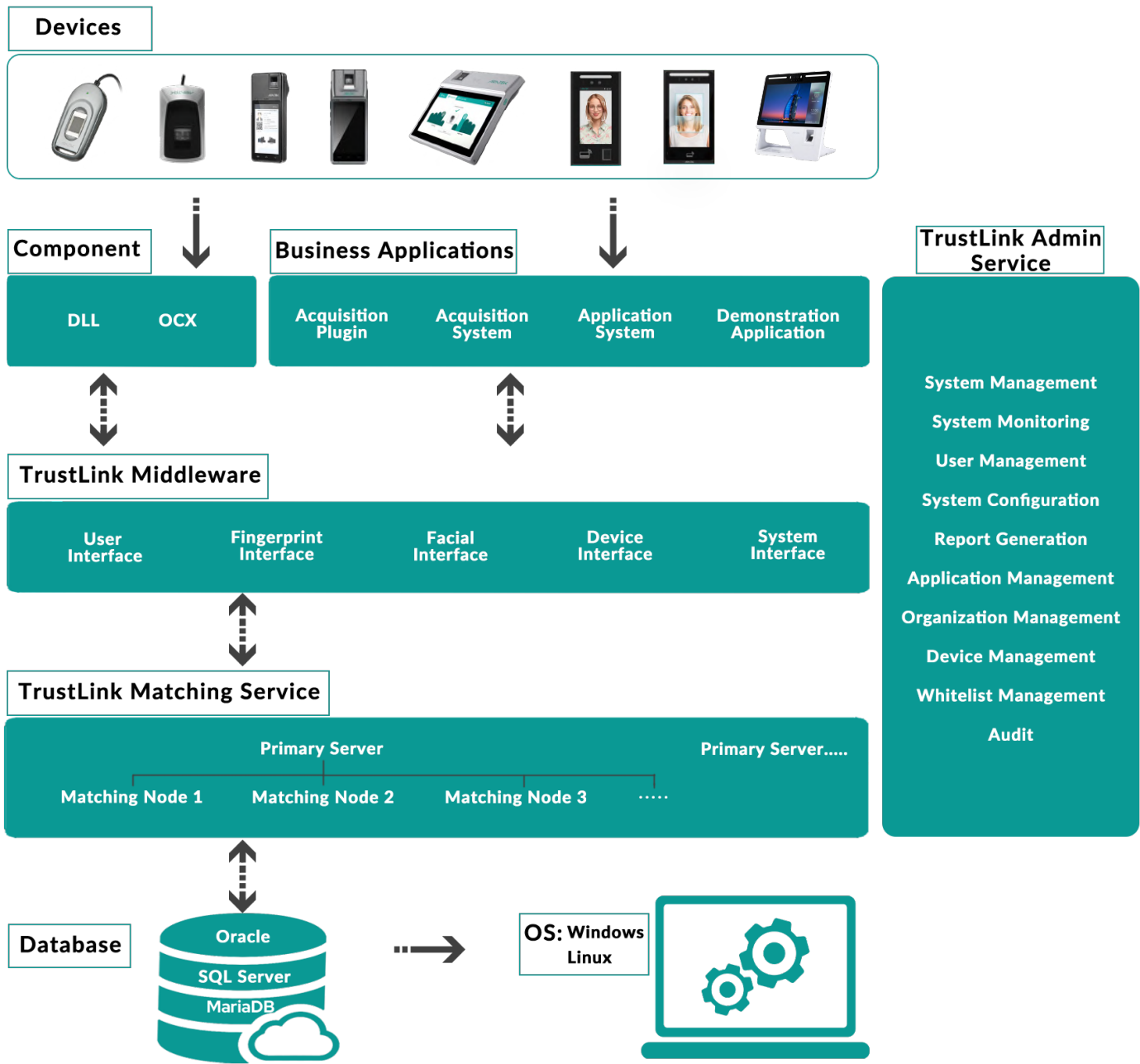
Industry-Tailored Customization
Customizable workflows, template formats, and UI branding for seamless use in government, finance, healthcare, and enterprise scenarios.

Aratek TrustLink™ Platform

System Architecture

Devices

Component

| DLL | OCX |

Business Applications

| Acquisition Plugin | Acquisition System | Application System | Demonstration Application |

TrustLink Admin Service

System Management

System Monitoring

User Management

System Configuration

Report Generation

Application Management

Organization Management

Device Management

Whitelist Management

Audit

TrustLink Middleware

| User Interface | Fingerprint Interface | Facial Interface | Device Interface | System Interface |

TrustLink Matching Service

Primary Server   Primary Server.....

| Matching Node 1 | Matching Node 2 | Matching Node 3 | ..... |

Database

Oracle

SQL Server

MariaDB

OS: Windows Linux

Applications

- Citizen Services & Benefits Management
- Digital Onboarding & eKYC
- Education Identity Management
- Workforce Identity & Attendance
- Telecom Subscriber Management
- Healthcare Identity Management

Aratek TrustLink™ Platform

Fingerprint Recognition

Maximum number of templates that can be supported	10 millions
Feature template size	≤2k
Image resolution requirement	500DPI (within 2% error)
1 to 1 concurrent performance	300tps
Recognition speed	≤0.728s

Face Recognition

Maximum number of templates that can be supported	10 millions
Feature template size	≤4kb
Image resolution requirement	>102*126
1 to 1 concurrent performance	300tps
Recognition speed	≤1s

System Recommended Requirements

	Total user count (assumed 4 fingers, 1 face per user)			
	< 50,000	50,000-100,000	100,000-200,000	>200,000
CPU	>= 8 Cores	>= 16 Cores	>= 24 Cores	Please contact us for more information
Memory	>= 16 GB	>= 32 GB	>= 64 GB	
Hard Disk	>= 250 GB	>= 500 GB	>= 1,000 GB	

OS & Software Requirements

	Supported and Recommended
OS	Win7, Win10, Windows Server 2008/2012, Linux (CentOS 7)
Database	Oracle 11g, MariaDB, SQL Server 2005/2008

ARATEK

www.aratek.co