

## **Armatura One Security Platform**

**Web-Based Versatile Security Platform** 













ARMATURA

### All-in-One Web-Based Integrated Security Platform

Armatura One is the ultimate "All-in-One" web-based security platform developed by Armatura. It contains multiple integrated modules: Personnel, Access Control, Time & Attendance, Elevator, Visitor, Parking Management, Video Management System, Office, Fire Alarm, Entrance Control, FaceKiosk, Temperature Detection, Defence, Data Monitor, Building Automation and Intrusion.



### Overview

Armatura One is a web-based security platform developed & based on the ideas of being Openly Integrated, Highly Secure and User-friendly. Providing a comprehensive security solution including access control, elevator control, visitor management, parking management, time & attendance, building automation and intrusion alarm with the most advanced levels of security. To ease users' cyber security and privacy concerns, all the data within the system is encrypted with Advanced Encryption Standard (AES) and Transport Layer Security (TLS) cryptographic protocols and the whole system is certified with ISO27001, ISO27701 and ISO27017. In addition, it has a Restful API and SDK to integrate with almost all 3rd party systems. Moreover, with the help of the Armatura protocol gateway; Armatura One supports up to 260+ industrial-grade communication protocols including BACnet, OPC, and Modbus to flexibly integrate with 3rd party industrial-grade sensors and controllers with custom conditions and rules. At the same time, Armatura One supports various authentication credentials in line with advanced biometric technologies, mobile credentials, encrypted dynamic QR codes, and multi-tech RFID technologies to best suit all customer's needs.



### **Features**



### **High Security**

Armatura One is designed for high-security applications. All communications are encrypted with Advanced Encryption Standard and Transport Layer Security (TLS) cryptographic protocols.



### 3rd Party Integration

Supports multiple forms of integration based on the Armatura One Restful Web API, Microsoft Active Dictatory, Microsoft Excel and CSV auto import.



### **Building Automation**

With the help of the Armatura Protocol Gateway, it supports up to 268+ industrial-grade protocols including BACnet, OPC, Modbus, etc., which makes Armatura One easily integrable with Building Management Systems (BMS) or Property Management Systems (PMS).



### Versatile Security Solutions

Armatura One is equipped with multiple application modules including access control and is fully integrated with different industry leaders' solutions to provide a well-rounded security solution. Integrating with BOSCH, Risco and Honeywell intrusion alarm systems; Schindler, Mitsubishi, Kone, Hitachi Elevator DCS & DOP systems; Milestone video management systems, Assa Abloy Aperio wireless lock systems and more for you to discover.



### Advanced Multi-functional Linkages

Supports over 200 linkage conditions which cover most access control application scenarios. In addition, it supports high-level linkages with 3rd party industrial-grade devices via industrial-grade communication protocols. Users can flexibly set linkage conditions or attributes upon different device applications such as air quality sensors, air-conditioners, water leakage sensors & more.



### SMS Notification System

Instead of providing just system prompts like other solutions, Armatura One pushes the limit further. Allowing administrators to have a faster and more direct way to receive notifications. Armatura One now supports various instant messenger applications including, WhatsApp, Line, Amazon SNS and SMS.



### Powerful Digital Map

Seamlessly integrates with various powerful mapping tools including Google Maps, GIS Maps and SuperMap to best suit different clients' needs. From simple 2D floor plans to 3D multi-story building models or multi-location site management.



### Scalable

Innovative MQTT based communication protocol, MQTT is a lightweight communication protocol generally used by IoT devices. Its features make it an optimal solution for intelligent security systems which enable Armatura One to communicate with over 10,000 edge devices (controllers, door unit, readers, sensors, etc.) and manage over one million users under a simple network environment.



### Advanced Access Control Functions

Supports advanced access control functions such as anti-passback, multi-level authentication, cross panel linkage (global linkage), elevator access control, visitor management, etc. Armatura One offers higher flexibility to the user supporting up to 256-bit card lengths that almost cover all needs and supports up to 15-time segments in a single time zone to offer flexible scheduling.



### Various Credential Options

Supports various credential options including RFID (200+ card types & multi-tech RFID technology), mobile credentials (NFC & Bluetooth & dynamic QR code) and biometric technology (touchless palm recognition and touchless face recognition).



### Distributed Architecture (Coming Soon)

In a multi-server system, the system database server, application server, and Redis server are separated yet synchronized to enable multiple servers to work simultaneously to offload the workload from massive data processing in big projects. This eases the risk of facing server failures.







# Supported Products: AHSC-1000 AHDU Series AHEB EP Series Omni Standalone Terminal Series (Mobile credential cloud platform)

		Operating System	
	Server-Side	Microsoft Windows Server 2012(64-bit) Microsoft Windows Server 2016(64-bit) Microsoft Windows Server 2019(64-bit) Microsoft Windows 10 20H2 or later(64-bit) Microsoft Windows 11(64-bit) * Mac Boot Camp is not supported	
SME	Suggested Browser for Client-Side	Chrome 33 or later, Safari 6.1.3 or later MS Edge 88 or later Firefox 64.0 or later	
VA <sup>*</sup>	Database	PostgreSQL ver.9.6 (built-in), MS SQL 2005/2008/2012/2019 (Supported), Oracle 11g/12c (Supported)	
VIII-	Maximum Supported Clients (Simultaneously)	5,000	
	Maximum Supported Personnel	1,000,000	
	Maximum RFID Cards	1,000,000	
	Maximum Passwords	1,000,000	
	Maximum Fingerprints	1,000,000	
M	Maximum Faces	10,000	
(Line	Maximum Access Controlled Doors	10,000	
	Maximum Access Control Levels	Unlimited (Upon server and network performance)	
	Maximum Attendance Points	10,000 TURA	
	Maximum Visitors (Monthly)	1,000,000	
	Maximum Surveillance Cameras	5,000	
M	Maximum Intelligent Video Servers	50	
11 11	Maximum Controlled Outputs	Unlimited (Upon server and network performance)	
	Maximum Inputs	Unlimited (Upon server and network performance)	



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	3rd-Party Integration	
Notification / Messages	Line / WhatsApp / Amazon SNS / SMS	
Digital Map	Google Map / SuperMap/ GIS Map	
Microsoft Active Directory	No Version restriction	
Intrusion Alarm Integration	Bosch, RISCO, Honeywell (coming soon)	
Elevator DCS	Kone, Mitsubishi, Schindler, Otis, Hitachi	
Building Automation	BACnet, OPC, MQTT	
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Video Management System	Milestone, Arteco, Digifort, C2P	
Smart Lock System	Aperio Wireless Lock System	
OCR System	Desko, ZKTeco	
High Availability System	Rose Data	
Card Printer	HID Fargo, IDP	
	Restful API Supports:	
	Person Interface of Attendance Area RESTful API	
	Person Interface RESTful API	
	Person Biometric Template Interface RESTful API	
	Card Interface RESTful API	
	Department Interface RESTful API	
	Department Interface RESTful API Area Interface RESTful API Reader Interface RESTful API	
	Reader Interface RESTful API	
	Media Interface RESTful API	
	Door Interface RESTful API	
	Floor Interface RESTful API	
VKlati	Access Control Interface RESTful API	
API	Access Control Device Interface RESTful API	
	Access Level RESTful API	
	Access Control Transaction Interface RESTful API Attendance Transaction Interface RESTful API Attendance Device Interface RESTful API	
	Attendance Transaction Interface RESTful API	
	Attendance Device Interface RESTful API	
	Elevator Control Level Interface RESTful API	
	Elevator Device Interface RESTful API	
	Elevator Transaction Interface RESTful API	
	Vehicle Management Authorization Interface RESTful API	
	Vehicle Management Transaction Interface RESTful API	
	Visitor Reservation Interface RESTful API	
	Visitor Level Interface RESTful API	
	Visitor Registration Check Out Interface RESTful API	
Database Mapping	Supports	

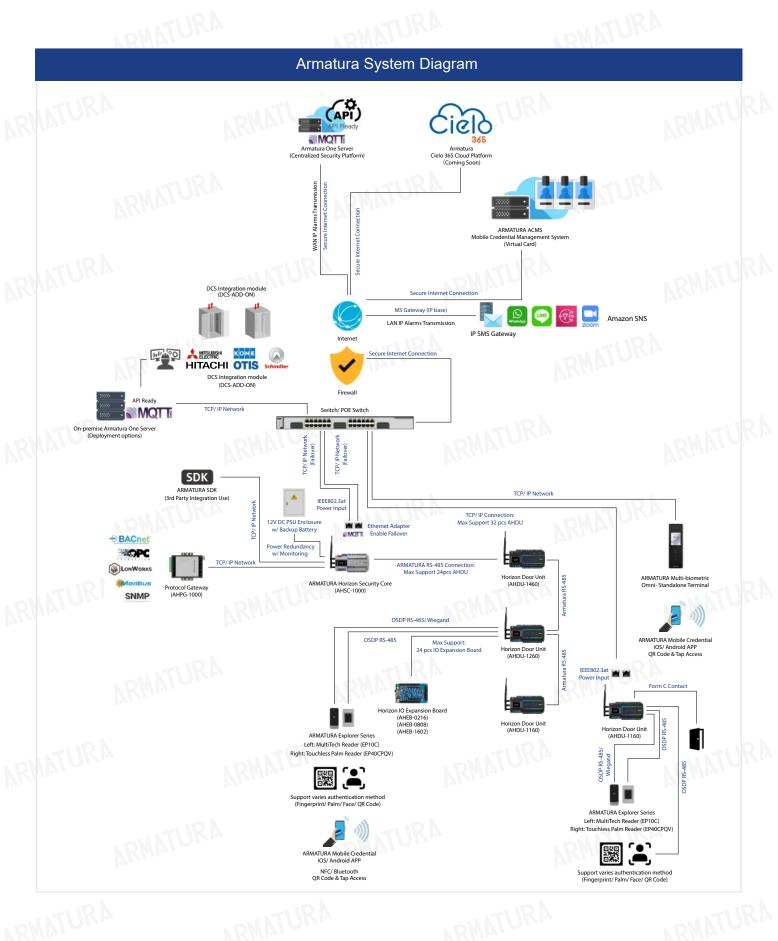


# Data Protection ISO 27701 Certified, ISO27017 Certified, ISO27001 Certified, GDPR Complaint, Communication protected by HTTPS, RSA (cryptosystem), SSL (Secure Sockets Layer), TLS (Transport Layer Security), AES (Advanced Encryption Standard), OTP (One-time Password), TOTP (Time-based One Time Password), 2FA (2-factor Authentication), HAMC (Hash-based Message Authentication), HOTP and SHA (Secure Hash Algorithm).

	Minimum Server Hardware Requirements							
A	Application Scenarios	Lite Project	Professional Project	Enterprise Project				
8	Server Quantity	Single Server	Single Server	Multi- Server				
L	Jsage	Within 200 Terminals	Within 1,000 Terminals	Within 2,000 Terminals				
F	Recommended Database	PostgreSQL (built-in)     MS SQL or Oracle (provided by clients)     Recommended to use MS SQL or Oracle database on multi-server application						
S	Server OS	Windows 10 /11 Windows Server 2016 / 2019						
S	Screen Resolution	1920*1080 color display (recommended minimum screen size: .22")						
E	Ethernet	NIC (Network Interface Card) 1000Mbps or Gigabit Ethernet or higher spec						
F	RAM	8GB DDR4	32GB DDR4	32GB DDR4				
C	CPU	Intel(R) Core(TM) i5 11th Gen series or above 6 Core processor with speed of 2.7GHz or above	Intel(R) Core(TM) i7 11th Gen series or above 8 Core processor with speed of 2.5 GHz or above	Intel(R) Core(TM) i7 11th Gen series or above 8 Core processor with speed of 2.5 GHz or above				
F	ROM	500GB free space or larger (recommend using solid-state drive)32GB DDR4						
C	Graphics Card (Optional)	Intel IrisX Graphics (Integrated) or Discrete Graphics Card Recommend: Nvidia GeForce RTX 3050 8GB memory						

This minimum server hardware requirements guideline is for general applications only.

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