# AGENDA

- **INTEGRATED ACCESS CONTROL SOLUTION FOR ENHANCED CAMPUS SECURITY**

- **ARMATURA'S IDENTIFICATION TECHNOLOGY**

- **INTELLIGENT BUILDING INTEGRATION FOR CAMPUS**

- **SEAMLESS THIRD-PARTY INTEGRATIONS**

**ARMATURA**

# ABOUT US

## Our Mission

Our Mission: Creating a Secure, Connected Future with Biometric Solutions

At Armatura, our mission is to create a secure, connected future by developing and delivering innovative biometric solutions that seamlessly bridge the gap between the physical and digital worlds. Our advanced identity recognition and access management systems empower individuals and organizations to embrace the benefits of digital transformation with confidence, enhancing security while streamlining daily interactions and transactions.

**ARMATURA**

# ABOUT US

## Who Are We

Armatura is a leading provider of advanced biometric solutions that bridge the gap between the physical and digital worlds. We are dedicated to delivering innovative, secure, and accurate identity recognition and access management systems to our clients worldwide. Our diverse clientele includes systems integrators, security providers, government agencies, and multinational corporations.

Our team consists of talented professionals with deep expertise in the fields of biometrics, artificial intelligence, deep learning, and computer vision. We are driven by a passion for innovation, a commitment to excellence, and a belief in the transformative power of technology to improve lives.

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info@armatura.co.za |
www.armature.us

# MARKET POSITION & BUSINESS MODEL

| | |
|---|---|
| Banking Industry | Government Projects |
| Universities & TVET | Production Factories |
| Insurance Companies | Colleges & Schools |
| Multi-Site Project | High Security Specifications |

**ARMATURA**

# WHY USE ARMATURA

- Highly secured security platform

- One security platform that offer multiple modules, no need to run multiple software's.

- Openly Integrated – SDK and API integration.

- User friendly and customizable user interface.

- Commitment to Standards and Compliance - GDPR, CCPA, and ISO standards

- Once-off access control license fees

- Free software updates

- Armatura's products support multi-RFID frequency and 100+ RFID card types

- System Architecture - Armatura Access Control System is built on a modular architecture, which allows for scalability and flexibility

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# INTEGRATED ACCESS CONTROL

# Access Control Controllers

Centralization operation enables easy management of all access points at a single location. Armatura offers complete range of access control panels for connecting and driving on-site additional devices for operations based on event-driven rules set up in the management software.

## AHSC Series

IP-Based Core Controller

**AHSC-1000**

- Main controller and integration hubs
- PoE (IEEE802.3at)
- Scalable, Supports up to 32pcs AHDU-1460 and 258 readers
- Onboard Webserver
- Threat Levels and Port Failover

## AHDU Series

IP-Based Biometric Door Unit Controller

**AHDU-1160**      **AHDU-1260**      **AHDU-1460**

- Single Door Unit (supports 1 door and 2 readers) (AHDU-1160)
- Two Door Unit (supports 2 door and 4 readers) (AHDU-1260)
- Four Door Unit (supports 4 door and 8 readers) (AHDU-1460)
- PoE (IEEE802.3at)
- Scalable, Supports up to 24pcs AHEB expansion boards
- Advanced Access Control Functions
- 4-States Supervised and Programmable Inputs (Active, In-Active, Open, Short)

## AHEB Series

IO Expansion Board

**AHEB-0808**      **AHEB-1602**

8 Inputs and 8 Outputs (AHEB-0808)
● 16 Inputs and 2 Outputs (AHEB-1602)
● Scalable
● 4-States Supervised and Programmable Inputs (Active, In-Active, Open, Short)

# Access Control Readers

Armatura provides a wide variety of external readers with IP68 waterproof and dustproof levels, IK10 impact resistance and fire resistance levels for an unparalleled standard of security and robustness of security applications.

## EP10 Series

**All Weather Outdoor Multi-tech Smart Reader**

### EP10C

- K10 & IP68 Protection Level
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC)
- Mullion Mount Design
- Supports Asian / European / Single-gang box back-box spacing

## EP20 Series

**All Weather Outdoor Multi-tech Smart Reader**

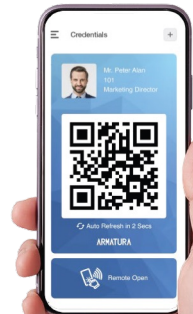### EP20C   EP20CK   EP20CQ   EP20CKQ

- Up to IK10 & IP68 Protection Level
- Physical keypad
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC & QR code)
- Supports Asian / European / Single-gang box

## VG10CKQ

**All Weather Outdoor Multi-tech Smart Reader**

- Up to IK07 & IP66 Protection Level
- Physical keypad
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC & QR code)
- Interactive Experiences with LED Programmability

# Biometric Access Control Readers

**Bluetooth** | **NFC** | **OSDP**

IP66 | Face | Palm | QR CODE

Armatura offers a diverse range of external biometric readers that incorporate facial and palm recognition technology. These readers are designed to meet IP66 waterproof and dustproof standards, ensuring exceptional security and durability for various security applications.

## EP30CF

All Weather Outdoor Multi-tech Fingerprint Reader

- Up to IP65 Protection Level
- Advanced Fingerprint Scanning Technology
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC)

## FT10CMKQ

Contactless Biometric Standalone Terminal

- Up to IP66 Protection Level
- Multimodal biometric technology, touchless palm and face recognition
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC & QR code)
- Supports video intercom function (SIP V2.0)
- Supports Asian / European / Single-gang box

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# Biometric Access Control Standalone Terminals
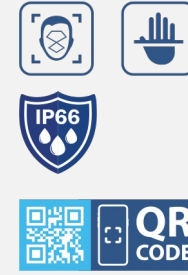
Armatura offer complete systems that enable both access control and time & attendance management. With various access control solutions with face recognition, palm recognition, mobile credential and RFID identification for entrance, exit and all kinds of access points.

## OmniAC20

### Contactless Biometric Standalone Terminal

- Multi-Biometric technology combining palm and face recognition
- IP66 water & dustproof protection rating
- Slim design & form factor for a modern aesthetic design
- Supports 125 kHz and 13.56 MHz frequency RFID
- Supports Dynamic QR Code
- Mobile Credentials Remote Mode & Card Mode) (Coming Soon)
- Video Intercom (SIP V2.0)

## OmniAC20

### Contactless Biometric Standalone Terminal

- Multi-Biometric technology combining palm and face recognition
- IP66 water & dustproof protection rating
- Supports 125 kHz and 13.56 MHz frequency RFID
- Supports PoE (IEEE802.3at/af)
- Supports Dynamic QR Code
- Mobile Credentials Remote Mode & Card Mode) (Coming Soon)
- Video Intercom (SIP V2.0)

# ARMATUR ONE

# Software

## ARMATURA ONE

Web-Based Versatile Security Platform

AES 256 ENCRYPTION · TLS 100% SECURE CERTIFIED · ASHRAE BACnet™ · OPC · Modbus

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.

| Personnel | Access | Attendance | Elevator | Visitor | Parking | Video | Office |
|---|---|---|---|---|---|---|---|

| Fire Alarm | Entrance Control | Kiosk | Defence | Data Monitor | Building Automation | Intrusion |
|---|---|---|---|---|---|---|
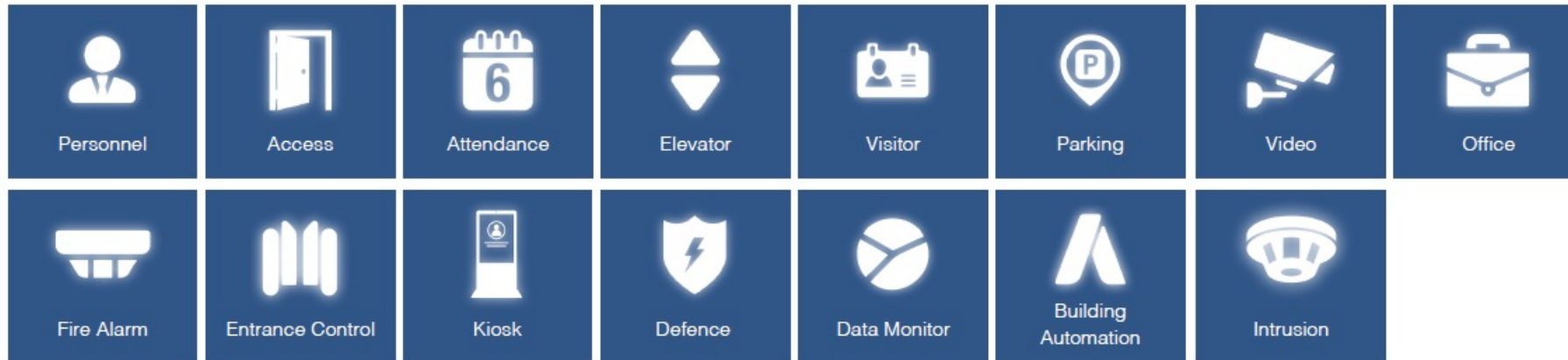
# INTELLIGENT BUILDING MANAGEMENT

ARMATURA

# VERSATILE INTEGRATION

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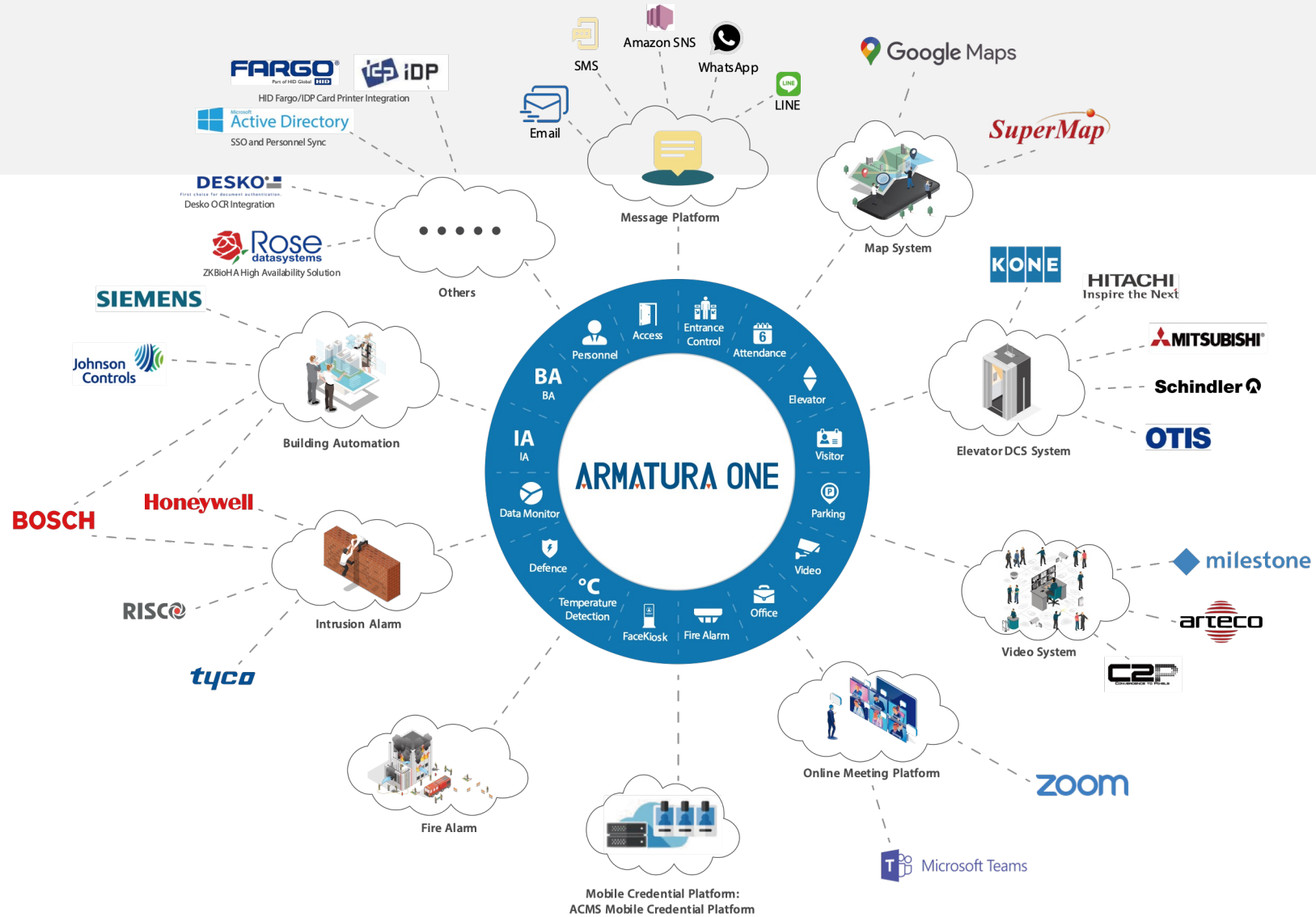
# INTEGRATED VIDEO SURVEILLANCE

## What Armatura Video Surveillance Solution is

The Video Module in the Armatura One platform is a powerful and comprehensive solution for video surveillance and management within various facilities. It offers a wide range of features, including Video Management System (VMS) integration, high-capacity camera support with H.265 compression, PTZ operation support, ONVIF support, and video patrol.

In addition, Armatura One supports video linkage with access control, elevator, intrusion, and visitor modules. When abnormal activity events occur, notifications will be triggered. Furthermore, Armatura One facilitates LPR system integration, allowing gates to open once the license plate number is matched.



ARMATURA ONE

# INTEGRATED VIDEO SURVEILLANCE

**Seamless Integration with Third-Party Cameras and NVRs through ONVIF Standard**

Armatura One is compatible with the ONVIF open industry standard interface, allowing seamless integration with a wide range of third-party cameras and NVRs. This compatibility expands the capabilities of the system and enhances its interoperability.

Seamlessly Incorporate Video Surveillance Modules with Support for RTSP/RTMP, Bosch, Pelco, Axis, Hanwah, and More In addition, we provide support for various protocols, including RTSP/ RTMP, and SDKs from major brands such as Bosch, Pelco, Axis, Hanwah. This makes it effortless for organizations to seamlessly integrate the video surveillance module into their existing systems.
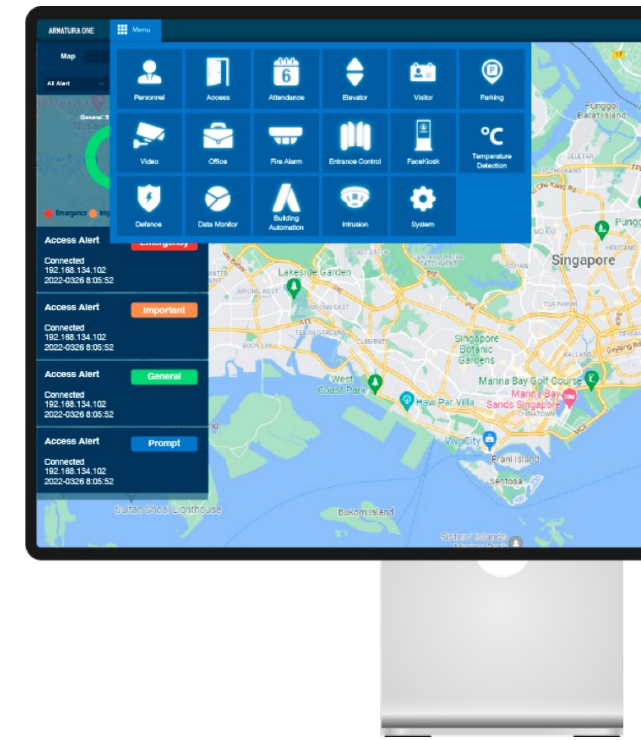
# INTEGRATED VIDEO SURVEILLANCE

**Video Management System Integration**

The VMS of the Video Module is fully integrated with Armatura One and compatible with third-party video surveillance systems such as Digifort, Hanwaht and Arteco. It offers support for intelligent video functions, including object detection, area detection, and line crossing alerts, which can be seamlessly applied to access control systems.

# INTEGRATED VIDEO SURVEILLANCE

**Enhancing Surveillance with Real-Time Camera Views and Efficient Patrol Management**

Video Patrol provides real-time camera views for surveillance patrol. Administrators can create patrol groups for specific staff, patrol timeslots, devices, and plans. Patrol staff can log in to the system, preview their patrol via real-time video surveillance, and report abnormal events for manual alarm and patrol. The system generates automatic patrol reports for management review.
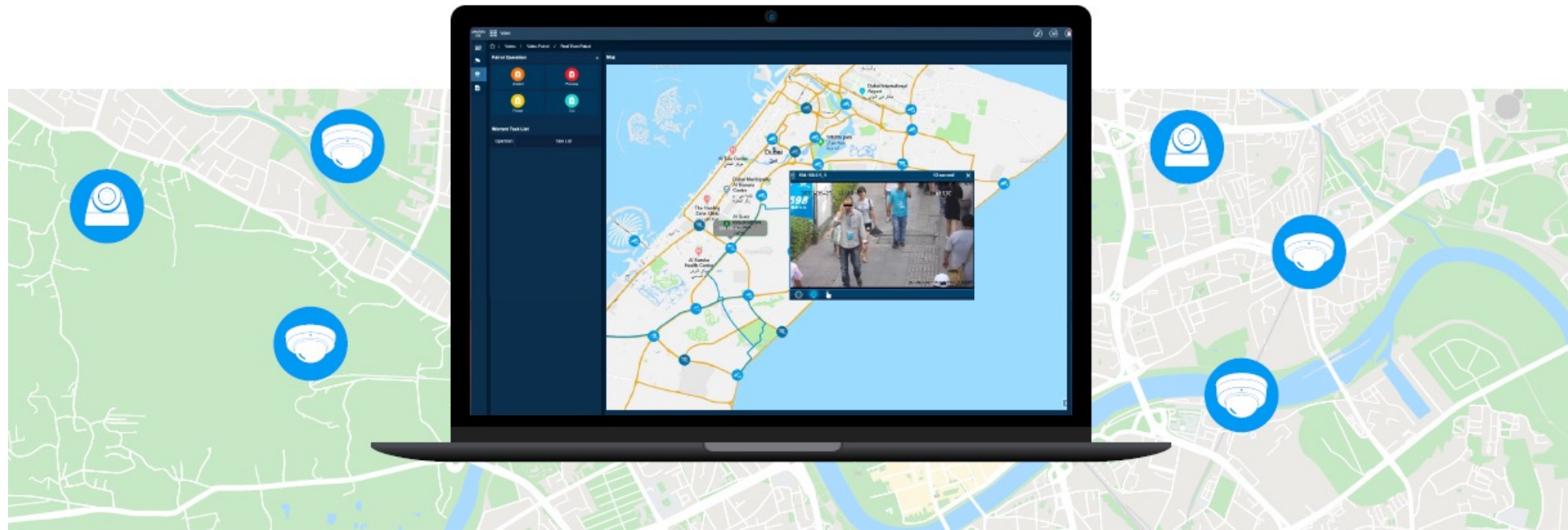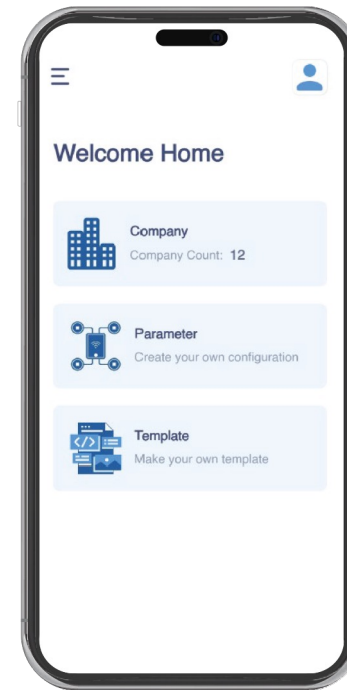
# ARMATURA'S IDENTIFICATION TECHNOLOGY

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# Mobile Application

## ARMATURA Connect

Smartphone-Based Parameter Configuration Solutions

**AES 256** ENCRYPTION | **TLS** CERTIFIED | **Bluetooth**

**NFC** | **OSDP**

Smartphone-Based Parameter Configuration Solutions empower administrators and installers to utilize their smartphones for convenient, on-the-spot adjustments. When in close proximity to access control terminals or controllers, these smart devices connect via Bluetooth, facilitating real-time parameter changes, settings customization, and firmware upgrades. This wireless access streamlines maintenance and ensures systems remain up-to-date with the latest features and security enhancements.

### Company
A section for viewing the authorized account, company, or unit for management.

### Parameter
Enhance convenience for technical staff by allowing them to modify parameters, access controls, and product security settings.

### Template
Allow technical staff to quickly fill in the product settings. They can simply enter the suggested value for each parameter and click a button to automatically populate the parameter in the new products.

**Welcome Home**

**Company**
Company Count: 12

**Parameter**
Create your own configuration

**Template**
Make your own template

# Mobile Application

## ARMATURA ID

Armatura Mobile Credential App

**AES 256** ENCRYPTION | **TLS** CERTIFIED | **Bluetooth**

**NFC** | **OSDP**

Armatura offers three innovative access modes for enhanced convenience and security. The Remote Mode (BLE) allows users to unlock Armatura devices remotely through the mobile app. Card Mode turns mobile phones into access credentials, while QR Code Mode enables access by scanning QR codes. Armatura's access modes provide flexible and efficient solutions for various access control needs.

Credentials — Mr. Peter Ala... 101 Marketing Di... — Auto Refresh in 2 S... — ARMATURA — Remote Ope...

### Remote Mode (BLE)

Remote mode offers users the experience of remotely unlocking any Armatura access control device by tapping the button in the Armatura ID mobile app for long distance access in mobile (Android/ iOS) device, it satisfies the needs of long-distance operation.
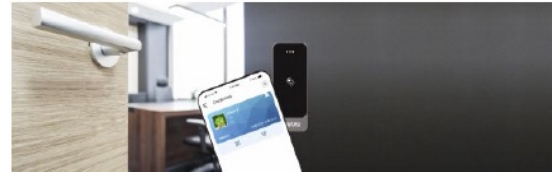
### Card Mode (BLE/NFC)

Card mode utilizes mobile phones to function as a user's credential to enter offices or other business facilities. In card mode, simply present your smartphone (Andriod/ iOS) to the reader to gain access.

### Card Mode (BLE/NFC)

The Armatura ID mobile app (Andriod/ iOS) provides QR Code credentials as an option to open doors with Armatura readers. With QR codes replacing conventional physical keys, visitors are enabled to access designated area by scanning their QR codes.

## ARMATURA

# Biometric Modules

Armatura biometric modules are designed to provide developers and manufacturers with refined biometric security solutions to integrate with various applications such as access control systems, time & attendance terminals, smart lock and entrance control, to assist them in the acquisition of the original biometric data of an individual.

**AMT-FAM-10**

Dual-lens Face Module

**AMT-FAR-10**

Dual-lens Face Reader

**AMT-FAPVS-30**

Dual-lens Multimodal Standalone Module for Face and Palm Recognition

**AMT-FAPVR-30**

Dual-lens Multimodal Standalone Reader for Face and Palm Recognition

**AMT-PVM-10**

Palm Vein Module

**AMT-PVR-10**

Palm Vein Reader

**AMT-PVS-50**

Standalone Palm Module

# SEAMLESS THIRD-PARTY INTEGRATIONS

## SOFTWARE DEVELOPMENT KIT SDK

Armatura offers software development kit (SDK) for developers and manufacturers to easily integrate with third-party software for flexible and scalable development.

### Armatura FaceLite SDK

- Face Focusing Method to Enhance Image Quality
- High-Performance and High-Accuracy Face Recognition
- Multi-dimensional Face Feature Template
- Liveness Detection
- Automatic Update on Template Library
- Algorithm Integrity

| Accuracy | TAR =98.6% when FAR = 0.001% |
|---|---|

### Armatura FacePro SDK

- High-Speed and High-Accuracy Face Recognition
- Multi-Person Tracking from Single Image
- Highly Adaptable to Face Postures
- Highly Accurate Liveness Detection

| Identification Accuracy | FRR < 0.8% when FAR = 0.001% |
|---|---|

# SEAMLESS THIRD-PARTY INTEGRATIONS

**SOFTWARE DEVELOPMENT KIT SDK**

Armatura offers software development kit (SDK) for developers and manufacturers to easily integrate with third-party software for flexible and scalable development.

**Armatura PalmMobile SDK**

- High-Speed Palm Recognition
- Highly Adaptable to Various Palm Postures
- Accurate and Robust Palm Recognition
- Highly Accurate Liveness Detection

| Accuracy | TAR =98.3% when FAR = 0.02% |
|---|---|

**Armatura PalmElite SDK**

- High Performance Palm Recognition
- High Tolerance to Palm Posture
- Accurate and Robust Palm Recognition
- High Security of Liveness Detection

| Identification Accuracy | FRR = 0.7% when FAR = 0.001% |
|---|---|
| Authentication Accuracy | FRR = 0.01% when FAR = 0.0000001% |

# DATA PROTECTION

# CERTIFIED OF DATA PROTECTION

Data and privacy protection are always one of the primary concerns of Armatura; all of Armatura's engineers and researchers have done their best to deliver Armatura's system with the highest level of data protection in the industry.

Armatura's systems, developed by experienced R&D teams, which reached the CMMI5 standard, are GDPR and CCPA compliant and are certified by ISO 27001, 27701, 27017 data protection measures.

All Armatura's communications are encrypted with the best measures by using different encryption methods such as AES128, AES256, TLS1.2, etc., and all vital information is stored in certified EAL6+ crypto chips, with access routes securely blocked.

# CERTIFIED OF DATA PROTECTION
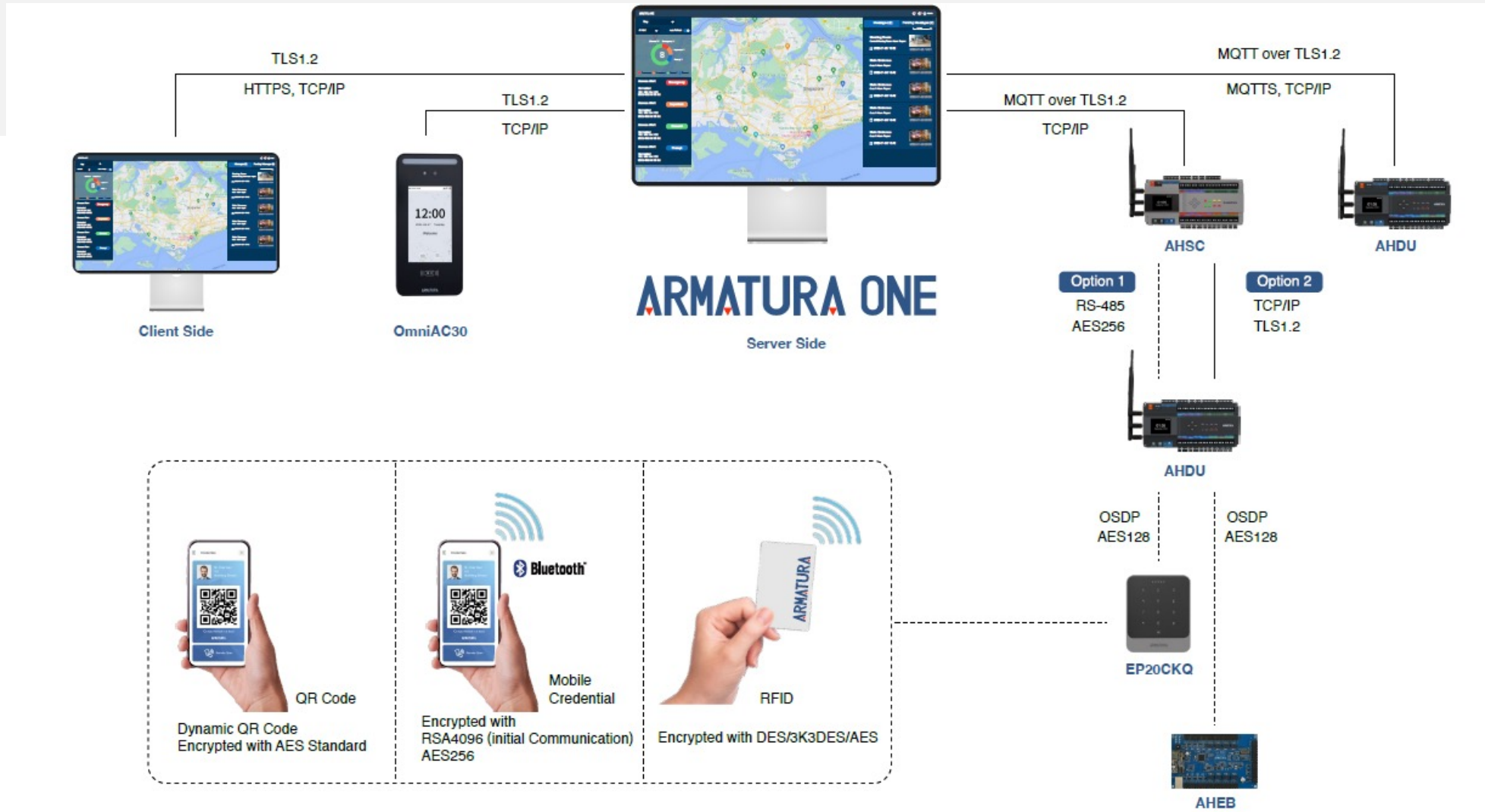
# Q & A

# THANK YOU

Wandile@armatura.co.za | 081 349 7826

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