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Armatura's Secure Video Intercom Solution

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Armatura's Secure Video Intercom Solution

Through the SIP protocol, modern access control systems can implement video intercom functionality, enabling seamless two-way audio and video communication between devices. The SIP standard facilitates direct calling between access control terminals, mobile apps, and other connected devices. This integration allows users to remotely grant or deny access while ensuring secure and efficient communication. Whether through cloud services, on-premises servers, or internal networks, the SIP protocol enhances flexibility in managing entry control, supporting a wide range of deployment options for both local and remote setups.

SIP PROTOCOL

ARMATURA ICS
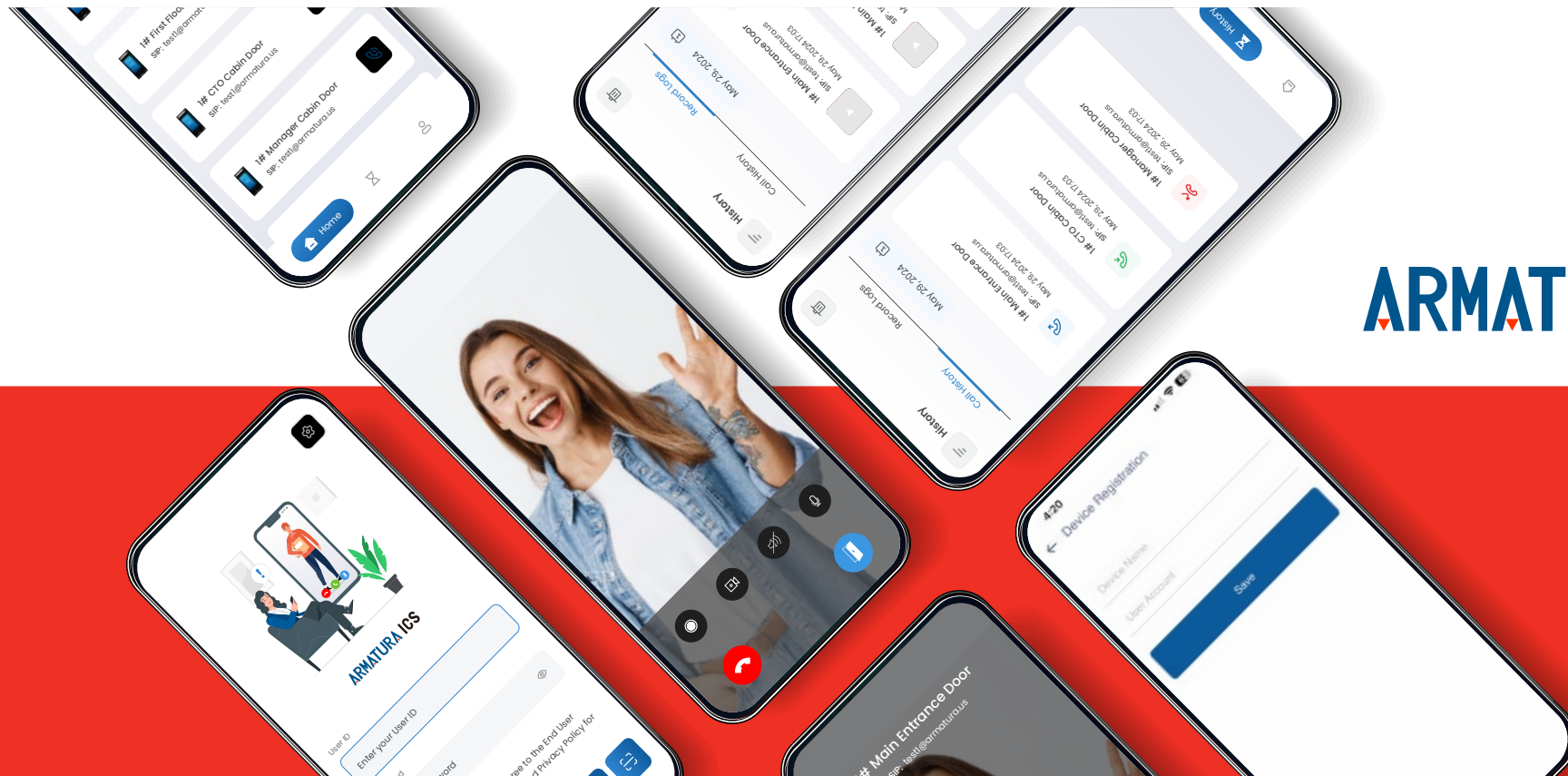
Standard SIP Protocol

SIP (Session Initiation Protocol) is a protocol designed for controlling multimedia communication sessions. Its combination of flexibility, scalability, and reliability makes SIP an ideal choice for modern communication needs. Key features of SIP include:

- Flexibility: Supports a wide range of communication modes, including voice, video, and other multimedia formats.

- Scalability: Designed to work with a variety of SIP-enabled devices and services, allowing seamless integration and expansion as needed.

- Reliability: Offers robust call management, routing, and user registration functionalities, ensuring stable and secure communication.
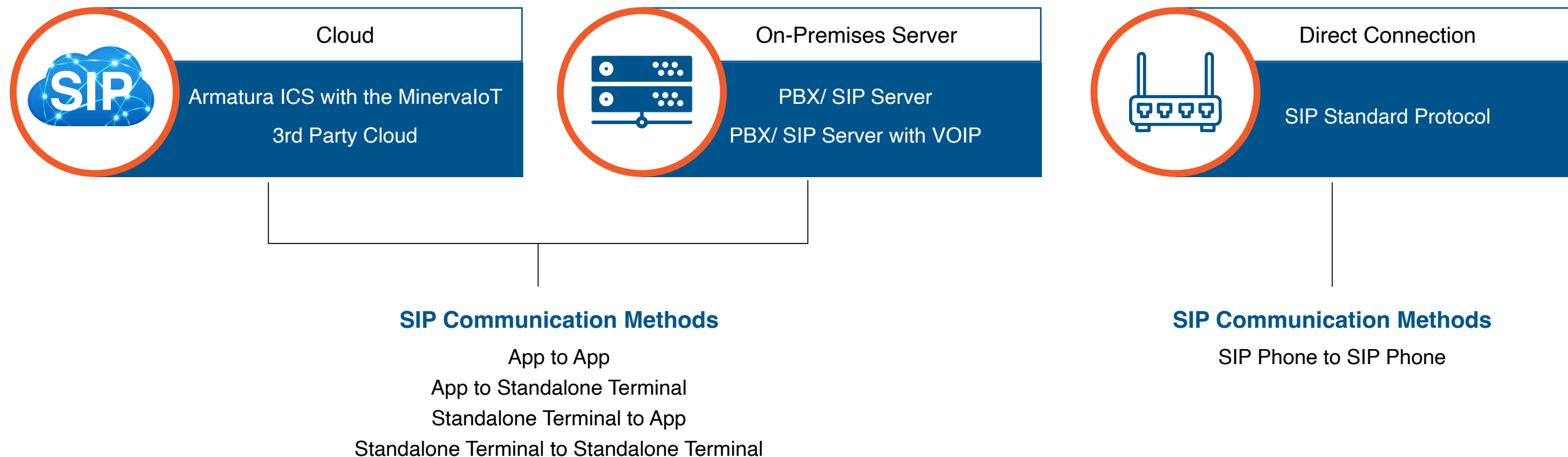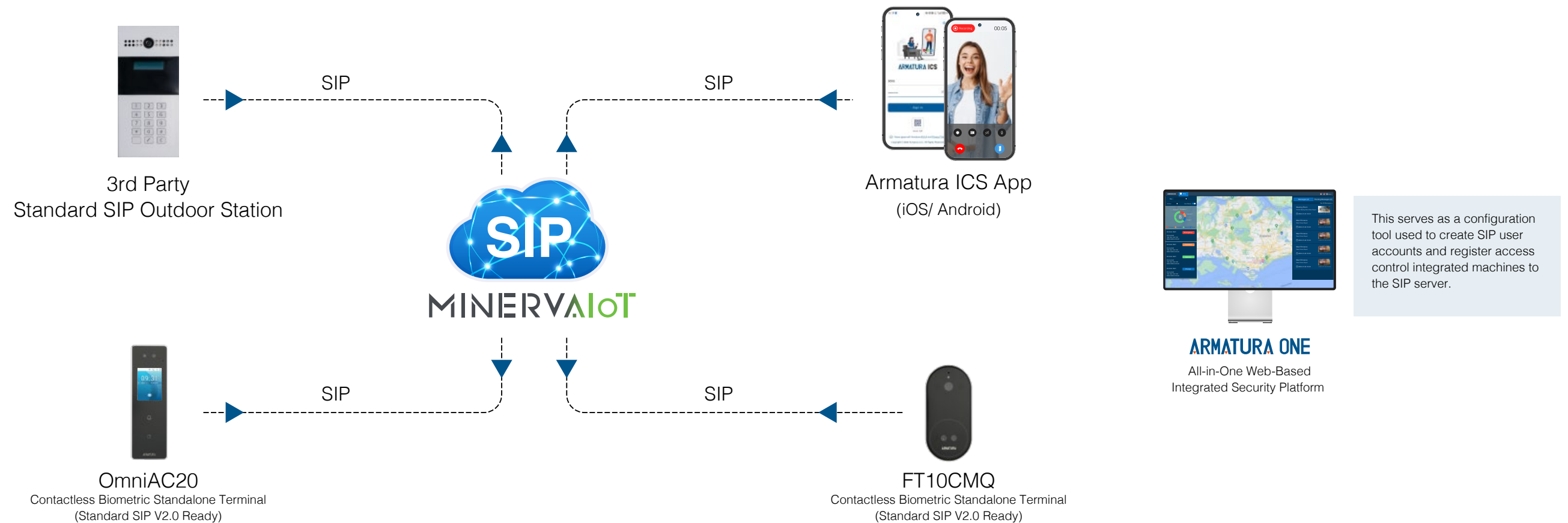
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Armatura's Intercom Solutions: Flexible Deployment and Communication Options

Armatura's video intercom solution provides flexible deployment options, including the MinervaIoT Cloud, third-party cloud services like AWS, on-premises servers with VoIP capabilities, and internal network setups. The MinervaIoT Cloud facilitates seamless SIP communication between video intercoms, access control terminals, and smartphones, enabling remote access control. Third-party cloud services offer similar functionality. On-premises servers with VoIP enable direct calling to mobile numbers and desk phones, expanding communication options. Internal networks support efficient communication between Terminal to App, App to Terminal, and Terminal to Terminal using the standard SIP protocol, allowing local operations without relying on external infrastructure. These deployment options enhance security and provide scalable, convenient solutions.

Cloud	On-Premises Server	Direct Connection
Armatura ICS with the MinervaIoT 3rd Party Cloud	PBX/ SIP Server PBX/ SIP Server with VOIP	SIP Standard Protocol

SIP Communication Methods

App to App
App to Standalone Terminal
Standalone Terminal to App
Standalone Terminal to Standalone Terminal

SIP Communication Methods
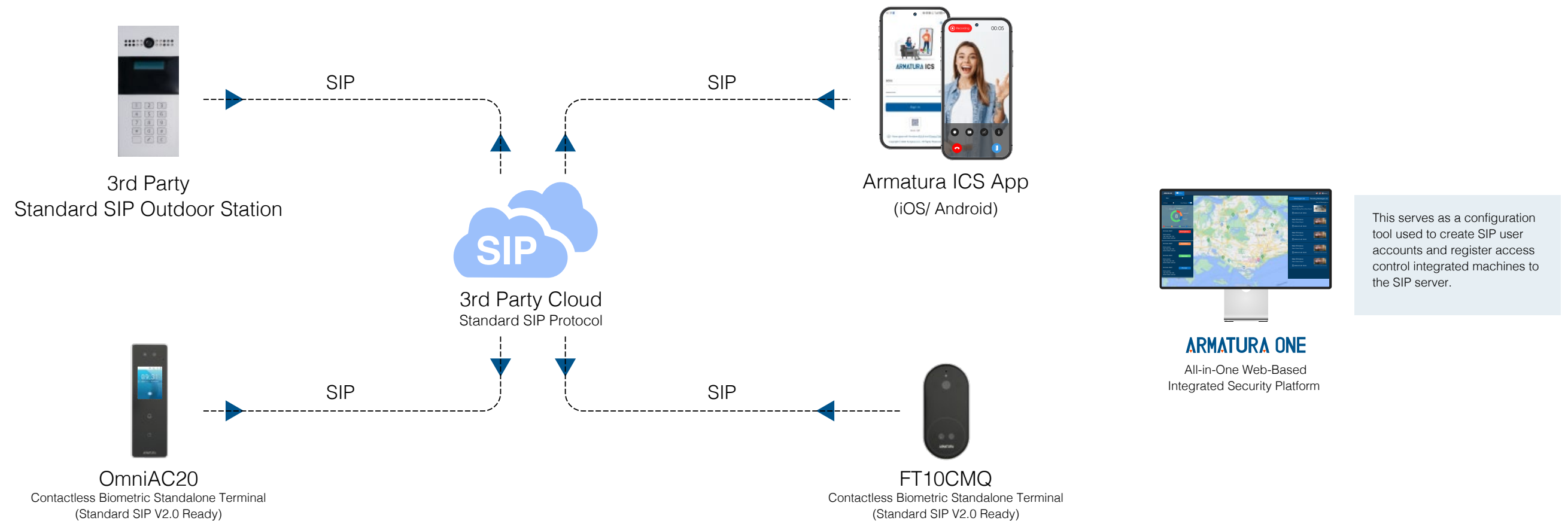
SIP Phone to SIP Phone

Armatura ICS with MinervaIoT Cloud

By integrating Armatura One with the Armatura ICS app or Access Control Terminal, users can easily manage two-way audio and video verification for entry control. Utilizing the SIP protocol, the system enables seamless communication between the Video Intercom, Access Control Terminal, and smartphones. The Armatura ICS app allows users to remotely accept or deny access, enhancing both security and user convenience. Additionally, cloud integration supports calls from the mobile app or standalone terminal to any party—such as standalone terminal to mobile app, mobile app to terminal, mobile app to mobile app, or terminal to terminal—providing flexible communication options.

SIP

SIP

3rd Party
Standard SIP Outdoor Station

Armatura ICS App
(iOS/ Android)

SIP

MINERVAIoT

SIP

SIP

OmniAC20
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

FT10CMQ
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

This serves as a configuration tool used to create SIP user accounts and register access control integrated machines to the SIP server.

ARMATURA ONE
All-in-One Web-Based
Integrated Security Platform

3rd Party Cloud SIP Services

The Armatura video intercom solution also supports third-party cloud services, such as AWS. Similar to the Armatura MinervaIoT Cloud service, it enables seamless communication using the SIP protocol between the Video Intercom, Access Control Terminal, and smartphones. The Armatura ICS app facilitates remote acceptance or denial of access, enhancing both security and user convenience. Additionally, cloud integration allows calls from the mobile app or standalone terminal to any party, such as standalone terminal to mobile app, mobile app to terminal, mobile app to mobile app, or terminal to terminal, offering flexible communication options.

3rd Party
Standard SIP Outdoor Station

SIP

SIP

Armatura ICS App
(iOS/ Android)

SIP

3rd Party Cloud
Standard SIP Protocol

OmniAC20
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

SIP

SIP

FT10CMQ
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

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All-in-One Web-Based
Integrated Security Platform

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Advantages of Using Cloud SIP Trunking

- **Geographic Reach and Limitations:**

  Cloud SIP providers typically offer extensive coverage, often on a global scale, enabling seamless communication across multiple locations and countries. This is essential for supporting international business operations and remote work.
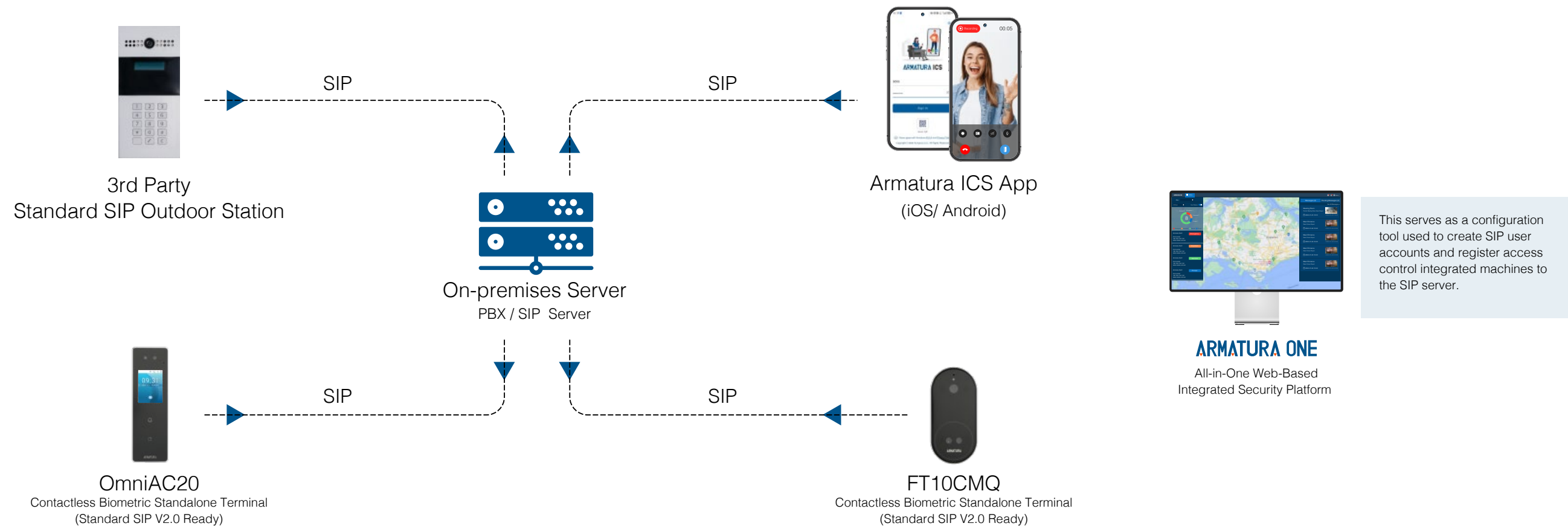
- **Cost Savings:**

  Cloud SIP trunking helps businesses reduce costs by eliminating the need for in-house maintenance and minimizing carrier fees.
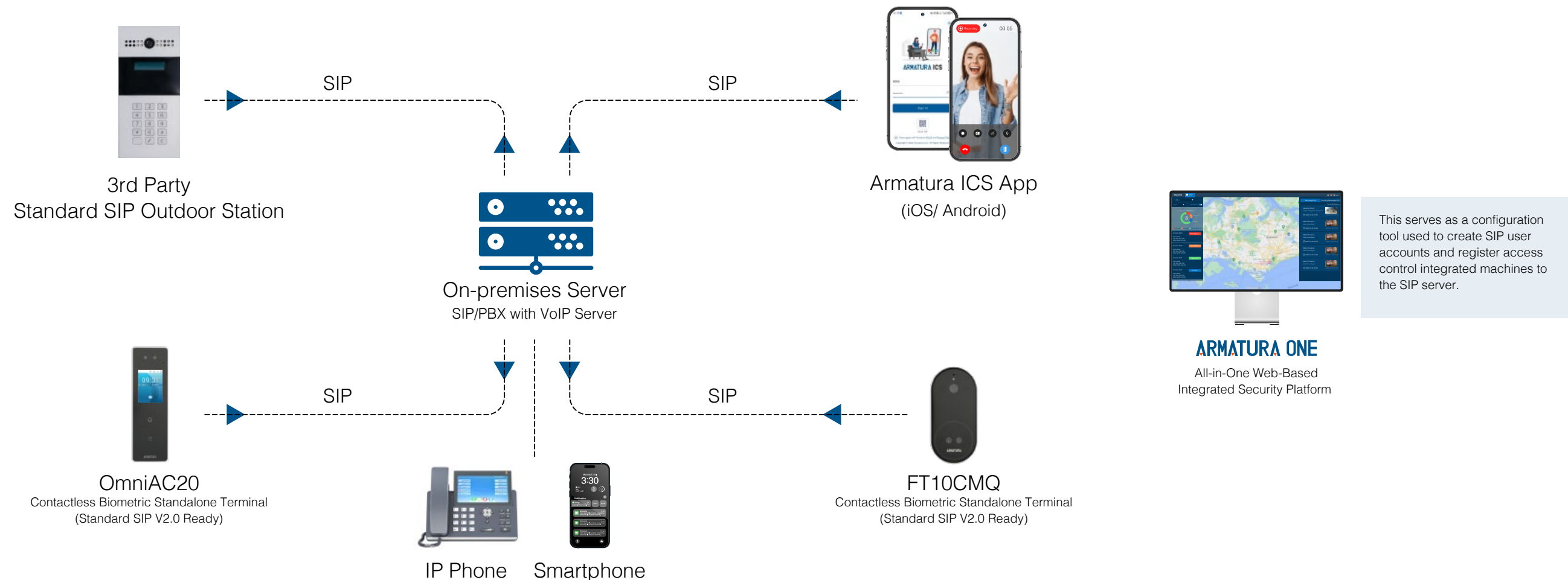
On-Premises Servers: PBX/ SIP Servers

Armatura ICS also supports integration with PBX/SIP Servers to enable video intercom functionality. By utilizing a local PBX or SIP Server with standard SIP capabilities, the system facilitates seamless communication between the mobile app and standalone terminal, allowing calls in any direction (e.g., standalone terminal to mobile app, mobile app to terminal, mobile app to mobile app, or terminal to terminal). This setup supports remote access control, enabling users to accept or deny entry from anywhere, enhancing both security and convenience.

3rd Party
Standard SIP Outdoor Station

SIP

SIP

Armatura ICS App
(iOS/ Android)

On-premises Server
PBX / SIP Server

SIP

SIP

OmniAC20
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

FT10CMQ
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

This serves as a configuration tool used to create SIP user accounts and register access control integrated machines to the SIP server.

ARMATURA ONE
All-in-One Web-Based
Integrated Security Platform

On-Premises Servers: PBX/ SIP Servers with VOIP

Some PBX systems, equipped with VOIP functionality, also allow direct calling to mobile numbers or desk phones (IP phones/telephone numbers). This enables flexible communication between devices, allowing the mobile app, standalone terminal, mobile numbers, and desk phone numbers to call one another freely. For example, a standalone terminal can call a mobile or desk phone number, the mobile app or phone number can call a terminal, the mobile app can call another app, or terminals can call each other. This enhances communication flexibility and convenience while supporting remote access control for improved security.

3rd Party
Standard SIP Outdoor Station

SIP

SIP

Armatura ICS App
(iOS/ Android)

On-premises Server
SIP/PBX with VoIP Server

SIP

SIP

OmniAC20
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

IP Phone   Smartphone

FT10CMQ
Contactless Biometric Standalone Terminal
(Standard SIP V2.0 Ready)

ARMATURA ONE
All-in-One Web-Based
Integrated Security Platform

This serves as a configuration tool used to create SIP user accounts and register access control integrated machines to the SIP server.

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Avantages of Using Traditional SIP Trunking

- **Reliability:**

  Traditional SIP trunking often relies on established local telecom carriers, offering stable and consistent service in specific regions.

- **Budget-Conscious:**

  It can be more affordable for businesses with low call volumes, as there are lower upfront costs and no ongoing subscription fees.

- **Control and Security:**

  Businesses maintain full control over their communication systems, allowing for custom configurations and potentially enhancing security by managing the system on-premise.

- **Less Dependence on the Internet:**

  Unlike cloud-based solutions, traditional SIP trunking is less reliant on internet connectivity, ensuring more stable performance during poor internet conditions.
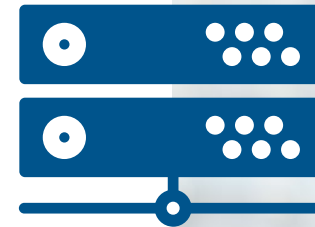
Direct Connection: SIP Standard Protocol

Since our standard terminals are interconnected through an internal network and operate using the standard SIP protocol, they seamlessly support direct terminal-to-terminal communication. This configuration facilitates efficient internal communication without relying on external servers, significantly enhancing the system's flexibility and reliability.


SIP

SIP

Video Indoor Station
(Standard SIP V2.0 Ready)

Network Switch

Video Indoor Station
(Standard SIP V2.0 Ready)
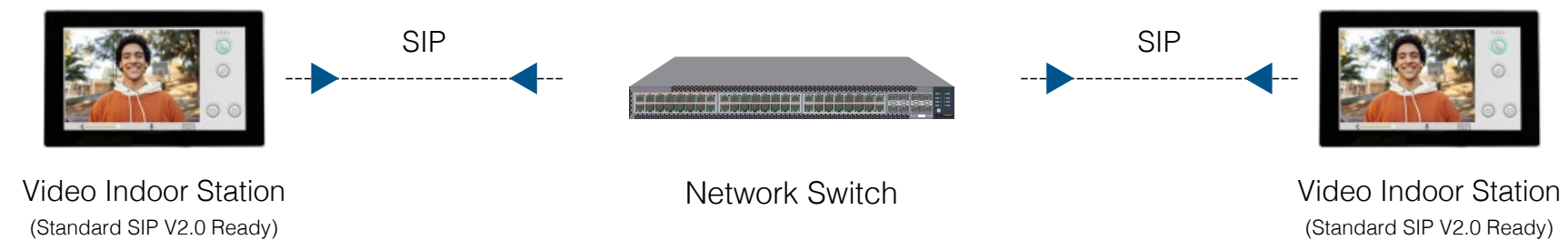
Video Intercom via Armatura ICS

Armatura ICS is an independent mobile SIP telephone client application designed to address the demands of modern communication and access control management. It enables users to manage access and interact with visitors directly from their mobile devices, eliminating the need to be physically present at entry points. With a simple login using their SIP account and password, users can access a range of convenient features for seamless communication and efficient access control management.

VIdeo Intercom

Remote Door Opening
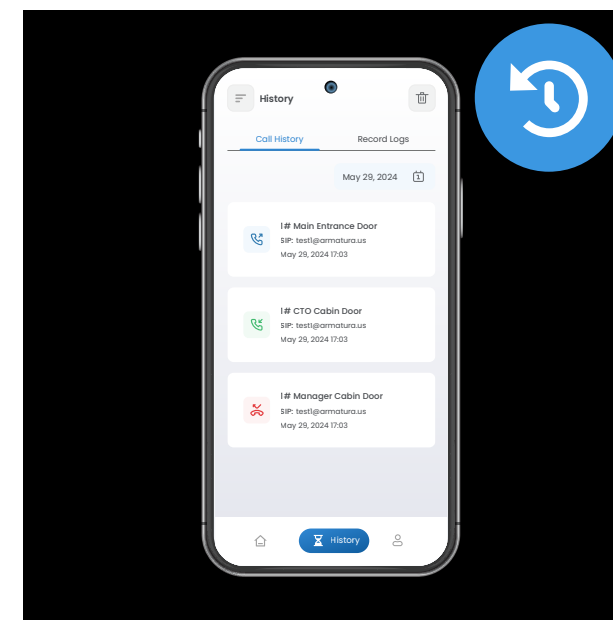
Call History
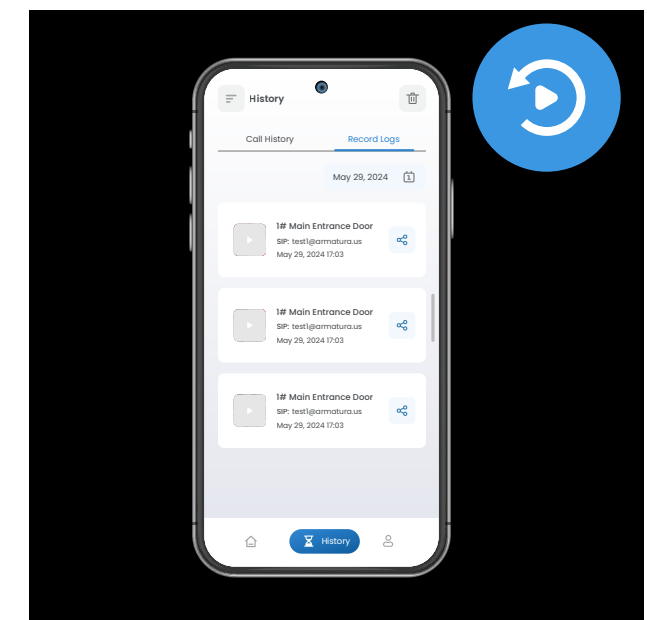
Video Playback

This solution offers a flexible and convenient approach to access control, enhancing both security and visitor management capabilities for the facility. The integration of the web-based Armatura One platform with the Armatura ICS mobile app delivers a comprehensive and efficient system for managing access and visitors.

How Armatura ICS Works

Residents' smart devices are registered with the Armatura ICS Cloud SIP Server using the SIP protocol. When a visitor initiates a call from the outdoor station, the call is automatically routed to the resident's registered smart device or indoor station via the ICS Cloud SIP Server. Upon answering the call, residents can engage in real-time video and audio communication and remotely control the access control device through the Armatura ICS mobile application.
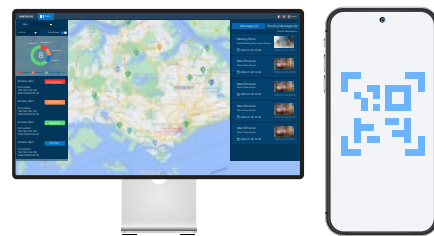
Device Registration

To start using your Armatura account, register and activate it through Armatura One. After completing the registration process, you will receive an email containing your unique User ID and a personalized QR code. To access your account, open the Armatura ICS app and either manually enter your User ID or scan the QR code from your confirmation email for a quick and seamless login experience.
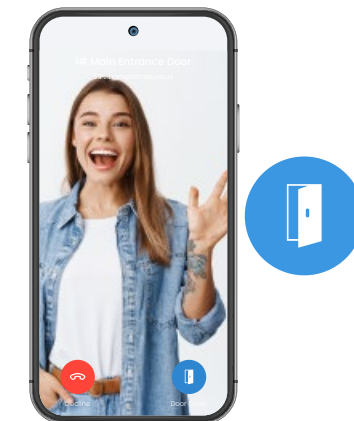
Call Initiation

When a visitor initiates a call from the outdoor station, it is routed to the user's smart device or indoor station through the SIP server.

Video Intercom

When the user answers the call, real-time video and audio communication is established.

Remote Control

Users can remotely control the access control device using the Armatura ICS app.

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Armatura ICS with Video Intercom

VIdeo Intercom

Armatura's video intercom solutions empower users to answer calls from SIP-enabled devices, facilitating real-time communication with visitors at entry points. This seamless interaction allows users to see, hear, and engage with visitors, whether they are at home, in the office, or traveling remotely.

The ability to handle video intercom calls on SIP devices offers users enhanced flexibility and control in managing visitor access and communication. Users can view live video feeds, hold conversations, and even unlock doors remotely—all from their smartphone, tablet, or any SIP-compatible device. This feature significantly enhances security, convenience, and responsiveness, making it ideal for a variety of residential, commercial, and industrial applications.

SIP
PROTOCOL

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Armatura ICS with Video Intercom

Remote Door Opening

The Armatura ICS mobile app enables residents to remotely unlock doors connected to the ICS system. When a visitor arrives, users can view live video and audio from the outdoor station directly on the ICS app. They can then choose to remotely unlock the door or gate, granting the visitor access from their smart device. This remote access feature offers residents convenient control over entry to their property, even when away, enhancing both security and accessibility.

1# Main Entrance Door

Decline

Door Open

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Armatura ICS with Video Intercom

Call History

The Armatura ICS app features a call history log, enabling residents to review details of previous visitor interactions. Each time a visitor calls a resident's registered device, the ICS system records key information, such as the call time, duration, and whether the door or gate was unlocked. Residents can easily access this call history through the app, providing a clear record of visitor activity, including when visitors arrived and entered the property. This call log enhances the overall security and accountability of the Armatura ICS system.
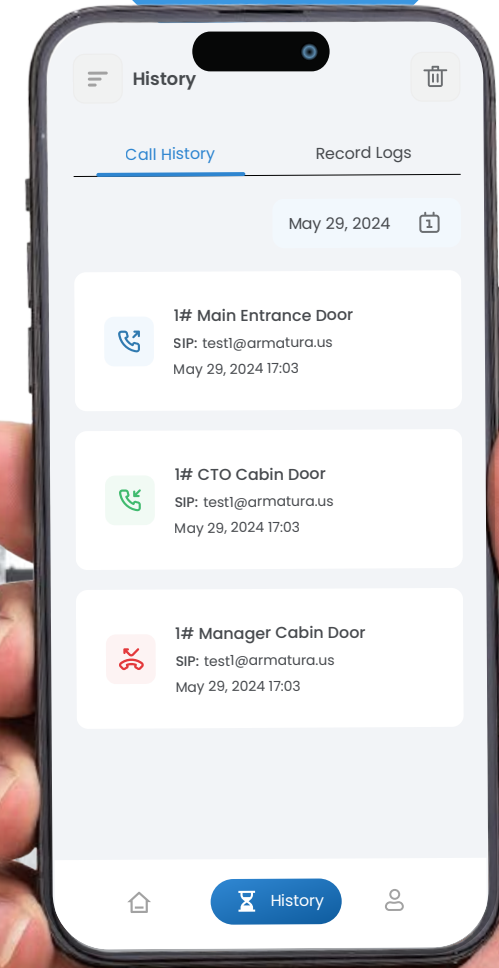
Armatura ICS with Video Intercom

Video Recording and Playback

The Armatura ICS app allows residents to record and review video footage of visitors at their door or gate. By pressing the record button within the app, the video feed is securely recorded and stored on the resident's smartphone. Users can access and playback these recordings through the ICS mobile app, offering a detailed view of who has visited and when. This video replay feature adds an extra layer of security and visibility, enhancing users' ability to monitor access and activities at their property.
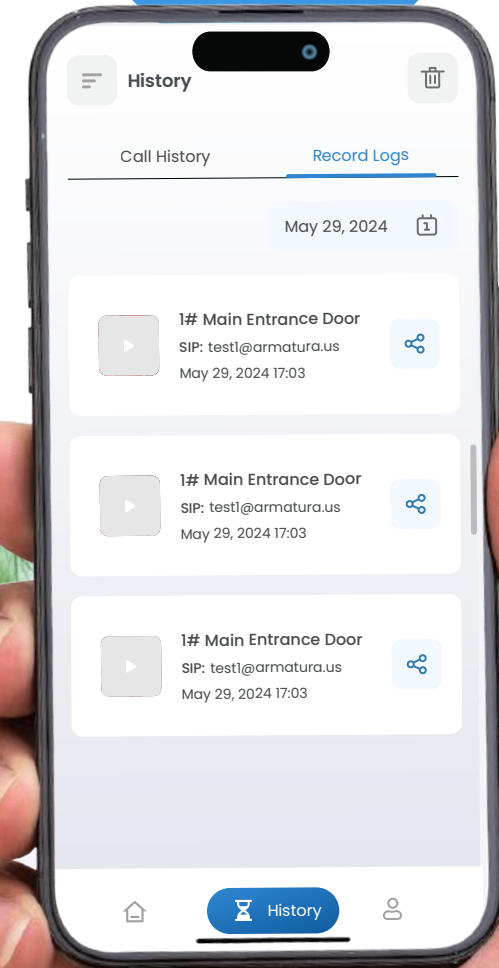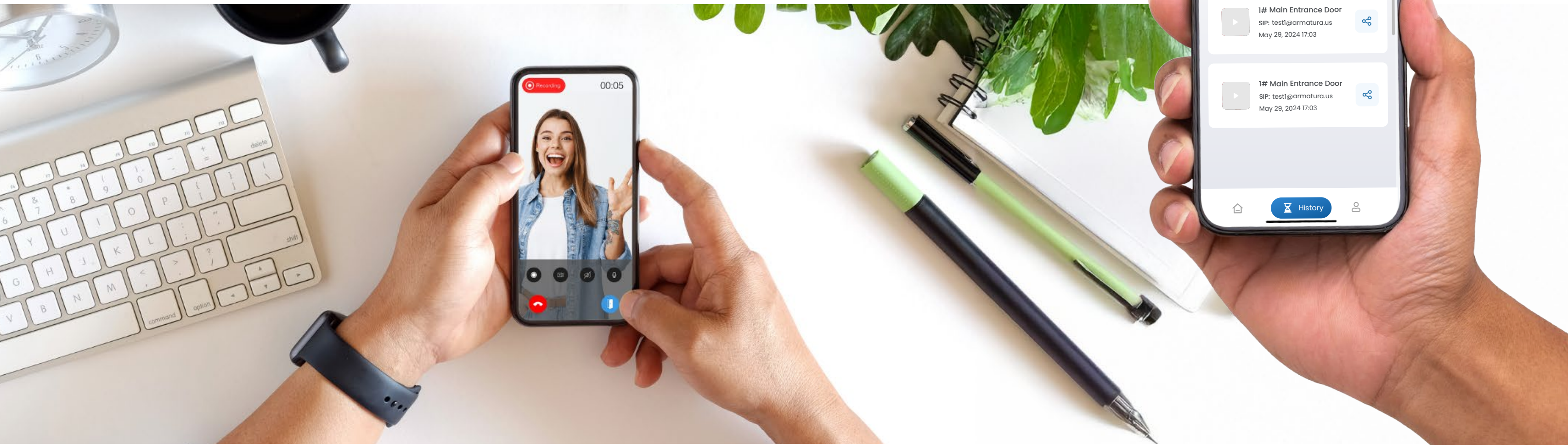
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Streamlined Centralized Management with Third-Party Outdoor Stations

Armatura's Intercom Solution leverages SIP (Session Initiation Protocol), a modern IP-based communication standard that facilitates the establishment, modification, and termination of multimedia communication sessions, including voice, video, and data sharing. Designed for seamless communication, SIP intercom systems are ideal for residential, commercial, and industrial applications.

Armatura's SIP Video Intercom product range features solutions from leading global brands, offering customers exceptional value and advanced capabilities. These include snapshot capture, video recording, and seamless integration with mobile devices through the Armatura ICS App, ensuring enhanced functionality and user convenience.

Armatura ICS App
(iOS/ Android)

3rd Party
Standard SIP Outdoor Station

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Compatible Devices

The Armatura OmniAC20 and OmniAC30 support SIP V2.0, ensuring compatibility with other SIP devices. Once installed at a door and connected to the Armatura ICS app, users can remotely view live video and unlock the door from any location with internet access. These video intercom systems provide seamless remote access and communication, enhancing security and convenience for residential, commercial, and industrial applications.

OmniAC20
Biometric Standalone Terminal

OmniAC30
Biometric Standalone Terminal

FT10CMQ
Biometric Standalone Terminal
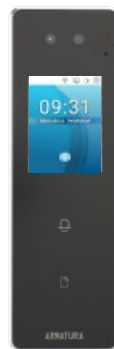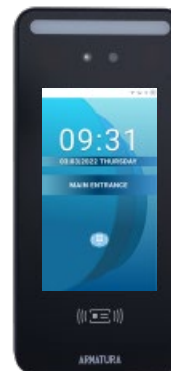
OmniAC20	OmniAC30	FT10CMQ
● Multi-Biometric technology combining palm and face authentication	● Multi-Biometric technology combining palm and face authentication	● Multimodal biometric technology, touchless palm and face authentication
● IP66 water & dustproof protection rating	● IP66 water & dustproof protection rating	● Up to IP66 Protection Level
● Supports Mobile Credentials (Bluetooth & NFC & QR code)	● Supports Mobile Credentials (Bluetooth & NFC & QR code)	● Supports Mobile Credentials (Bluetooth & NFC & QR code)
● Slim design & form factor for a modern aesthetic design	● Supports 125 kHz and 13.56 MHz frequency RFID	● Supports 100+ card types and dual RFID frequencies
● Supports 125 kHz and 13.56 MHz frequency RFID	● Supports PoE (IEEE802.3at/af)	● Supports video intercom (SIP V2.0)
● Supports Dynamic QR Code	● Supports Dynamic QR Code	● Supports Asian / European / Single-gang box
● Mobile Credentials Remote Mode & Card Mode) (Coming Soon)	● Mobile Credentials Remote Mode & Card Mode) (Coming Soon)	
● Supports video intercom (SIP V2.0)	● Supports video intercom (SIP V2.0)	

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