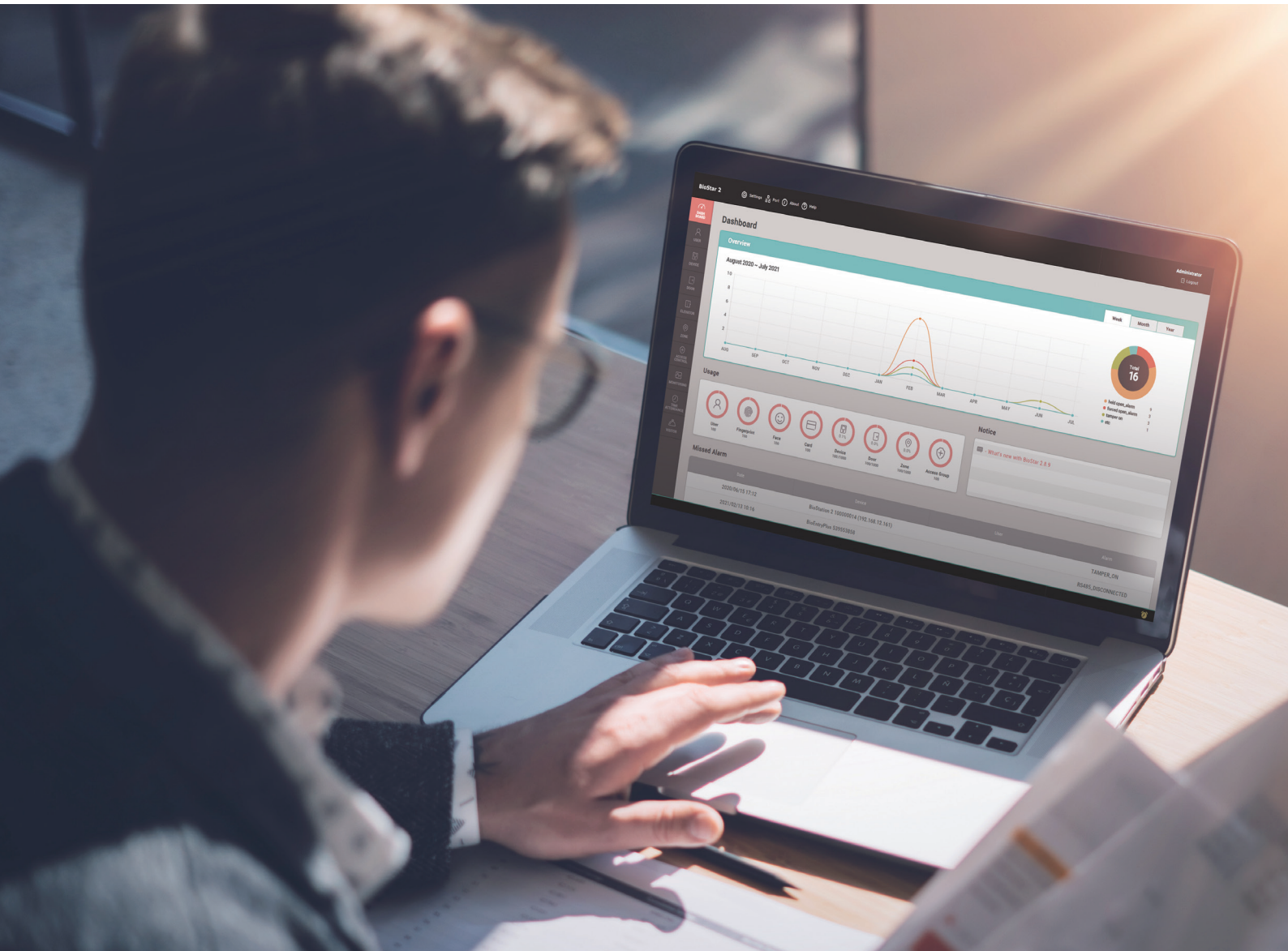


BioStar 2

Web-based Open Integrated Security Platform





BioStar 2 Platform

BioStar 2 is a web-based, open, and integrated security platform that provides comprehensive functionality for access control, time & attendance, visitor management, and video logs. It encrypts every personal data available and supports both SDKs and web APIs to integrate BioStar 2 with 3rd party software. In addition, users can control the BioStar 2 platform remotely with the mobile app for BioStar 2 and manage Suprema Mobile Access, a solution that stores credentials in smartphones.



Biometrics-
Based



Low Maintenance
Cost



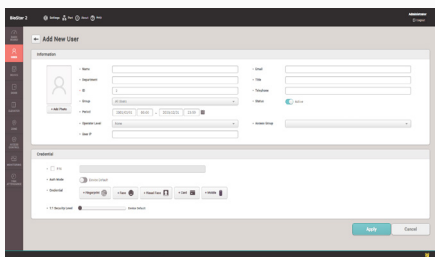
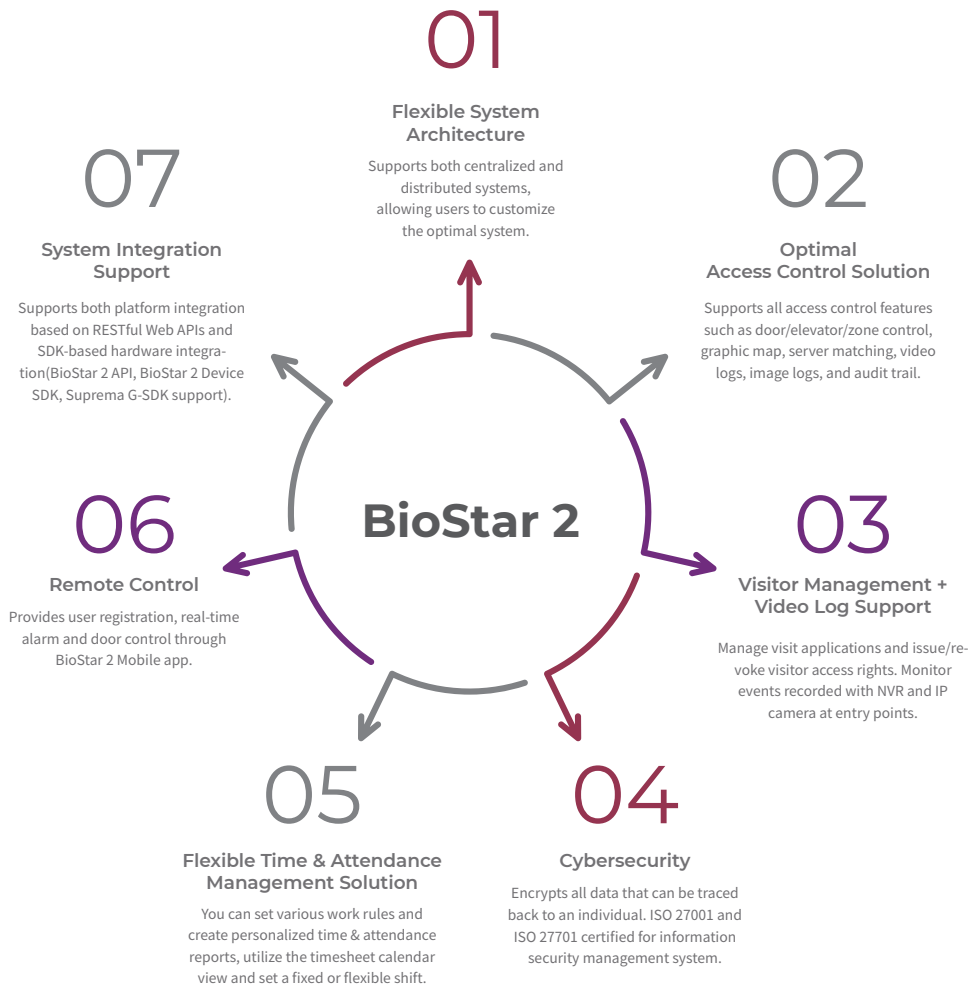
Mobile App
Support



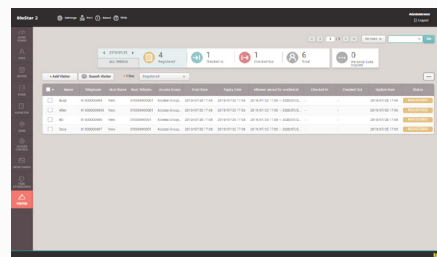
Remote Control
Support



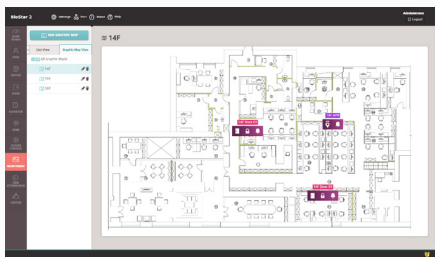
System
Integration
Tool Support



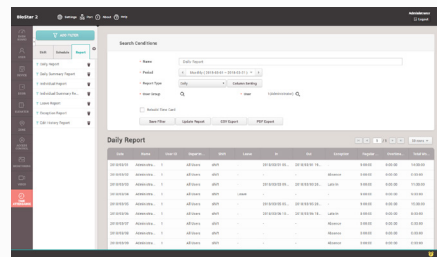
Subdivided user information registration



Visitor Management Portal



Enhanced monitoring capabilities



Multi-functional time & attendance management reports



BioStar 2 Mobile

BioStar 2 Mobile enables you to freely control BioStar 2 anywhere, anytime on your smart device. Developed based on BioStar 2's web APIs, BioStar 2 Mobile provides services which cater to the mobile era, including user information registration, BioMini-based fingerprint registration, door control, real-time door and zone status notification, and access control event monitoring.



Remote User Registration



Remote Door Control



Real-time Door and Zone Status Notification



Access Control Event Monitoring

Suprema Mobile Access

With Suprema Mobile Access, you can use your smartphone as an access card to access doors, facilities, and more. This solution for access control significantly improves user convenience and supports 3rd party systems in an easier way. By linking BioStar 2 and Suprema Airfob Portal, you can issue mobile access cards to users in BioStar 2. And users who are registered with BioStar 2 can be issued with mobile access cards through a link received by email without signing up for a portal or registering mobile access cards separately.



Secure Communication



Contactless Mobile Solution



Remote Issuance



3rd-party Integration



Low Installation and Maintenance Costs

With Suprema's exclusive security solutions, entire process is protected by ISO 27001 certified system architecture. Users are less likely to handle over their smartphones, so it prevents unauthorized person from entering your property.



Suprema Mobile Access enables smartphones to communicate with card readers via BLE and NFC.



Bluetooth

BLE Bluetooth Low Energy

- Communicates via BLE in Android
- Protecting data communications using the AES encryption algorithm

NFC

NFC Near Field Communication

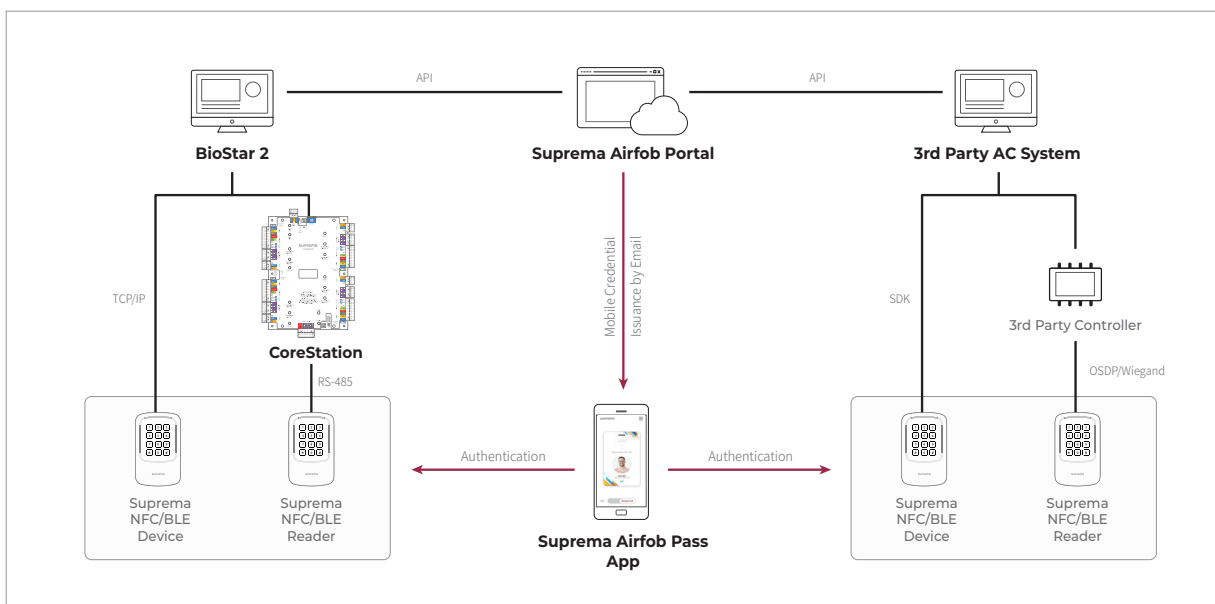
- Communicates via NFC's HCE in Android
- * Note that HCE is not available from all Android smartphones. It is recommended to check the specification of smartphones, but it is supported mostly latest models.
- Protecting data communications using the AES encryption algorithm

iOS

Bluetooth

BLE Bluetooth Low Energy

- Communicates via BLE in iOS
- Protecting data communications using the AES encryption algorithm





Distributed System | Access Control and Time & Attendance

In distributed systems, the IP terminal and readers perform the roles of controller and reader simultaneously. This design simplifies functions such as user management, access control management, and biometrics by using a single terminal. Suprema's IP terminals and readers improve system reliability with user friendly system configuration and distributed management. It also provides the benefits of simple wiring and low installation/maintenance costs.

Elevator Control

Grants floor access rights to users and controls the floor buttons in the elevators.

Easy System Connectivity & Easy Maintenance

Distributed systems provide easy system connectivity and simple maintenance.



Access Control and Time & Attendance Management

Provides a wide range of access control and time & attendance management features and also supports mobile cards.

Outstanding Performance & Contactless Authentication

Provides superior performance based on the world's best/industry leading biometric algorithms and hardware as well as the benefits of contactless authentication via FaceStation 2.

Supported Products



Fusion Multimodal Terminal
FaceStation F2



IP Face Recognition Terminal
FaceStation 2



Compact IP Face Recognition Terminal
FaceLite



IP Fingerprint Terminal
BioStation A2



Outdoor IP Fingerprint Terminal
BioStation 2



IP Fingerprint Terminal
BioStation L2



Outdoor IP Fingerprint Terminal
BioLite N2



Outdoor IP Fingerprint Device
BioEntry W2



Compact IP Fingerprint Device
BioEntry P2



Outdoor Compact RFID Device
XPass 2



IP RFID Device
XPass S2



Compact Single Door I/O Module
Secure Module



Multiple Output Extension Module
Output Module





Centralized System | Access Control and Time & Attendance







With Suprema's CoreStation and readers, you can build a centralized system, which is a system based on access control units (ACU). Suprema's centralized system not only provides the benefits of biometrics, but it also provides enhanced security and excellent system scalability. In addition, the centralized system also enables you to upgrade your existing systems at lower installation cost. Integrated with BioStar 2, this system safely stores all information about each user including the user's name, ID, PIN, access rights and fingerprint data by storing it on a single device. Suprema's intelligent biometric controller, CoreStation, is capable of performing fingerprint matching as well as RFID cards. It provides differentiated performance and features based on a 4-channel module that boasts superior hardware performance and scalability.

Strength in numbers

- Performs 400,000 times of fingerprint matching within 1 second
- Stores information about up to 500,000 users and RFID cards
- Stores up to 5,000,000 text logs
- Controls up to 132 Wiegand devices (DM-20 connection required)
- Controls up to 64 RS-485 devices
- Processes fingerprint authentication on up to 8 devices simultaneously within 1 second

| CoreStation Specs | |
|-------------------------------|------------------------------------|
| CPU | 1.4 GHz Octa Core |
| Memory | 8 GB Flash + 1 GB RAM |
| Maximum No. of Users | 500,000 (1:1) and 100,000 (1:N) |
| Maximum No. of Templates | 1,000,000 (1:1) and 200,000 (1:N)* |
| Maximum No. of Text Logs | 5,000,000 (text) |
| Serial Communication Protocol | OSDP V2 |
| Ethernet | 10/100 Mbps and Auto MDI/MDI-X |
| RS-485 | 5ch |
| Wiegand | 4ch Input |
| Relay | 4 Relays |
| TTL Input | 8ch (Supervised input selectable) |
| TTL Output | 8ch |
| AUX Input | 2ch (AC power fail and tamper) |

* Two templates per finger

| Supported Products | | | | | Accessory |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Intelligent Biometric Controller CoreStation | Compact Fingerprint Reader BioEntry R2 | Outdoor Compact RFID Reader XPass D2 | Multiple Output Extension Module Output Module | Secure Multi Door I/O Module Door Module | Enclosure for CoreStation Enclosure |

Outstanding Scalability

You can manage a compartmentalized building such as a research centers or hotel with a single CoreStation.

Elevator Control

Grants floor access rights to users and controls the floor buttons in the elevators.



High-speed Authentication

Simultaneous authentication on as many as 8 devices can be completed within 1 second, and up to 400,000 fingerprint matching can be performed per second.

Access Control and Time & Attendance Management

Provides a wide range of access control and time & attendance management features and also supports mobile cards.



BioStar 2 License Policy

Access Control License

| Item | | Starter (free of charge) | Basic | Standard | Advanced | Professional | Enterprise |
|-------------------|---|-----------------------------|---------|----------|----------|--------------|------------|
| Access Control | No. of Doors | 5 | 20 | 50 | 100 | 300 | 1,000 |
| | Maximum No. of Connected Devices | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| | Maximum No. of Access Levels ¹⁾ | 2,048 | 2,048 | 2,048 | 2,048 | 2,048 | 2,048 |
| | Maximum No. of Access Groups ¹⁾ | 2,048 | 2,048 | 2,048 | 2,048 | 2,048 | 2,048 |
| | Maximum No. of Access Groups per User | 16 | 16 | 16 | 16 | 16 | 16 |
| | Maximum No. of Access Levels per Access Group | 128 | 128 | 128 | 128 | 128 | 128 |
| | Access Group Auto Sync | ● | ● | ● | ● | ● | ● |
| Users | Maximum No. of Cards per User | 8 | 8 | 8 | 8 | 8 | 8 |
| | Maximum No. of Fingerprints per User | 10 | 10 | 10 | 10 | 10 | 10 |
| | User Auto Sync | ● | ● | ● | ● | ● | ● |
| | Access-on-Card | ● | ● | ● | ● | ● | ● |
| | Security Credential Cards | ● | ● | ● | ● | ● | ● |
| | iCLASS Seos Card | ● | ● | ● | ● | ● | ● |
| | Long-term Idle Users Management | ● | ● | ● | ● | ● | ● |
| Custom Field | ● | ● | ● | ● | ● | ● | |
| Elevator Control | Elevators | - | - | - | ● | ● | ● |
| | Maximum No. of Floors per Elevator | - | - | - | 192 | 192 | 192 |
| | Maximum No. of Floor Levels | - | - | - | 2,048 | 2,048 | 2,048 |
| Zones | Anti-Passback | ▲(Door) | ▲(Door) | ● | ● | ● | ● |
| | Fire Alarm | - | - | ● | ● | ● | ● |
| | Schedule Lock/Unlock | - | - | ● | ● | ● | ● |
| | Intrusion Alarm Zone | - | - | ● | ● | ● | ● |
| | Interlock Zone | - | - | ● | ● | ● | ● |
| | Muster Zone | - | - | ● | ● | ● | ● |
| Advanced Features | Dashboard | ● | ● | ● | ● | ● | ● |
| | Cloud | - | - | ● | ● | ● | ● |
| | New Local API | ● | ● | ● | ● | ● | ● |
| | Server Matching | - | - | - | ● | ● | ● |
| | Audit Trail | ● | ● | ● | ● | ● | ● |
| | Daylight Saving Time | ● | ● | ● | ● | ● | ● |
| | Dual Authentication | ● | ● | ● | ● | ● | ● |
| Active Directory | - | - | - | ● | ● | ● | |
| Monitoring | Graphic Map | - | - | - | ● | ● | ● |

¹⁾ Available from BioStar 2.8.9. (Requires latest firmware) ● : Yes or supported.

Time & Attendance Management License

| Items | Starter (free of charge) | Standard | Advanced | Professional |
|--------------|-----------------------------|----------|----------|--------------|
| No. of Users | 100 | 500 | 1,000 | unlimited |

Video Log License

| Items | Starter (free of charge) | Video License |
|-----------|-----------------------------|---------------|
| Video Log | - | ● |

Visitor Management License

| Items | Starter (free of charge) | Visitor License |
|--------------------|-----------------------------|-----------------|
| Visitor Management | - | ● |



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For more information about Suprema's global offices, visit the webpage below by scanning the QR code.
<https://www.supremainc.com/en/about/contact-us.asp>