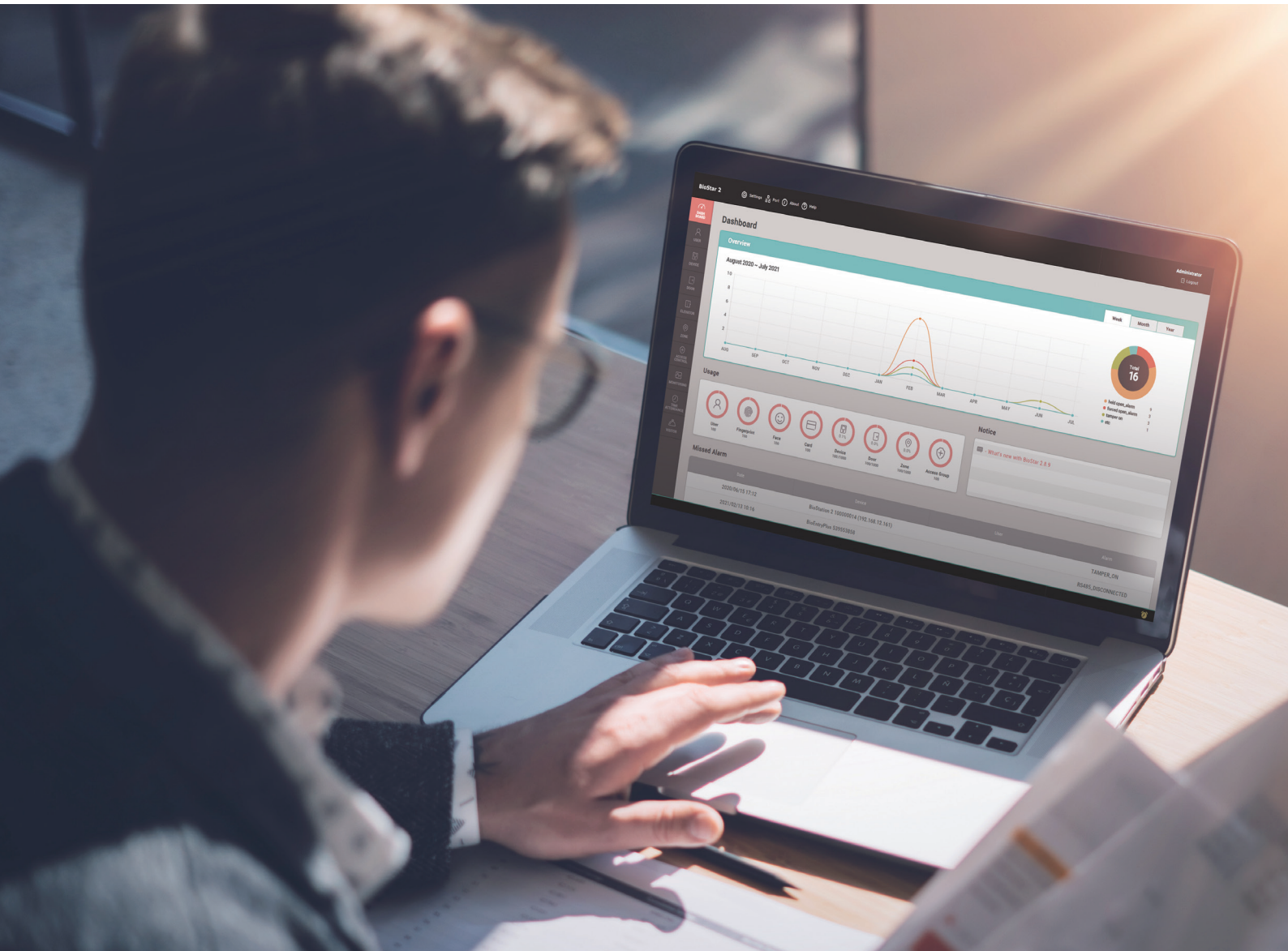


BioStar 2

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



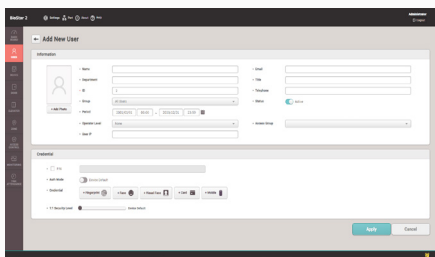
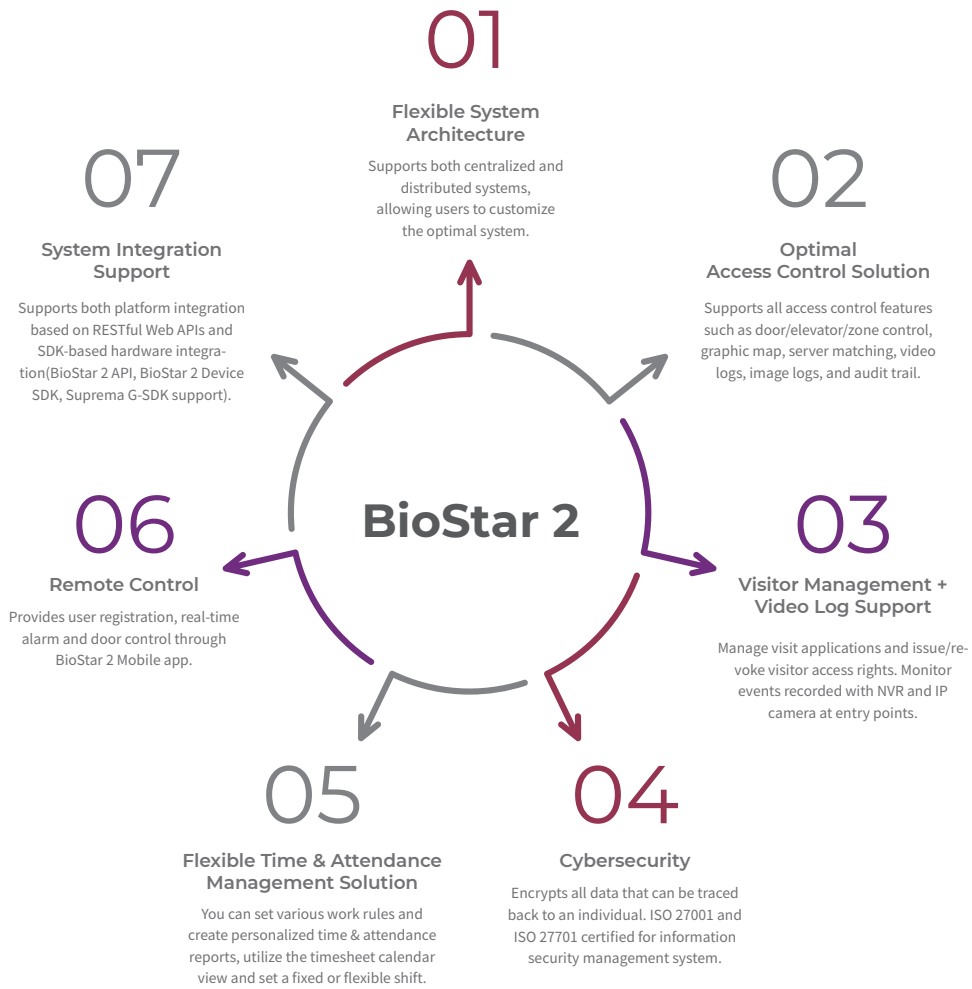
Mobile App
Support



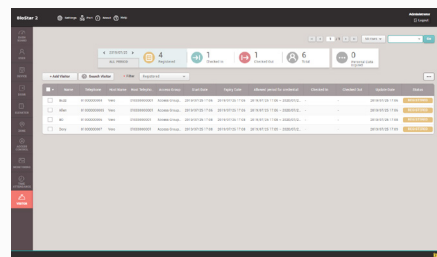
Remote Control
Support



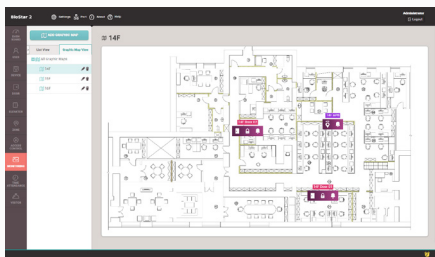
System
Integration
Tool Support



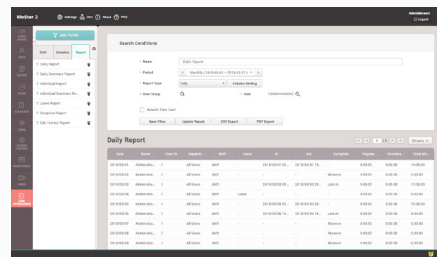
Subdivided user information registration



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.



BLE Bluetooth Low Energy

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



NFC Near Field Communication

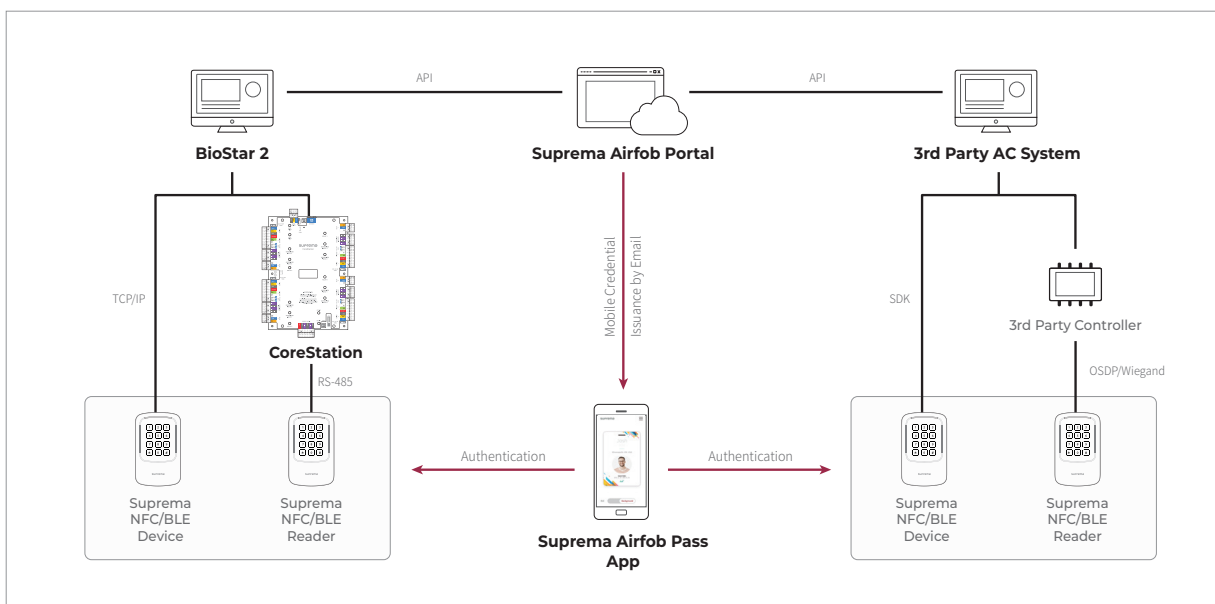
- Communicates via NFC's HCE in Android
- * Note that HCE is not available from all Android smartphones. It is recommended to check the specification of smartphones, but it is supported mostly latest models.
- Protecting data communications using the AES encryption algorithm

iOS



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



Versatile Intelligent Terminal
X-Station 2



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	Maximum 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	-	-	●	●	●	●
	Occupancy Limit Zone	-	-	●	●	●	●
Advanced Features	Dashboard	●	●	●	●	●	●
	Cloud	-	-	●	●	●	●
	New Local API	●	●	●	●	●	●
	Server Matching	-	-	-	●	●	●
	Audit Trail	●	●	●	●	●	●
	Daylight Saving Time	●	●	●	●	●	●
	Dual Authentication	●	●	●	●	●	●
Monitoring	Active Directory	-	-	-	●	●	●
	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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