



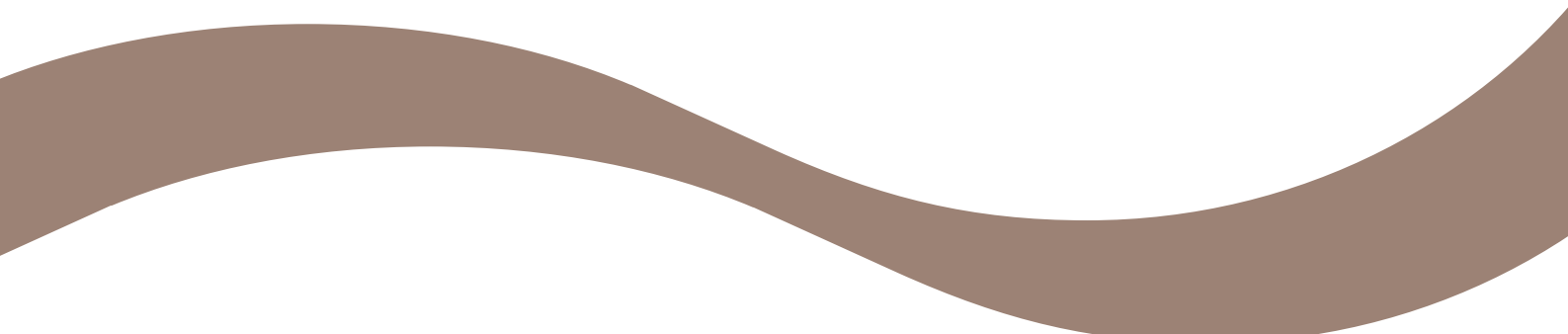
# NEW FEATURE GUIDE

BioStar 2.4.0

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English

**Version 1.00**



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- This document describes the new features of BioStar 2.4.0.
- Please refer to BioStar 2 Administrator’s manual for detailed instructions about each features.

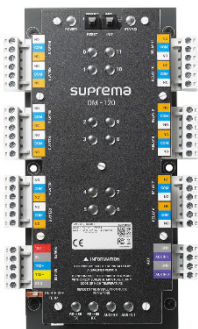
# BioStar 2.4.0

## MariaDB and Oracle Database | Database Support

BioStar 2.4.0 supports both Maria DB and Oracle Database. A stable system can be established with these reliable Database Management Systems (DBMS) and users can now use the database and develop applications in a familiar environment.



- MariaDB 10.1.10 or later
- Oracle Database 11g
- Oracle Database 11g Express
- Oracle Database 12c




## OM-120 | Multi-output Module

OM-120 is a multiple output module that allows 12 relay outputs. You can use this device for elevator entrance management in BioStar 2 with the elevator feature. One master device can have thirty one OM-120 devices connected with a daisy-chain connection and an auxiliary input can be used as well. Furthermore, you can utilize this device with the anti-passback zone or fire alarm zone.

## Alphanumeric ID | More Convenient User Management

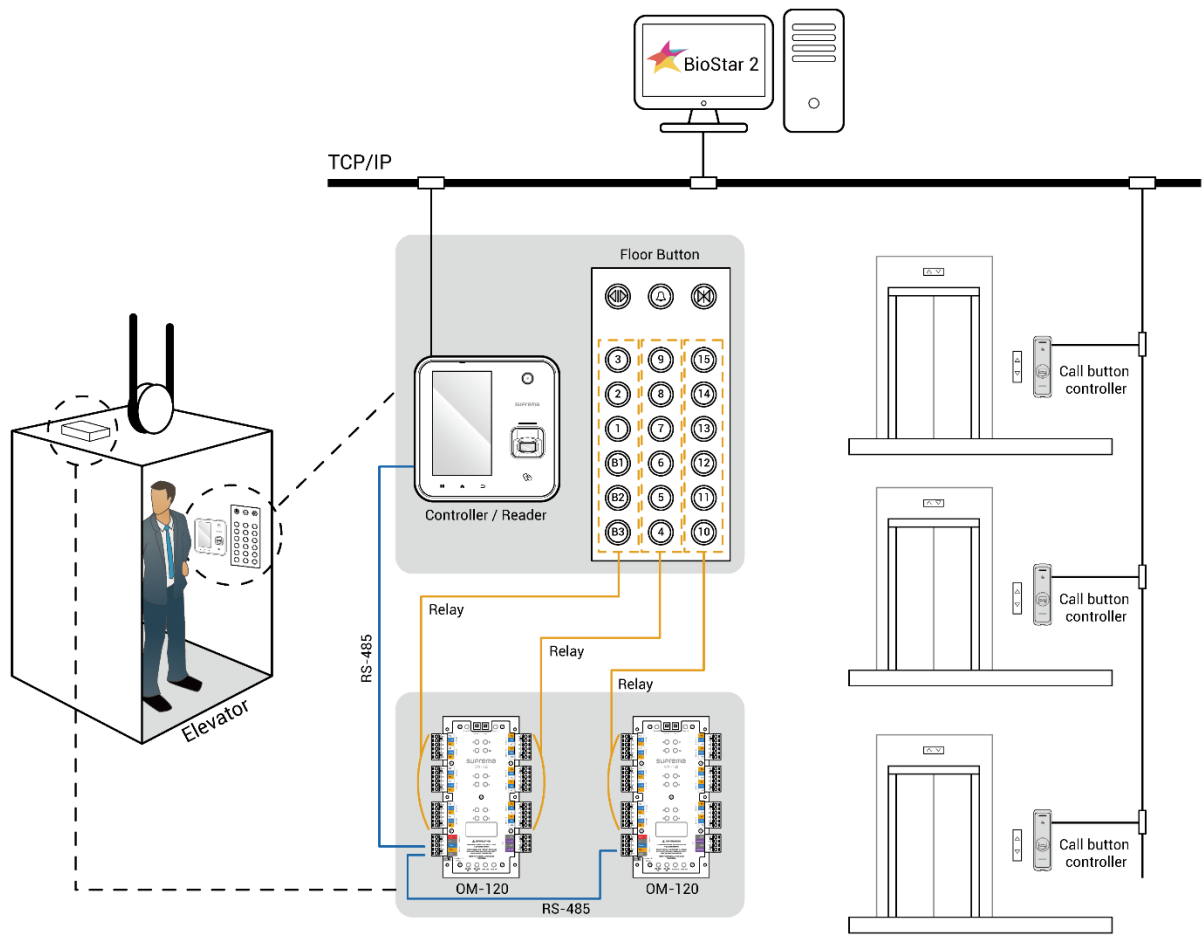
User management now allows more than just numeric IDs. You can conveniently use characters in the combination as well. Hyphen (-) and underline (\_) symbols can also be used and the user ID can be a combination of ID and numbers up to 32 characters.

 <input type="button" value="+ Add Photo"/>	• Name	<input type="text" value="Alphanumeric ID"/>
	• ID	<input type="text" value="This_is_an_User-ID123"/>
	• Group	<input type="text" value="All Users"/>
	• Period	<input type="text" value="2001/01/01"/> <input type="text" value="00:00"/> ~ <input type="text" value="2030/"/>
	• Operator Level	<input type="text" value="None"/>

[Alphanumeric ID input screen]

# Elevator Control | Simultaneous Control of 192 Floor Entrances

BioStar 2 can manage the floor entrance by using the multiple output module OM-120. Each elevator can control a maximum of 192 floors and a maximum of 1,000 elevators can be created and managed with BioStar 2.



[Elevator control system using OM-120]

**Configuration**

- Controller:  • Reader:
- Module:

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**Floor**

- Total Number of Floors:   • Auto-mapping:  Auto-mapping

• Floor Settings

Floor Name	Device	Relay Number	
<input type="text" value="Elevator 1 - 1"/>	OM-120 12345678	Relay 0 of OM-120 12345678 De...	<input type="button" value="🗑"/>
<input type="text" value="Elevator 1 - 2"/>	OM-120 12345678	Relay 1 of OM-120 12345678 De...	<input type="button" value="🗑"/>
<input type="text" value="Elevator 1 - 3"/>	OM-120 12345678	Relay 2 of OM-120 12345678 De...	<input type="button" value="🗑"/>
<input type="text" value="Elevator 1 - 4"/>	OM-120 12345678	Relay 3 of OM-120 12345678 De...	<input type="button" value="🗑"/>
<input type="text" value="Elevator 1 - 5"/>	OM-120 12345678	Relay 4 of OM-120 12345678 De...	<input type="button" value="🗑"/>

[Floor configuration screen]

The elevator does not only control floor buttons but also allows the configuration of dual authentication. The tamper switch can be used with OM-120 after connecting it as well.

Dual Authentication			
• Reader	BioStation A2 541531008 (192.168...)	• Schedule	Always
• Approval Type	None	• Timeout	15 sec

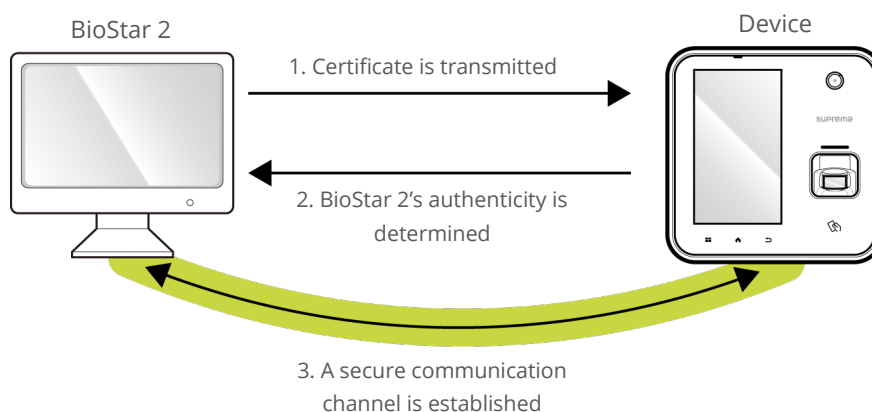
  

Tamper	
• Tamper Port	Input Port 0 of OM-120 12345678 D...
• Switch	<input checked="" type="checkbox"/> Normally Open

[Dual authentication and tamper configuration]

## Secure Communication | Improved Security Between BioStar 2 and Devices

The secure communication feature using TLS protocol secures the communication channel between the device and BioStar 2 with a certificate. The secure communication channel is established after BioStar 2's authenticity is determined. Hence, you can now increase the security of the communication between BioStar 2 and the devices with a single click.



[Secure communication channel diagram]

Furthermore, external registrations can be registered and utilized.

Secure Communication with Device	
• Secure communication with device	<input checked="" type="checkbox"/> Use
• Root certificate	<input type="button" value="Upload"/>
• Private key	<input type="button" value="Upload"/>
• Use external certificates	<input checked="" type="checkbox"/> Use
• Public key certificate	<input type="button" value="Upload"/>
• Private key passphrase (Optional)	<input type="text"/>
• Confirm private key passphrase	<input type="text"/>

[External certificate registration screen]

## DUALi DE-620 | Support for USB Card Readers

You can now use DUALi DE-620 with BioStar 2 in addition to BioMini, which is a USB fingerprint reader. You can connect the DE-620 to a PC with a USB connection to read and write smart card information.



BioMini



DUALi DE-620

## Custom Level Configuration | Familiar but Novel

Detailed operator privilege can now be assigned based on menus. For instance, an operator with assigned privileges will only be able to manage the specific user groups or access groups the account has been assigned to.

• Name

• Description

• Admin Menu Settings

	Menu Items	Custom Items	Add Button	Edit	Read
1	Dashboard		N/A		<input type="checkbox"/>
2	User	<input type="text" value="All Users (1)"/> <input type="text" value="All Devices"/>	Disabled	<input type="checkbox"/>	<input type="checkbox"/>
3	Device	<input type="text" value="All Devices"/>	Disabled	<input type="checkbox"/>	<input type="checkbox"/>
4	Door	<input type="text" value="All Doors"/>	Disabled	<input type="checkbox"/>	<input type="checkbox"/>
5	Elevator	<input type="text" value="All Elevators"/>	Disabled	<input type="checkbox"/>	<input type="checkbox"/>
6	Zone	<input type="text" value="All zones (4)"/>	Disabled	<input type="checkbox"/>	<input type="checkbox"/>
7	Access Control	<input type="text" value="All access groups"/>	Disabled	<input type="checkbox"/>	<input type="checkbox"/>
8	Monitoring		N/A	<input type="checkbox"/>	<input type="checkbox"/>
9	Time & Attendance		Disabled	<input type="checkbox"/>	<input type="checkbox"/>
10	Setting		N/A	<input type="checkbox"/>	<input type="checkbox"/>

• Add User

[Custom level configuration screen]



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