

# Suprema WEBINAR 2020

2 - BioStar 2 : What it is and How to set it up



Technical Support Team 2020.04

# Contents

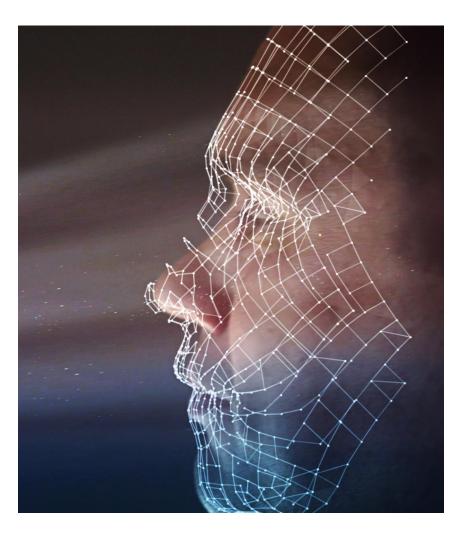
- 1. Webinar Goal
- 2. What is BioStar 2 Software ?
- 3. How to Install with MariaDB?
- 4. How to Install with MSSQL?
- 5. Quick Tour on simple feature.
- 6. Questions and Answers

#### DISCLAIMER

This presentation is solely for the use of Suprema's employees. No part of this material may be circulated, quoted, or reproduced for distribution outside the customer's organization without prior written approval from Suprema Inc. This material was prepared by Suprema Inc. solely for informative purpose and was not independently verified. No representations or warranties, express or implied, are made as to, and no reliance should be placed on, the accuracy, fairness or completeness of the information presented or contained in this presentation. © 2020 Suprema Inc. All rights reserved.

### 0 - Who we are (company)

1. Webinar Goal 2. What is BioStar 2 Software 3. How to install with MariaDB 4. How to install with MSSQL 5. Quick Tour on simple features 6. Q&A



### **Global Powerhouse in Biometrics, Security and Identity Solutions**

Suprema is a leading global provider of biometrics and security. By combining world renowned biometric algorithms with superior engineering, Suprema has introduced a number of technology initiatives and innovations to the security industry over the last couple of decades.



#### The best in biometrics and security

Suprema provides comprehensive security solutions for security. Whatever you're looking for, you'll find a Suprema's product to suit your needs. From robust outdoor Biometric Readers to discreet products for sensitive environments, we offer it all.





### **Biometrics Platform with Easy Use, Installation and Integration**

BioStar2, Web-based open integrated security platform.





### **Biometrics Platform with Easy Use, Installation and Integration**

BioStar2, Web-based open integrated security platform.



E – Multi finger reader (Governmental)

- A User Management
- B Fingerprint Template
- C Face Template
- D Encryption for reader network

- F Web design
- G GDPR compliance
- H Encryption for web access
- I Encryption for Database

SUPIEMO 2020 Suprema Inc. All rights reserved.

# Contents

### 1. Webinar Goal

- 2. What is BioStar 2 Software ?
- 3. How to Install with MariaDB?
- 4. How to Install with MSSQL?
- 5. Quick Tour on simple feature.
- 6. Questions and Answers

#### DISCLAIMER

This presentation is solely for the use of Suprema's employees. No part of this material may be circulated, quoted, or reproduced for distribution outside the customer's organization without prior written approval from Suprema Inc. This material was prepared by Suprema Inc. solely for informative purpose and was not independently verified. No representations or warranties, express or implied, are made as to, and no reliance should be placed on, the accuracy, fairness or completeness of the information presented or contained in this presentation. © 2020 Suprema Inc. All rights reserved.

- Answer to :
  - What is BioStar2?
  - How it works?
  - Scope of use.
- How to setup it without any issue for both DB
- Discovering the main simple feature :
  - License
  - Reader
  - User
  - •

SUPIEMO 2020 Suprema Inc. All rights reserved.

# Contents

- 1. Webinar Goal
- 2. What is BioStar 2 Software ?
- 3. How to Install with MariaDB?
- 4. How to Install with MSSQL?
- 5. Quick Tour on simple feature.
- 6. Questions and Answers

#### DISCLAIMER

This presentation is solely for the use of Suprema's employees. No part of this material may be circulated, quoted, or reproduced for distribution outside the customer's organization without prior written approval from Suprema Inc. This material was prepared by Suprema Inc. solely for informative purpose and was not independently verified. No representations or warranties, express or implied, are made as to, and no reliance should be placed on, the accuracy, fairness or completeness of the information presented or contained in this presentation. © 2020 Suprema Inc. All rights reserved.

BioStar 2 software is a web-based, open, and integrated security platform that provides comprehensive functionality for access control and time & attendance





#### BioStar is managing Readers, Users, card, Pin Code, FingerPrint, Face, Controller

BioStar 2 is the software that manages all the Suprema Devices, like RFID readers, Door Controllers as well as Biometric readers. It also handles SIO2, OM120, DM20.

It is also able to manage centralized system or distributed system or both of them on the same main appliance

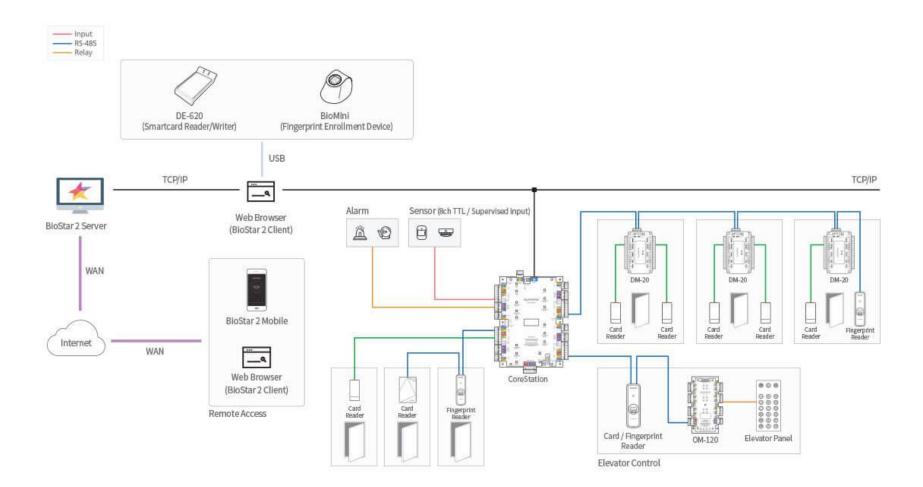




### 2 – What is BioStar2 Software

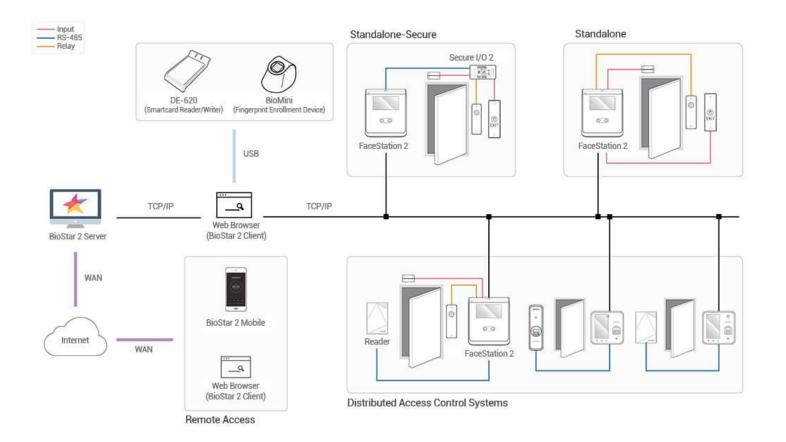
1. Webinar Goal 2. What is BioStar 2 Software 3. How to install with MariaDB 4. How to install with MSSQL 5. Quick Tour on simple features 6. Q&A

### **Centralized System**





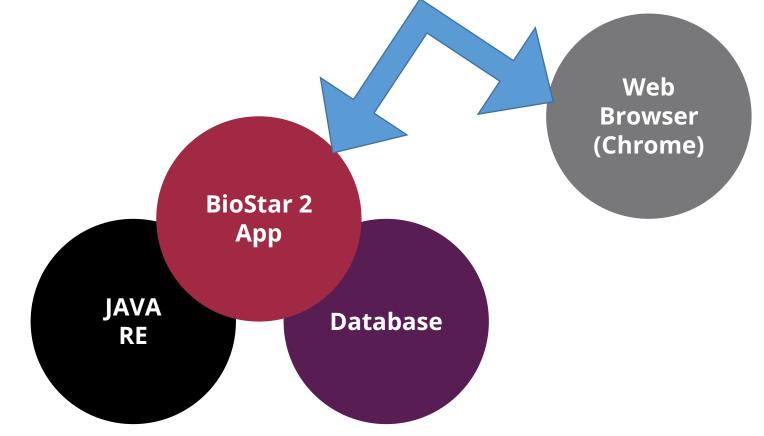
### **Distributed System**





### BioStar 2 software is using Java Runtime and database

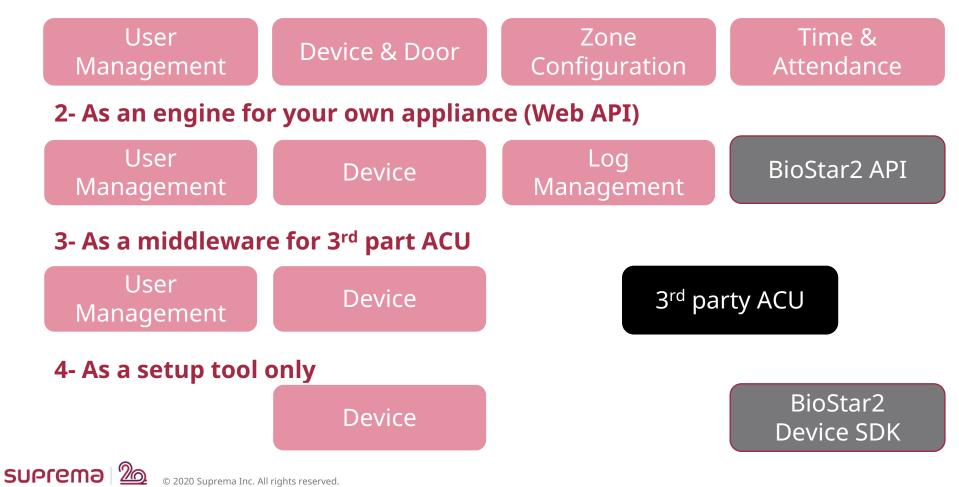
Accessing the software only need a web Browser (Chrome is recommended)





### How could you use BioStar 2 :

### 1- As a main system for access control and time attendance



#### Access Control License

	Items	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	1				
	Maximum No. of Access Groups <sup>20</sup>	2,048	2,048	2,048	2,048	2,048	2,048	1				
	Maximum No. of Access Groups per User	16	16	16	16	16	16	Ī				
	Maximum No of Access Levels per Access Group	128	128	128	128	128	128	Time & Attendance Management License				
	Access Group Auto Sync	v	v	v	v	v	v					
	Maximum No. of Carda per User	8	8	8	8	8	8	Items	Starter (free of charge)	Standard	Advanced	Professional
	Maximum No. of Fingerprints per User	10	10	10	10	10	10	No. of Users	100	500	1,000	unlimited
	User Auto Sync	v	v	*	v	v	v					
	Access-on-Card	v	v	*	v	v	v					
Users	Security Credential Carda	v	v	v	v	v	v	-				
	ICLASS Secs Card	v	v	v	v	v	v					
	Inactivation User Reports	v	v	*	v	v	v	1.				
	Custom Field	v	v	v	v	v	v	Video Log License				
Elevator Control	Elevators	-	-	-	v	v	v		Items	Starts (free of ch		Video License
	Maximum No. of Floors per Elevator	-	-	-	192	192	192	1	/ideo Log	-	anger	v
	Maximum No. of Floor Levels	-	-	-	178	128	128					
Zones	Anti-Pasaback	∆(Door)	∆(Door)	~	v	v	v	Visitor Management License				
	Fire Alarm	-	-	*	v	v	v		Items	Starts (free of ch	ar targa)	Visitor License
	Schedule Lock/Unlock	-	-	*	v	v	v	Visito	r Management	-	- 0-	v
	Intrusion Alarm Zone	-	-	×	v	v	v					
	Interlock Zone	-	-	*	v	v	v	1				
	Muster Zone	-	-	*	v	v	v	1				
Advanced Features	Dashboard	v	v	*	v	v	v					
	Cloud	-	-	v	v	v	v	Î				
	Server Matching	-	-	-	v	v	v	Ī				
	Audit Trail	v	v	v	v	v	v	1				
	Dwylight Saving Time	v	v	v	v	v	v	1				
	DualAuthentication	v	v	v	v	v	v	Î				
Monitoring	Graphic Map	-	-	-	v	v	v	]				

SUPICEMO Contraction Suprema Inc. All rights reserved.

<sup>10</sup>Available from BioStar 2.7.0. (Requires latest firmware)

### **BioStar 2 : Systems requirements**

Item		Small	Medium	Enterprise			
Environment	Total Devices	50	100	1,000			
	os	<ul> <li>Windows 7 Home Basic 64bit SP1 or later</li> <li>Windows 7 Home Basic 32bit SP1 or later</li> </ul>	<ul> <li>Windows Server 2008 R2 Standard 64bit SP2 or later</li> <li>Windows 7 Home Premium 64bit SP1 or later</li> </ul>	<ul> <li>Windows Server 2008 R2 Standard 64bit SP2 or later</li> <li>Windows 7 Home Premium 64bit SP1 or later</li> </ul>			
System requirement	Database	MariaDB 10.1.10, MS SQL Server 2012, MS SQL Server 2014 SP2, MS SQL Server 2016 SP1, MS SQL Server 2017					
(Server)	CPU	2 GHz Dual Core	4 GHz Quad Core	4 GHz Quad Core			
	RAM	6 GB	10 GB	16 GB			
	HDD	500 GB	1 TB	4 TB			
	Others	Java 1.8.0_201					
	CPU	1 GHz	1 GHz	1 GHz			
System requirement (Client)	RAM	4 GB	4 GB	4 GB			
	Web Browser	Google Chrome 75 or later					



### **BioStar 2 : Used port list**

Database :

Maria DB: 3312 (mysqld.exe) ORACLE: 1521 (BioStar 2.4.1) MSSQL: 1433 T&A: 3000(http), 3002(https) (node.exe)

#### File Sharing :

445 (WebDAV is used when the file is uploaded from server to client)

Nginx (web server): 9000

Websock : 9002 (biostar-server.exe)

# webserver\_thrift\_port : 9310 (java.exe)

**BioStar 2 Server** 51212 (default) (biostar-server.exe) 51213 (if TLS is used) Web server : HTTP 80 (default) & HTTPS 443 (default)

**Cloud:** 52000 (default) (nginx.exe \*32) V1 8790(app), 8781(doc) V2 8795(app), 8786(doc) 4443 (ngrok.exe \*32) URL : cloud.biostar2.com, api.biostar2.com

(Local) API server : 27017 (default)

**USB Agent :** HTTPS 8081 (default), HTTP 8082 (default) (usbagent.exe \*32)

**UDP (device search):** 51210

**Device Port :** 51211 (default)



**BioStar 2 : How to choose between MariaDB and MS SQL** 

- MariaDB is the default DataBase for BioStar 2 due to :
  - Open source (Original developers of MySQL)
  - Free solution (Foundation)
  - Easy to use (all is included inside Biostar 2 setup)
- MS SQL is integrated due to :
  - Active Support from Microsoft
  - Need technical team with good knowledge
  - Case when MS SQL is already running/certified on site

SUPIEMO Suprema Inc. All rights reserved.

### All information and help from this Webinar could be find from :

### - Help menu from BioStar 2 web page

Mattheway Mattheway Mattheway Mattheway Mathematica Mathematica

### - Knowledge base web page

Mattheware Matter Ma

### - Support web page

Mathematical M

### - Brochure, Manual and driver web page

Mattheway Mattheway Mathematical Strength Str



# Contents

- 1. Webinar Goal
- 2. What is BioStar 2 Software ?

### 3. How to Install with MariaDB?

- 4. How to Install with MSSQL?
- 5. Quick Tour on simple feature.
- 6. Questions and Answers

#### DISCLAIMER

This presentation is solely for the use of Suprema's employees. No part of this material may be circulated, quoted, or reproduced for distribution outside the customer's organization without prior written approval from Suprema Inc. This material was prepared by Suprema Inc. solely for informative purpose and was not independently verified. No representations or warranties, express or implied, are made as to, and no reliance should be placed on, the accuracy, fairness or completeness of the information presented or contained in this presentation. © 2020 Suprema Inc. All rights reserved.

• Where to download BioStar 2 and release note:

Mattheway Mattheway Mattheway Mathematical Structure Content of Content of



### 3- How to Install BioStar2 with MariaDB

1. Webinar Goal 2. What is BioStar 2 Software 3. How to install with MariaDB 4. How to install with MSSQL 5. Quick Tour on simple features 6. Q&A





# Contents

- 1. Webinar Goal
- 2. What is BioStar 2 Software ?
- 3. How to Install with MariaDB?

### 4. How to Install with MSSQL ?

- 5. Quick Tour on simple feature.
- 6. Questions and Answers

#### DISCLAIMER

This presentation is solely for the use of Suprema's employees. No part of this material may be circulated, quoted, or reproduced for distribution outside the customer's organization without prior written approval from Suprema Inc. This material was prepared by Suprema Inc. solely for informative purpose and was not independently verified. No representations or warranties, express or implied, are made as to, and no reliance should be placed on, the accuracy, fairness or completeness of the information presented or contained in this presentation. © 2020 Suprema Inc. All rights reserved.

• Where to download BioStar 2 :

https://www.supremainc.com/en/support/biostar-2-pakage.asp

• Where to download MS SQL Express 2017 :

Mattheway Mattheway Mattheway Mathematical Strength St

• New feature since BioStar 2.7.14 :

<u>
Mathematical Mathematicae Mathematicae</u>

biostar-2-supports-windows-authentication-for-ms-sql-database-server-connections



### 4- How to Install BioStar2 with MSSQL

1. Webinar Goal 2. What is BioStar 2 Software 3. How to install with MariaDB 4. How to install with MSSQL 5. Quick Tour on simple features 6. Q&A





## Contents

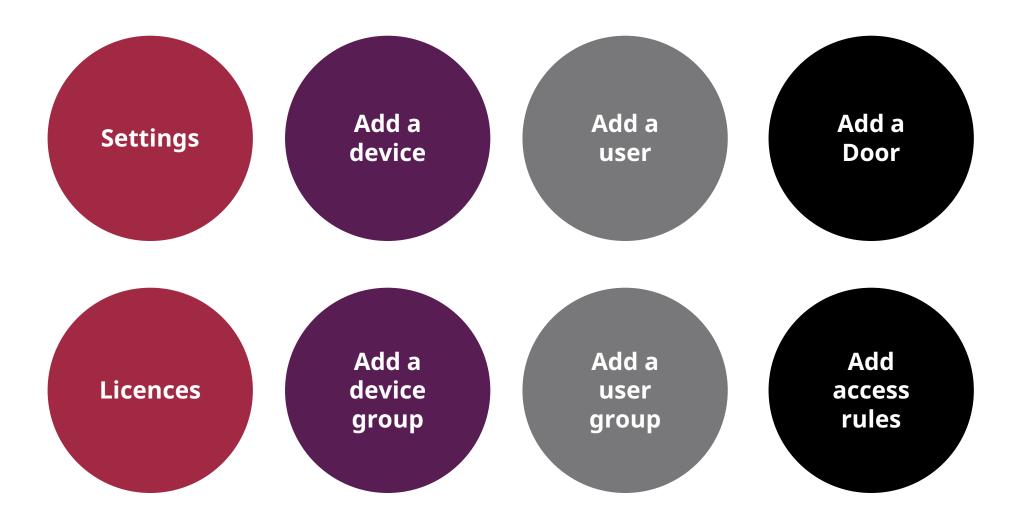
- 1. Webinar Goal
- 2. What is BioStar 2 Software ?
- 3. How to Install with MariaDB?
- 4. How to Install with MSSQL?
- 5. Quick Tour on simple feature.
- 6. Questions and Answers

#### DISCLAIMER

This presentation is solely for the use of Suprema's employees. No part of this material may be circulated, quoted, or reproduced for distribution outside the customer's organization without prior written approval from Suprema Inc. This material was prepared by Suprema Inc. solely for informative purpose and was not independently verified. No representations or warranties, express or implied, are made as to, and no reliance should be placed on, the accuracy, fairness or completeness of the information presented or contained in this presentation. © 2020 Suprema Inc. All rights reserved.

### 5- Quick tour on simple features

1. Webinar Goal 2. What is BioStar 2 Software 3. How to install with MariaDB 4. How to install with MSSQL 5. Quick Tour on simple features 6. Q&A





### 5- Quick tour on simple features

1. Webinar Goal 2. What is BioStar 2 Software 3. How to install with MariaDB 4. How to install with MSSQL 5. Quick Tour on simple features 6. Q&A

**۳** 

itar 2 @ settings % Port () About () Hele Dashboard					Administrativ E Logovi
Overview					Year Month Week
May 2019 ~ April 2020	JUL AUS STP	007	NOV DEC	JAN FER	MAZ AZZ
St. Usage		Notice			
NCI Deer 9 Regregation 8 Regregation 8 Regregation 9 Regregation 8 Regregation 8 Regregation 9 Regregation 9 Regregation 9 Regregation 9 Regre	Image: Non-State         Image: Non-State<	- What's new with BioStar 2.7.12			
Missed Alarm					
Deta	Device		User		Alarm
2020/04/16 12:16	Secure102 788695629				Held door opened
2020/04/16 09:02	Secure(02 788702029				Held door opened
2020/04/14 17:48	Secure/02 782695829				Held door opened Held door opened
2020/04/14 12:32	Securit2 78875229				Held door opened
2020/04/13 08:21	RDC2 - BisEntry W2 544186752 (192.168.2.18)		Kerim KRAMASSI		Access denied (involid access group)
2020/04/13 08:21	RDC2 - BloEntry W2 544186752 (192.168.2.18)		Kerim KHAMASSI		Access denied (involid access group)
2020/04/13 08:20	RDC2 - BloEntry W2 546186752 (192.168.2.18)		Karlm KHAMASSI		Access denied (involid access group)
2022/04/12 08:19	RDC2 - SINERtry W2 544186752 (192.168.2.18)		Karlm KHAMASSI		Access denied (invalid access group)



# **Questions and Answers**



# Thank you!

