관리자 가이드

Version 2.9.6

한국어 KO 102.00.BS2



1	BioStar 2		1
			3
			4
2			47
			47
	BioStar 2		49
3			60
	BioStar 2		62
	BioStar 2		
	DIUSTAL 2		63
			66
	BioStar 2		68
4			70
5			73
6			74
			76
			77
			80
	Wiegand		80
			81
	CoreStation	OSDP	82
	corestation	0351	
			88
			89
			90
			92
			93
			97
			106
	ID		118
	IP RTSP		120 123
	DM-20		123

	OM-120		125
	IM-120		126
	CoreStation		129
	Wiegand		135
			136
7			137
			138
	가		140
			140
			140
			142
			144
			145
			145
0			146
8			147 147
	가		149
	·		149
			150
			151
			153
			153
9			154
			155
			156
			157
			158
10			159
			160
			162
	CSV		166
		가	169
			172
	PIN		172
			173
			175

		177
		178
		185
	0.00	193
	QR/ 1:1	198
	1.1	200 201
		201
		202
		203
		204
		205
11		206
		206
		208
		210
		211
		212
		216
		218
		219
12		224
		224
		225
		228
		229
		230 231
		232
		233
		234
		235
		236
		238
		238
12		239

	NVR 가	243
	IP 가	245
	IP	246
14		248
		250
		250
		251
		257
		258
		260
		264
		268
		271
15		272
		273
		274
		276
		278
		278
		283
		284
		285
16		285 286
		286
		288
		289
17	BioStar 2	
17	biostal 2	290 291
	-1	
	가	292 295
		296
	Wiegand	297
		298
	Wiegand	298
	/	299

		302
		308
		310
		312
	HTTPS	313
		314
		315
	USB Agent	317
		318
		319
		320
		321
		322
		327
		329
		331
		336
	Airfob Portal	337
		339
		341
		345
		348
		350
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BioStar 2 PC ,

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	RS-485	OSDP
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BioStar 2.9.6

■ BioStar 2 Setting(.exe) UI
■ XPass 2(XP2-MAPB)
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■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.10.1

BioStation A2: 1.9.3

■ BioStation L2: 1.6.1

■ BioEntry W2: 1.8.0

FaceStation 2: 1.5.4

CoreStation: 1.7.1

■ BioEntry P2: 1.5.1

■ BioEntry R2: 1.4.1

■ BioLite N2: 1.6.0

XPass D2: 1.3.2

XPass D2 (Rev 2): 1.7.2

■ FaceLite: 1.3.4

XPass 2: 1.4.1

FaceStation F2: 2.1.4

■ X-Station 2: 1.3.0

■ OM-120: 1.2.1

Secure I/O 2: 1.3.1

■ DM-20: 1.2.2

IM-120: 1.0.0

BioStation 3: 1.2.1

■ BioStation 2a: 1.1.1

BioStar 2.9.5

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BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.1
- BioStation A2: 1.9.1
- BioStation L2: 1.6.1
- BioEntry W2: 1.8.0
- FaceStation 2: 1.5.4
- CoreStation: 1.7.1
- BioEntry P2: 1.5.1
- BioEntry R2: 1.4.1
- BioLite N2: 1.6.0
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.7.2
- FaceLite: 1.3.4
- XPass 2: 1.3.2
- FaceStation F2: 2.1.4
- X-Station 2: 1.2.3
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0
- BioStation 3: 1.2.1
- BioStation 2a: 1.1.0

• UI
. 가
 •
■ BioStation 2a
■ CoreStation

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.1
- BioStation A2: 1.9.1
- BioStation L2: 1.6.1
- BioEntry W2: 1.7.1
- FaceStation 2: 1.5.3
- CoreStation: 1.6.1
- BioEntry P2: 1.4.4
- BioEntry R2: 1.4.1
- BioLite N2: 1.6.0
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.7.1
- FaceLite: 1.3.4
- XPass 2: 1.3.2
- FaceStation F2: 2.1.4
- X-Station 2: 1.2.2
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0
- BioStation 3: 1.1.1
- BioStation 2a: 1.0.0

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XPass D2BioStation 3 QR
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- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.1
- BioStation A2: 1.9.1
- BioStation L2: 1.6.1
- BioEntry W2: 1.7.1
- FaceStation 2: 1.5.3
- CoreStation: 1.6.1
- BioEntry P2: 1.4.4
- BioEntry R2: 1.4.1
- BioLite N2: 1.5.0
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.7.1
- FaceLite: 1.3.4
- XPass 2: 1.3.2
- FaceStation F2: 2.1.3
- X-Station 2: 1.2.2
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0
- BioStation 3: 1.1.0

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- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.1
- BioStation A2: 1.9.1
- BioStation L2: 1.6.1
- BioEntry W2: 1.7.1
- FaceStation 2: 1.5.3
- CoreStation: 1.5.3
- BioEntry P2: 1.4.4
- BioEntry R2: 1.4.1
- BioLite N2: 1.5.0
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.7.0
- FaceLite: 1.3.4
- XPass 2: 1.3.2
- FaceStation F2: 2.1.2
- X-Station 2: 1.2.0
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0
- BioStation 3: 1.0.2

BioStar 2.9.1

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■ CSV		
■ CoreStation	OSDP	

■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.10.1

BioStation A2: 1.9.1

■ BioStation L2: 1.6.1

■ BioEntry W2: 1.7.1

FaceStation 2: 1.5.3

CoreStation: 1.5.3

BioEntry P2: 1.4.4

■ BioEntry R2: 1.4.1

■ BioLite N2: 1.5.0

XPass D2: 1.3.2

XPass D2 (Rev 2): 1.7.0

FaceLite: 1.3.4

XPass 2: 1.3.2

FaceStation F2: 2.1.2

■ X-Station 2: 1.2.0

OM-120: 1.2.1

Secure I/O 2: 1.3.1

DM-20: 1.2.2

■ IM-120: 1.0.0

■ BioStation 3: 1.0.2

BioStar 2.9.0

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■ 가
■ BioStation 3(BS3-DB, BS3-APWB)
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■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.10.1

■ BioStation A2: 1.9.1

■ BioStation L2: 1.6.1

■ BioEntry W2: 1.7.0

FaceStation 2: 1.5.2

CoreStation: 1.5.2

■ BioEntry P2: 1.4.3

BioEntry R2: 1.4.1

■ BioLite N2: 1.5.0

XPass D2: 1.3.2

XPass D2 (Rev 2): 1.6.0

■ FaceLite: 1.3.2

XPass 2: 1.3.1

FaceStation F2: 2.0.3

- X-Station 2: 1.1.3
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0

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- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.1
- BioStation A2: 1.9.1
- BioStation L2: 1.6.1
- BioEntry W2: 1.6.3
- FaceStation 2: 1.5.1
- CoreStation: 1.5.2
- BioEntry P2: 1.4.3
- BioEntry R2: 1.4.1
- BioLite N2: 1.4.1
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.6.0
- FaceLite: 1.3.2
- XPass 2: 1.2.4
- FaceStation F2: 2.0.3
- X-Station 2: 1.1.3

■ OM-120: 1.2.1

Secure I/O 2: 1.3.1

■ DM-20: 1.2.2

■ IM-120: 1.0.0

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setting.config	가	
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-	71	
- CSV	가	가
1 C3V	가	71
■ QR	가	
■ USB Device Agent		
•	가	
■ CoreStation	X-Station 2	
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•	BioStar 2	

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.1
- BioStation A2: 1.9.1
- BioStation L2: 1.6.1
- BioEntry W2: 1.6.3
- FaceStation 2: 1.5.1
- CoreStation: 1.5.2
- BioEntry P2: 1.4.3
- BioEntry R2: 1.4.1
- BioLite N2: 1.4.1
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.6.0
- FaceLite: 1.3.2
- XPass 2: 1.2.4
- FaceStation F2: 1.1.4
- X-Station 2: 1.1.3
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0

■ Log4j 2 2.17.1
N .

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.0
- BioStation A2: 1.9.0
- BioStation L2: 1.6.1
- BioEntry W2: 1.6.3
- FaceStation 2: 1.5.1
- CoreStation: 1.5.2
- BioEntry P2: 1.4.3
- BioEntry R2: 1.4.1
- BioLite N2: 1.4.1
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.5.0
- FaceLite: 1.3.1
- XPass 2: 1.2.4
- FaceStation F2: 1.1.2
- X-Station 2: 1.1.2
- OM-120: 1.2.1
- Secure I/O 2: 1.3.1
- DM-20: 1.2.2
- IM-120: 1.0.0

■ OpenJDK ■ Log4j 2 2.16.0
■ Log4j 2 2.16.0
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■ Swagger API

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 ■ BioStar 1.x to BioStar 2.x Migration Tool 26 bit Wiegand
 ■ CSV PIN
■ Input Module (IM-120)
■ CoreStation 1:N
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■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.10.0

■ BioStation A2: 1.9.0

BioStation L2: 1.6.1

BioEntry W2: 1.6.3

FaceStation 2: 1.5.0

CoreStation: 1.5.2

■ BioEntry P2: 1.4.2

■ BioEntry R2: 1.4.1

■ BioLite N2: 1.4.1

XPass D2: 1.3.2

XPass D2 (Rev 2): 1.5.0

■ FaceLite: 1.3.0

XPass 2: 1.2.4

■ FaceStation F2: 1.1.2

X-Station 2: 1.1.0

■ OM-120: 1.2.0

Secure I/O 2: 1.3.0

■ DM-20: 1.2.1

■ IM-120: 1.0.0

BioStar 2.8.13

■ API 가
■ 가 SSL
■ TLS 1.2
■ Swagger TA API
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■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

■ XPass S2: 2.4.4

■ BioStation 2: 1.10.0

■ BioStation A2: 1.9.0

BioStation L2: 1.6.1

BioEntry W2: 1.6.3

FaceStation 2: 1.5.0

CoreStation: 1.5.1

BioEntry P2: 1.4.1

■ BioEntry R2: 1.4.1

■ BioLite N2: 1.4.0

XPass D2: 1.3.2

XPass D2 (Rev 2): 1.5.0

■ FaceLite: 1.3.0

- XPass 2: 1.2.3
- FaceStation F2: 1.1.1
- X-Station 2: 1.1.0
- OM-120: 1.2.0
- Secure I/O 2: 1.3.0
- DM-20: 1.2.1

■ X-Station 2	(XS2-ODPB, XS2-OAPB)

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.10.0
- BioStation A2: 1.9.0
- BioStation L2: 1.6.1
- BioEntry W2: 1.6.3
- FaceStation 2: 1.5.0
- CoreStation: 1.5.1
- BioEntry P2: 1.4.1
- BioEntry R2: 1.4.1
- BioLite N2: 1.4.0
- XPass D2: 1.3.2
- XPass D2 (Rev 2): 1.5.0
- FaceLite: 1.3.0
- XPass 2: 1.2.3
- FaceStation F2: 1.1.1
- X-Station 2: 1.0.3

- OM-120: 1.2.0
- Secure I/O 2: 1.3.0
- DM-20: 1.2.1

■ Swagger API
 •
•
 - QR/
X-Station 2 (XS2-QDPB, XS2-QAPB, XS2-DPB, XS2-APB)
• QR/

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.9.0
- BioStation A2: 1.8.0
- BioStation L2: 1.6.1
- BioEntry W2: 1.6.3
- FaceStation 2: 1.4.2
- CoreStation: 1.5.1
- BioEntry P2: 1.4.1
- BioEntry R2: 1.4.1
- BioLite N2: 1.3.2
- XPass D2: 1.3.2

XPass D2 (Rev 2): 1.5.0

FaceLite: 1.2.0

XPass 2: 1.2.3

■ FaceStation F2: 1.0.5

X-Station 2: 1.0.1

■ OM-120: 1.2.0

Secure I/O 2: 1.3.0

■ DM-20: 1.2.1

BioStar 2.8.10

■ New Local API	
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• '	(Drag&Drop)
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 □ <i>P</i> }	
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OSDP Intelligent Slave	
■ FaceStation 2, FaceStation F2	
•	

■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.9.0

■ BioStation A2: 1.8.0

■ BioStation L2: 1.6.0

■ BioEntry W2: 1.6.2

FaceStation 2: 1.4.0

CoreStation: 1.4.1

■ BioEntry P2: 1.4.0

■ BioEntry R2: 1.4.0

BioLite N2: 1.3.2

XPass D2: 1.3.1

XPass D2 (Rev 2): 1.4.2

■ FaceLite: 1.2.0

XPass 2: 1.2.2

■ FaceStation F2: 1.0.2

■ OM-120: 1.2.0

Secure I/O 2: 1.3.0

■ DM-20: 1.2.0

BioStar 2.8.9

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■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

■ XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.9.0

■ BioStation A2: 1.8.0

■ BioStation L2: 1.6.0

BioEntry W2: 1.6.1

■ FaceStation 2: 1.4.0

CoreStation: 1.4.1

■ BioEntry P2: 1.4.0

■ BioEntry R2: 1.4.0

BioLite N2: 1.3.2

XPass D2: 1.3.1

XPass D2 (Rev 2): 1.4.2

■ FaceLite: 1.2.0

XPass 2: 1.2.2

FaceStation F2: 1.0.1

OM-120: 1.2.0

Secure I/O 2: 1.3.0

DM-20: 1.2.0

BioStar 2.8.8

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■ New Local API
■ CSV
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• ' '

■ BioLite Net: 2.3.5

- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.9.0
- BioStation A2: 1.7.1
- BioStation L2: 1.6.0
- BioEntry W2: 1.6.0
- FaceStation 2: 1.4.0
- CoreStation: 1.4.1
- BioEntry P2: 1.4.0
- BioEntry R2: 1.4.0
- BioLite N2: 1.3.2
- XPass D2: 1.3.1
- XPass D2 (Rev 2): 1.4.2
- FaceLite: 1.1.0
- XPass 2: 1.2.2
- FaceStation F2: 1.0.0
- OM-120: 1.2.0
- Secure I/O 2: 1.3.0
- DM-20: 1.2.0

BioStar 2.8.6

■ FaceStation 2
FaceStation F2BioEntry W2 (Rev 2)

■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

- BioStation 2: 1.8.0
- BioStation A2: 1.7.1
- BioStation L2: 1.6.0
- BioEntry W2: 1.5.0
- FaceStation 2: 1.3.1
- CoreStation: 1.4.0
- BioEntry P2: 1.4.0
- BioEntry R2: 1.4.0
- BioLite N2: 1.3.1
- XPass D2: 1.3.1
- XPass D2 (Rev 2): 1.4.1
- FaceLite: 1.1.0
- XPass 2: 1.2.1
- OM-120: 1.2.0
- Secure I/O 2: 1.3.0
- DM-20: 1.2.0

Wiegand
•

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.8.0
- BioStation A2: 1.7.1
- BioStation L2: 1.6.0
- BioEntry W2: 1.5.0
- FaceStation 2: 1.3.1
- CoreStation: 1.4.0
- BioEntry P2: 1.4.0
- BioEntry R2: 1.4.0
- BioLite N2: 1.3.1
- XPass D2: 1.3.1
- XPass D2 (Rev 2): 1.4.1
- FaceLite: 1.1.0

XPass 2: 1.2.1

■ OM-120: 1.2.0

Secure I/O 2: 1.3.0

■ DM-20: 1.2.0

BioStar 2.8.4

 New Local API Web-App, CGI server system.conf TLS V1.1 Thrift Redis
- CSV

■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.8.0

■ BioStation A2: 1.7.1

BioStation L2: 1.5.1

■ BioEntry W2: 1.5.0

FaceStation 2: 1.3.1

CoreStation: 1.4.0

BioEntry P2: 1.4.0

BioEntry R2: 1.4.0

■ BioLite N2: 1.3.1

XPass D2: 1.3.1

XPass D2 (Rev 2): 1.4.1

■ FaceLite: 1.1.0

XPass 2: 1.2.1

■ OM-120: 1.2.0

Secure I/O 2: 1.3.0

■ DM-20: 1.2.0

BioStar 2.8.3

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CoreStationBioLite N2
•
•

■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.8.0

■ BioStation A2: 1.7.1

BioStation L2: 1.5.1

BioEntry W2: 1.4.1

FaceStation 2: 1.3.1

CoreStation: 1.4.0

BioEntry P2: 1.4.0

■ BioEntry R2: 1.4.0

BioLite N2: 1.3.0

XPass D2: 1.3.0

XPass D2 (Rev 2): 1.4.0

FaceLite: 1.1.0

XPass 2: 1.2.1

■ OM-120: 1.1.0

Secure I/O 2: 1.3.0

■ DM-20: 1.2.0

■ LFI(Local File Inclusion)

BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

BioEntry W: 2.3.4

■ XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.8.0

■ BioStation A2: 1.7.1

■ BioStation L2: 1.5.1

BioEntry W2: 1.4.1

FaceStation 2: 1.3.1

CoreStation: 1.3.1

BioEntry P2: 1.3.1

BioEntry R2: 1.4.0

BioLite N2: 1.2.0

XPass D2: 1.3.0

XPass D2 (Rev 2): 1.4.0

FaceLite: 1.1.0

XPass 2: 1.2.0

■ OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.5

BioStar 2.8.1

• MS SQL	Server 2019			
•	1	1 1	1	

■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

BioEntry W: 2.3.4

■ XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.8.0

BioStation A2: 1.7.1

BioStation L2: 1.5.1

BioEntry W2: 1.4.1

FaceStation 2: 1.3.1

CoreStation: 1.3.1

BioEntry P2: 1.3.1

BioEntry R2: 1.4.0

BioLite N2: 1.2.0

XPass D2: 1.3.0

XPass D2 (Rev 2): 1.4.0

FaceLite: 1.1.0
XPass 2: 1.2.0
OM-120: 1.1.0
Secure I/O 2: 1.2.4

■ DM-20: 1.1.5

BioStar 2.8.0

■ DB

BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.8.0

■ BioStation A2: 1.7.1

■ BioStation L2: 1.5.1

BioEntry W2: 1.4.1

FaceStation 2: 1.3.0

CoreStation: 1.3.1

BioEntry P2: 1.3.1

BioEntry R2: 1.3.1

BioLite N2: 1.2.0

XPass D2: 1.2.0

XPass D2 (Rev 2): 1.4.0

FaceLite: 1.1.0

XPass 2: 1.1.0

■ OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.5

BioStar 2.7.14

• MS SQL		Windows Authentication
MS SQL Server 2017BioStar 2 API	API	
■ XPass D2 (Rev 2)		
•		

■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

■ XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.8.0

BioStation A2: 1.7.1

BioStation L2: 1.5.1

BioEntry W2: 1.4.1

FaceStation 2: 1.3.0

CoreStation: 1.3.1

BioEntry P2: 1.3.1

BioEntry R2: 1.3.1

BioLite N2: 1.2.0

XPass D2: 1.2.0

FaceLite: 1.1.0

XPass 2: 1.1.0

■ OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.5

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BioLite Net: 2.3.5BioEntry Plus: 2.3.4

BioEntry W: 2.3.4XPass: 2.4.4XPass S2: 2.4.4BioStation 2: 1.8.0

BioStation A2: 1.7.0BioStation L2: 1.5.1

■ BioEntry W2: 1.4.1

FaceStation 2: 1.3.0

CoreStation: 1.3.1BioEntry P2: 1.3.1

BioEntry R2: 1.3.1

BioLite N2: 1.2.0

XPass D2: 1.2.0FaceLite: 1.1.0

XPass 2: 1.1.0OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.5

BioStar 2.7.11

■ IP 가
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■ ID,
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BioLite Net: 2.3.5BioEntry Plus: 2.3.4BioEntry W: 2.3.4

XPass: 2.4.4XPass S2: 2.4.4

- BioStation 2: 1.8.0
- BioStation A2: 1.7.0
- BioStation L2: 1.5.1
- BioEntry W2: 1.4.1
- FaceStation 2: 1.3.0
- CoreStation: 1.3.0
- BioEntry P2: 1.3.1
- BioEntry R2: 1.3.1
- BioLite N2: 1.2.0
- XPass D2: 1.2.0
- FaceLite: 1.1.0
- XPass 2: 1.1.0
- OM-120: 1.1.0
- Secure I/O 2: 1.2.4
- DM-20: 1.1.5

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-	/	가
• USB	(BioMini, BioMini Plus,	

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.8.0
- BioStation A2: 1.7.0
- BioStation L2: 1.5.0
- BioEntry W2: 1.4.0
- FaceStation 2: 1.3.0
- CoreStation: 1.3.0

BioEntry P2: 1.3.0

BioEntry R2: 1.3.0

■ BioLite N2: 1.2.0

XPass D2: 1.2.0

• FaceLite: 1.1.0

XPass 2: 1.0.1OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.5

BioStar 2.7.8

CoreStation
Wiegand
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■ BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

■ XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.7.1

■ BioStation A2: 1.6.0

■ BioStation L2: 1.5.0

BioEntry W2: 1.4.0

FaceStation 2: 1.2.1

CoreStation: 1.3.0

BioEntry P2: 1.3.0

BioEntry R2: 1.3.0

BioLite N2: 1.1.0

XPass D2: 1.2.0

■ FaceLite: 1.0.0

XPass 2: 1.0.0

- OM-120: 1.1.0
- Secure I/O 2: 1.2.4
- DM-20: 1.1.4

BioStar 2.7.7

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•	가
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- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.7.1
- BioStation A2: 1.6.0
- BioStation L2: 1.4.0
- BioEntry W2: 1.3.0
- FaceStation 2: 1.2.1
- CoreStation: 1.2.0
- BioEntry P2: 1.2.0
- BioEntry R2: 1.2.0
- BioLite N2: 1.1.0
- XPass D2: 1.1.0
- OM-120: 1.1.0
- Secure I/O 2: 1.2.4
- DM-20: 1.1.4

■ BioStar 1.x to BioStar 2.x Migration Tool 가
• APB

•		가	
•		가	
•	FastCGI	9000	

BioLite Net: 2.3.5
BioEntry Plus: 2.3.4
BioEntry W: 2.3.4
XPass: 2.4.4
XPass S2: 2.4.4
BioStation 2: 1.7.1
BioStation A2: 1.6.0
BioStation L2: 1.4.0
BioEntry W2: 1.3.0
FaceStation 2: 1.2.1
CoreStation: 1.2.0

BioEntry R2: 1.2.0BioLite N2: 1.1.0XPass D2: 1.1.0OM-120: 1.1.0

BioEntry P2: 1.2.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.4

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RS-485AoCFaceStation 2
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■ AoC
・ プト・ Setting.conf 9000 AoC

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.7.1
- BioStation A2: 1.6.0
- BioStation L2: 1.4.0
- BioEntry W2: 1.3.0
- FaceStation 2: 1.2.1
- CoreStation: 1.2.0
- BioEntry P2: 1.2.0
- BioEntry R2: 1.2.0
- BioLite N2: 1.1.0
- XPass D2: 1.1.0
- OM-120: 1.1.0
- Secure I/O 2: 1.2.4
- DM-20: 1.1.4

FaceStation 2 (FaceStation 2	1.2.2)	
• ,	:	, ID가	
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- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.7.1
- BioStation A2: 1.6.0
- BioStation L2: 1.4.0
- BioEntry W2: 1.3.0
- FaceStation 2: 1.2.1
- CoreStation: 1.2.0
- BioEntry P2: 1.2.0

BioEntry R2: 1.2.0

■ BioLite N2: 1.1.0

XPass D2: 1.1.0

■ OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.4

BioStar 2.7.3

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■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.4

BioEntry W: 2.3.4

■ XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.7.0

■ BioStation A2: 1.6.0

BioStation L2: 1.4.0

BioEntry W2: 1.3.0

■ FaceStation 2: 1.2.0

CoreStation: 1.2.0

BioEntry P2: 1.2.0

BioEntry R2: 1.2.0

■ BioLite N2: 1.1.0

XPass D2: 1.1.0

■ OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.4

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BioLite Net: 2.3.5

■ BioEntry Plus: 2.3.4

■ BioEntry W: 2.3.4

XPass: 2.4.4

XPass S2: 2.4.4

■ BioStation 2: 1.7.0

BioStation A2: 1.6.0

■ BioStation L2: 1.4.0

BioEntry W2: 1.3.0

FaceStation 2: 1.2.0

CoreStation: 1.2.0

BioEntry P2: 1.2.0

BioEntry R2: 1.2.0

■ BioLite N2: 1.1.0

XPass D2: 1.1.0

■ OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.4

■ OM-120	(1)	
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BioLite Net: 2.3.5
BioEntry Plus: 2.3.4
BioEntry W: 2.3.4
XPass: 2.4.4
XPass S2: 2.4.4

BioStation 2: 1.7.0BioStation A2: 1.6.0BioStation L2: 1.4.0

BioEntry W2: 1.3.0FaceStation 2: 1.2.0CoreStation: 1.2.0

BioEntry P2: 1.2.0BioEntry R2: 1.2.0BioLite N2: 1.1.0

BioLite N2: 1.1.0XPass D2: 1.1.0OM-120: 1.1.0

Secure I/O 2: 1.2.4

■ DM-20: 1.1.4

BioStar 2.7.0

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BioLite Net: 2.3.5BioEntry Plus: 2.3.4BioEntry W: 2.3.4

- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.7.0
- BioStation A2: 1.6.0
- BioStation L2: 1.4.0
- BioEntry W2: 1.3.0
- FaceStation 2: 1.2.0
- CoreStation: 1.2.0
- BioEntry P2: 1.2.0
- BioEntry R2: 1.2.0
- BioLite N2: 1.1.0
- XPass D2: 1.1.0
- OM-120: 1.1.0
- Secure I/O 2: 1.2.4
- DM-20: 1.1.4

BioStar 2.6.4

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- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4
- BioStation 2: 1.6.2
- BioStation A2: 1.5.1
- BioStation L2: 1.3.2
- BioEntry W2: 1.2.3
- FaceStation 2: 1.1.1
- CoreStation: 1.1.2
- BioEntry P2: 1.1.2
- BioEntry R2: 1.1.1
- BioLite N2: 1.0.2
- XPass D2: 1.0.2
- OM-120: 1.0.0
- Secure I/O 2: 1.2.1
- DM-20: 1.1.2

BioStar 2.6.3

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■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.3

■ BioEntry W: 2.3.3

XPass: 2.4.4

XPass S2: 2.4.4

BioStation 2: 1.6.1

BioStation A2: 1.5.1

BioStation L2: 1.3.1

BioEntry W2: 1.2.1

FaceStation 2: 1.1.1

CoreStation: 1.1.1

BioEntry P2: 1.1.1

BioEntry R2: 1.1.0

■ BioLite N2: 1.0.2

XPass D2: 1.0.1

■ OM-120: 1.0.0

Secure I/O 2: 1.2.1

■ DM-20: 1.1.2

BioStar 2.6.2

• (USB)	l.	가
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• (USB)	가	

■ BioLite Net: 2.3.5

BioEntry Plus: 2.3.3

■ BioEntry W: 2.3.3

■ XPass: 2.4.4

XPass S2: 2.4.4
BioStation 2: 1.6.1
BioStation A2: 1.5.1
BioStation L2: 1.3.1
BioEntry W2: 1.2.1
FaceStation 2: 1.1.1
CoreStation: 1.1.1
BioEntry P2: 1.1.1
BioEntry R2: 1.1.0
BioLite N2: 1.0.2
XPass D2: 1.0.1
OM-120: 1.0.0

Secure I/O 2: 1.2.1 DM-20: 1.1.2

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■ ID 가 ■ iCLASS Seos		
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WiegandAoC		
Wiegand Legacy		
 -		
BioLite N2XPass D2		
■ BioMini Plus 2		
•	()
 Wiegand In/Out		
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MS SQL		
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- BioLite Net: 2.3.3
 BioEntry Plus: 2.3.3
 BioEntry W: 2.3.3
 XPass: 2.4.3
 XPass S2: 2.4.3
 BioStation 2: 1.6.0
 BioStation A2: 1.5.0
 BioStation L2: 1.3.0
 BioEntry W2: 1.2.0
 FaceStation 2: 1.1.0
 CoreStation: 1.1.0
- BioEntry P2: 1.1.0BioEntry R2: 1.1.0BioLite N2: 1.0.0XPass D2: 1.0.0
- OM-120: 1.0.0Secure I/O 2: 1.2.1
- DM-20: 1.1.2

httpsOracle	
CoreStationBioEntry P2BioEntry R2	
 •	(BioLite Net)
• ()	
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■ NVR (ACTi, Dahua, Hikvis ■ IP	sion)
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BioLite Net: 2.3.3
BioEntry Plus: 2.3.3
BioEntry W: 2.3.3
XPass: 2.4.3
XPass S2: 2.4.3
BioStation 2: 1.5.0
BioStation A2: 1.4.0
BioStation L2: 1.2.3
BioEntry W2: 1.1.4
FaceStation 2: 1.0.3
CoreStation: 1.0.0
BioEntry P2: 1.0.0

BioEntry R2: 1.0.0

BioStar 2.4.1

•	(NFC, BLE)		
■ FaceStation 2			
• UI/UX			
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•			가
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BioLite Net: 2.3.0
BioEntry Plus: 2.3.0
BioEntry W: 2.3.0
XPass: 2.4.1
XPass S2: 2.4.0
BioStation 2: 1.4.0
BioStation A2: 1.3.0
BioStation L2: 1.2.2
BioEntry W2: 1.1.2
FaceStation 2: 1.0.0

BioStar 2.4.0

Oracle Database 11g, 12c
■ OM-120 ■ USB (DUALi DE-620) ■ BioStar 2
■ PDF
■ ID (/) ■ dd/mm/yyyy

BioLite Net: 2.3.0
BioEntry Plus: 2.3.0
BioEntry W: 2.3.0
XPass: 2.4.0
XPass S2: 2.4.0
BioStation 2: 1.4.0
BioStation A2: 1.3.0
BioStation L2: 1.2.2
BioEntry W2: 1.1.2

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■ CSV 가 /
BioStation A2 (SIP)
■ 가
WiegandWiegandBioStar 2 (.wav, .mp3)

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BioLite Net: 2.3.0BioEntry Plus: 2.3.0

BioEntry W: 2.3.0XPass: 2.3.0

XPass S2: 2.3.0BioStation 2: 1.3.0BioStation A2: 1.2.0

BioStation L2: 1.1.0BioEntry W2: 1.0.0

BioStar 2.2.2

BioEntry W2

■ BioLite Net: 2.2.3

BioEntry Plus: 2.2.3

BioEntry W: 2.2.3XPass: 2.2.3

XPass S2: 2.2.3

BioStation 2: 1.3.0

BioStation A2: 1.1.0

■ BioStation L2: 1.0.0

BioEntry W2: 1.0.0

BioStar 2.2.1

BioStation L2

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■ 가

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■ BioLite Net: 2.2.3

BioEntry Plus: 2.2.3

BioEntry W: 2.2.3

XPass: 2.2.3

XPass S2: 2.2.3

■ BioStation 2: 1.3.0

■ BioStation A2: 1.1.0

■ BioStation L2: 1.0.0

BioStar 2.2.0

BioStation A2

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BioLite Net: 2.2.3

BioEntry Plus: 2.2.3

BioEntry W: 2.2.3

XPass: 2.2.3

XPass S2: 2.2.3

BioStation 2: 1.2.0

BioStation A2: 1.0.0

BioStar 2.1.0

- BioStar 2 API
- DM-20, Wiegand

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- BioStar 2
- BioStar 2

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- BioLite Net: 2.0.4
- BioEntry Plus: 2.0.4
- BioEntry W: 2.0.4
- XPass: 2.0.4

- XPass S2: 2.0.4
- BioStation 2: 1.0.1

BioStar 2.0.1

- BioStation 2
- LAN
- T&A
- •
- _
- CSV //
- .
- BioStar 2
- BioLite Net: 2.0.0BioEntry Plus: 2.0.0BioEntry W: 2.0.0
- XPass: 2.0.0XPass S2: 2.0.0

BioStar 2 PC BioStar 2

BioStar 2

BioStar 2

BioStar 2 (https://www.supremainc.com)

BioStar 2

BioStar 2

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		Windows 11, Window 2012, Windows Server Server 2019, Windows Mac OS	Windows 8, Windows 8. s Server 2008 R2(SP2 r 2012 R2, Windows Serves Server 2022 Windows 7† SQL Server 2012 SP3, M:), Windows Server ver 2016, Windows
)	CPU		TLS 1.0 1.1 4 GHz	
	RAM	8 GB	16 GB	32 GB
	SSD	512 GB	1 TB	1 TB
	CPU	1 GHz	1 GHz	1 GHz
(RAM	4 GB	4 GB	4 GB
		Google 100		

BioStar 2 Video Extension

CPU	4 GHz	4 GHz
RAM	8 GB	16 GB
HDD	2 TB	4 TB



- 64bit .
- BioStar 2 Google
- 64bits MariaDB MS SQL
- BioStar 2 Windows 7 Windows 7 Microsoft
- Windows 8.1 Windows Server 2012 R2

KB2919355

https://support.microsoft.com/ko-kr/help/2919355/windows-rt-8-1--windows-8-1--and-windows-server-2012-r2-update-april-2

■ MS SQL Server BioStar 27 PC BioStar 27 PC Native Client .

https://www.microsoft.com/ko-kr/download/details.aspx?id=50402

Oracle Database

BioStar 2

BioStar 2 32 64 .BioStar 2 PC

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■ BioStar 2.9.2 32

BioStar 1 PC BioStar 2 . 가

■ BioStar 2.2.1 2.2.2 BioStar 2.3.0 SQLite

MariaDB

■ BioStar 2 2.6.0 .BioStar 2.6.0

, 2.6.0 BioStar 2

2	2.2.1 > 2.3 > 2.4 > 2.4.1 > 2.5.0 > 2.6.4 >
2.2	
2.2.1	2.3 > 2.4 > 2.4.1 > 2.5.0 > 2.6.4 >
2.2.2	
2.3	2.4 > 2.4.1 > 2.5.0 > 2.6.4 >
2.4	2.4.1 > 2.5.0 > 2.6.4 >
2.5	2.6.4 >
2.6	2.0.4 >
2.6.4	

•	Windows 8.1	Windows Server 2	2012 R2			
	KB2919355		1 /1 1 /001	00557	104	0.4
		microsoft.com/ko	9355/WINDOWS-	rt-8-1window	'S-8-1and-	
		-2012-r2-update-a	prii-2			
•	MS SQL 2012 Ex				3	•
		crosoft.com/ko-kr	/download/c	details.aspx?id=		
•	MS SQL 2014 Ex				2	•
		crosoft.com/ko-kr				
•	MS SQL Server	BioStar 2가	PC		BioStar 2가	PC
	Native Client					
	https://www.mi	crosoft.com/ko-kr	/download/c	details.aspx?id=	:50402	
•	MS SQL Server			Collation	CI (Case-inse	nsitive)
•	BioS	tar 2				•
	,AC	TA			TA	
•	BioStar 2		\Program Fi	les\BioStar 2(x&	64)\util ei	nckey
	\Program Files\	3ioStar 2(x64)	system.co	nf, setting.con	f	
		,				
	BioStar 2가					
	BioStar 2가					
	포트					
	• HTTP Z E	80 사용가능		• HTTPS 포트	443 사용 가능	
	• 웹소켓 포트	9002 사용가능		• API 포트	9010 사용가능	
	 데이터베이스 포 근태 HTTPS 포 			• 근태 HTTP 포트 • 근태 클라우드 포트	3000	
	• FastCGI 포트	9000 🖋 사용가능		• 통합 게이트웨이 HTTP 포트		
	• 통합 게이트웨이	HTTPS 포트 5002		• 리포트 HTTP 포트	4213 사용가능	
	• 리포트 HTTPS :	포트 4214 사용 가능				
가			BioStar 2			
	MariaDB					
	■ my.cr	nf [mys	aldl			

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```
character-set-server=utf8
          collation-server=utf8_unicode_ci
          max\_connections = 600
                                                         가
         my.cnf
                          [mysqld]
          log_bin_trust_function_creators = 1
          group\_concat\_max\_len = 102400
         root
                     MariaDB
          > GRANT SUPER ON . TO user_id@'localhost' IDENTIFIED BY "r
          > GRANT SUPER ON . TO user_id@'%' IDENTIFIED BY "password"
MS SQL Server
                                  Collation
         CI(case-insensitive)
     a) SQL Server
                                       SQLEXPRESS
         TCP/IP
     b)
                       SQL Server
     a) SQL Server Management Studio SQL Server
                                                                sa
     b)
                                             SQL Server
     c)
     d)
     e)
     f)
     g)
     h)
                                                     c)
```

i) (MB) 3000 가 / 10MB **Windows Authentication** Microsoft Windows Active Directory Windows Authentication a) SQL Server Management Studio b) c) Windows **Active Directory** d) g) **sysadmin** h) dbo i) ac, master, ta, ve j) 2. Active Directory MS SQL Windows Authentication a) services.msc MSSQL DB > 1433 가 . b) Windows c) MS SQL ac, ta, ve sysadmin d) MS SQL 가 Windows Authentication sysadmin ac, ta, ve e) services.msc f) g) MS SQL ODBC

3.

a) SQL Server SQL Native Client

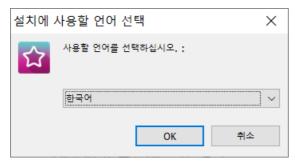
- b) TCP/IP
- c) SQL Server SQLEXPRESS

.

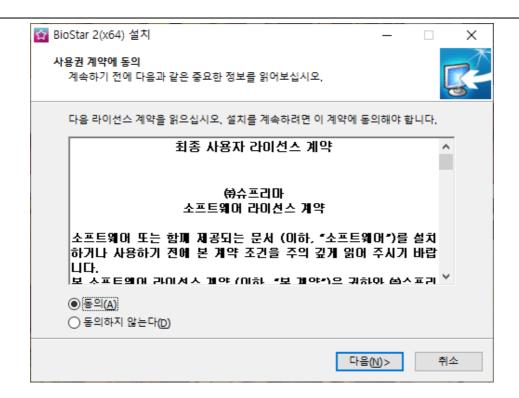
- d) TCP/IP ODBC 가
- e) SQL Server Management Studio
- f) > NT AUTHORITY\SYSTEM
- g)
- h) **public**, **sysadmin**
- i)
- j) ac, master, ta, ve

1) .(ex. 'BioStar 2 Setup.x.x.x.xxx.exe')

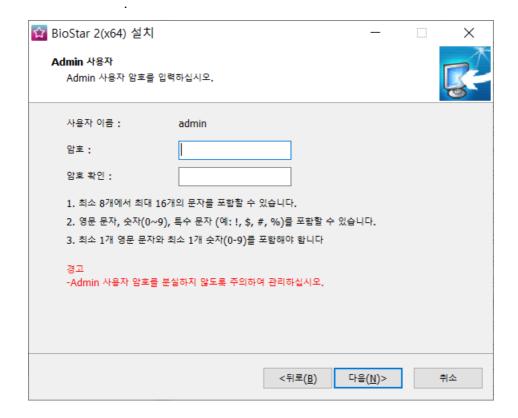
2) **OK**



3) .

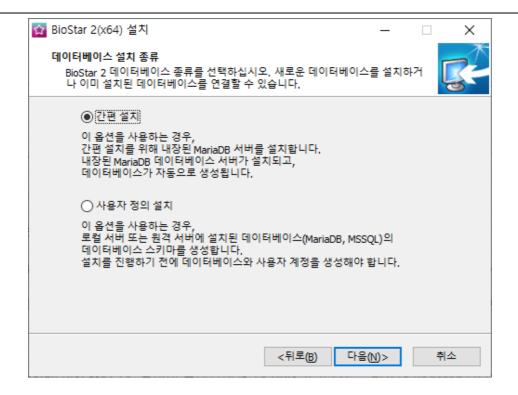


4) BioStar 2

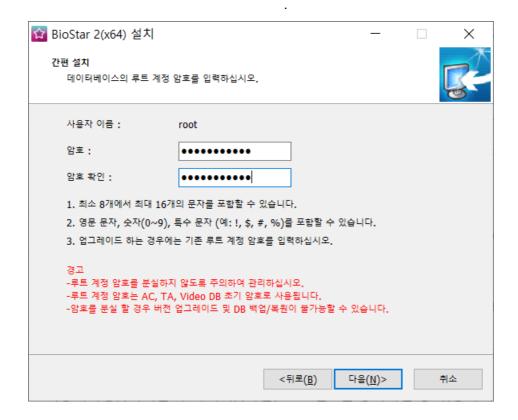


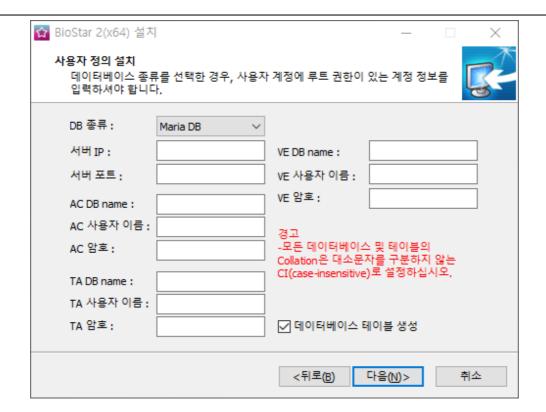
5) BioStar 2 . MariaDB . MariaDB

.BioStar 2



6)



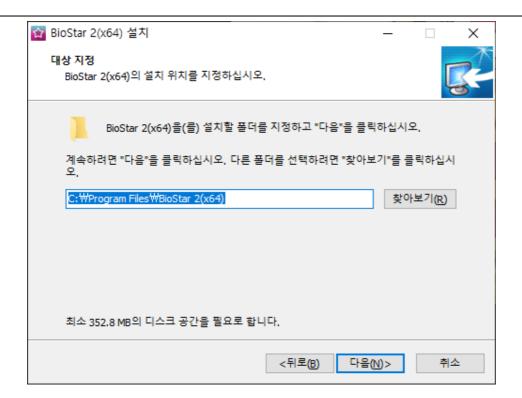


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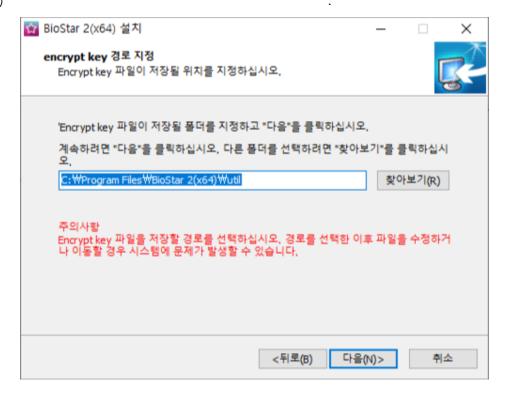
- BioStar 2가
 - MariaDB 10.1.10
 - MS SQL Server 2012 SP3
 - MS SQL Server 2014 SP2
 - MS SQL Server 2016 SP1
 - MS SQL Server 2017
 - MS SQL Server 2019
 - MS SQL TLS 1.0 1.1
- MS SQL Server C:

\Program Files\BioStar 2(x64)\dbscript\mssql

- AC DB name, TA DB name, VE DB name
- 7) BioStar 2



8)



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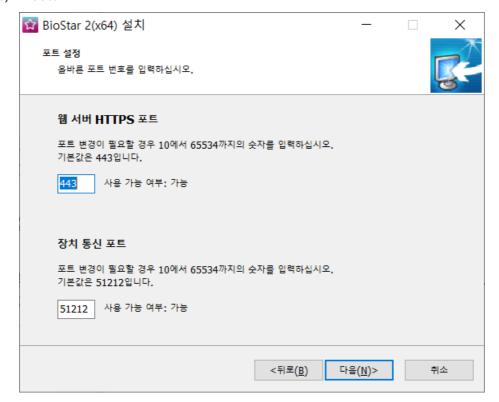
가

BioStar 2

9)



10) BioStar 2

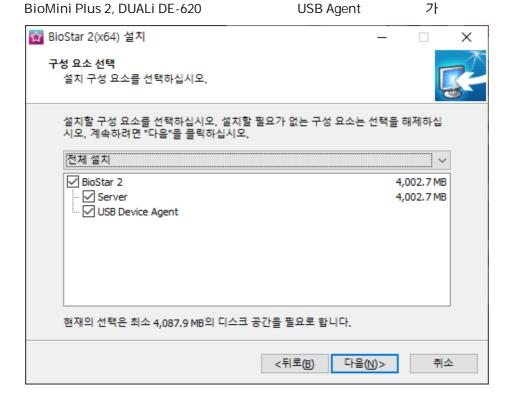


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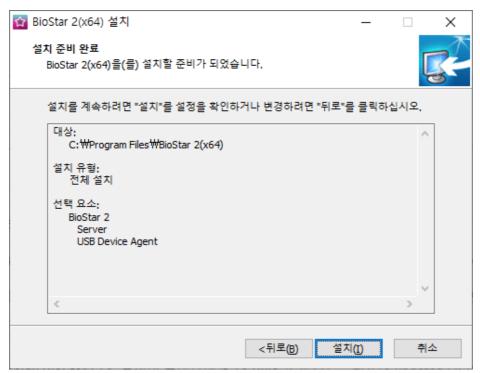
■ BioStar 1 BioStar 2 PC (51212)

BioStar 1

11) BioStar 2 .USB Device Agent BioMini,



12) 가 .



13) 가



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USB Device Agent

■ 443 BioStar 2 Setting

BioStar 2

■ BioStar 2

BioStar 2

1)

100

2) BioStar 2

■ BioStar 2 PC https://127.0.0.1'

■ BioStar 2 PC https://BioStar 2 IP

■ 'Localhost' BioStar 2

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■ BioStar 2 443 .443

. BioStar Setting'

. BioStar 2

3) . admin ,

가

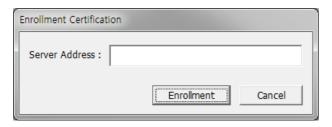
▲ 안전하지 않음 │ Ы₩ps://127.0.0.1/#/login

4) HTTPS BioStar 27 PC IP .HTTPS



5) cert-register.exe .Enrollment Certification

6) BioStar 2가 PC IP **Enrollment**

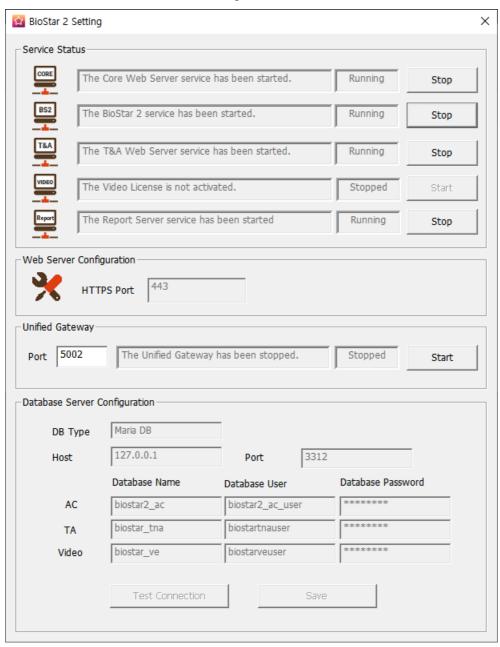


7)



BioStar 2

1) BioStar 2 > BioStar 2 Setting



2) Stop



3) Start



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■ BioStar 2 Core Web Server
BioStar 27 .

BioStar 2

BioStar 2 BioStar 27 443 BioStar 2 Setting

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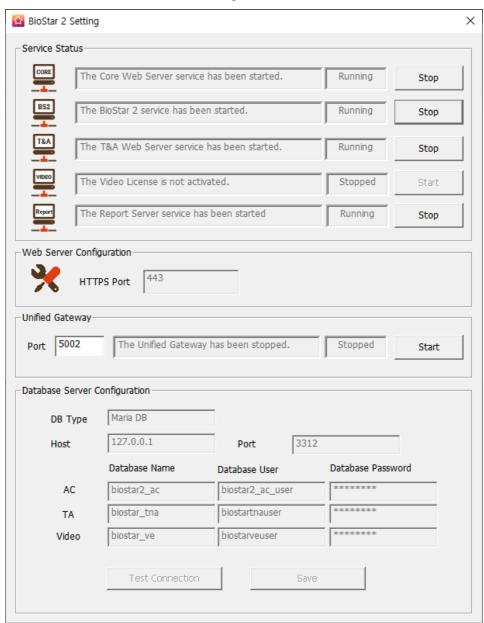
■ MS SQL BioStar 2

BioStar 2

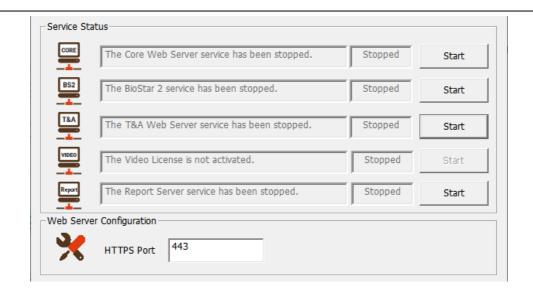
BioStar 2 Setting

(HTTPS)

1) # > BioStar 2 > BioStar 2 Setting



- 2) BioStar 2 **Stop** .HTTPS Port가
- 3) HTTPS Port .



- 4) BioStar 2 **Start**
- 5) BioStar 2 . 450' IP address: 450'



1) BioStar 2 .BioStar 2 가



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3)

BioStar 2 .

BioStar 2

iframe SSL .

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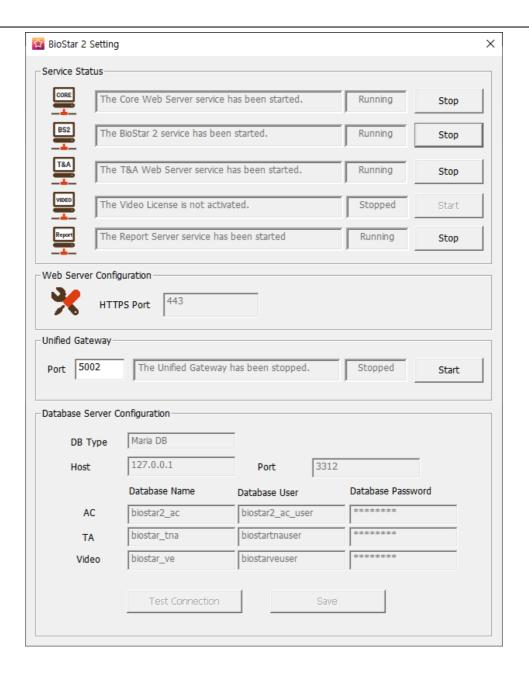
■ BioStar 2 ,

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- **HTTPS** : 5002 - **HTTP** : 5000

BioStar 2 Setting

1) BioStar 2 > BioStar 2 Setting



2) Unified Gateway Start . 가



• 가

■ 가

3) HTTPS HTTPS Port 가 5002 Unified
Gateway Port 443 .
Stop Unified Gateway



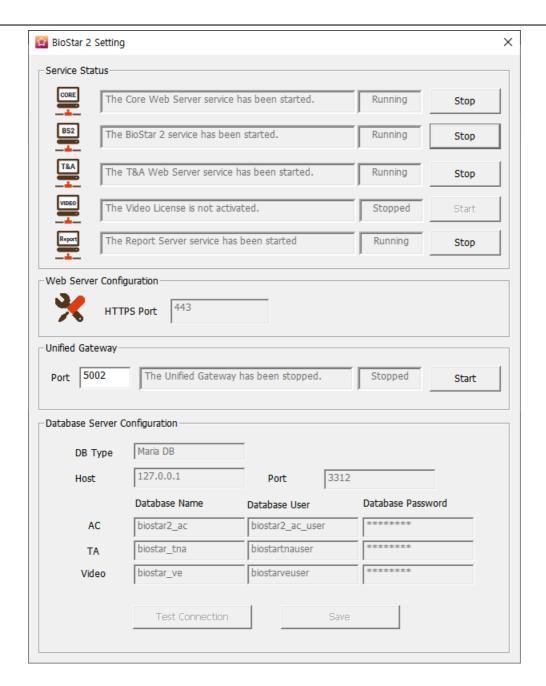
BioStar 2



BioStar 2

BioStar 2

1) SioStar 2 > BioStar 2 Setting



2) BioStar 2 Stop Database Server Configuration

3) 4) 5)

1

	Database Server C	onfiguration —————						
	DB Type	Maria DB						
	Host	127.0.0.1	Port	3312				
		Database Name	Database User		Database Password			
	AC	biostar2_ac	biostar2_ac_user		******			
	TA	biostar_tna	biostartnauser		******			
	Video	biostar_ve	biostarveuser		******			
		Test Connection		Save				
3)			가					
4)	Test Connection	n	가					
5)		Save						
Bic	Star 2							
Bic	Star 2		,		,	,	()
	BioStar 2							
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Bic	Star 2							

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BioStar 2

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BioStar 2가 PC . , BioStar 2 가

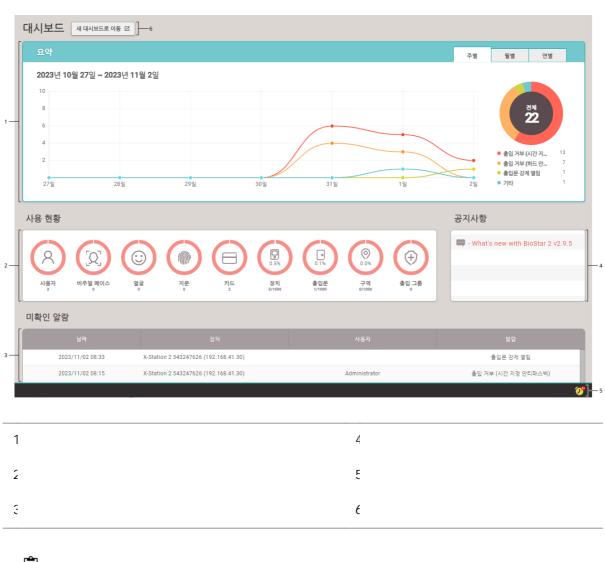
,BioStar .

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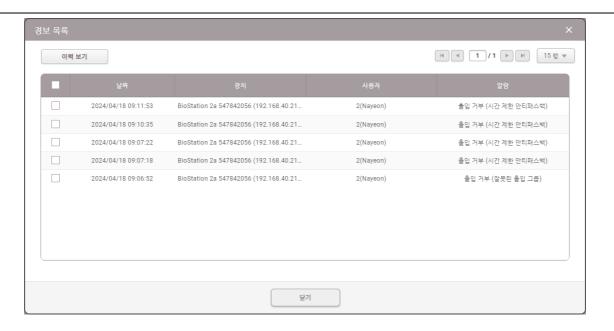
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가 , 가

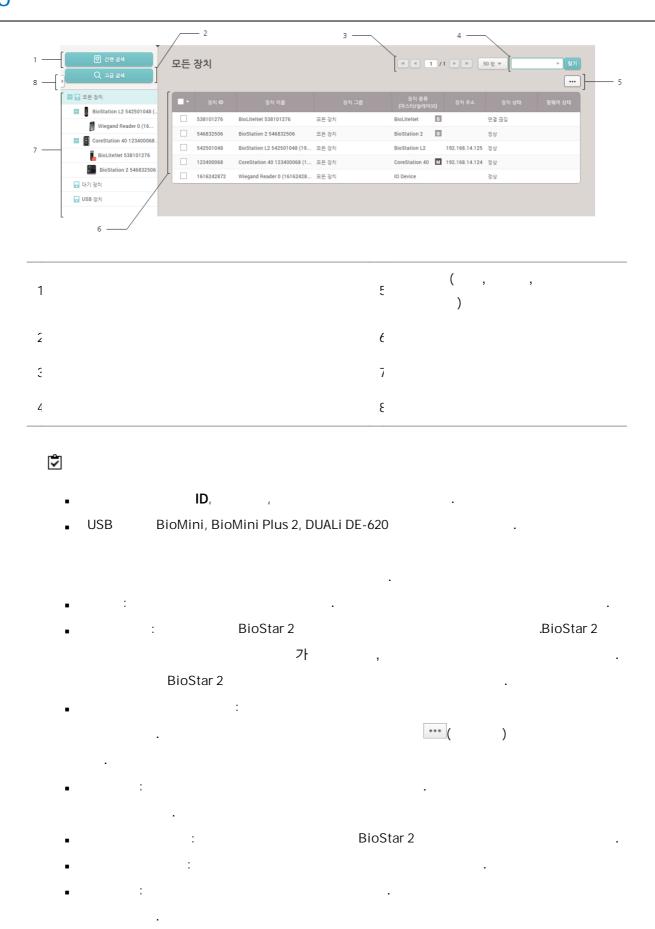
15



가/ / , 가

Wiegand

CoreStation OSDP



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■ 가 .

BioStar 2 . 가

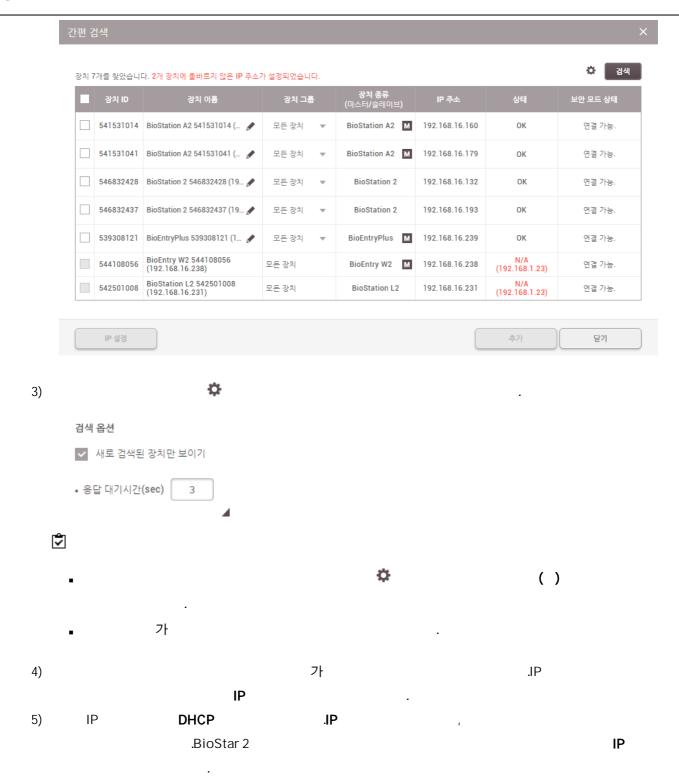
. 가 ,ID, IP

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2) 가 ID 가 BioStar 2 ID가

BioStar 2 .





7) 가 가 8) Ŷ 가 가 *** 가 가 ID 가 BioStar 2 ID BioStar 2 BioStar 2 ID 가

6) IP

3)

Wiegand

ΙP 1) 2) ΙP 가 3) 장치 ID 538101276 BioLiteNet 538101276 (192.168.1... All Devices BioLiteNet 192.168.16.230 취소 가 4) 가 5) Ŷ Wiegand Wiegand 가 1) Wiegand Wiegand 2) / 가

가



가 4)

> 가 가 RS-485 Secure I/O 2

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가 3)



추가 취소

가 4)

4)

가

Ş 가 가 가 가 가 가 가 1 가 가 Secure I/O 2 가 DM-20 1 CoreStation OSDP **OSDP** 가 CoreStation OSDP 1) 2) CoreStation OSDP 가 3) **OSDP** .OSDP CoreStation 40 542070022 (192.168.40.233) OSDP 리더 (1) OSDP 안테나 (i) 취소

가

가

OSDP



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- CoreStation 2 , 8
- 5) (RS-485),





	■ : CoreStation OSDP .
	■ OSDP ID : OSDP .0~126
	. : CoreStation OSDP SCB
(RS-485)	CoreStation SCB OSDP OSDP SCB CoreStation .
	• : OSDP . PIN .
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	■ + 가
	가 + 가
	: OSDP
	가

6) OSDP

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OSDP LED .

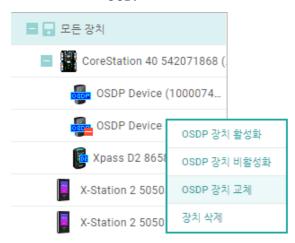
OSDP

CoreStation OSDP

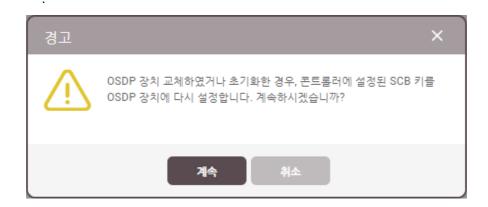
1)

2) CoreStation OSDP OSDP

OSDP



3) .OSDP 가



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• OSDP 가 SCB 가 가 . SCB

CoreStation 가 Ż OSDP - U&Z OSDP : CX8936 - U&Z : CX217x(), CX212x() 가 CoreStation v1.7.1 ,BioStar 2 v2.9.4 CoreStation 2 6 ,CoreStation 12 . BioStar 2 1) OSDP 가 2) CoreStation 3) **OSDP** .OSDP CoreStation 40 542070022 (192.168.40.233) OSDP 리더 (i) ● OSDP 안테나 (i) 취소

. 가 **가**

4)

가

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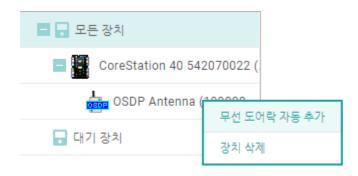
OSDP



5) (**RS-485**)



6) 가 OSDP **가**



7) SERVICEKEY

8) OSDP 가

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BioStar 2 BioStar

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1) .

2) . 가 BioStar 2

장치의 사용자 관리 X

BioStation A2 541531008 (192.168.14.223)

 ● 모든 사용자
 정보가 다른 사용자
 업로드
 삭제

사용자 ID		•	1:1 보안 등급	상태
99	0	0	장치 기본값	새 사용자
50	0	0	장치 기본값	새 사용자
49	0	0	장치 기본값	새 사용자
48	0	0	장치 기본값	새 사용자
47	0	0	장치 기본값	새 사용자
46	0	0	장치 기본값	새 사용자
45	0	0	장치 기본값	새 사용자
44	0	0	장치 기본값	새 사용자

닫기

BioStar 2

■ : BioStar 2

■ : BioStar 2

3) "BioStar 2

. BioStar 2 ID가 가

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■ BioStar 2

BioStar 2

.firmware 가

• 32 : C:\Program Files\BioStar 2\firmware

■ 64 : C:\Program Files\BioStar 2(x64)\firmware

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3) 가 .

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■ RS-485 가

3)

4)

CoreStation, Wiegand

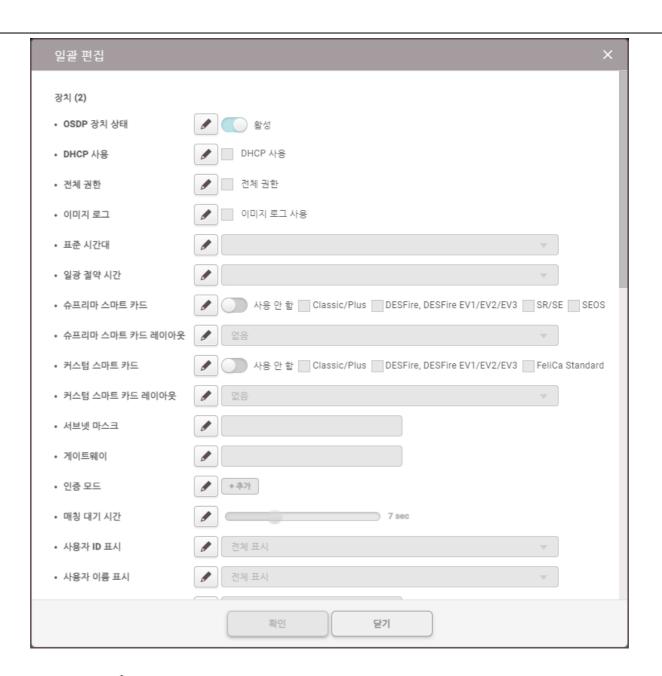
■ 가

RS-485

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2)

, IP , RTSP, DM-20, OM-120, IM-120,

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5)6)

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16		BioStar 2 .

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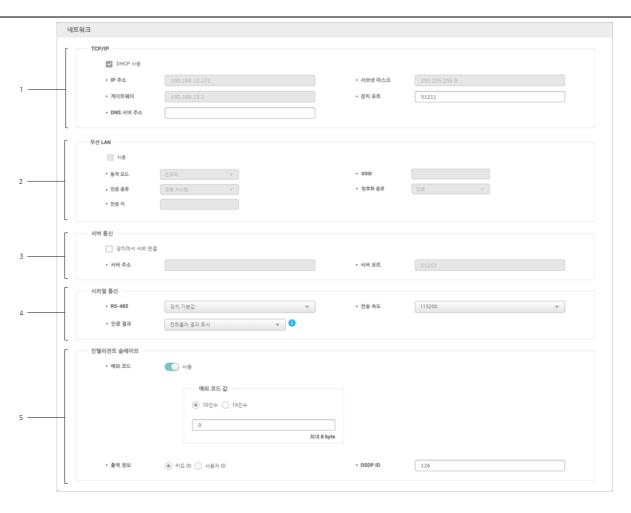
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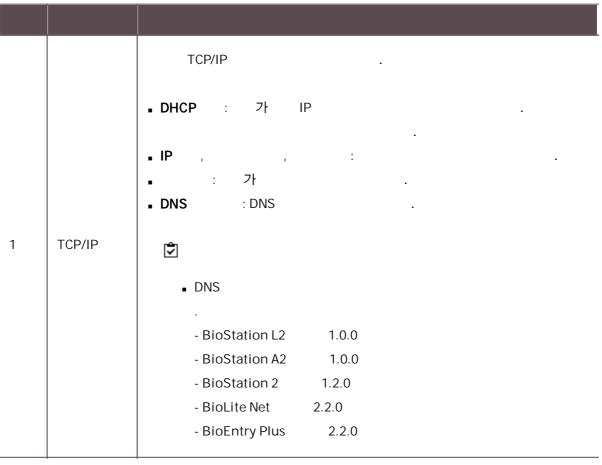
TCP/IP, RS-485

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- >	BioEntry W 2.2.0 XPass 2.2.0 XPass S2 2.2.0 FaceStation 2 1.0.0
	BioLite N2 1.0.0
	FaceLite 1.0.0
- >	XPass 2 1.0.0
- F	FaceStation F2 1.0.0
	X-Station 2 1.0.0
- E	BioStation 3 1.0.0
LAN	. , SSID, , ,
	, 가
2 LAN	
■ Bi	ioStation 2, BioStation A2, FaceStation 2, BioStation 3
	•
	•
	: BioStar 2
•	. BioStar 2
	: BioStar 2 IP .
	: BioStar 2 .
3	
	BioStation L2 1.0.0
	BioStation A2 1.0.0
	BioStation 2 1.2.0 BioEntry W2 1.0.0
	BioEntry P2 1.0.0
	FaceStation 2 1.0.0
	FaceLite 1.0.0
- F	FaceStation F2 1.0.0

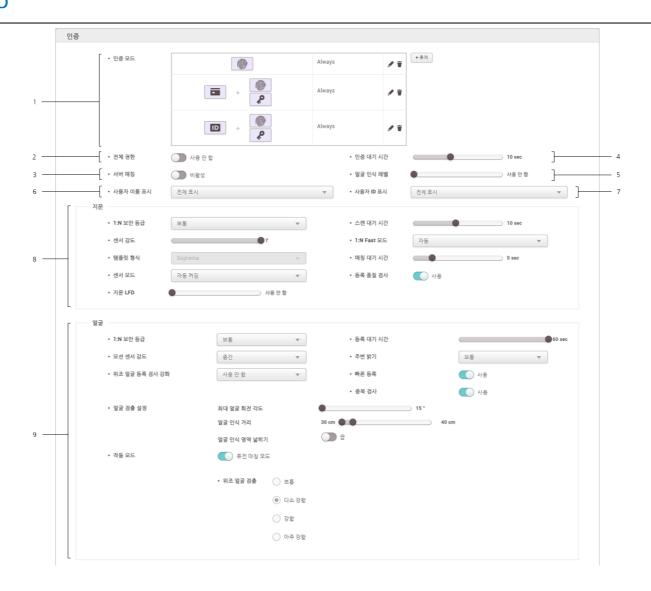
	- BioLite N2 1.0.0
	- BioLite Net 2.2.0
	- BioEntry Plus 2.2.0
	- BioEntry W 2.2.0
	- XPass 2.2.0
	- XPass S2 2.2.0
	- XPass 2 1.0.0
	- X-Station 2 1.0.0
	- BioStation 3 1.0.0
	RS-485
	PO 405 DO 405
	■ RS-485 : RS-485 .
	RS-485 :
4	
	RS-485가
	가
	OSDP 1:1 1:N
	. :
	10 16
E	.10 0~18446744073709551615 ,16
5	0~FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
	ID ID .
	■ OSDP ID : OSDP .0~126
	□
	■ RS-485

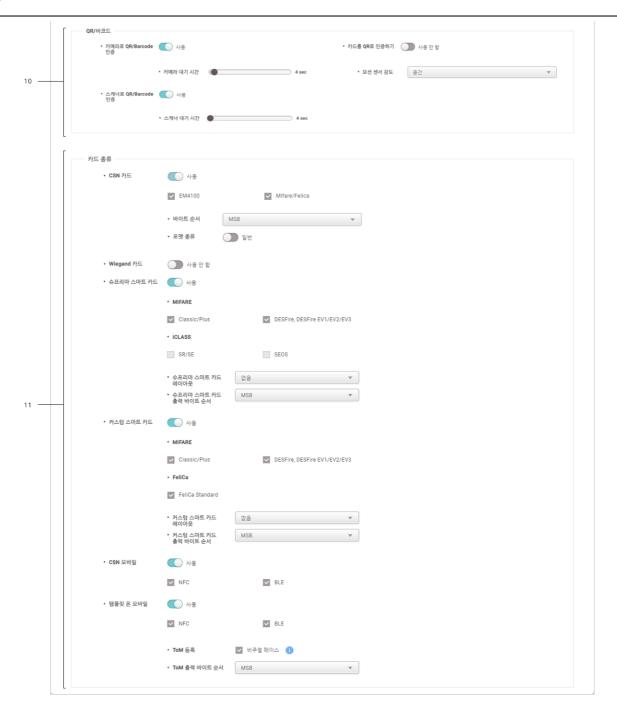
	•
	- BioEntry W2 1.6.3
	- BioStation L2 1.6.1
	- BioEntry P2 1.4.1
	- XPass 2 1.2.3
	- X-Station 2 1.1.0
	- BioLite N2 1.4.1
	- FaceStation F2 1.1.2
	- BioStation 3 1.0.0
	. 8

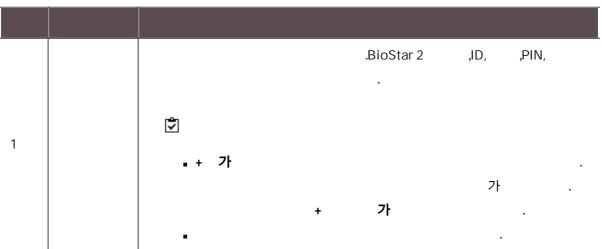
2)

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2				
			BioStar 2가	PC
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				BioStar
		,	•	
		- CoreStation 1.0.0		
		- BioEntry P2 1.0.0		
		- BioEntry W2 1.0.0		
		- BioStation L2 1.0.0		
		- BioStation A2 1.0.0		
		- BioStation 2 1.2.0		
3		- BioLite Net 2.2.0		
		- BioEntry Plus 2.2.0		
		- BioEntry W 2.2.0		
		- XPass 2.2.0		
		- XPass S2 2.2.0		
		- BioLite N2 1.0.0		
		- XPass D2 1.0.0		
		- XPass 2 1.0.0		
		- FaceStation 2 1.4.0		
		- FaceStation F2 1.0.0		
		- X-Station 2 1.0.0		
		- BioStation 3 1.0.0		
		■ FaceLite .		
		■ FaceStation F2 BioStation 3		
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		, 가 가가 .
		■ BioStation A2 .
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7	ID	ID 가
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		■ LFD:

	BioStation 2, BioStation A2, BioStation L2, BioLite N2, FaceStation F2(FSF2-ODB), X-Station 2(XS2-ODPB, XS2-OAPB) LFD BioStation A2, BioStation L2, BioEntry W2, BioLite N2, FaceStation F2(FSF2-ODB), X-Station 2(XS2-ODPB, XS2-OAPB)
9	. 1:N (FRR) (FAR) IR LED

		- :	가 ·
		• •	
		• , FaceLite	, FaceStation 2, 1.1.0
			eStation F2, BioStation 3
10 QR/	1	 QR/Barcode : QR/ QR/ QR : QR QR QR QR QR 	OR/ OR/ CSN Wiegand . 가
		■ QR/Barcode	. QR/ 가
		 QR/Barcode , X-Station 2 (XS2-ODPB, XS2- 	. QR , OAPB XS2-DPB XS2-APB)

	1.2.0 - BioSta •	ation 3 (BS3-DB, BS3-7 QR/Barcode	APWB) 1.	1.0
	- X-Stat	ion 2 (XS2-QDPB, XS2-	-QAPB)	
	CSN : CS Wiegan .	,Wiega		CSN) 기・ ・ Wiegand Wiegand
11	•	MSB		(CSN)
				(CSN) .LSB (CSN)
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	Ď ■ MSE	JLSB
	• : / I♥	
	- XPass D2 1.7.1 - BioEntry P2 1.5.1 - BioEntry W2 1.8.0 - BioStation 2a 1.1.0 - X-Station 2 1.3.0 - BioStation 3 1.3.0 MSB	,LSB
	• CSN	가
	· BioStation 3 1.2.0 ToM MSB	,LSB

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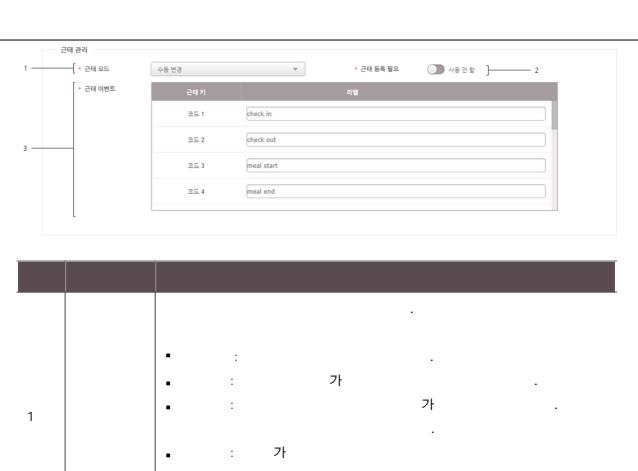
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BioStar 2

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BioEntry P2, BioEntry W2, BioEntry Plus, BioEntry W, XPass, XPass S2, XPass D2, XPass 2 .

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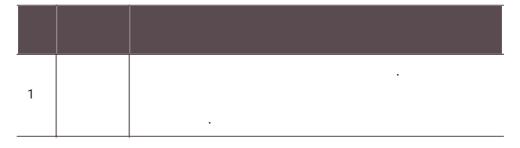
BioEntry P2, BioEntry W2, BioLite Net, BioEntry Plus, BioEntry W, Xpass, Xpass S2, XPass D2, XPass 2

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■ , BioLite Net

■ XPass D2 V02M, 1.7.1

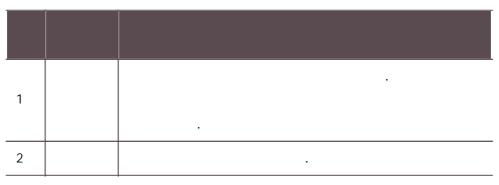




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3		
4		·
5		가 .
6	LED	LED .
7		

- BioStation 2, BioStation L2, BioLite N2, FaceLite





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6	가 .
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9	, , 가 . 가 500KB *wav .



■ BioStation 3, BioStation A2, FaceStation 2, FaceStation F2, X-Station 2



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3	IP	IP .
4	IP	IP .
5		
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7		가 .

	LCD
8	FaceStation 2, FaceStation F2, X-Station 2, BioStation 3
9	
10	・ : ・ : 가 ・ : 가 ・ : 가 ・ : 가 ・ : 10
11	, , , 가 가 500KB *wav

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		가		가	•
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■ BioStation A2, FaceStation 2, FaceStation F2, X-Station 2, BioStation 3

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2) **+ 가**



Wiegand

Wiegand

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3	Wiegand Wiegand CSN		,	Wiegand
	-			Wiegand
4	Wiegand			
5	Wiegand			
6				

가 , 가

1) • 보안 템퍼 * 보안 템퍼 발생 시, 장치의 전체 사용자, 전체 로그, 보안키가 삭제됩니다. Ŷ BioStation 2 1) 인터폰 ✓ 사용 60Hz 50Hz Ŷ FaceStation F2 2.1.4 BioStation A2 1) 카메라 • 주파수

가

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FaceStation 2, FaceStation F2

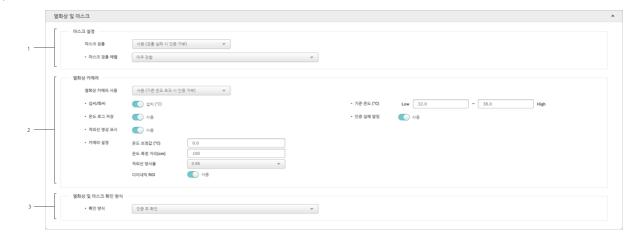
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- TCM10-FS2

- TCM10-FSF2

■ FaceStation F2, BioStation 3

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             가Low
                             High
                              .1 ~45
     ,Low High
        ( ):
                  0.1
0.1
         (cm):
       ROI:
                                                가
- ROI X(%), ROI Y(%), ROI Width(%), ROI Height(%):
                                               ROI
                        ROI( )
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             Low
                    High
    - FaceStation 2
                    1.4.2
    - FaceStation F2
                    1.0.2
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		FaceStation 2	FaceStation F2
	(cm)	100	100
		0.98	0.98
	ROI X(%)	47	30
	ROI Y(%)	45	25
	ROI Width(%)	15	50
	ROI Height(%)	10	55
	:		
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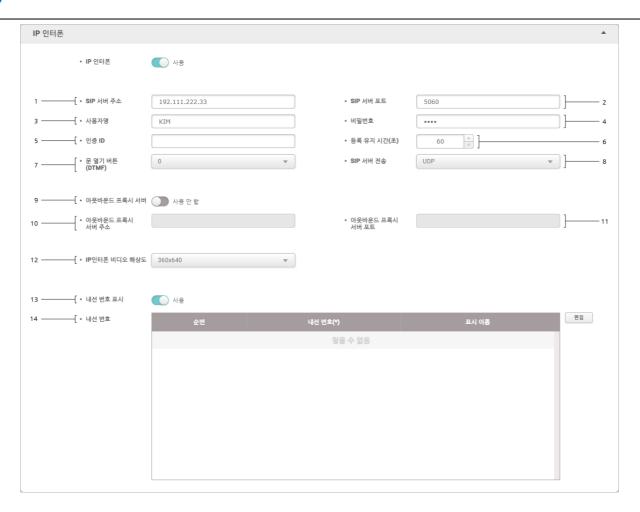
2)

ΙP

IP .



- BioStation 3, FaceStation 2, BioStation A2
- •
- 1) IP .
- 2) SIP 가 .



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7	(DTMF)	
8	SIP	IP SIP SIP
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12	IP	IP ■ 360 x 640 () / 720 x 480 ■ IP BioStation 3 1.3.0
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RTSP

RTSP .



RTSP BioStation 3

- 1) RTSP
- 2) .



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		■ 180 x 320 () / 720 x 480	
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3)

DM-20

DM-20

1) 2) DM-20 정보 장치 이름 DoorModule20 200000013 • 장치 ID 1.0.8 펌웨어 업그레이드 장치 종류 • 펌웨어 버전 • 모델명 고급 Supervised Input • 설정 Supervised 2.2kQ 2 -2.2kΩ Supervised Supervised 2.2kΩ 2.2kQ Supervised

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	<u> </u>
	Supervised Input .DM-20 Supervised Input
2	On, Off, ,
	$1k\Omega$,2.2 $k\Omega$,4.7 $k\Omega$,10 $k\Omega$

3) .

OM-120

OM-120 .

1) .

2) OM-120 .

 · 경치 이름
 OM-120 12345678
 · 경치 ID
 12345678

 · 경치 종류
 OM-120
 · 펌웨어 버권
 1.0.0
 ★ 펌웨어 업그레이드

 · 모델명
 OutputModule
 · 커널 버전
 0.0.0

 · 하드웨어 버전
 0.0.0

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3)

IM-120

IM-120 BioStar 2

BioStar 2 IM-120

1)

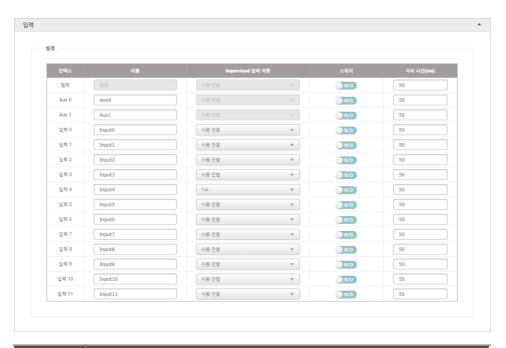
2) IM-120

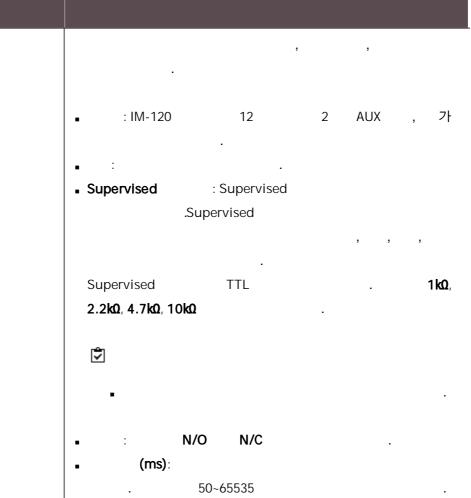
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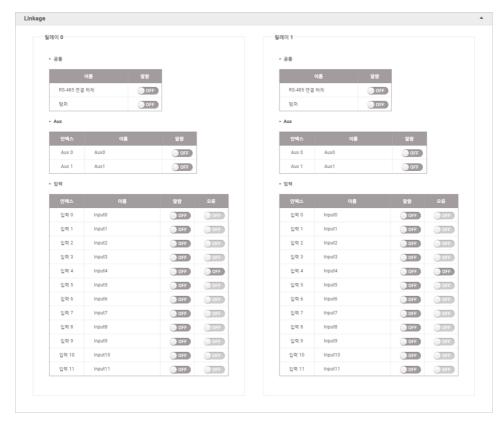


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	- RS-485	
Linkage	■ AUX : AUX .	AUX
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CoreStation

CoreStation

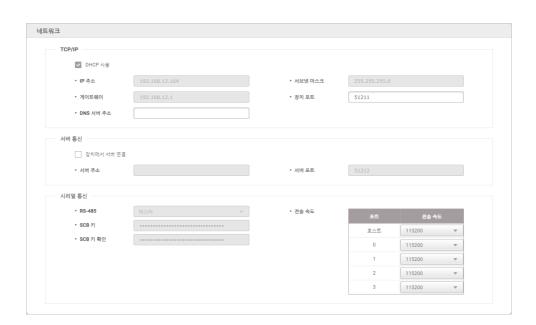
1) .

2) CoreStation

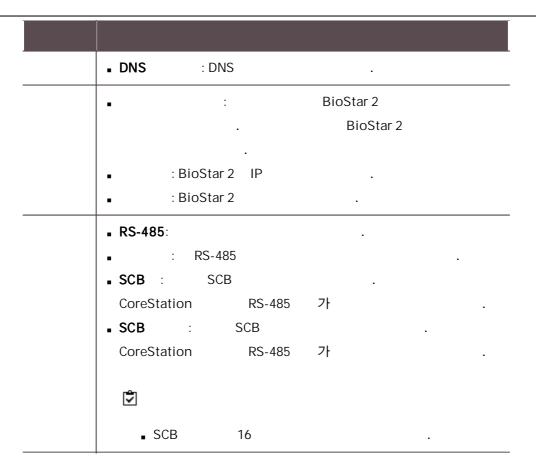
3) .

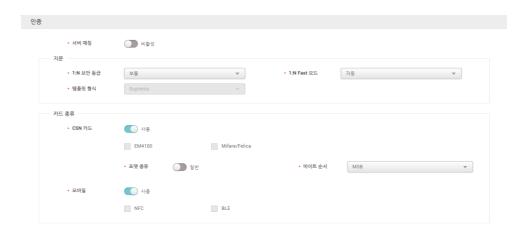


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・ : ガ : ア
・ : ガ : BioStar 2



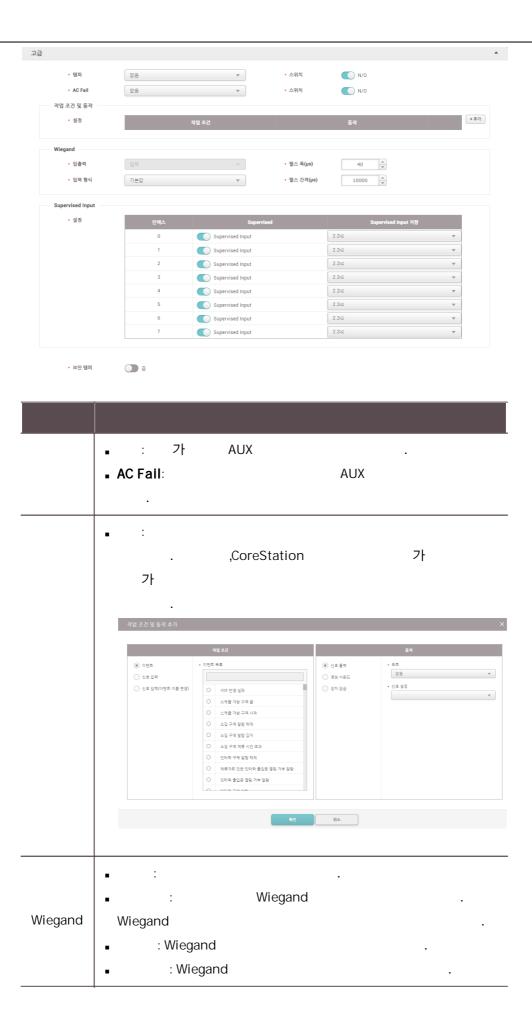
■ DHCP : 카 IP
■ IP
■ IP
■ IP
■ DHCP
■ DHCP
■ BioStar 2





・ : BioStar 2가 PC ,

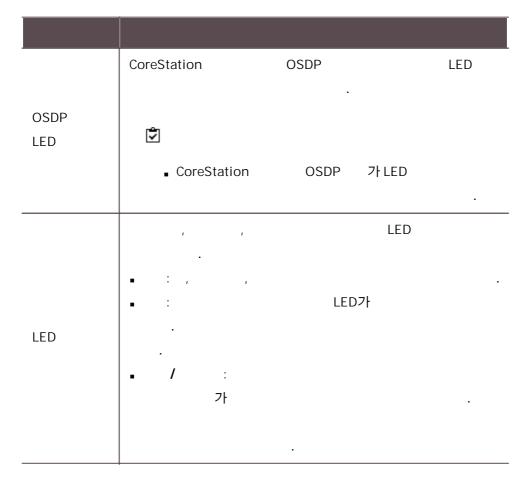
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Supervis ed Input	CoreStation Supervised Input TTL Input , Supervised Input $ 1k\Omega \ , 2.2k\Omega \ , 4.7k\Omega \ , 10k\Omega $	
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- OSDP LED





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전보

- 경치 이름
- 경치 이를
- 경치 이름
- 영제 프트
- 의취 대기시간
- 스위치
- 시용 안 함
- 대취 프트
- 스위치
- 시용 안 함
- 시용 안 함
- 대취 프트
- 스위치
- 시용 안 함
- 사용식 LED 및 비개
- 소록식 LED 프트
- 소록식 LED 프트
- 설득
- 사용식 LED 및 비개
- 소록식 LED 프트
- 설득
- 사용식 LED 및 비개
- 소록식 LED 프트
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- 소록식 LED 프트
- 설득
- 사용식 LED 프

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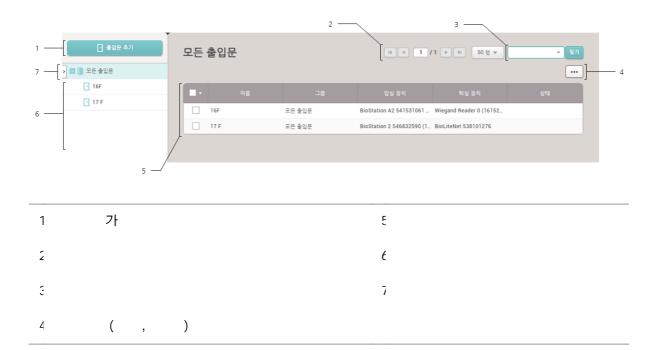
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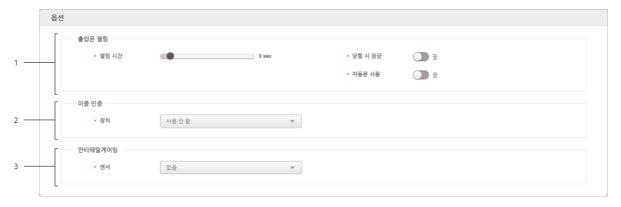
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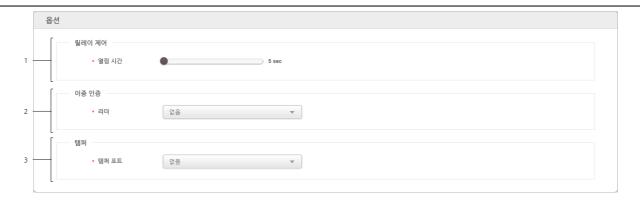
BioEntry Plus, BioEntry W, BioLite Net

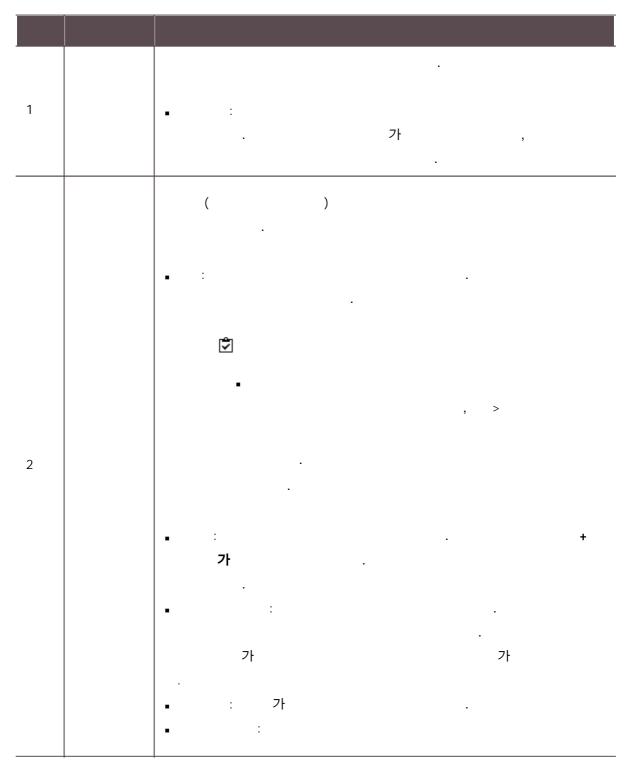
1) 상세 정보 --[• 컨트롤러 BioStation A2 541531008 (192.168.16.2... ▼ BioStation A2 541531008 (192.168.16.2... ▼ • 리더 OM-120 12345678 적용 ▼ 자동매핑 }-----5 - 총 총수 • 자동 매핑 • 층 설정 Elevator 1 - 1 OM-120 12345678 OM-120 12345678 장치의 릴레이 0 ▼ OM-120 12345678 Elevator 1 - 2 OM-120 12345678 장치의 릴레이 1 Elevator 1 - 3 OM-120 12345678 OM-120 12345678 장치의 릴레이 2 OM-120 12345678 Elevator 1 - 4 OM-120 12345678 장치의 릴레이 3 OM-120 12345678 Elevator 1 - 5 OM-120 12345678 장치의 릴레이 4 Elevator 1 - 6 OM-120 12345678 $\overline{\mathbf{w}}$ OM-120 12345678 장치의 릴레이 5 Elevator 1 - 7 OM-120 12345678 OM-120 12345678 장치의 릴레이 6 ŵ Elevator 1 - 8 OM-120 12345678 OM-120 12345678 Ŵ Elevator 1 - 9 OM-120 12345678 장치의 릴레이 8 ▼ Elevator 1 - 10 OM-120 12345678 OM-120 12345678 장치의 릴레이 9 Ŵ Elevator 1 - 11 OM-120 12345678 OM-120 12345678 장치의 릴레이 10 ▼ Elevator 1 - 12 OM-120 12345678 OM-120 12345678 장치의 릴레이 11 ▼ $\widehat{\overline{w}}$

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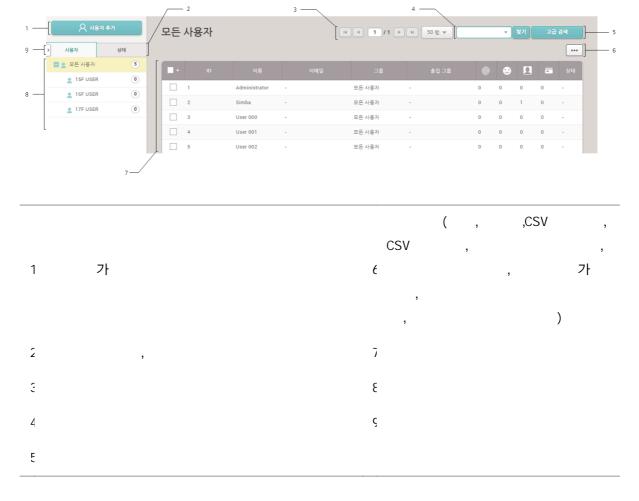
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BioStar 2

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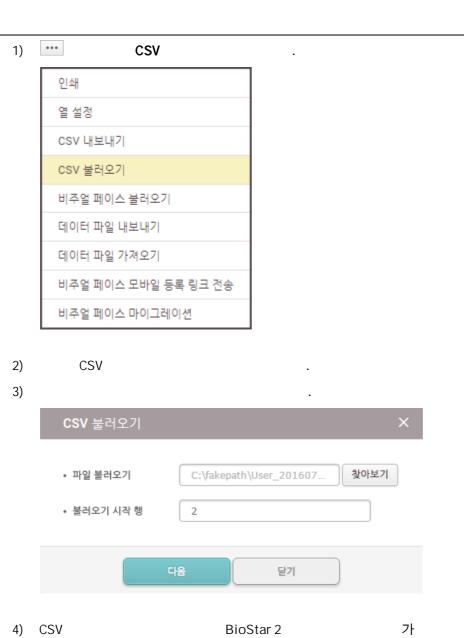
1) CSV ...

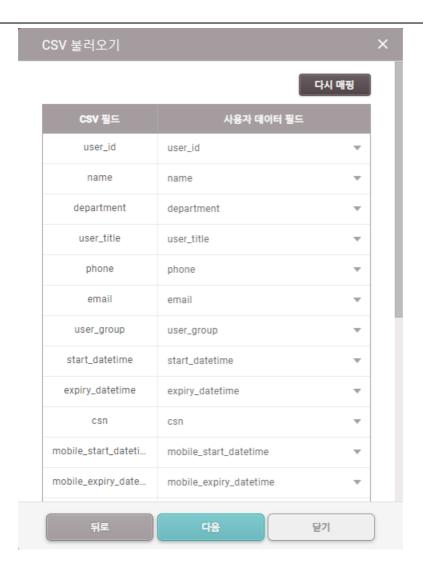
2) **CSV** .

인쇄
열 설정
CSV 내보내기
CSV 불러오기
비주얼 페이스 불러오기
데이터 파일 내보내기
데이터 파일 가져오기
비주얼 페이스 모바일 등록 링크 전송
비주얼 페이스 마이그레이션

3) CSV .

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5) BioStar 2 ID가 CSV

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- BioStation 3 1.0.0 가 ,Suprema ISO 가 가 FaceStation F2 가 BioStar 2 가 가 *** 1) 2) 인쇄 열 설정 CSV 내보내기 CSV 불러오기 비주얼 페이스 불러오기 데이터 파일 내보내기

3) .USB

비주얼 페이스 모바일 등록 링크 전송

데이터 파일 가져오기

비주얼 페이스 마이그레이션

데이터 파일 내보내기	×
내보낸 데이터 파일이 적용될 장치 종류를 선택하십시오. (기본: BioStation 2)	
● BioStation 2 (v1.9.0 이상 적용 가능)	
○ BioStation A2 (v1.8.0 이상 적용 가능)	
FaceStation 2 (v1.4.0 이상 적용 가능)	
FaceStation F2 (v2.0.0 이상 적용 가능)	
○ X-Station 2 (v1.0.0 이상 적용 가능)	
○ BioStation 3 (v1.0.0 이상 적용 가능)	
○ BioStation 2a (v1.0.0 이상 적용 가능)	
확인 취소	

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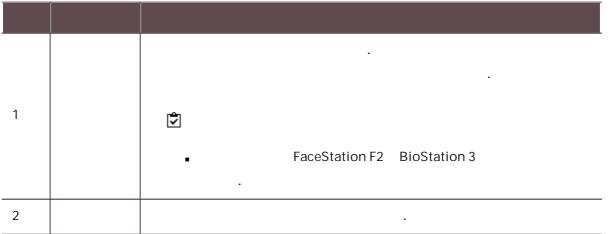
PIN

	인쇄	
	열 설정	
	CSV 내보내기	
	CSV 불러오기	
	비주얼 페이스 불러의	27
	데이터 파일 내보내기	7
	데이터 파일 가져오기	7
	비주얼 페이스 모바일	일 등록 링크 전송
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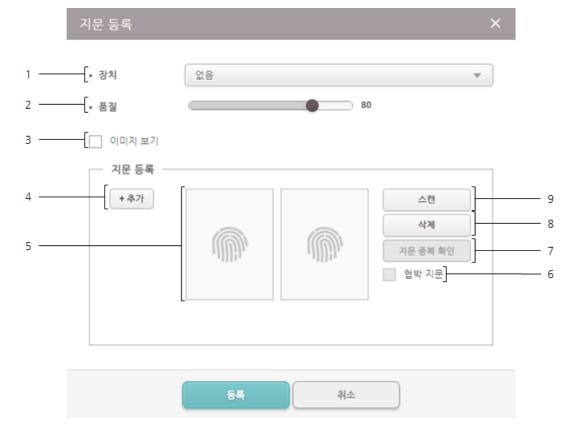
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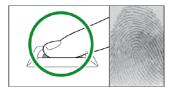
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■ 40 ~ 80 cm .

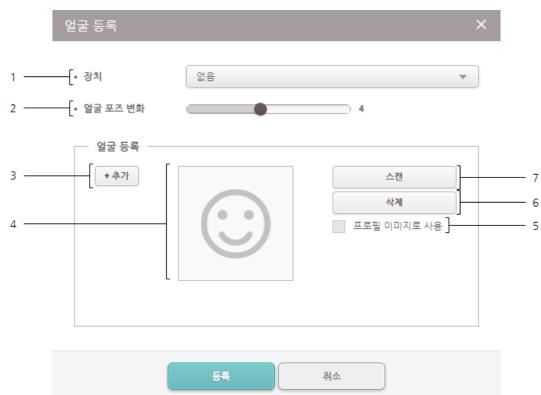
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- FaceStation F2, BioStation 3

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- 60 ~ 100 cm .

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FaceStation F2, BioStation 3

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CSV

CSV .

- 1) .
- 2) .
- 3) CSV CSV
- 4) CSV (face_image_file1, face_image_file2)
- 5) CSV 가 CSV BioStar 2
- 6) 가



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CSV

■ 10MB

JPG, JPEG, PNG

7) CSV .CSV 가

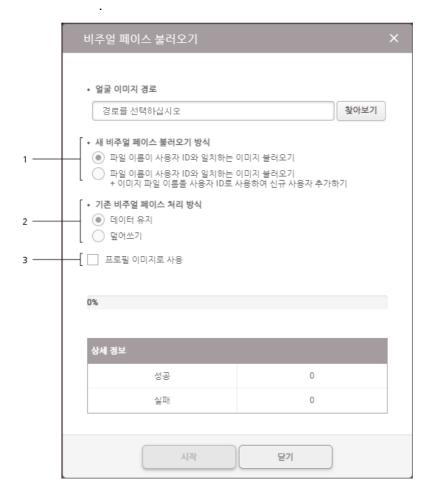
가 가 CSV

ID 가

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2) 가



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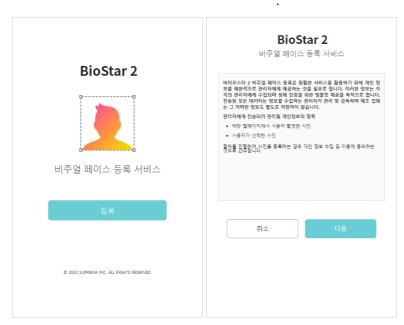
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• 가 , 가

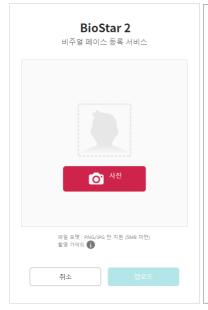
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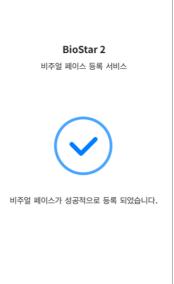
, 가

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■ 10MB

■ JPG, JPEG, PNG

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PC

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가

CSN Wiegand [USB Agent

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	CSN	Wiegand	
EM	X	X	X
MIFARE	0	X	0
DESFire	0	Х	0
FeliCa	0	Х	Х
HID Prox	Х	Х	Х
HID iCLASS	Х	Х	Х

CSN

가 CSN

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- 2) **CSN** .



3)

186

BioStar 2

a)

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2)		Wiegand				

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	• 카드 데이터 형식	26 bit SIA Standar	d-H10301		*
	• 등록 방법	리더로 등록			▼
	* 장치	BioStation A2 541	531061 (192.168.16.206	5)	•
	정보				
	• 식별 코드			카드 읽기	
	• 카드 ID 1				
		등록	취소		
2)				Wiegand	
3)4)				Wiegand	
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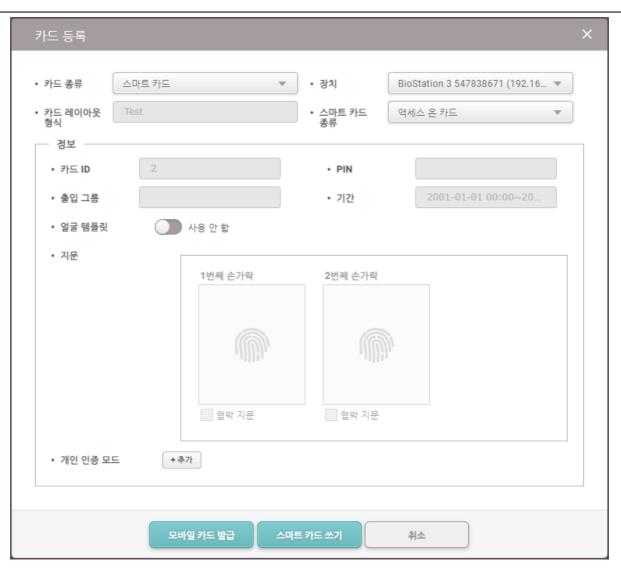
5) 가 .

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: (ID, PIN,

190

.BioStar 2 Ŷ Ŷ - XPass D2 1.7.1 - BioEntry P2 1.5.1 - BioEntry W2 1.8.0 - BioStation 2a 1.1.0 1.3.0 - X-Station 2 1.3.0 - BioStation 3 6) 7) 가 Ŷ BioStar 2 Mobile ID BioStar 2 가

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Airfob Portal

CSV

Airfob Portal

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Airfob Portal

CSN Mobile

CSN Mobile

CSN

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Airfob Portal

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BioStar 2 CSN Mobile

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- b)
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ID ID CSN Mobile

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b) ID ID가 ID가 ID가 ID ID

c) .

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■ ID ID

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종 류	카드 데이터 형식	요약	
CSN Mobile	모바일 카드	ID: 1231231244123	재건송 차단 ▼

BioStar 2

'Airfob Portal



- BioStation 3 1.2.0

Airfob Portal

■ CSN Mobile 가

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BioStar 2 QR

BioStar 2

QR

Airfob Pass 5) Ŷ QR/ QR/ Ż QR/Barcode - X-Station 2 (XS2-QDPB, XS2-QAPB) QR/Barcode - X-Station 2 (XS2-ODPB, XS2-OAPB, XS2-DPB, XS2-APB) 1.2.0 - BioStation 3 (BS3-DB, BS3-APWB) 1.1.0 QR/Barcode 가 1) + **QR/** 2) QR/

PIN

QR

198

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■ BioStar 2 QR SMTP

■ BioStar 2 QR 가

a) QR/ BioStar 2 QR



b) ID . **ID** ID

□ ID ID

BioStar 2가 QR/

QR/

a) **QR/ QR/**



b) .

c) QR/ ID .

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■ ID , , 32

3) QR/ .

1:1

1:1 1:N

1:N 가 1:1

1) **1:1**

• 1:1 보안 등급 장치 기본값

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· 가 , 1:1 , 가 ID 가 1:1

• (FRR)

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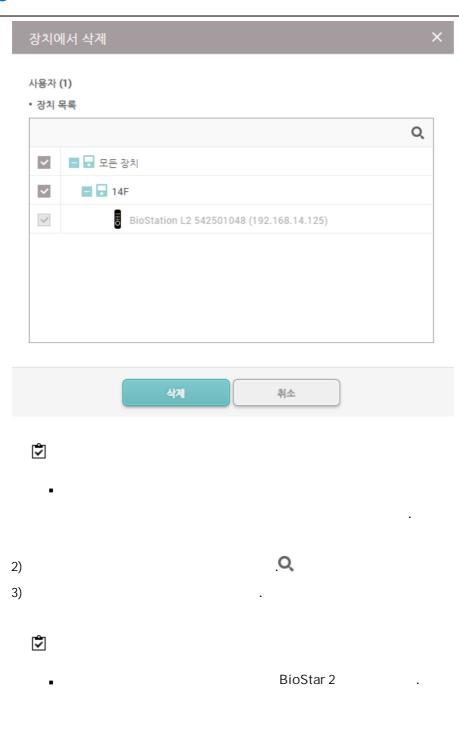
1) .

종류	카드 데이터 형식	छक	
비주얼 페이스		1	동기화 🎤 🗑

BioStar 2 .

장치로 전송 사용자 (3) • 장치 목록 Q □ 로 모든 장치 □ 로 16F □ 정보가 다른 사용자 덮어쓰기 건송 취소 2) 3) Q 4)

BioStar 2



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	일괄 편집		×
	사용자 (27) 고룹 상태 기간 출입 그룹 권한 등급	● 호텔성 ② 2001/01/01 00:00 ~ 2030/12/31 23:59 曲 ② 없음	v
		확인 취소	
4) 5)			
	■ 'Administrator'		
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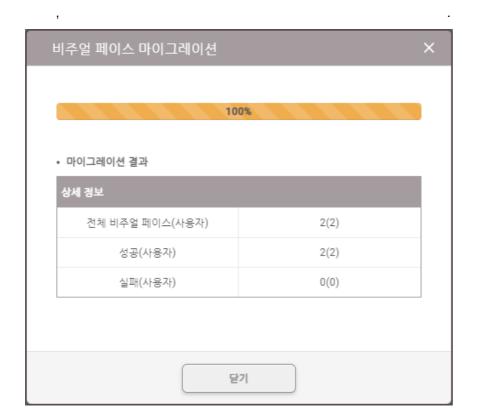
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4) BioStar 2

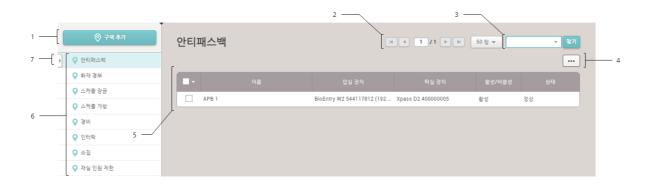


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2) 정보 • 이름 APB 1 • 종류 설정 활성 글로벌 소프트 안티패스백 출입문 설정에 따름 출입 기반 APB FaceLite 547832712 (192.168.14.240) • 입실 장치 BioStation 2 546832506 (192.168.14.221) • 퇴실 장치 • 네트워크 오류 동작 인증시 문 열림 알람 • 동작 안티패스백 항시 통과 • 항시 통과 그룹 사용안함 ▼ 1 RS-485 BioStar 2 2 가 7 (10080) .0 APB: APB 가 APB

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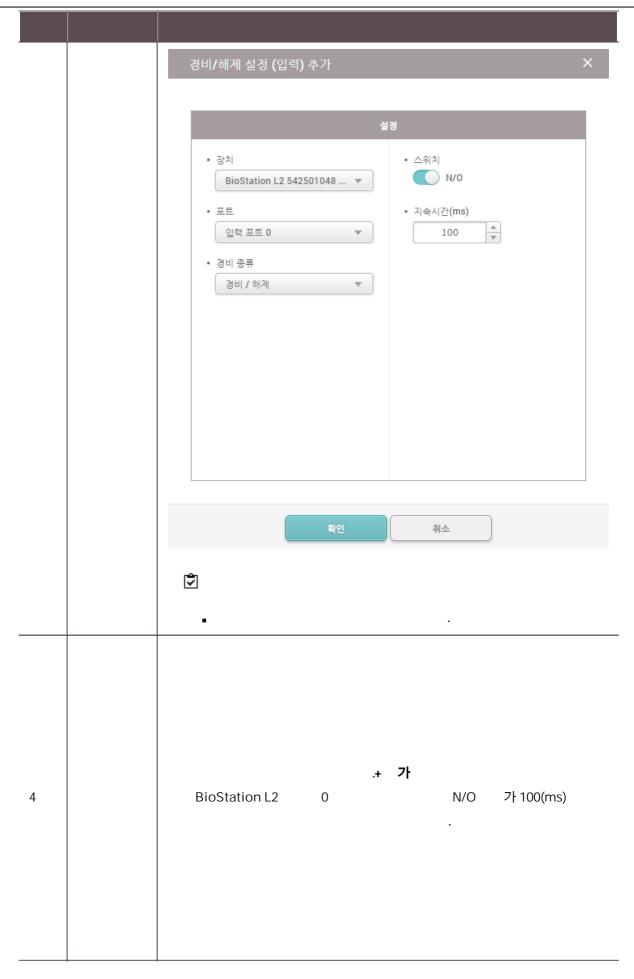
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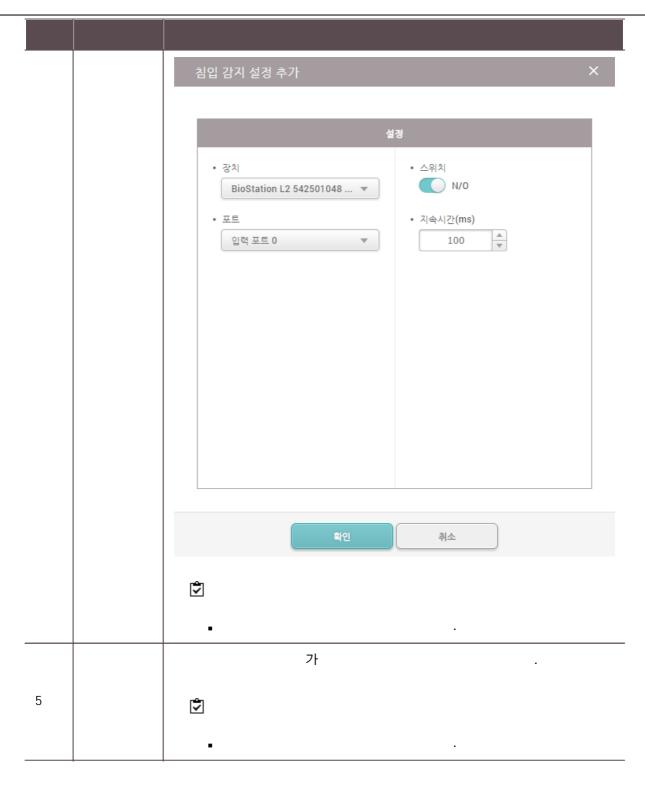
가 가 .

1) > 가 .

2) 설정 로컬 14F Door 01 • 출입문 0 소 초 체제 0 소 초 없음 3 -침입감지 설정 • 침입감지 1 2 RS-485 : 가 가 3 가 / 128 / / 128

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경비/해제 설정 (장치) 추가 X
• 장치 BioStation L2 542501048 (192.168.14.125) • 경비 종류
경비 / 해제 ▼ • 입력 종류 카드 또는 키 ▼
확인 취소
/ 가 ·





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CoreStation

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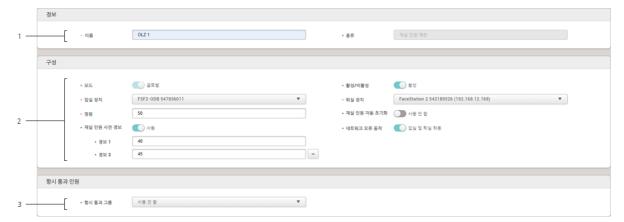
4) .

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②■ 100 가 .

219

- FaceStation F2 1.1.0
- FaceStation 2 1.5.0
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- 3) .



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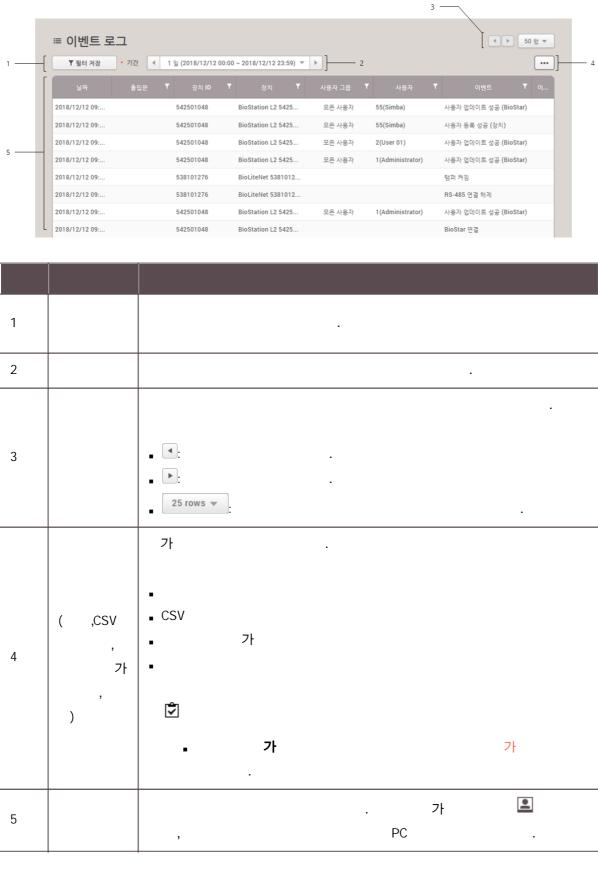


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			В	ioStar 2			가
	7	, 		В	ioStar 2 가		
	가						
		(USB)		BioStar 2			
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	-					BioStar 2 7	t .
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2015/11/05 15:27:52

2015/11/05 15:27:48



541530948

541530948

2) ⊙ 실시간 로그 ▼ 필터 저장 Ⅱ 일시 중지 👲 지우기 *** 2015/11/05 15:28:02 541530948 BioStation A2 5415... 1:N 인증 실패 (지문) <u>•</u> 2015/11/05 15:27:57 541530948 BioStation A2 5415... 1:N 인증 실패 (지문) <u>•</u>

BioStation A2 5415...

BioStation A2 5415... 2(-)

1:N 인증 실패 (지문)

1:N 인증 성공 (지문)

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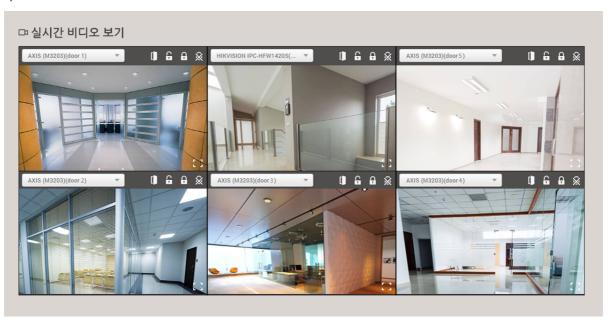
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NVR IP .

■ Live Monitoring IP " ...

PC-NVR .

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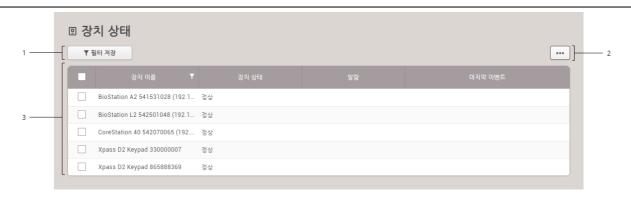


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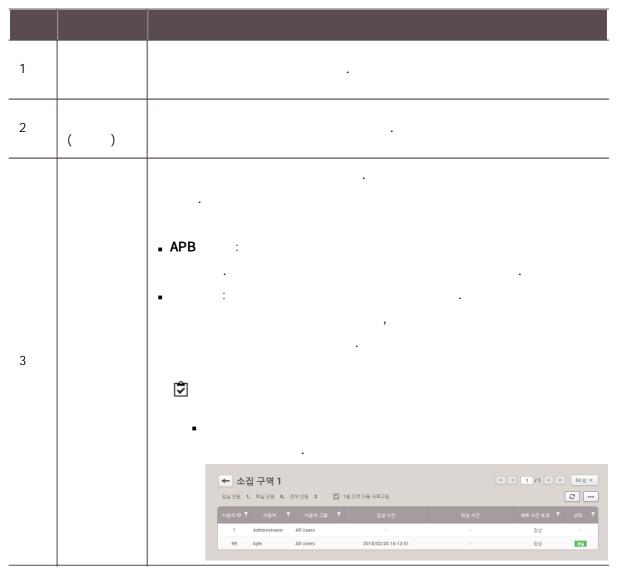
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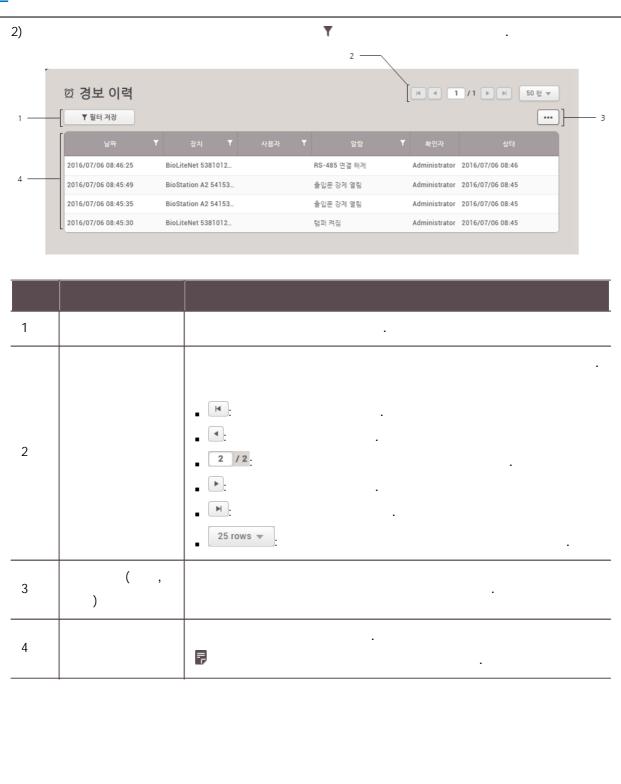
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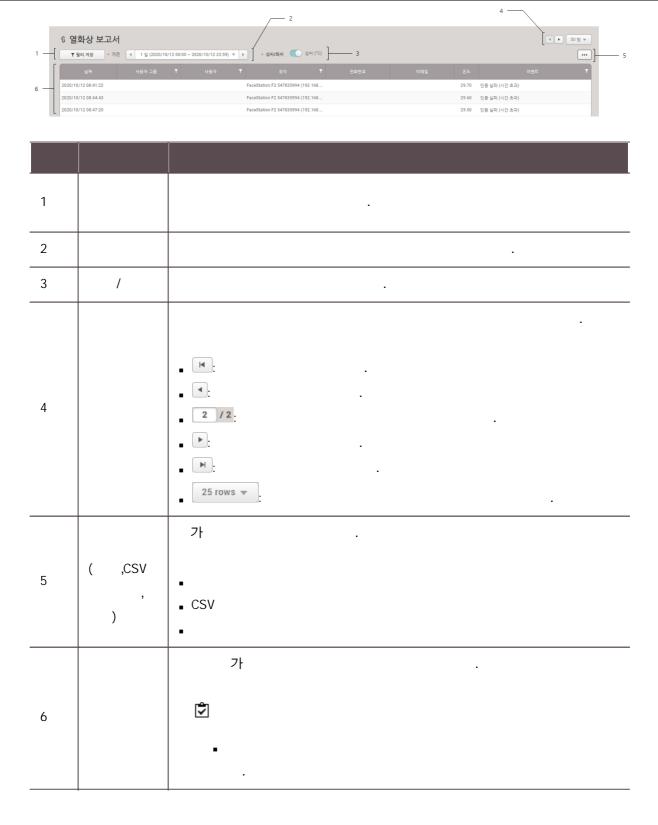


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█ █ 모든 그래픽 맵 14F Graphic Man 🎁 15F Graphic M 이름 변경 그룹 삭제 3) Ŷ 48 1) 2) ■ 🂢 모든 그래픽 맵 14F Geaphic Man 그룹 추가 🎁 15F Graphic M 이름 변경 그룹 삭제 Ŷ 가

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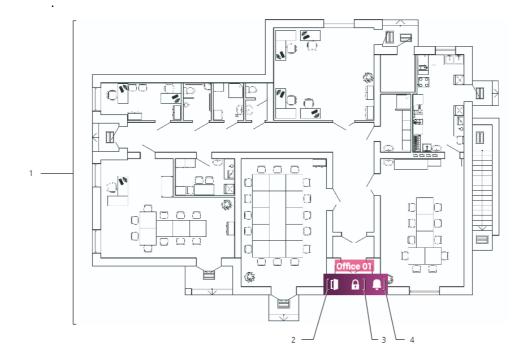
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■ 5MB

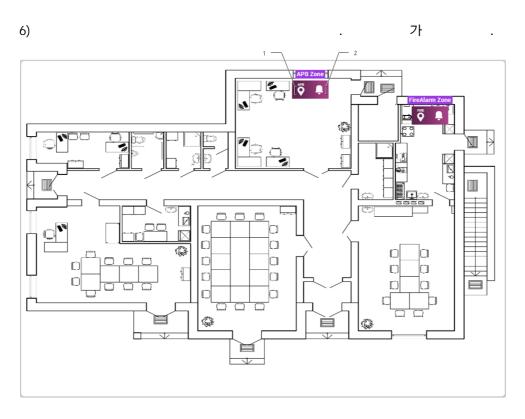
■ BMP, GIF, JPG, JPEG, PNG

BioStar 2

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Office 01

14F Graphic Map 01

Office 02

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모든 그래픽 맵

Office 01

14F Graphic Map 01 #

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IP . 가 IP

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NVR 가 IP 가

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■ BioStar 2 .

■ BioStar 27∤ PC (NTP)

. time.windows.com

■ 가 가

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NVR 가

NVR 가

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■ NVR ACTi, Dahua, Hikvision 가 .NVR 가

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■ BioStar 2 NVR (NTP)

. time.windows.com

PC-NVR

■ NVR

- Dahua: DH-NVR4416-16P, DH-NVR608-32-4K

- Hikvision: DS-7616NI-E2/16P, DS-7608NI-E2 / 8P

1) > **NVR 가**

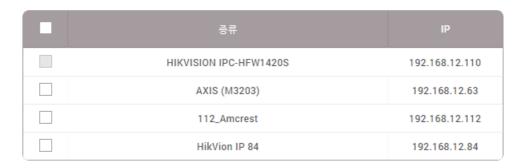


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검색된 카메라 목록 X

NVR₁



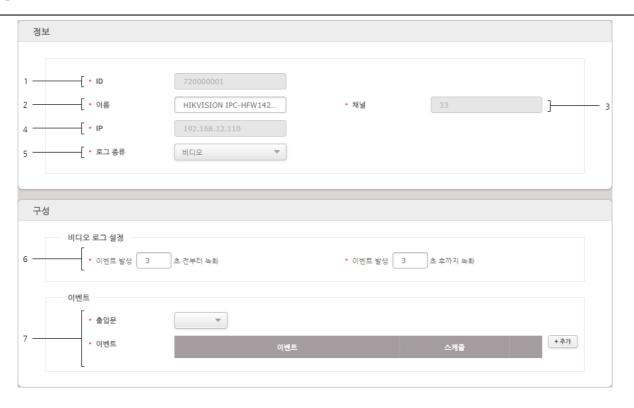


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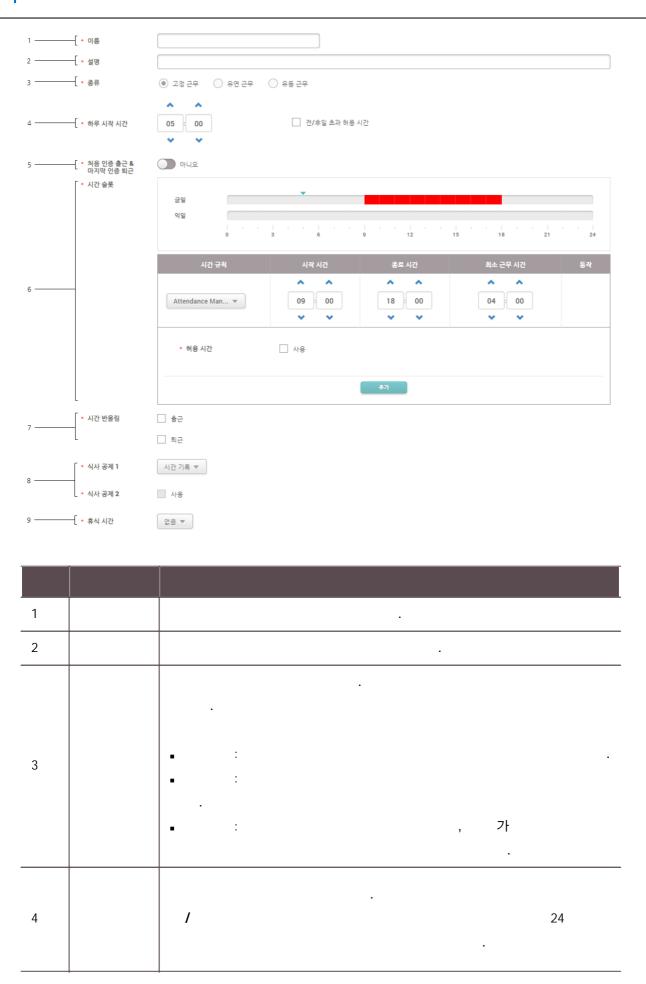
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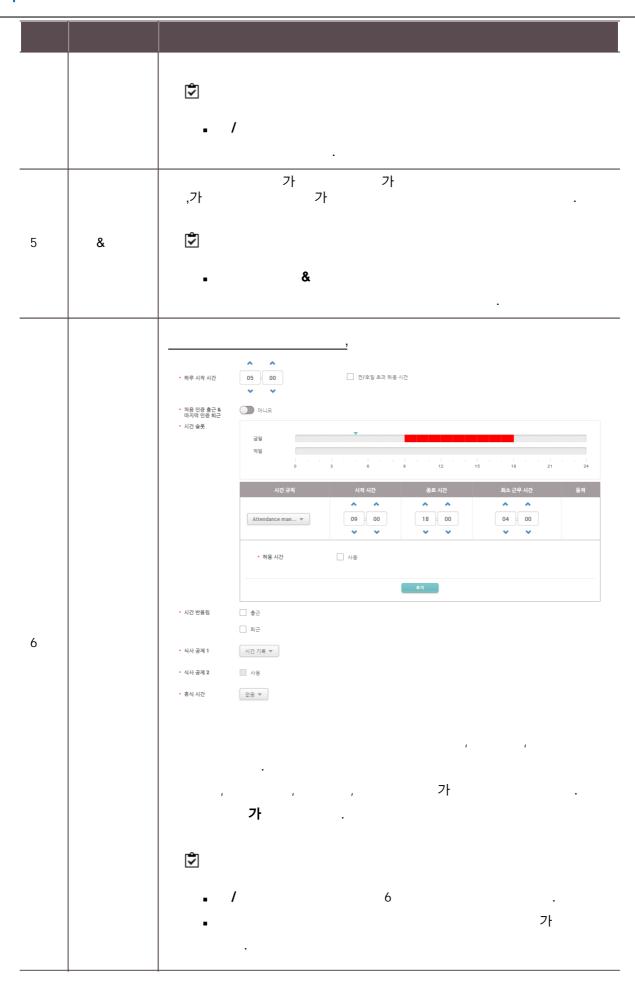
가 . / / 가 5 , 가 가 1) 2) **가** ◎ 정상 근무 ○ 연장 근무 ○ 부재

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		 식사 공제 2 	사용		
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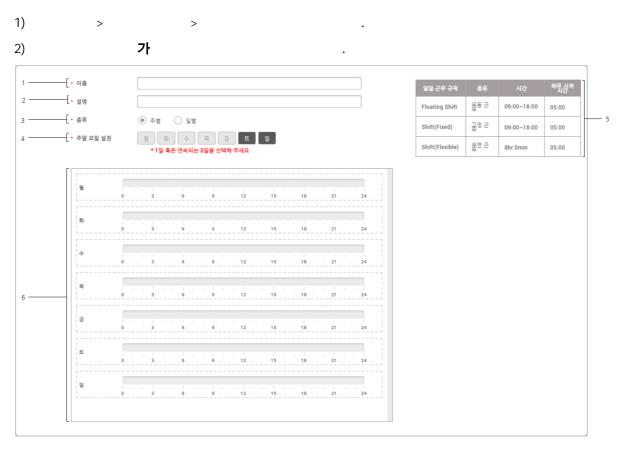
		• 근무조 발 부처 작용 기준 ·						₩ + 471	
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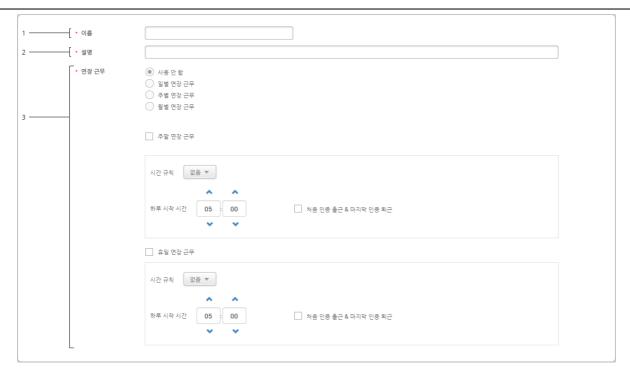
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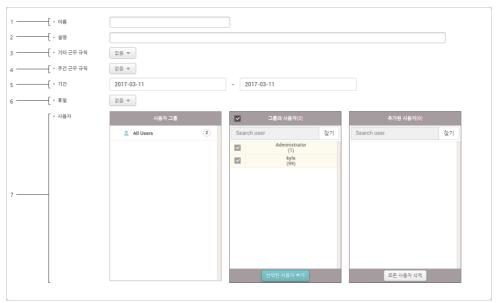
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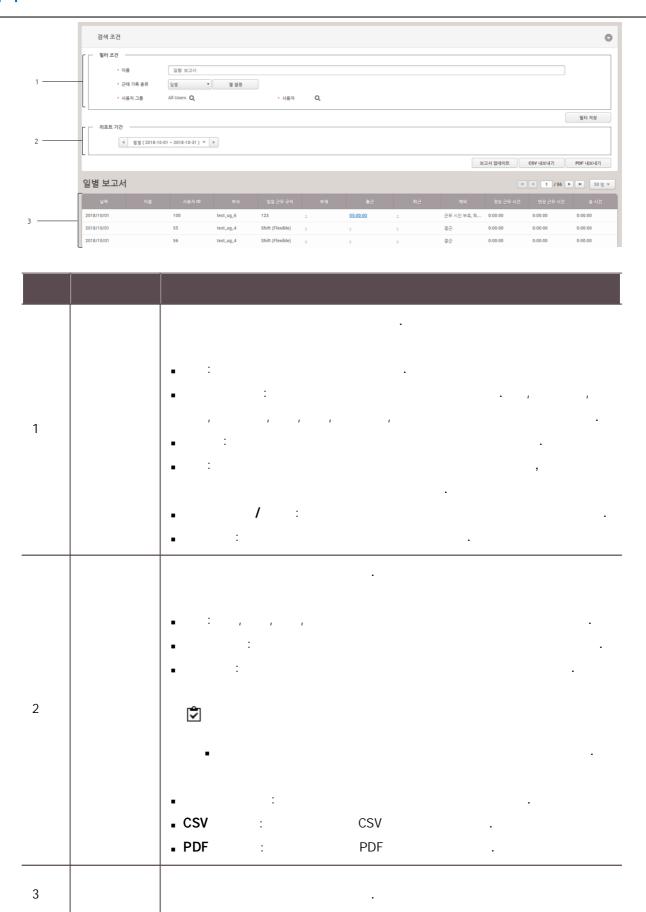
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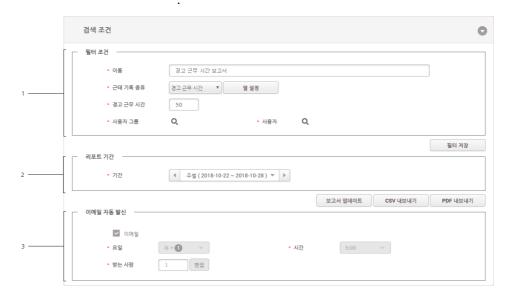
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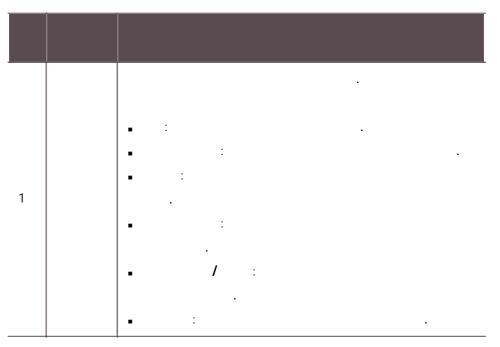


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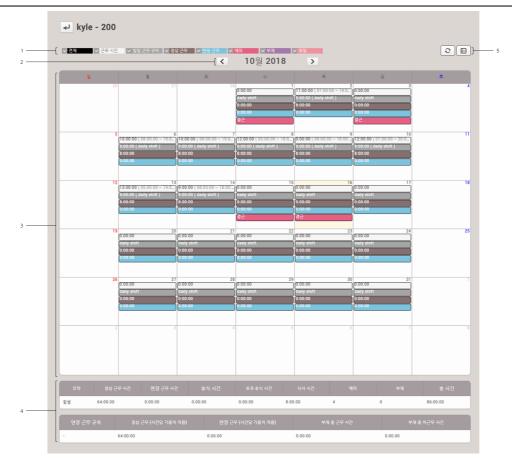
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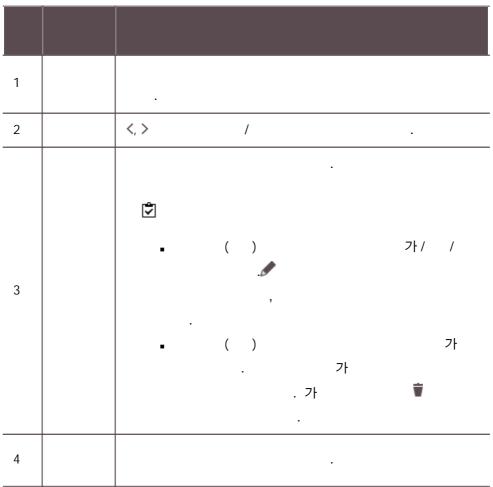
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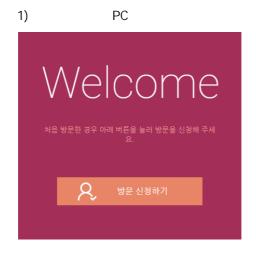
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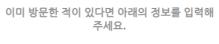
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Ŷ PC PC 가 가 PC 1) PC 이미 방문한 적이 있다면 아래의 정보를 입력해 Welcome 주세요. 이름 2) 3) 4) 방문 신청 정보 출입 정보 2019/05/29 14:04 ~ 2019/05/30 14:04 1

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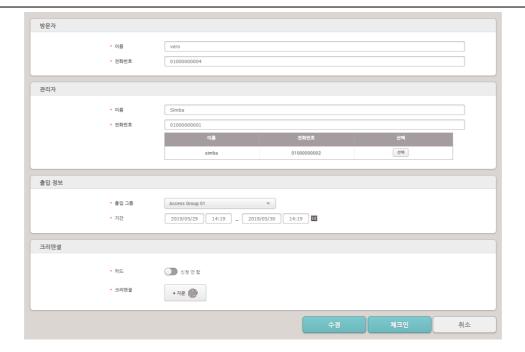


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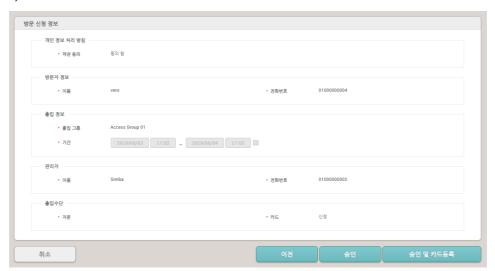
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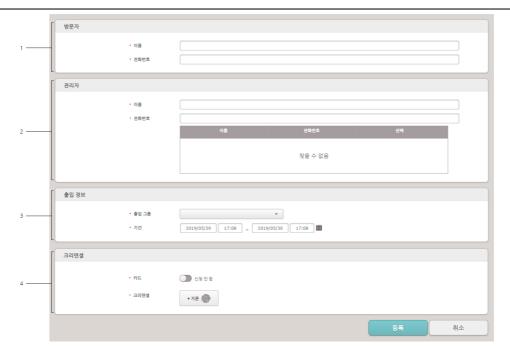
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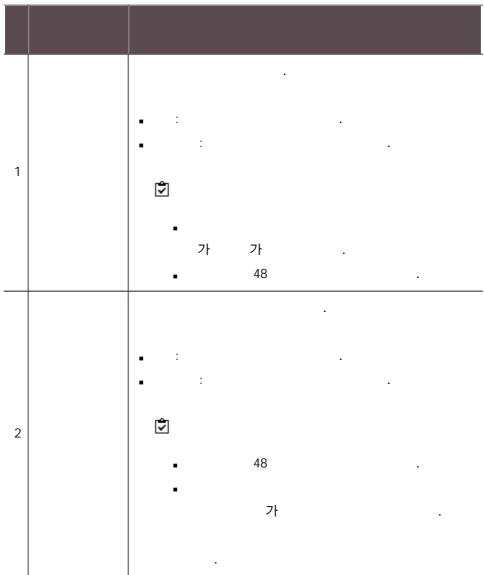
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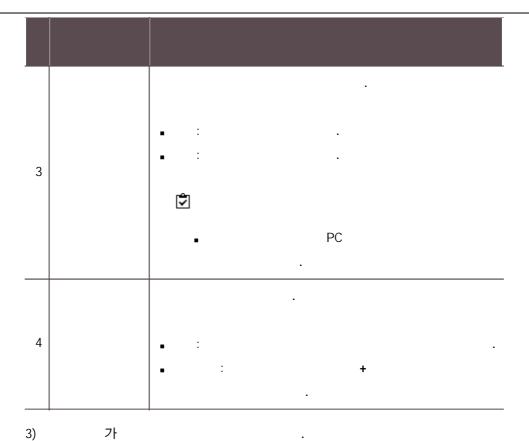
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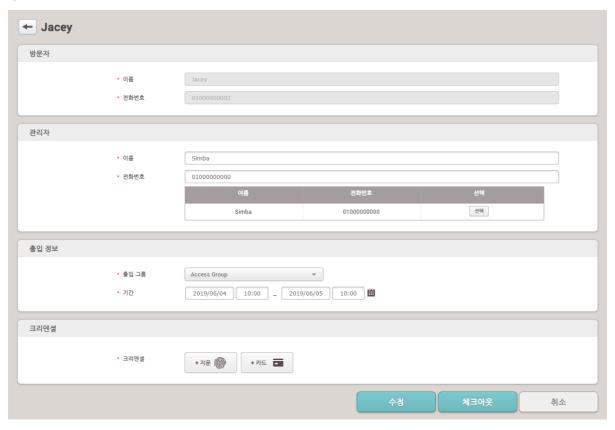
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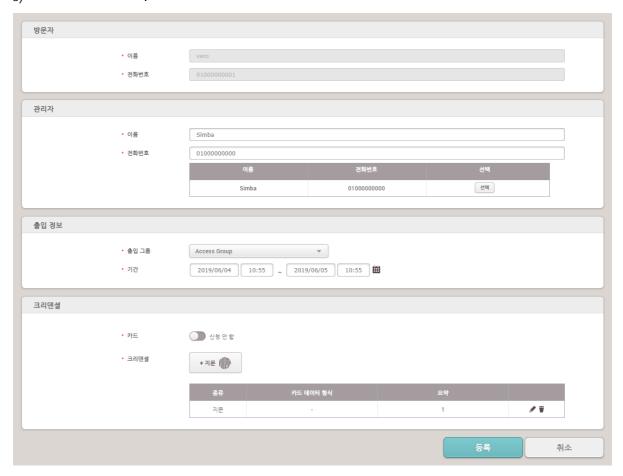
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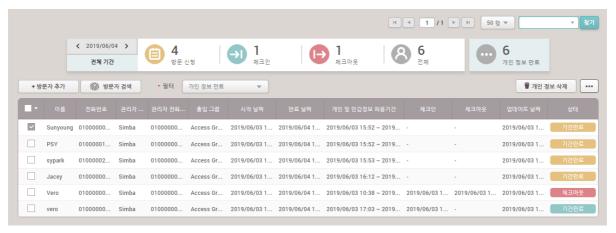
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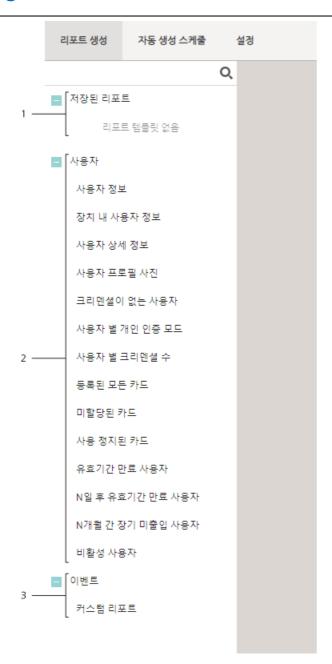
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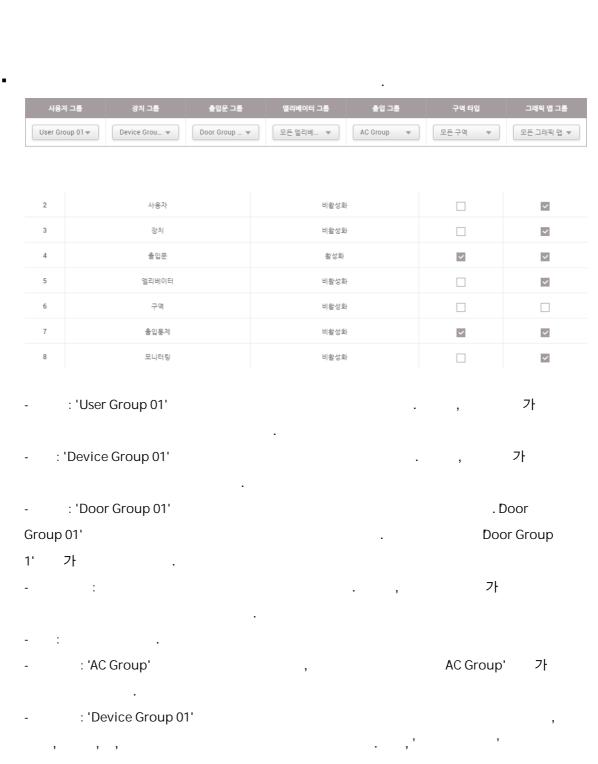


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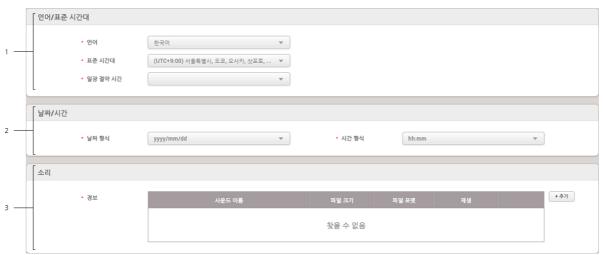
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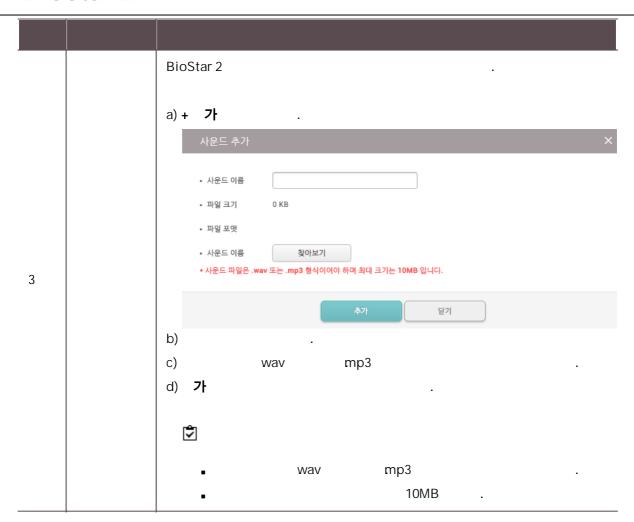
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CSN	4276710323	미할당 카드	-	-
CSN	989777499	미할당 카드	-	-
CSN	1217252008448048	미할당 카드	-	-
CSN	1234938686282624	미할당 카드	-	-
CSN	308871143	미할당 카드	-	-

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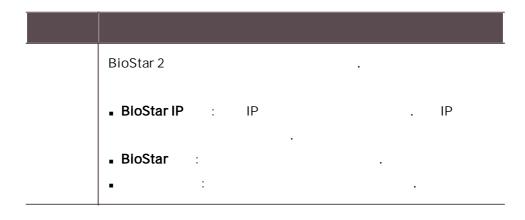
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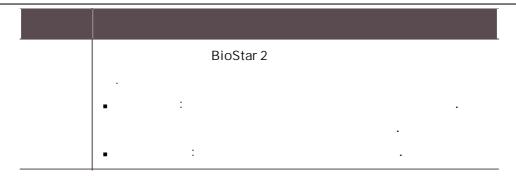
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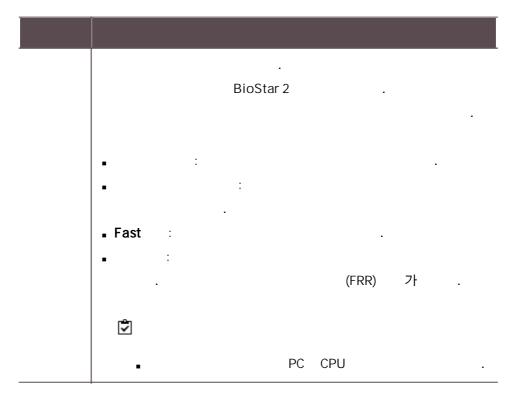
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) NFC OS: Android 5.0 Lollipop ,Android 10 - BioStar 2 Mobile 2.4.1 - XPass S2: XPS2M-V2 2.4 - BioStation 2: BS2-OMPW, BS2-OIPW 1.4 , 1.8 - BioStation A2: BSA2-OMPW, BSA2-OIPW 1.3 ,1.7.1 - BioStation L2: BSL2-OM 1.2 - BioEntry W2: BEW2-OAP, BEW2-ODP 1.1 1.5 - FaceStation 2: FS2-D, FS2-AWB 1.3.1 - BioLite N2: BLN2-ODB, BLN2-OAB, BLN2-PAB 1.2 - XPass D2: XPD2-MDB, XPD2-GDB, XPD2-GKDB - FaceLite: FL-DB 1.1 - XPass 2: XP2-MDPB, XP2-GDPB, XP2-GKDPB, XP2-MAPB 1.0 - BioEntry P2: BEP2-OD, BEP2-OA 1.0 - BioEntry R2: BER2-OD 1.1.0 BLE OS: Android 5.0 Lollipop ,Android 10 /iOS 9.0 - BioStar 2 Mobile 2.4.1 - FaceStation 2: FS2-AWB 1.3.1 - BioLite N2: BLN2-ODB, BLN2-OAB, BLN2-PAB 1.2 - XPass D2: XPD2-MDB, XPD2-GDB, XPD2-GKDB 1.3 - FaceLite: FL-DB 1.1 - XPass 2: XP2-MDPB, XP2-GDPB, XP2-GKDPB, XP2-MAPB 1.0

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- BioStation 3	1.0.0	가	가
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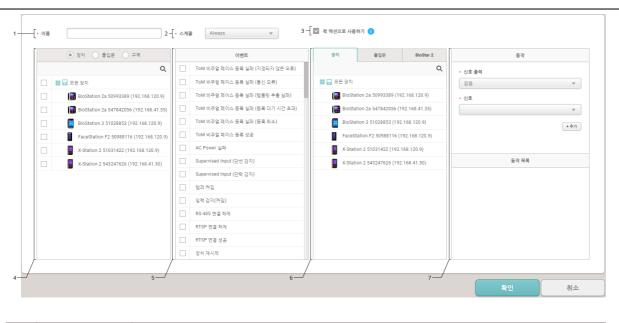
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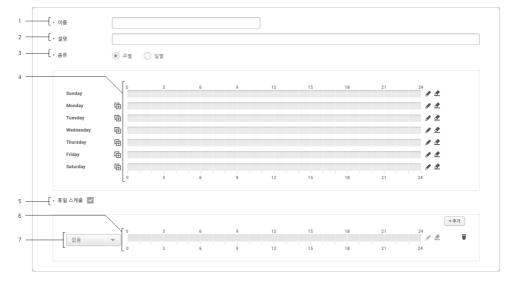
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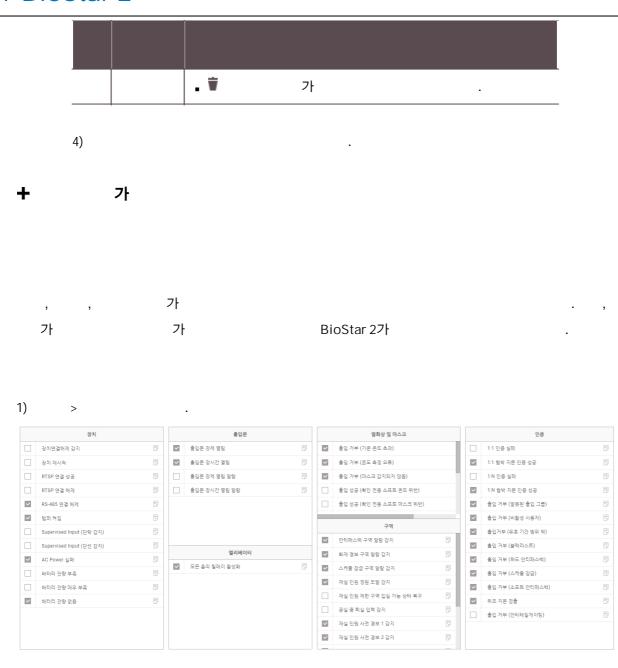
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BioStar 2 HTTPS BioStar 2가 IP . . BioStar 2

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- BioStar 2.7.14 HTTPS
- 1) > **HTTPS**
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- 3) cert-register.exe .Enrollment Certification

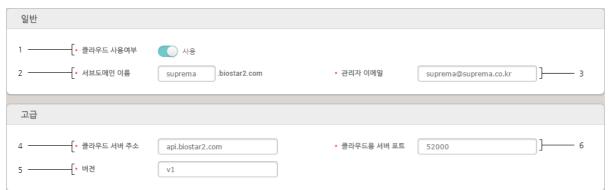


- 4) BioStar 2가 PC IP **Enrollment**
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- 6) IP 가 .

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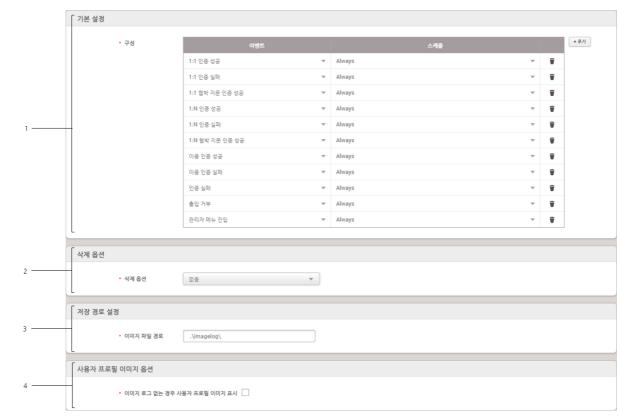
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	바이트 순서는 CSN 카드에 대해서만 적용됩니다.
	• 바이트 순서 ▼
4)	USB Agent가 .
	USB Agent 포트
	USB Agent 클라이언트 별로 등작하는 프로그램으로, 포트 번호 설정은 서비가 해당 포트 번호로 통신하기 위한 용도입니다.
	• USB Agent 포트 번호 8081

BioStar 2

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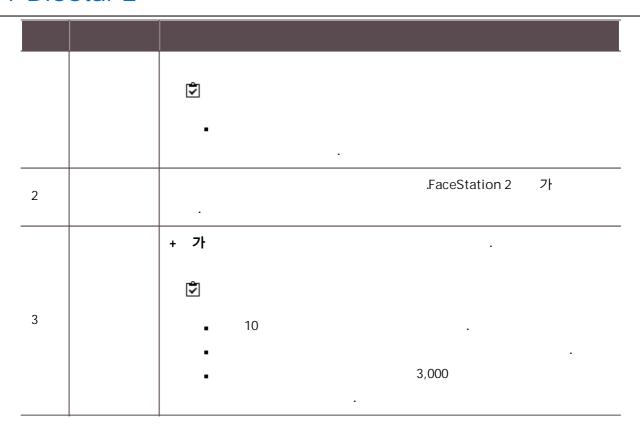
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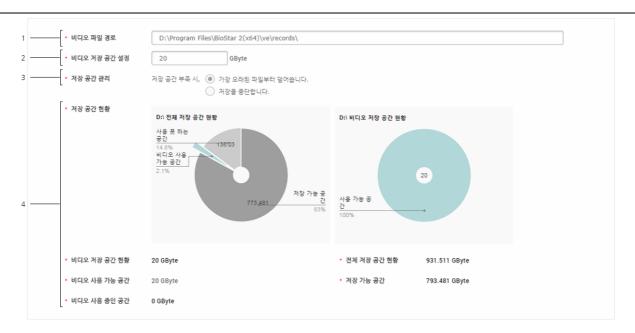


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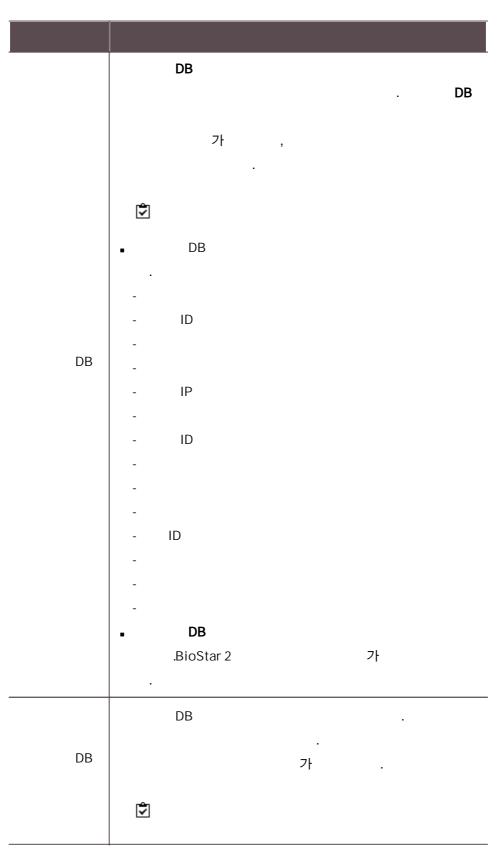
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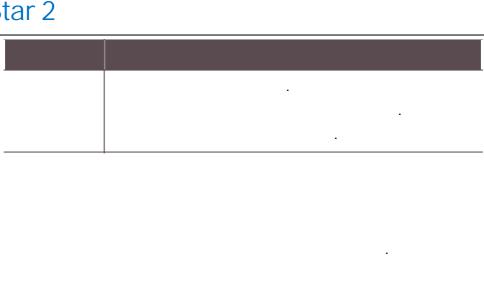
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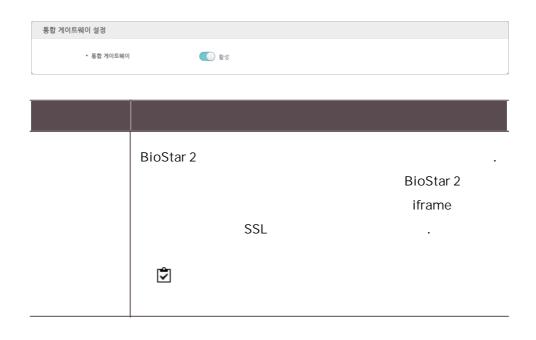


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Microsoft Windows Active Directory

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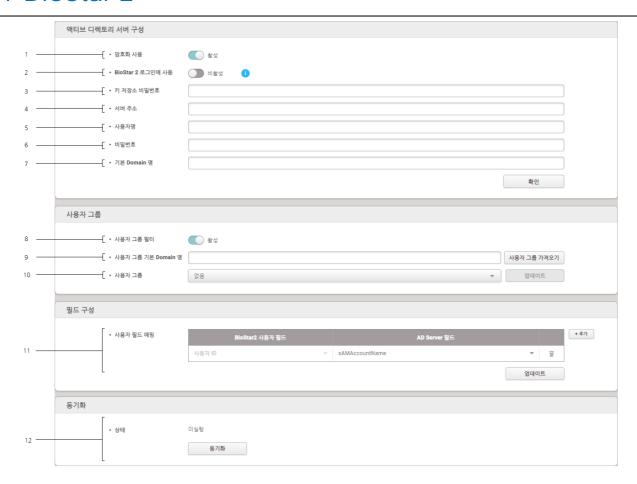
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Windows Active Directory

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1) Windows Active Directory 가 PC

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3) keytool -import -keystore ad.jks -file client.crt jks

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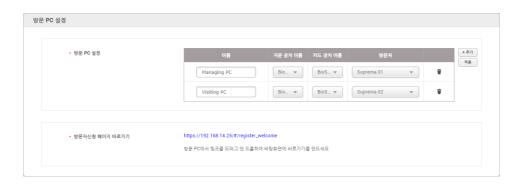
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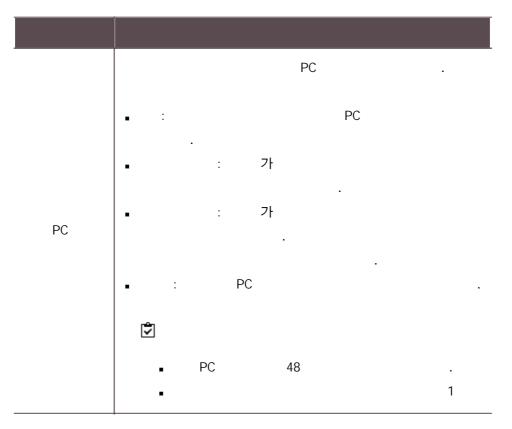
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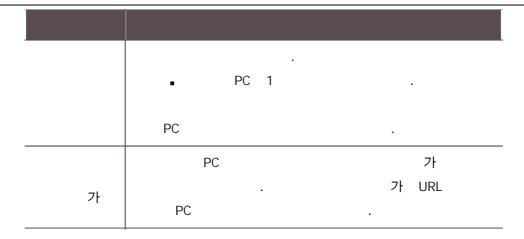
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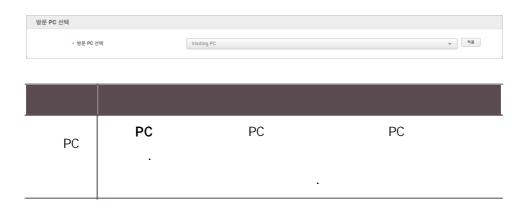
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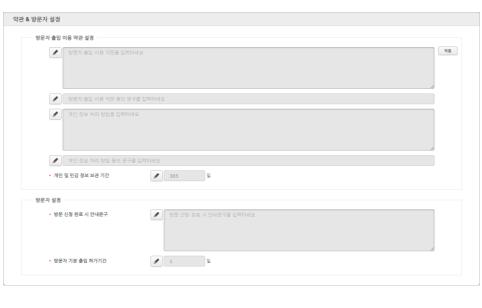


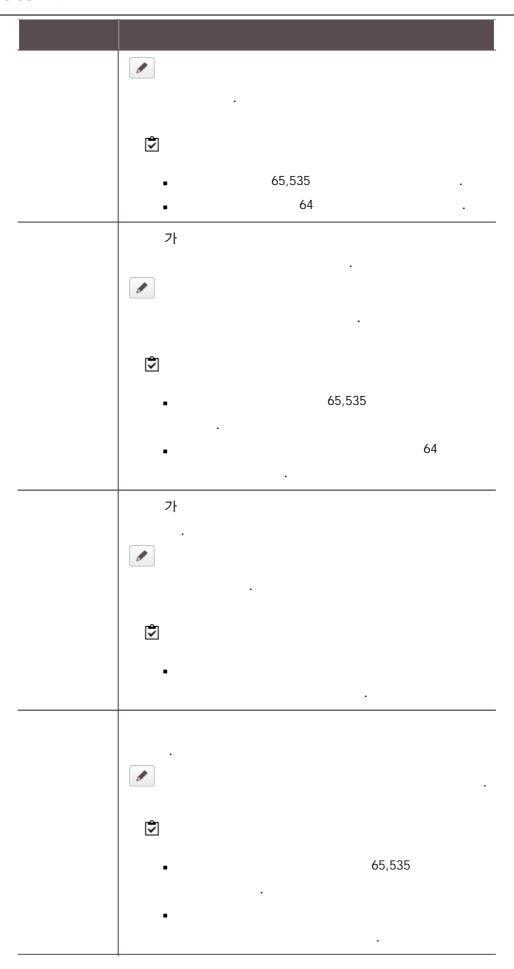


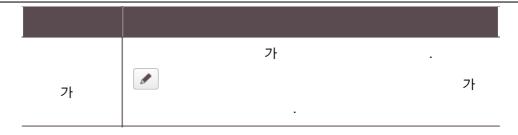
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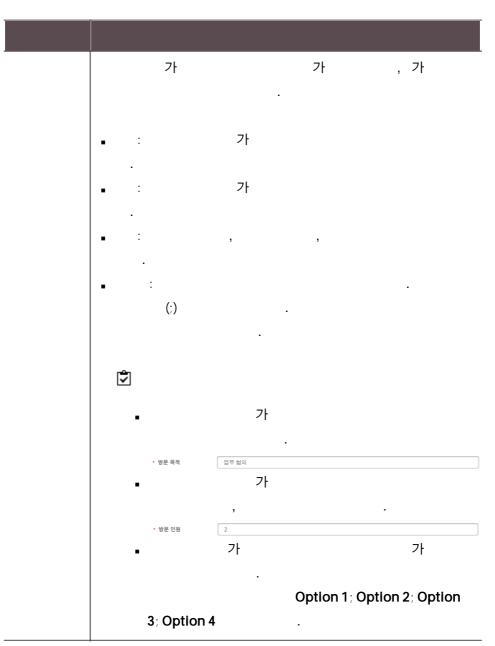
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BioStar 2 Airfob Portal

BioStar 2

Airfob Portal 가



■ CSN Mobile 가

CSN Mobile

- XPass 2 1.1.0
- XPass D2(Rev 2) 1.4.0
- BioLite N2 1.3.0
- BioEntry W2(Rev 2) 1.6.0
- FaceStation 2 1.4.0
- FaceStation F2 1.0.0
- BioStation 2 1.9.0 (NFC)
- BioStation A2 1.8.0 (NFC)
- FaceLite 1.2.0
- X-Station 2 1.0.0
- BioStation 3 1.0.0

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- BioStation 3 1.2.0

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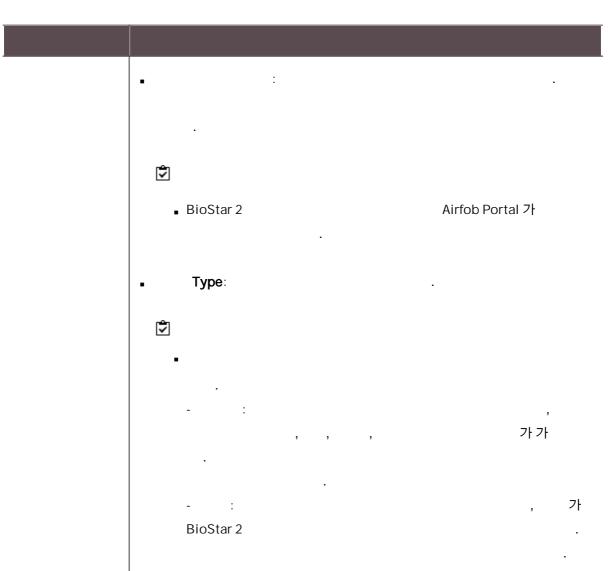
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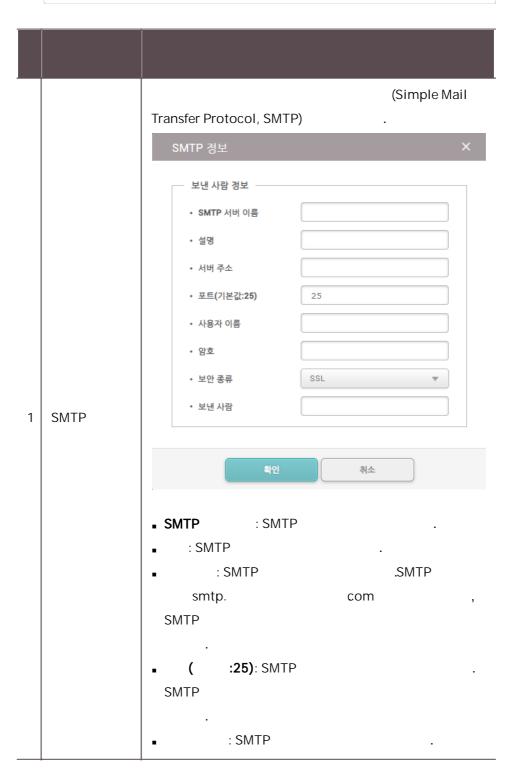




- XPass 2 1.1.0 - XPass D2(Rev 2) 1.4.0 - BioLite N2 1.3.0 - BioEntry W2(Rev 2) 1.6.0 - FaceStation 2 1.4.0 - FaceStation F2 1.0.0 - BioStation 2 1.9.0 (NFC) - BioStation A2 1.8.0 (NFC) - FaceLite 1.2.0 - X-Station 2 1.0.0 - BioStation 3 1.0.0 Airfob Pass 가 QR/ Ŷ 가 QR/ 가 - FaceStation F2, BioStation 3 QR/Barcode - X-Station 2 (XS2-QDPB, XS2-QAPB) QR/Barcode - X-Station 2 (XS2-ODPB, XS2-OAPB, XS2-DPB, XS2-APB) 1.2.0 - BioStation 3 (BS3-DB, BS3-APWB) 1.1.0 QR/Barcode 가

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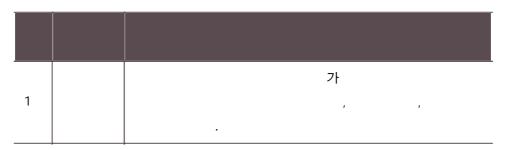
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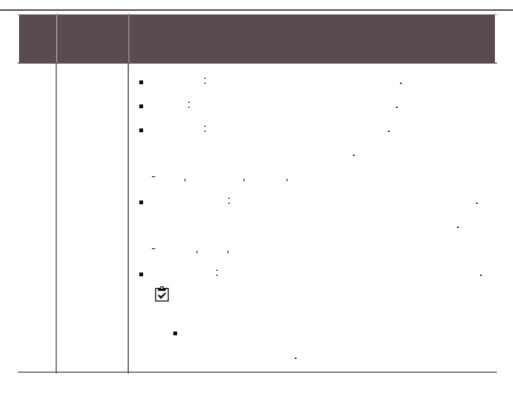
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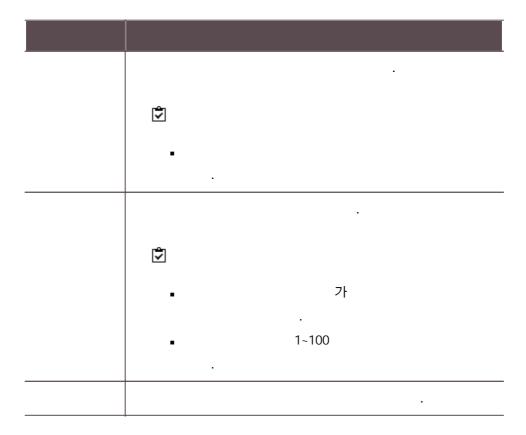
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MSSQL BioStar 2가 PC BioStar 2

- 1) BioStar 2 > BioStar 2 Restore
 - : C:\Program Files\BioStar 2(x64)\biostar-restore.exe
- 2) Select File Restore



- 3) Starting Biostar services...Done 가
- 4) BioStar 2



BioStar 2

가 Ŷ BioStar 2 (https://support.supremainc.com) , 가 (), 가 BioStar 2 (: BioStar 2 V1.0.233, BioLite Net) BioStar 2

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가 https://support.supremainc.com

3 https://support.supremainc.com

MariaDB LGPL client libraries for C and Java

https://mariadb.com/kb/en/client-libraries/

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The LGPL license

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Version 2.1, February 1999

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,

Cambridge, England.

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Written by: Zoltan Herczeg

Email local part: hzmester

Emain domain: freemail.hu

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Sqlcipher

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

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Autoprefixer

https://github.com/postcss/autoprefixer

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Classnames

https://www.npmjs.com/package/classnames

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i18next-http-backend

https://www.npmjs.com/package/i18next-http-backend

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Immer

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prop-types

https://www.npmjs.com/package/prop-types

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react-number-format

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redux-persist

https://github.com/rt2zz/redux-persist

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ngStorage

https://github.com/gsklee/ngStorage

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moment.js

https://github.com/moment/moment

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async.min.js

https://github.com/caolan/async

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ngDraggable.js

https://github.com/fatlinesofcode/ngDraggable

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konva.js

https://konvajs.org

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https://spring.io/projects/spring-boot

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mssqlJdbc

https://github.com/microsoft/mssql-jdbc

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hibernate

https://hibernate.org

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More detailed explanation

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By the 2000s, the LGPL had become one of the most widely used and best known open source licenses. At this time, some Java developers naturally began to adopt the LGPL for their projects as a more permissive and flexible alternative to the GPL. For projects like Hibernate, the LGPL had a simple interpretation in the Java setting, which can be summarized as follows:

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Use in GraalVM native images

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ASL 2.0

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This is mostly due to our work with the Java Community Process: implementing a reference

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annotationApi

https://github.com/javaee/javax.annotation

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BioStar 2.9.5

&

Index

4	M
The state of the s	M
1:N Fast 97	MIFARE 189, 192, 299
1:N 97	
	N.
	N
A	NVR 가 243
Airfob Pass 336	
Airfob Portal 336	
	O
5	OM-120 125
В	Output Module 125
BioMini USB Agent 317	
BioStar 2 295	
BioStar 2 / 295	P
BioStar 2 68	PIN 172
BioStar 2 314	
BioStar 2 4	
BioStar 2 62	R
BioStar 2 49	RS-485 93
BioStar 2 295	
BioStar 2 63	
	S
	SIP 120
C	Soft APB 144
CoreStation 129	Supervised Input 124
CSN 186	
CSN 186	_
CSN 186	l .
CSN 97	TCP/IP 93
CSV 166	
6	U
D	Unified Gateway 66
DESFire 189, 192, 299	USB 가 169
DM-20 124	
	VAZ
ш	W
Н	Wiegand 116, 298
Hard APB 144	Wiegand 135
HTTPS 313	Wiegand 80
	Wiegand 187
The second secon	Wiegand 297
1	Wiegand 187
iCLASS 189, 192, 299	Wiegand 187
IM-120 126	
Input Module 126	7
IP 246	Z
IP 가 245	319
	173

Index

73	160		
312	327		
가 295	가 169		
235	162		
212	203		
251	302		
73	70		
302	302		
234	97, 302		
238, 239	302		
260	322 97		
107, 248			
268	97		
107	218		
107	189, 299		
264	97		
107	192		
271	192		
73	97		
258 73	211 210		
73	가 310		
97	81		
302	81		
302	250		
60	251		
97	322		
92	47		
336	228		
189	229		
302	117		
LAN 93	144, 145		
136	206		
232	206		
353	189		
73	327		
97	318		
274	177		
274	97		
109	147		
109	- 150		
189	- 153		
116	- 151		
242	- 149		
320	147		
322	153		
322	가 149		
322	236		
322	251		
-BioStar 162	251		
ID 302	115, 315		
291	315		

Index

```
97
                              231
    225
                              140
                             145
    142
                             157
    97
                                  146
    216
    93
                            233
    251
                             296
                             298
   126
   140
                             117
   251
308
204
                             92
                             가 292
                             302
   106
                             129
   93
                             314
  97
92
                           109
                             97
66
        114
  / 109
                             140
                             140
92
89
ID 92
Wilegand 116
  77
80
   106
                             92
   76
92
                             251
                             175
   77
                            109
                            208
   302
   109
                           가 310
   230
   90
   109
     97
     90
       201
88
       219
       219
   251
   225
   257
LFD 97
   175
   &
              251
   125
   158
   156
   155
   140
   142
   140
    138
    140
```



(주) 슈프리마

13554 경기도 성남시 분당구 정자일로 248 파크뷰타워 17층 영업 문의 1522 4507(1번) korea@suprema.co.kr | 고객지원 1522 4507(2번) cs@suprema.co.kr

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