

# BioStar 2.9.5

관리자 가이드

한국어

KO 102.00.BS2.V2.9.5

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# 1 BioStar 2

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BioStar 2

PC

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,API,

,SDK

	1,000
(RS-485)	31 ( 8 )
RS-485	OSDP
	/ /
	&
USB	BioMini, BioMini Plus 2, DUALi DE-620
	8
	10
iCLASS Seos	
	2,048 ( )
	2,048 ( )
	16
	128
	128
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## 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

# 1 BioStar 2

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- BioEntry W2: 1.8.0
- FaceStation 2: 1.5.4
- CoreStation: 1.6.1
- 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

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## BioStar 2.9.4

	▪ UI
	▪ 가
	▪
	▪ BioStation 2a
	▪ CoreStation

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

# 1 BioStar 2

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- 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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## BioStar 2.9.3

	<ul style="list-style-type: none"><li>▪ 가</li><li>▪ , , , , , , , ,</li></ul>
	<ul style="list-style-type: none"><li>▪ XPass D2</li><li>▪ BioStation 3 QR</li></ul>

# 1 BioStar 2

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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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## BioStar 2.9.2

# 1 BioStar 2

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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

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## BioStar 2.9.1

# 1 BioStar 2

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	▪ ▪ 가
	▪ CSV
	▪ CoreStation OSDP

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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

# 1 BioStar 2

## BioStar 2.9.0

	▪
	▪ 가 ▪ 가 ▪ 가
	▪ BioStation 3(BS3-DB, BS3-APWB) ▪ ,

- 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



# 1 BioStar 2

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- DM-20: 1.2.2
  - IM-120: 1.0.0
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## BioStar 2.8.17

	<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>

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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

# 1 BioStar 2

- IM-120: 1.0.0

## BioStar 2.8.16

	<ul style="list-style-type: none"> <li>▪ 가</li> <li>▪ setting.config 가</li> <li>▪ 가</li> <li>▪ ,</li> </ul>
	<ul style="list-style-type: none"> <li>▪ -</li> <li>▪ - 가</li> <li>▪ CSV 가</li> <li>▪ 가</li> <li>▪ QR 가</li> </ul>
	<ul style="list-style-type: none"> <li>▪ USB Device Agent</li> <li>▪ 가</li> <li>▪ CoreStation X-Station 2</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 가</li> <li>▪ ' ' 가</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ -</li> <li>▪ -</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 가</li> <li>▪ BioStar 2</li> </ul>

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4

# 1 BioStar 2

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- 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

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## BioStar 2.8.15

	<ul style="list-style-type: none"><li>▪ Log4j 2 2.17.1</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4

# 1 BioStar 2

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- 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

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## BioStar 2.8.14

	<ul style="list-style-type: none"><li>▪ OpenJDK</li><li>▪ Log4j 2 2.16.0</li><li>▪</li><li>▪ Swagger API</li><li>▪</li><li>▪</li><li>▪ BioStar 1.x to BioStar 2.x Migration Tool 26 bit Wiegand</li></ul>

# 1 BioStar 2

	<ul style="list-style-type: none"> <li>▪ CSV                      PIN</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Input Module (IM-120)</li> <li>▪ CoreStation                      1:N</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>

- 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

# 1 BioStar 2

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- DM-20: 1.2.1
  - IM-120: 1.0.0
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## BioStar 2.8.13

	<ul style="list-style-type: none"><li>▪ API 가</li><li>▪ 가 SSL</li><li>▪ TLS 1.2</li><li>▪ Swagger TA API</li><li>▪</li></ul>

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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

# 1 BioStar 2

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- OM-120: 1.2.0
  - Secure I/O 2: 1.3.0
  - DM-20: 1.2.1
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## BioStar 2.8.12

	▪ X-Station 2 (XS2-ODPB, XS2-OAPB)

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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: 1.0.3
- OM-120: 1.2.0
- Secure I/O 2: 1.3.0
- DM-20: 1.2.1

## BioStar 2.8.11

	<ul style="list-style-type: none"><li>▪ Swagger API</li><li>▪</li></ul>
	<ul style="list-style-type: none"><li>▪ - QR/</li></ul>
	<ul style="list-style-type: none"><li>▪ X-Station 2 (XS2-QDPB, XS2-QAPB, XS2-DPB, XS2-APB)</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>
	<ul style="list-style-type: none"><li>▪ QR/</li></ul>

- 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



# 1 BioStar 2

- 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

	<ul style="list-style-type: none"> <li>▪ New Local API</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ ' ' (Drag&amp;Drop)</li> <li>▪</li> <li>▪ 가</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 가</li> <li>▪ OSDP Intelligent Slave</li> <li>▪ FaceStation 2, FaceStation F2</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>

- 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

# 1 BioStar 2

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- 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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	▪ ▪ 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: 1.9.0
- BioStation A2: 1.8.0
- BioStation L2: 1.6.0
- BioEntry W2: 1.6.1



# 1 BioStar 2

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- 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

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## BioStar 2.8.6

	<ul style="list-style-type: none"><li>▪ FaceStation 2</li><li>▪</li><li>▪ FaceStation F2</li><li>▪ BioEntry W2 (Rev 2)</li></ul>

- 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

# 1 BioStar 2

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- 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 2.8.5

	<ul style="list-style-type: none"><li>▪ Wiegand</li><li>▪</li><li>▪</li></ul>

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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: 1.8.0
- 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

# 1 BioStar 2

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## BioStar 2.8.4

	<ul style="list-style-type: none"><li>▪ New Local API</li><li>▪ Web-App, CGI server system.conf</li><li>▪ TLS V1.1</li><li>▪ Thrift</li><li>▪ Redis</li></ul>
	<ul style="list-style-type: none"><li>▪ CSV</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>

- 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

# 1 BioStar 2

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	<ul style="list-style-type: none"><li>▪</li></ul>
	<ul style="list-style-type: none"><li>▪ CoreStation</li><li>▪ BioLite N2</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>

- 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

---

## BioStar 2.8.2

	<ul style="list-style-type: none"><li>▪ LFI(Local File Inclusion)</li></ul>

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

# 1 BioStar 2

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- 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

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## BioStar 2.8.1

	▪ MS SQL Server 2019
	▪ , , , ,

- 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



# 1 BioStar 2

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- 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

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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: 1.8.0
  - 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

# 1 BioStar 2

	<ul style="list-style-type: none"> <li>MS SQL Windows Authentication</li> <li>MS SQL Server 2017</li> <li>BioStar 2 API API</li> </ul>
	<ul style="list-style-type: none"> <li>XPass D2 (Rev 2)</li> </ul>
	<ul style="list-style-type: none"> <li></li> <li></li> </ul>

- 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

## BioStar 2.7.12

	<ul style="list-style-type: none"> <li></li> </ul>
	<ul style="list-style-type: none"> <li></li> <li></li> </ul>

- BioLite Net: 2.3.5

# 1 BioStar 2

- 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: 1.5.1
- 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

## BioStar 2.7.11

	▪
	▪ IP 가
	▪ ( )
	▪ ID,
	▪
	▪ )' 가 ' (

- 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: 1.5.1

# 1 BioStar 2

- 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

## BioStar 2.7.10

	<ul style="list-style-type: none"> <li>▪ FaceLite</li> <li>▪ XPass 2</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> <li>▪</li> <li>▪</li> </ul> <p style="text-align: right;">/ 가</p>
	<ul style="list-style-type: none"> <li>▪ USB (BioMini, BioMini Plus, BioMini Plus 2)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Setting.conf 가</li> </ul>

- 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

# 1 BioStar 2

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- XPass D2: 1.2.0
  - FaceLite: 1.1.0
  - XPass 2: 1.0.1
  - OM-120: 1.1.0
  - Secure I/O 2: 1.2.4
  - DM-20: 1.1.5
- 

## BioStar 2.7.8

	<ul style="list-style-type: none"><li>▪ CoreStation</li><li>▪</li><li>▪ /</li><li>▪</li><li>▪ Wiegand</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>
	<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>

- 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

# 1 BioStar 2

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## BioStar 2.7.7

	▪
	▪ 가
	▪ 가

- 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 2.7.6

	▪ BioStar 1.x to BioStar 2.x Migration Tool 가
	▪ APB
	▪ 가
	▪ 가

# 1 BioStar 2

	<ul style="list-style-type: none"> <li>FastCGI 9000</li> </ul>

- 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 2.7.5

	<ul style="list-style-type: none"> <li>,</li> </ul>
	<ul style="list-style-type: none"> <li>RS-485</li> <li>AoC</li> <li>FaceStation 2</li> </ul>
	<ul style="list-style-type: none"> <li></li> </ul>
	<ul style="list-style-type: none"> <li>AoC</li> </ul>
	<ul style="list-style-type: none"> <li>가</li> <li>setting.conf 9000</li> <li>AoC</li> </ul>

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4

# 1 BioStar 2

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- 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 2.7.4

	▪ 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



# 1 BioStar 2

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- 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

	<ul style="list-style-type: none"><li>▪ 가 가</li><li>▪ 가</li></ul>
	<ul style="list-style-type: none"><li>▪</li></ul>

- 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
- 

## BioStar 2.7.2

	<ul style="list-style-type: none"><li>▪</li><li>▪</li></ul>

# 1 BioStar 2

	<ul style="list-style-type: none"> <li>▪ 24 /</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 가</li> <li>▪</li> <li>▪ 가</li> <li>▪</li> <li>▪</li> </ul>

- 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

## BioStar 2.7.1

	<ul style="list-style-type: none"> <li>▪ ( )</li> <li>▪ OM-120 1</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> <li>▪ 가</li> </ul>

# 1 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: 1.7.0
- 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 2.7.0

	<ul style="list-style-type: none"> <li>▪ , , ,</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 가 가</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> <li>▪ CSV</li> <li>▪</li> <li>▪</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> <li>▪ DESFire      AES</li> <li>▪ DESFire</li> </ul>

- BioLite Net: 2.3.5
- BioEntry Plus: 2.3.4
- BioEntry W: 2.3.4
- XPass: 2.4.4
- XPass S2: 2.4.4

# 1 BioStar 2

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- 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

# 1 BioStar 2

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	▪

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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

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## BioStar 2.6.2

	▪ (USB) 가
	▪
	▪ (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

# 1 BioStar 2

- 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 2.6.0

	<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> <li>▪</li> <li>▪</li> <li>▪</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ ID 가</li> <li>▪ iCLASS Seos</li> <li>▪ Wiegand 16</li> <li>▪ AoC</li> <li>▪ Wiegand Legacy</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ BioLite N2</li> <li>▪ XPass D2</li> <li>▪ BioMini Plus 2</li> <li>▪ ( )</li> <li>▪ Wiegand In/Out</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ MS SQL</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 가</li> </ul>

# 1 BioStar 2

- 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: 1.1.0
- BioEntry R2: 1.1.0
- BioLite N2: 1.0.0
- XPass D2: 1.0.0
- OM-120: 1.0.0
- Secure I/O 2: 1.2.1
- DM-20: 1.1.2

## BioStar 2.5.0

	<ul style="list-style-type: none"> <li>▪ https</li> <li>▪ Oracle</li> </ul>
	<ul style="list-style-type: none"> <li>▪ CoreStation</li> <li>▪ BioEntry P2</li> <li>▪ BioEntry R2</li> <li>▪ (BioLite Net )</li> </ul>
	<ul style="list-style-type: none"> <li>▪ ( )</li> </ul>
	<ul style="list-style-type: none"> <li>▪ , : 가</li> <li>▪ :</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ NVR (ACTi, Dahua, Hikvision)</li> <li>▪ IP</li> </ul>
	<ul style="list-style-type: none"> <li>▪ : 가</li> <li>▪</li> </ul>

- BioLite Net: 2.3.3
- BioEntry Plus: 2.3.3
- BioEntry W: 2.3.3

# 1 BioStar 2

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- 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

	<ul style="list-style-type: none"> <li>▪ (NFC, BLE)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ FaceStation 2</li> </ul>
	<ul style="list-style-type: none"> <li>▪ UI/UX</li> <li>▪</li> <li>▪</li> <li>▪ 가</li> <li>▪</li> <li>▪ 가</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>

- 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



# 1 BioStar 2

	<ul style="list-style-type: none"> <li>▪ Oracle Database 11g, 12c</li> </ul>
	<ul style="list-style-type: none"> <li>▪ OM-120</li> <li>▪ USB (DUALi DE-620)</li> <li>▪ BioStar 2</li> </ul>
	<ul style="list-style-type: none"> <li>▪ PDF</li> </ul>
	<ul style="list-style-type: none"> <li>▪ ID ( / )</li> <li>▪ dd/mm/yyyy</li> </ul>

- 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

## BioStar 2.3.0

	<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ CSV 가 /</li> </ul>
	<ul style="list-style-type: none"> <li>▪ BioStation A2 (SIP )</li> <li>▪</li> <li>▪ 가</li> </ul>
	<ul style="list-style-type: none"> <li>▪</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Wiegand</li> <li>▪ Wiegand</li> <li>▪ BioStar 2 (.wav, .mp3)</li> <li>▪ 가 ( 32 )</li> </ul>

# 1 BioStar 2

---

- BioLite Net: 2.3.0
  - BioEntry Plus: 2.3.0
  - BioEntry W: 2.3.0
  - XPass: 2.3.0
  - XPass S2: 2.3.0
  - BioStation 2: 1.3.0
  - BioStation A2: 1.2.0
  - BioStation L2: 1.1.0
  - BioEntry W2: 1.0.0
- 

## BioStar 2.2.2

- BioEntry W2
  
  - 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
  - BioEntry W2: 1.0.0
- 

## BioStar 2.2.1

- BioStation L2
- 
- 
- 
- 가
- 
  
- BioLite Net: 2.2.3
- BioEntry Plus: 2.2.3
- BioEntry W: 2.2.3
- XPass: 2.2.3

# 1 BioStar 2

---

- 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
  - /
  - 
  - 
  - 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
- ,
- 
- BioStar 2
- BioStar 2
- 
- 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

# 1 BioStar 2

---

## BioStar 2.0.1

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

BioStar 2

PC BioStar 2

BioStar 2

BioStar 2

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

BioStar 2

## BioStar 2

		1~50	51~100	101~1,000
(	)	Windows 7(SP1), Windows 8, Windows 8.1, Windows 10, Windows 11, Windows Server 2008 R2(SP2), Windows Server		

		2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, Windows Server 2022		
		<ul style="list-style-type: none"> <li>Mac OS</li> <li>Windows 가</li> </ul>		
		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		
	CPU	2 GHz	4 GHz	4 GHz 16
	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 75		
		<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Google 93</li> </ul> </li> </ul>		

**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 2가 PC BioStar 2가 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



- 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	
2.6.4	



```
character-set-server=utf8
collation-server=utf8_unicode_ci
max_connections = 600
```

- my.cnf [mysqld] 가 .

```
log_bin_trust_function_creators = 1
group_concat_max_len = 102400
```

- root MariaDB .

```
> GRANT SUPER ON . TO user_id@'localhost' IDENTIFIED BY "P
> 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) .
  - c) SQL Server
  - d) .
  - e) .
  - f) .
  - g) .
  - h) . c)



- i) (MB) 3000  
가/ 10MB

**Windows Authentication**

**1.**

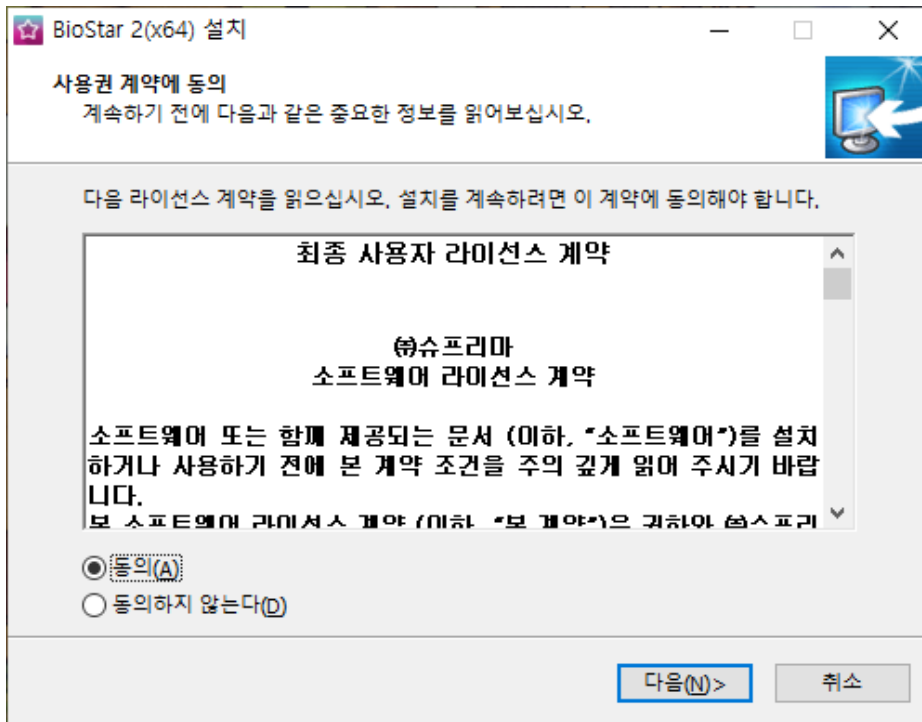
Microsoft Windows Active Directory Windows Authentication

- a) **SQL Server Management Studio**
- b)
- c) **Windows**
- d) Active Directory
- e) >
- f)
- g) **sysadmin**
- h)
- i) **ac, master, ta, ve** **dbo**
- j)

**2. Active Directory MS SQL Windows Authentication**

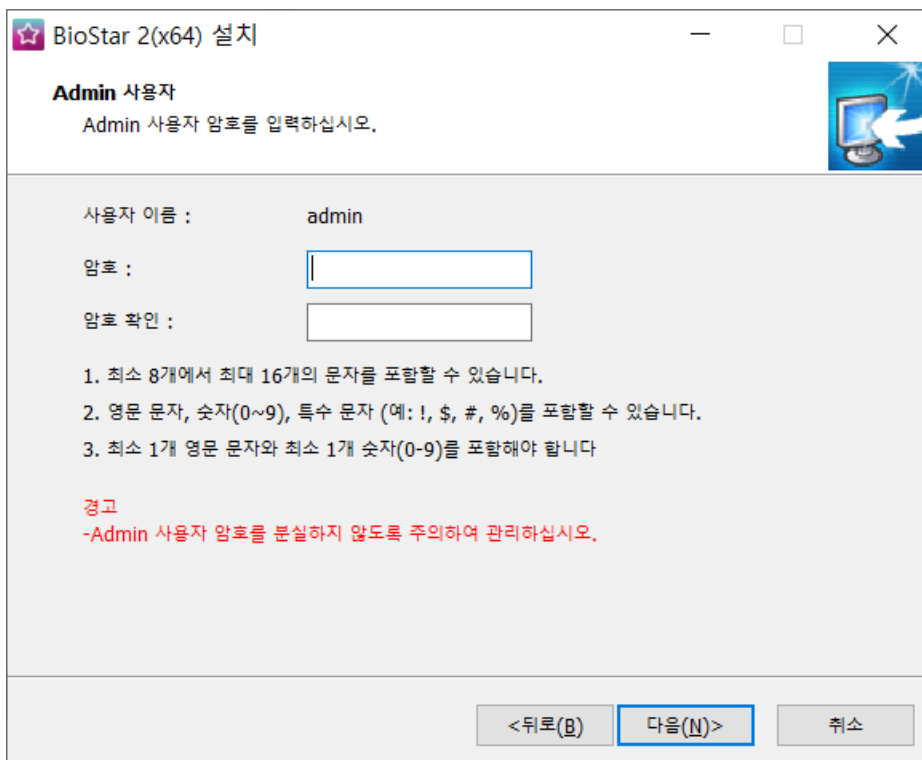
- a) **services.msc** MSSQL DB >
- b) Windows 1433 가
- c) MS SQL **ac, ta, ve** **sysadmin**
- d) MS SQL 가 Windows Authentication  
**ac, ta, ve** **sysadmin**
- e) **services.msc**
- f)
- g) MS SQL ODBC





4)

BioStar 2

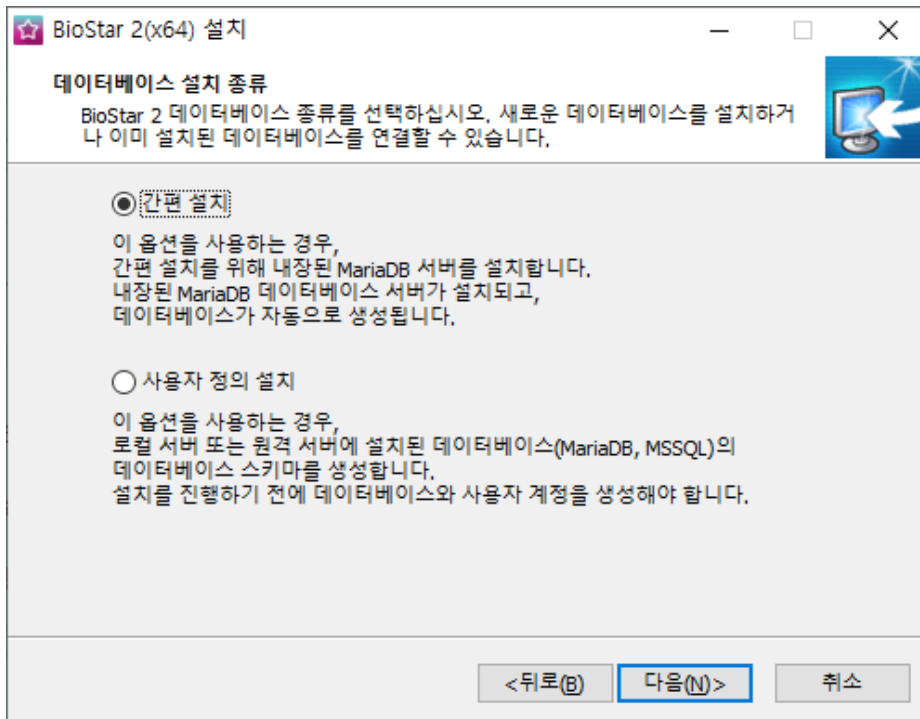


5) BioStar 2

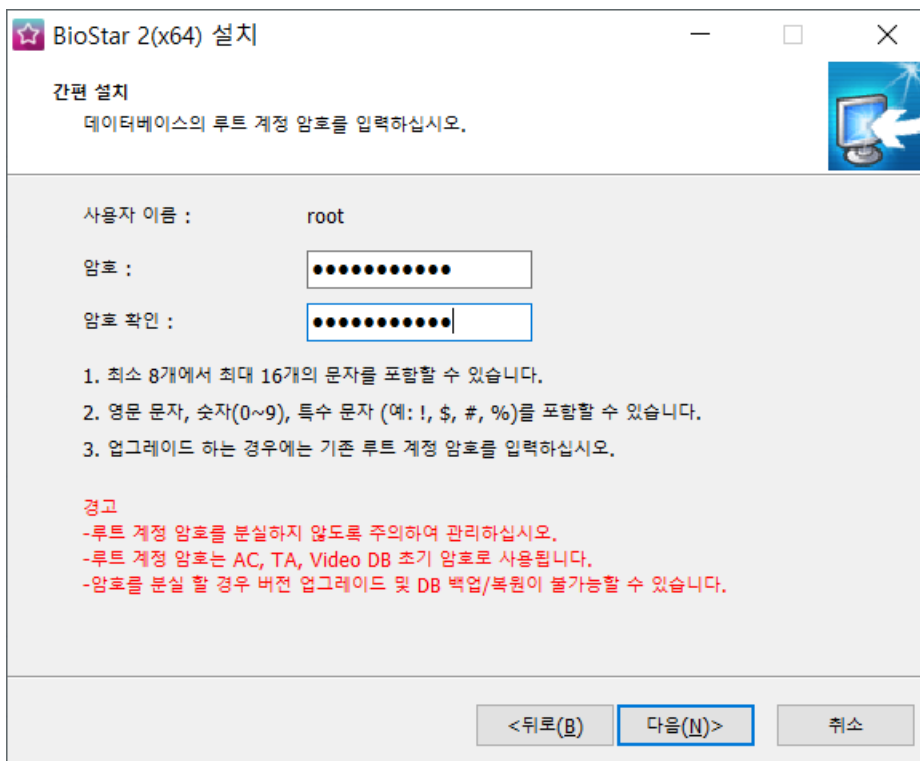
MariaDB

MariaDB

.BioStar 2



6)



**BioStar 2(x64) 설치**

**사용자 정의 설치**  
 데이터베이스 종류를 선택한 경우, 사용자 계정에 루트 권한이 있는 계정 정보를 입력하셔야 합니다.

DB 종류 :

서버 IP :

서버 포트 :

AC DB name :

AC 사용자 이름 :

AC 암호 :

TA DB name :

TA 사용자 이름 :

TA 암호 :

VE DB name :

VE 사용자 이름 :

VE 암호 :

**경고**  
 -모든 데이터베이스 및 테이블의 Collation은 대소문자를 구분하지 않는 CI(case-insensitive)로 설정하십시오.

데이터베이스 테이블 생성

<뒤로(B)    **다음(N)>**    취소



- 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

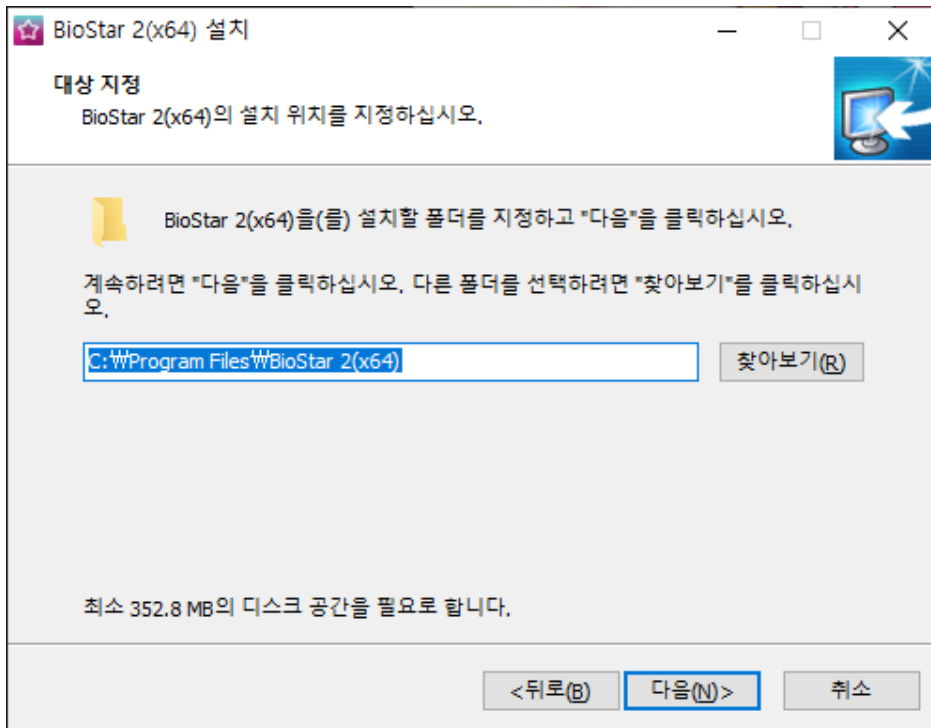
- MS SQL Server

C:

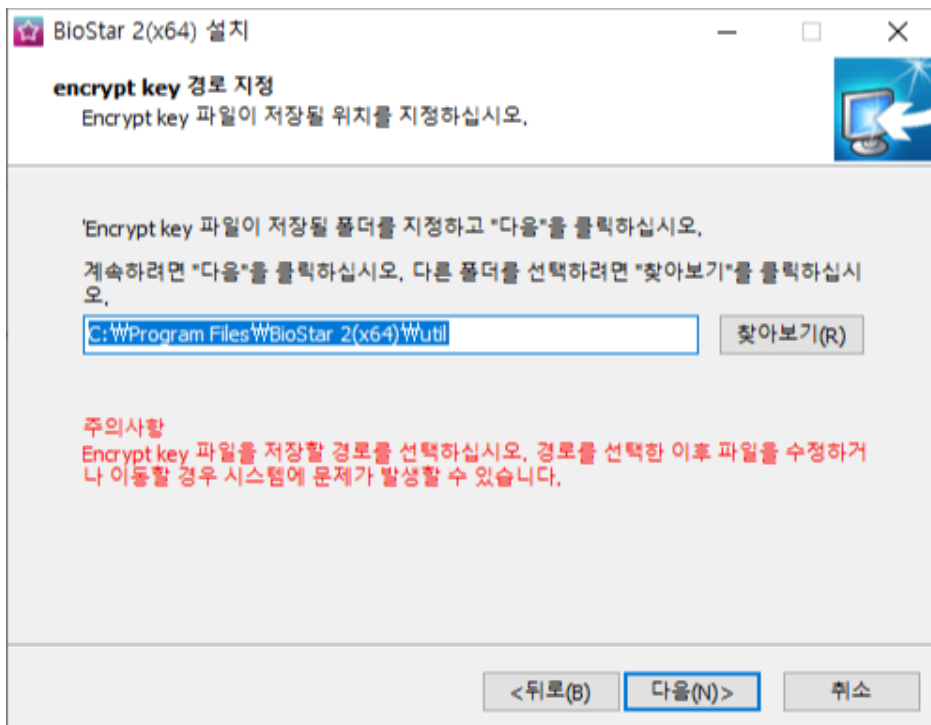
\Program Files\BioStar 2(x64)\dbscript\mssql

- AC DB name, TA DB name, VE DB name

7) BioStar 2



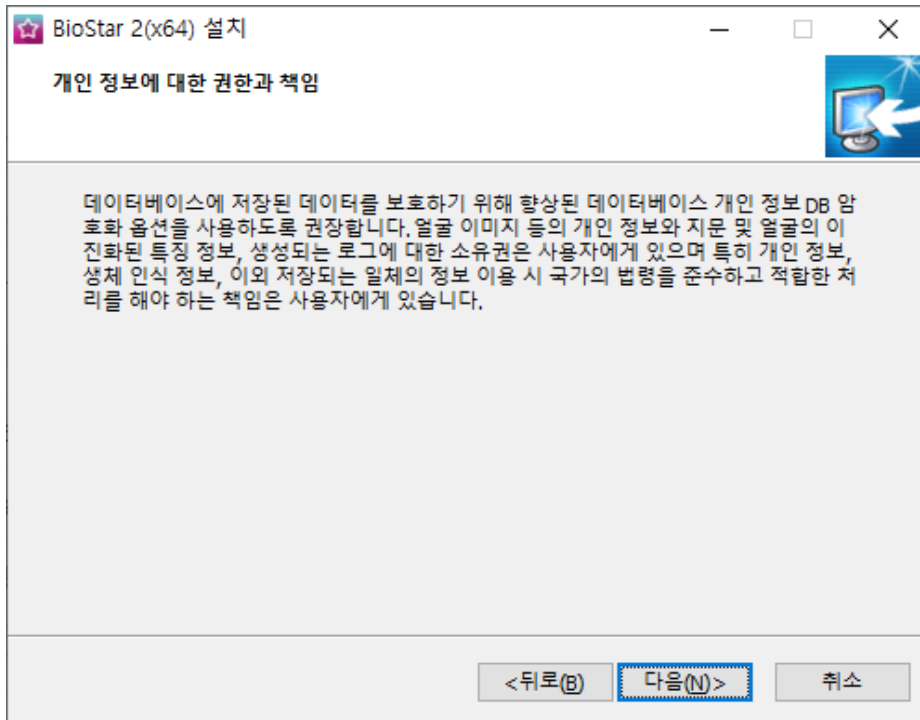
8)



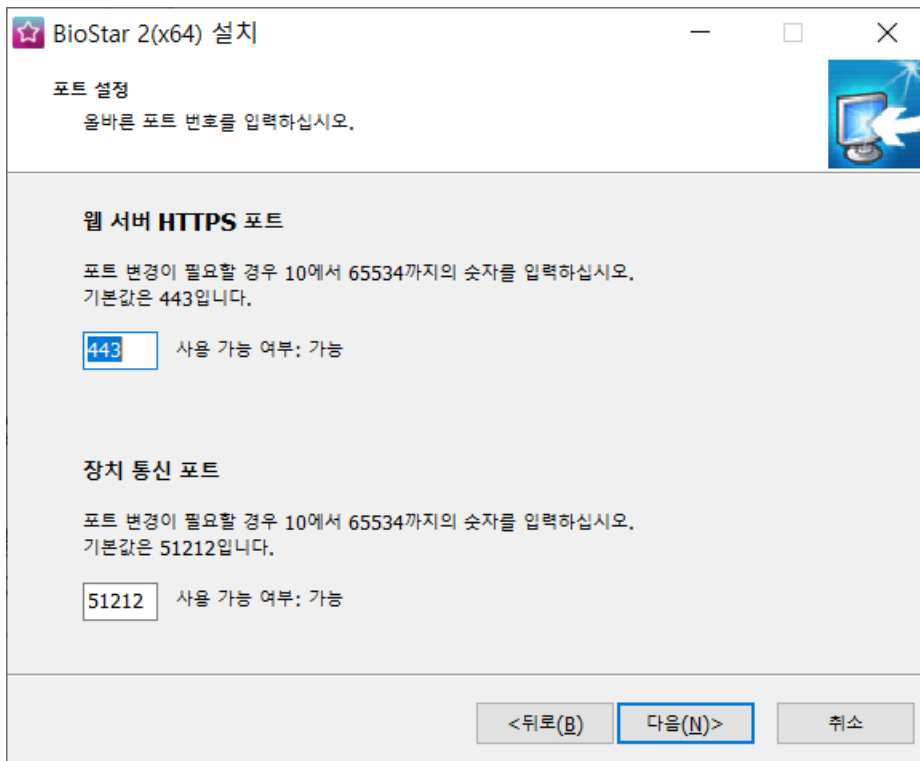
- 가

- BioStar 2

9)



10) BioStar 2



- BioStar 1 BioStar 2 PC (51212)

11) BioStar 2

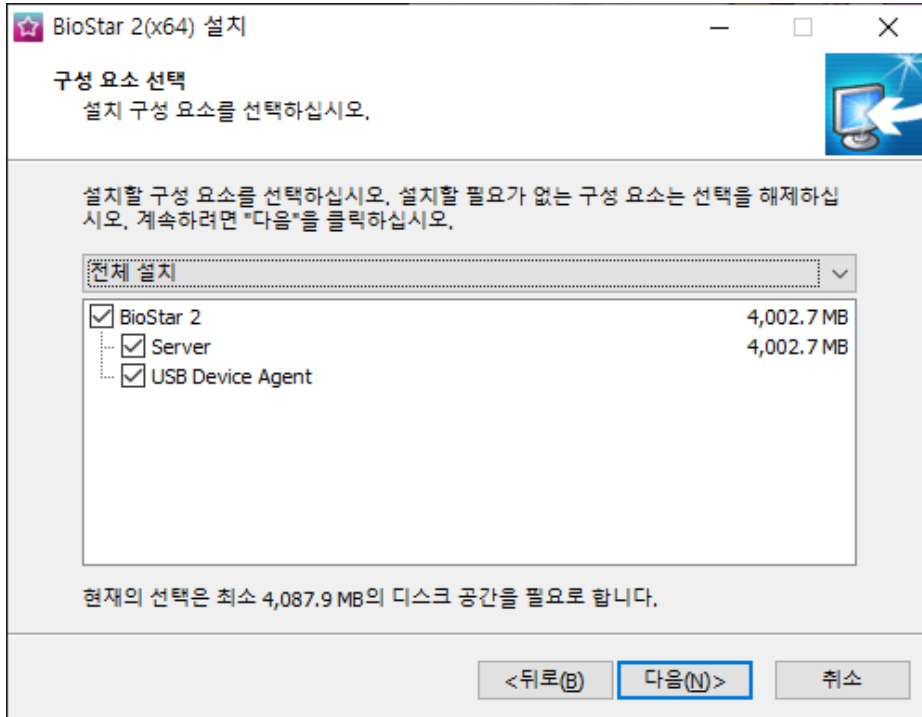
.USB Device Agent

BioMini,

BioMini Plus 2, DUALi DE-620

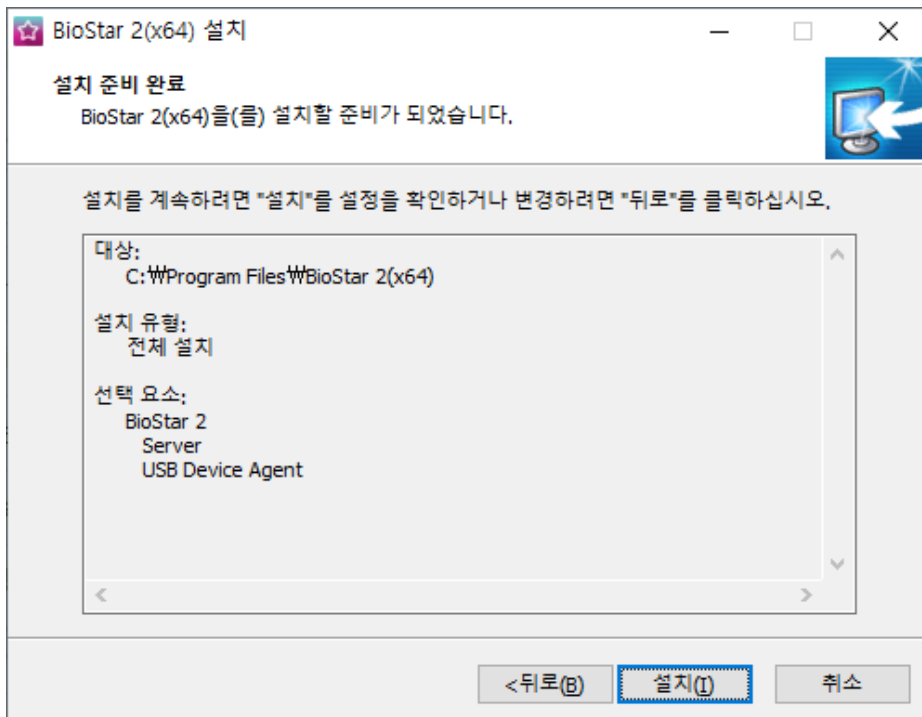
USB Agent

가



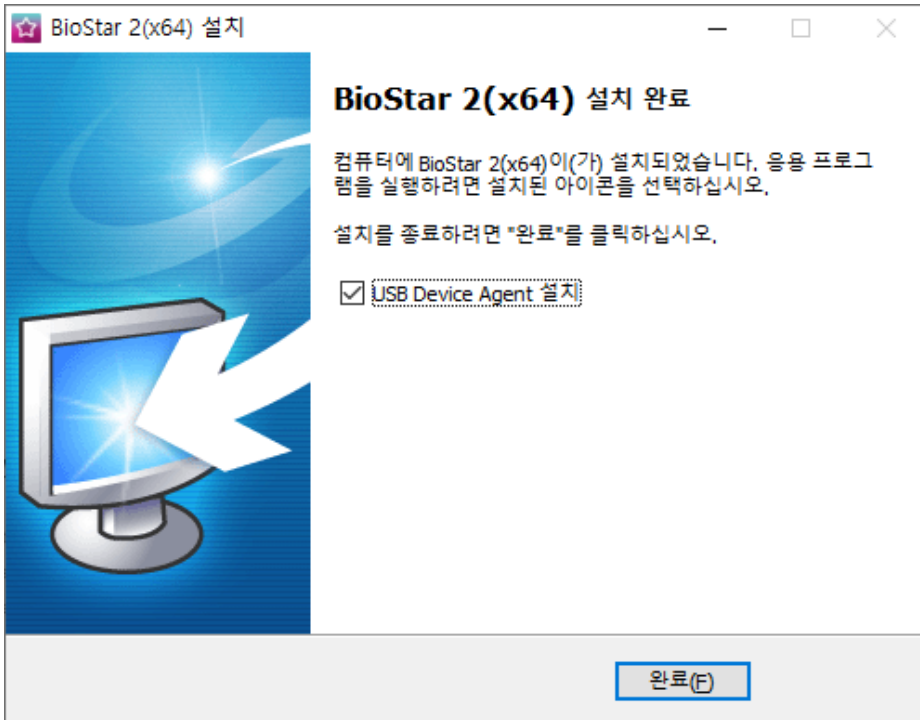
12)

가



13) 가





- USB Device Agent
- 443 BioStar-Setting
- BioStar 2
- BioStar 2

BioStar 2

1)

- 75

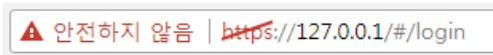
2) BioStar 2

- BioStar 2 PC <https://127.0.0.1>
- BioStar 2 PC <https://BioStar 2 IP>
- 'Localhost' BioStar 2

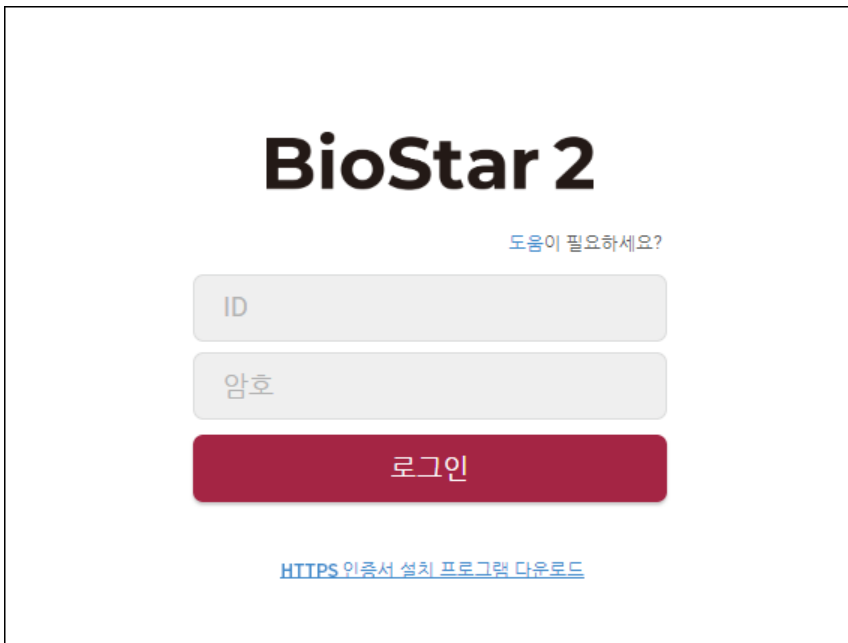


- BioStar 2 443 .443 BioStar Setting'  
BioStar 2

- 3) admin ,  
가

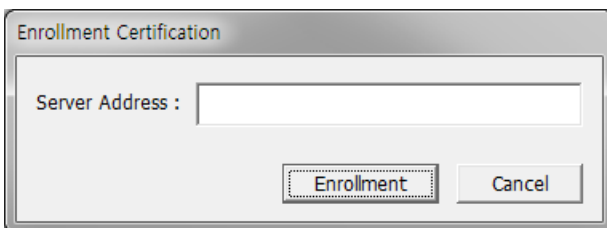


- 4) HTTPS BioStar 2가 PC IP .HTTPS



- 5) cert-register.exe Enrollment Certification

- 6) BioStar 2가 PC IP Enrollment



- 7)

8) IP

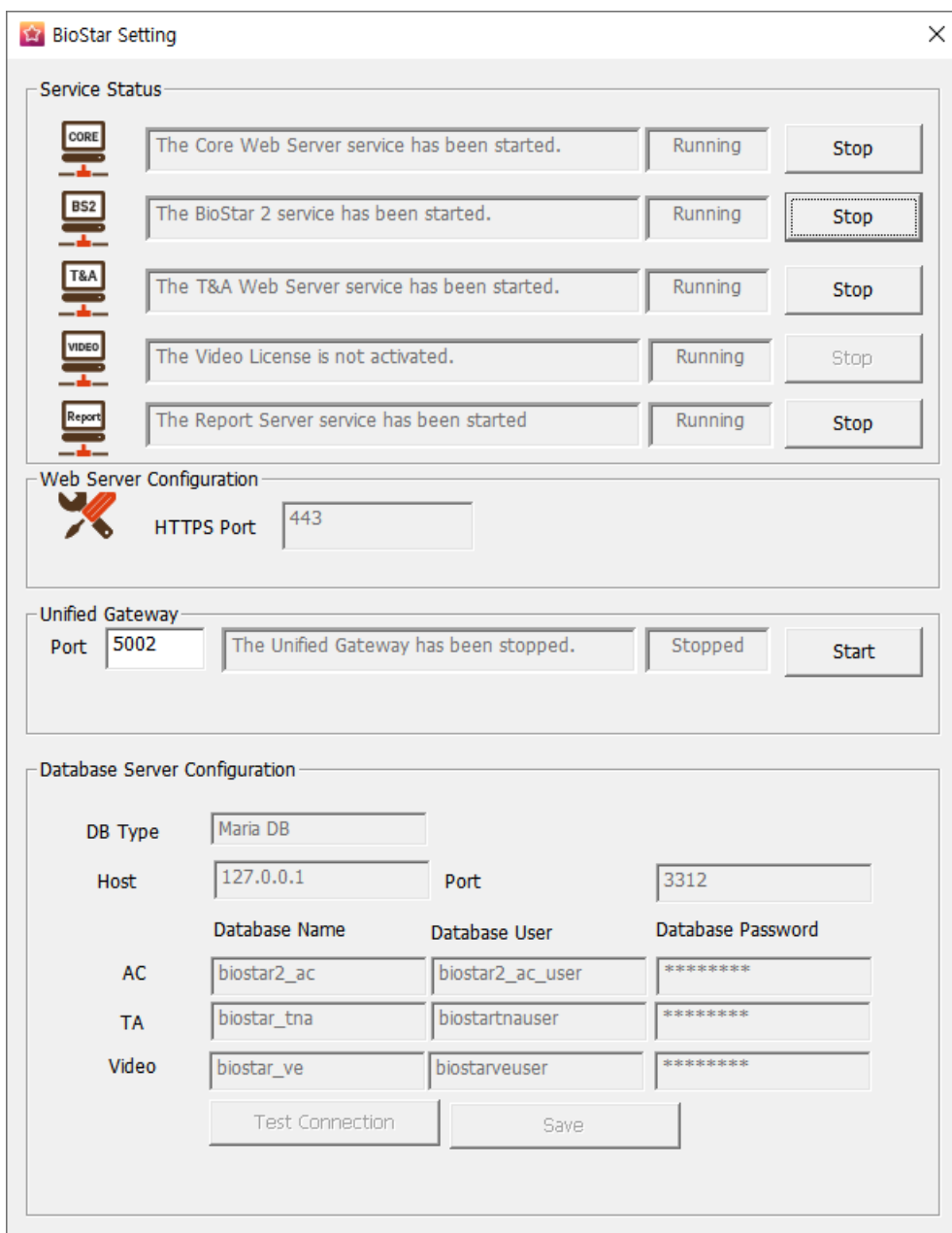
가

안전함 | <https://192.168.14.34/#/login>






## BioStar 2

BioStar 2


1)  > **BioStar 2 > BioStar Setting**



**Service Status**

	The Core Web Server service has been started.	Running	Stop
	The BioStar 2 service has been started.	Running	Stop
	The T&A Web Server service has been started.	Running	Stop
	The Video License is not activated.	Running	Stop
	The Report Server service has been started.	Running	Stop

**Web Server Configuration**

 HTTPS Port

**Unified Gateway**

Port

**Database Server Configuration**

DB Type

Host  Port

	Database Name	Database User	Database Password
AC	biostar2_ac	biostar2_ac_user	*****
TA	biostar_tna	biostartnauser	*****
Video	biostar_ve	biostarveuser	*****

2) **Stop**



3) **Start**



- 

BioStar 2

BioStar 2

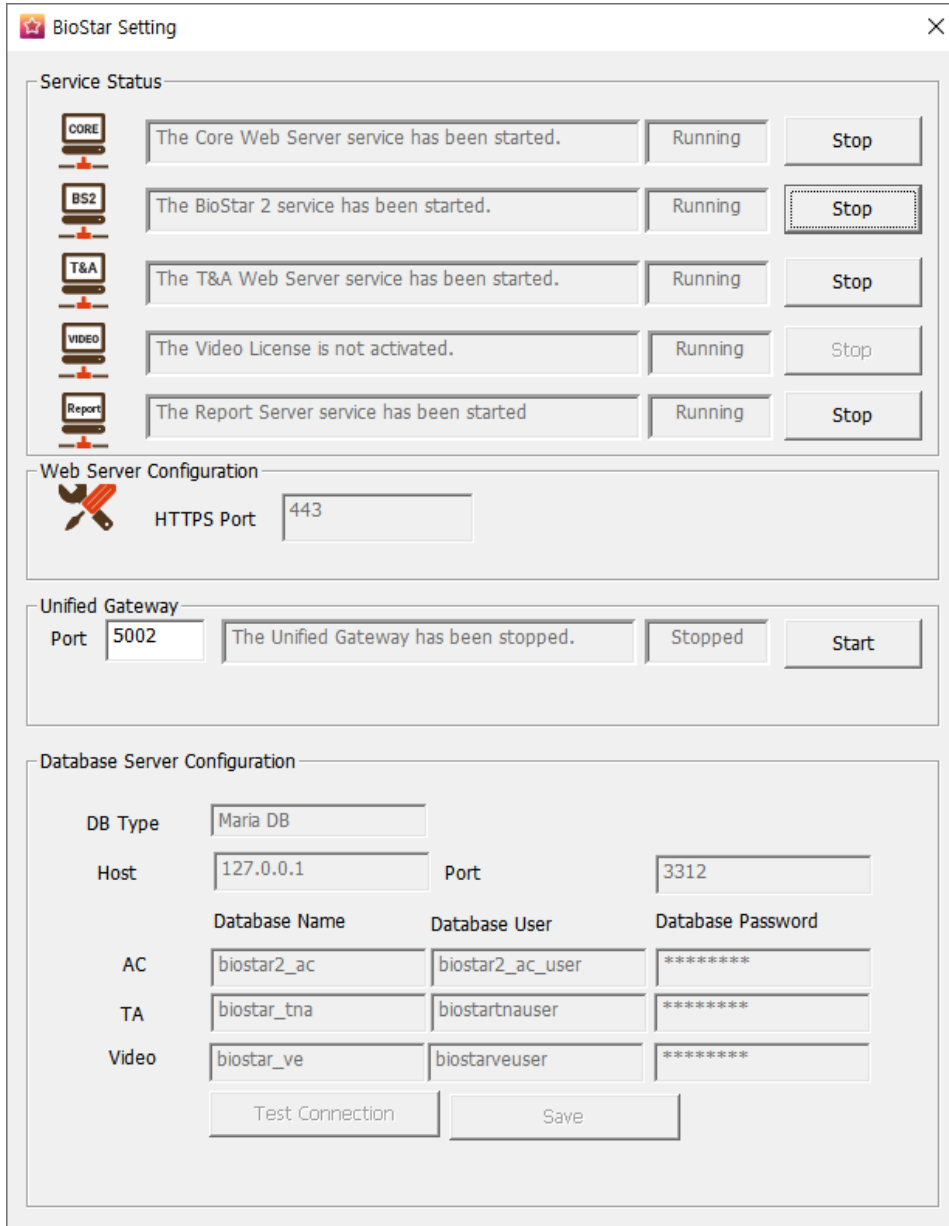
.BioStar 271 443

BioStar Setting








-

- 1)  > BioStar 2 > BioStar Setting




**BioStar Setting**

**Service Status**

	The Core Web Server service has been started.	Running	Stop
	The BioStar 2 service has been started.	Running	Stop
	The T&A Web Server service has been started.	Running	Stop
	The Video License is not activated.	Running	Stop
	The Report Server service has been started	Running	Stop

**Web Server Configuration**

 HTTPS Port

**Unified Gateway**

Port  The Unified Gateway has been stopped. Stopped Start

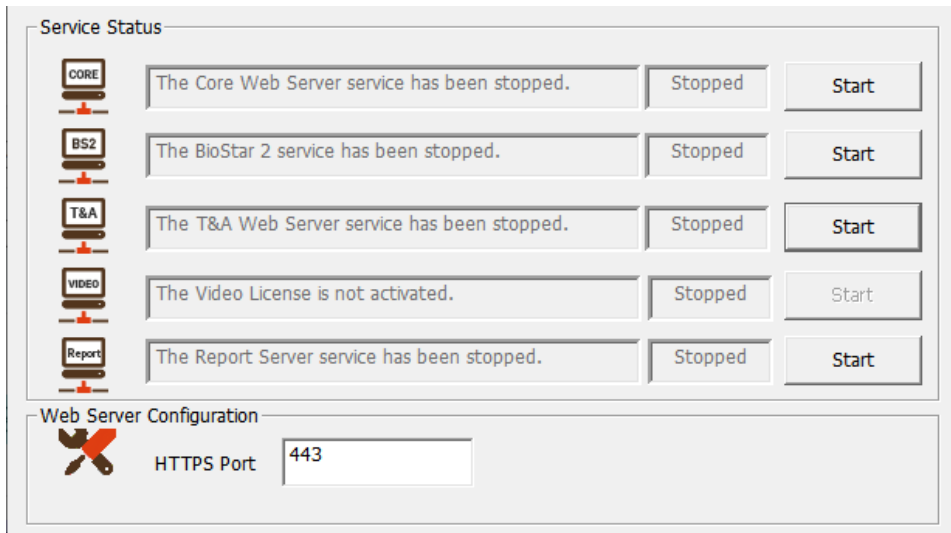
**Database Server Configuration**

DB Type

Host  Port

	Database Name	Database User	Database Password
AC	<input type="text" value="biostar2_ac"/>	<input type="text" value="biostar2_ac_user"/>	<input type="text" value="*****"/>
TA	<input type="text" value="biostar_tna"/>	<input type="text" value="biostartnauser"/>	<input type="text" value="*****"/>
Video	<input type="text" value="biostar_ve"/>	<input type="text" value="biostarveuser"/>	<input type="text" value="*****"/>

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



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

BioStar 2



- 1) BioStar 2 BioStar 2 가



- 2)
- 3)

BioStar 2

BioStar 2

iframe

SSL

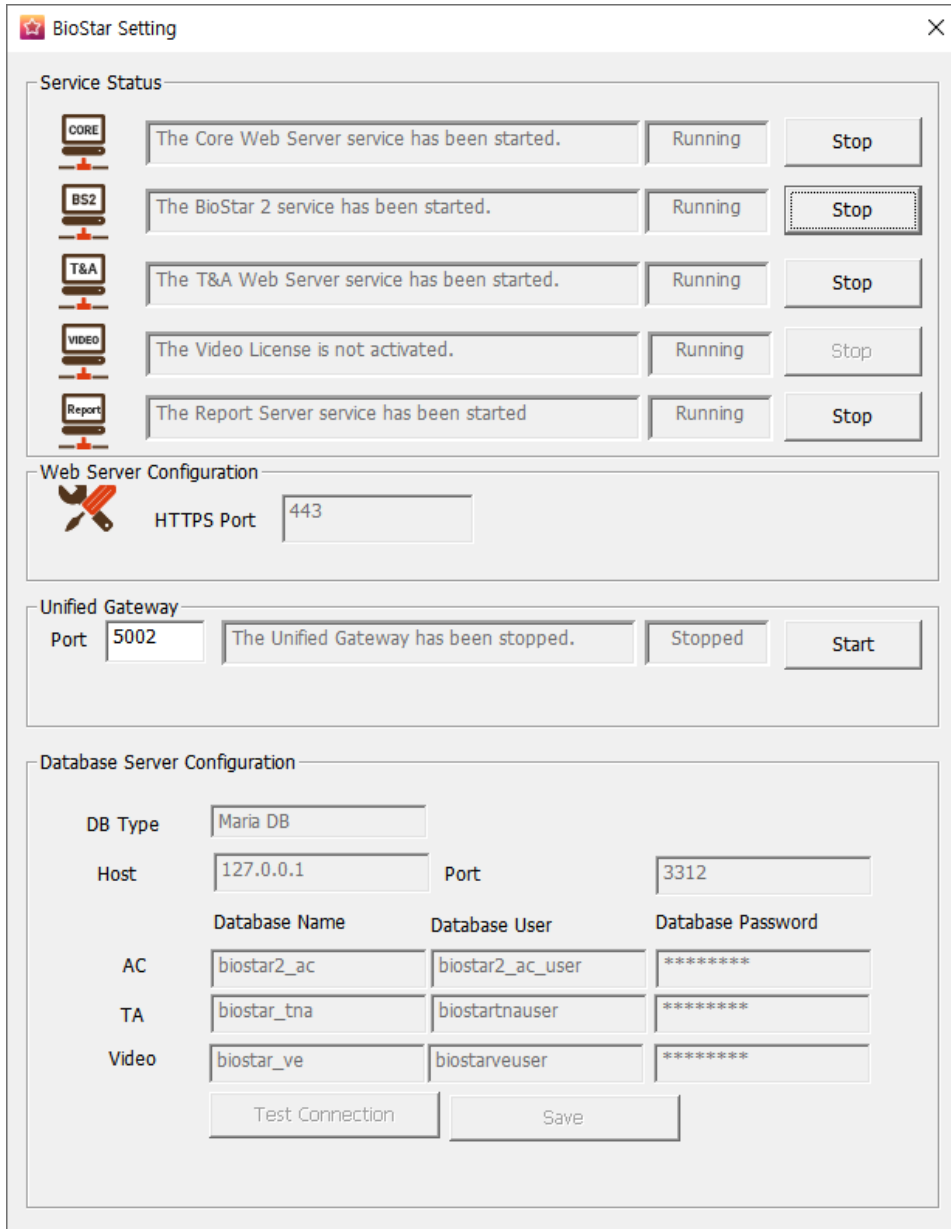


- BioStar 2

- HTTPS : 5002
- HTTP : 5000

### BioStar Setting

1)  > BioStar 2 > BioStar Setting



2) Unified Gateway Start 가



- 가
- 가

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





### BioStar 2

- 1) >
- 2)

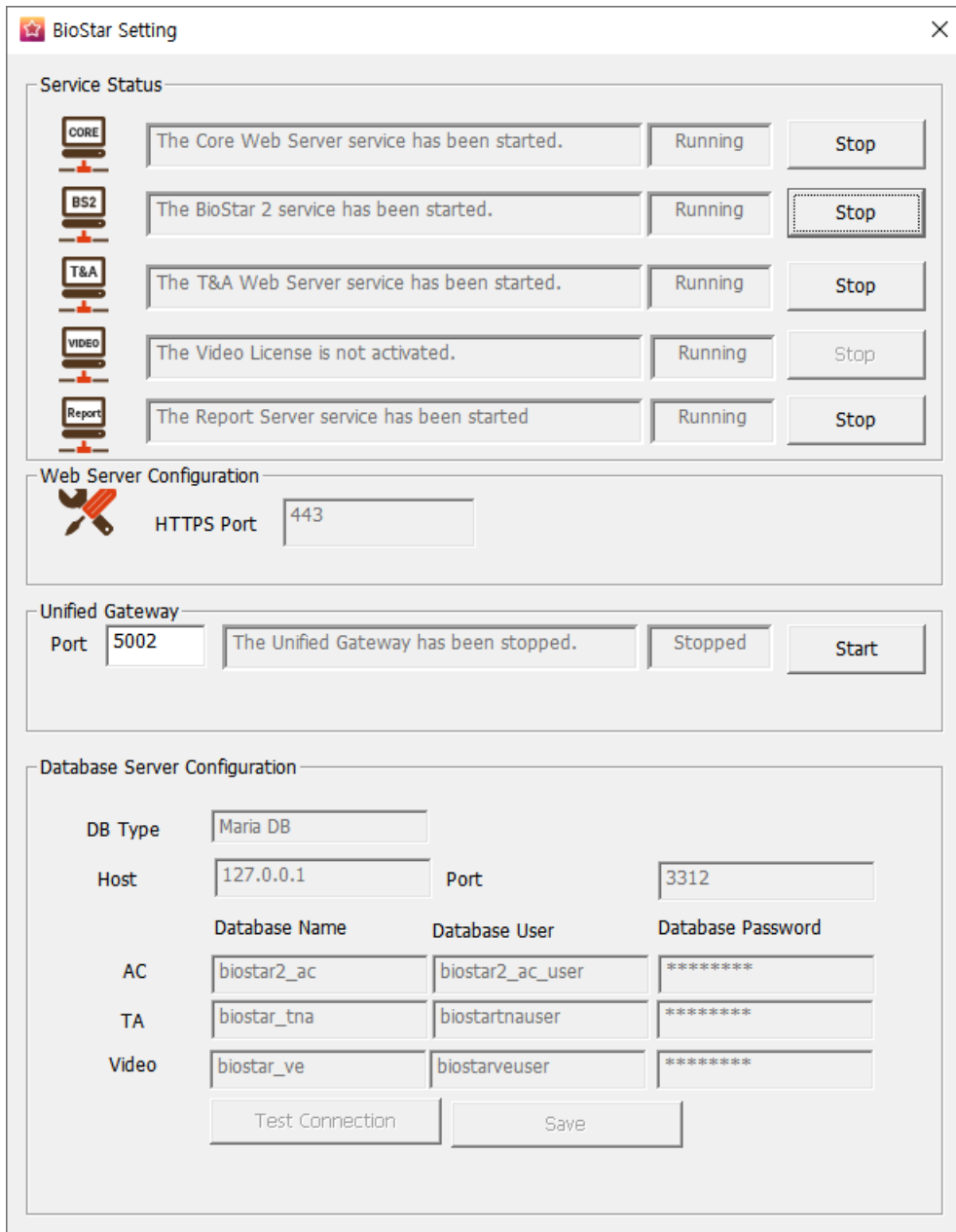


- 가
- 가

### BioStar 2

BioStar 2

- 1)  > BioStar 2 > BioStar Setting



2) BioStar 2 Stop .Database Server Configuration

Database Server Configuration

DB Type:

Host:  Port:

	Database Name	Database User	Database Password
AC	<input type="text" value="biostar2_ac"/>	<input type="text" value="biostar2_ac_user"/>	<input type="text" value="*****"/>
TA	<input type="text" value="biostar_tna"/>	<input type="text" value="biostartnauser"/>	<input type="text" value="*****"/>
Video	<input type="text" value="biostar_ve"/>	<input type="text" value="biostarveuser"/>	<input type="text" value="*****"/>

- 3) . 가 .
- 4) **Test Connection** 가 .
- 5) **Save** .

BioStar 2 . , , , ( )

BioStar 2 .

**1** .

BioStar 2 .

**2** .

BioStar 2 .

, ( , , )

3 .

가 . , , , .

가

4 .

,  
 .

5 .

( , ) ,  
 , .

6 .

BioStar 2가  
,BioStar

PC

BioStar 2 가

7

8



1 4

2 5

3 6



가 가 ,

' >

1 15

■

경보 목록 X

이력 보기 1 / 1 50 행

<input type="checkbox"/>	날짜	장치	사용자	알람
<input type="checkbox"/>	2016/07/25 10:59	BioLiteNet 538101276		RS-485 연결 해제
<input type="checkbox"/>	2016/07/25 10:58	BioStation 2 546832590 (192.168.16.108)	kyle	출입 거부 (잘못된 출입 그룹)
<input type="checkbox"/>	2016/07/25 10:55	BioStation A2 541531008 (192.168.16.20...		탐퍼 커짐

닫기

가 / / , 가

Wiegand

CoreStation

OSDP





가

가

가

1)

2)

가



3)



- 8
- 48

가

1)

2)



3)



- 48

- 1)
- 2)



가

BioStar 2

가

가 ,ID, IP

1) >

2) 가 ID 가 BioStar 2 ID가

BioStar 2

간편 검색 X

⚙️ **검색**

장치 7개를 찾았습니다. 2개 장치에 올바르게 않은 IP 주소가 설정되었습니다.

장치 ID	장치 이름	장치 그룹	장치 종류 (마스터/슬레이브)	IP 주소	상태	보안 모드 상태
<input type="checkbox"/> 541531014	BioStation A2 541531014 (...)	모든 장치 ▼	BioStation A2 <b>M</b>	192.168.16.160	OK	연결 가능.
<input type="checkbox"/> 541531041	BioStation A2 541531041 (...)	모든 장치 ▼	BioStation A2 <b>M</b>	192.168.16.179	OK	연결 가능.
<input type="checkbox"/> 546832428	BioStation 2 546832428 (19...)	모든 장치 ▼	BioStation 2	192.168.16.132	OK	연결 가능.
<input type="checkbox"/> 546832437	BioStation 2 546832437 (19...)	모든 장치 ▼	BioStation 2	192.168.16.193	OK	연결 가능.
<input type="checkbox"/> 539308121	BioEntryPlus 539308121 (1...)	모든 장치 ▼	BioEntryPlus <b>M</b>	192.168.16.239	OK	연결 가능.
<input type="checkbox"/> 544108056	BioEntry W2 544108056 (192.168.16.238)	모든 장치	BioEntry W2 <b>M</b>	192.168.16.238	N/A (192.168.1.23)	연결 가능.
<input type="checkbox"/> 542501008	BioStation L2 542501008 (192.168.16.231)	모든 장치	BioStation L2	192.168.16.231	N/A (192.168.1.23)	연결 가능.

3)

⚙️

검색 옵션

새로 검색된 장치만 보이기

• 응답 대기시간(sec)

- 가
- 가

4) IP 가 .IP

5) IP DHCP .IP  
BioStar 2 IP



6) IP

7)                   가

8)           가



- 가

가

- 



- 

- 

가

가

- BioStar 2                   ID   가

BioStar 2                   ID

- BioStar 2                   ID   가

- IP
- 1) >
  - 2) IP
  - 3) 가

고급 검색 ×

장치 ID	장치 이름	장치 그룹	장치 종류 (마스터/슬레이브)	IP 주소
538101276	BioLiteNet 538101276 (192.168.1...	All Devices	BioLiteNet	192.168.16.230

검색
추가
취소

- 4) 가
- 5) 가



## Wiegand

- Wiegand 가
- 1)
  - 2) Wiegand / Wiegand
  - 3) Wiegand 가



4) 가 .

가

RS-485

Secure I/O 2

가

1)

2)

3)

가



4) 가 .



- 가 가
- 가 가 가
- 가 1
- 가 Secure I/O 2
- DM-20 1 가

### CoreStation OSDP

#### OSDP

CoreStation OSDP 가

- 1)
- 2) CoreStation OSDP 가
- 3) OSDP .OSDP



- 4) 가 가 OSDP 가



- CoreStation 2 , 8

5) , (RS-485),





	<ul style="list-style-type: none"> <li>CoreStation OSDP</li> </ul>
(RS-485)	<ul style="list-style-type: none"> <li>OSDP ID: OSDP .0-126</li> <li>: CoreStation OSDP SCB</li> <li>CoreStation SCB OSDP</li> <li>.OSDP SCB</li> <li>CoreStation</li> </ul>
	<ul style="list-style-type: none"> <li>: OSDP</li> <li>PIN</li> <li><input checked="" type="checkbox"/></li> <li>+ 가</li> <li>가 +</li> <li>가</li> <li></li> <li>: OSDP</li> <li>: 가</li> </ul>

6) OSDP



- OSDP LED/

OSDP LED

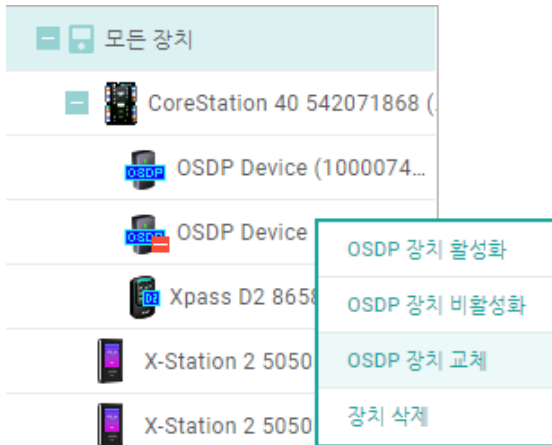
OSDP

CoreStation OSDP

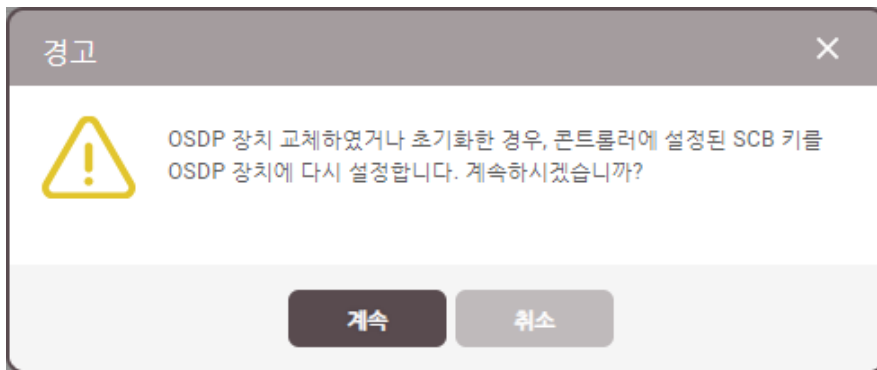
1)

2) CoreStation OSDP OSDP

OSDP



3) .OSDP 가



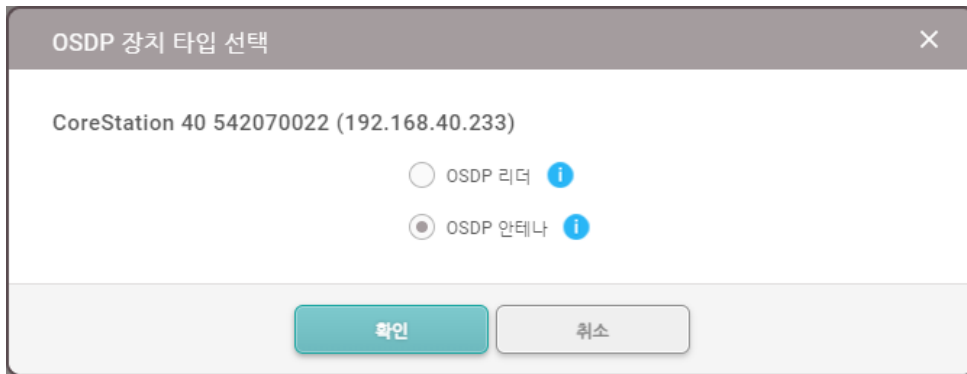
- OSDP 가 SCB 가
- 가 SCB

CoreStation 가



- 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)
- 2) CoreStation OSDP 가
- 3) OSDP .OSDP



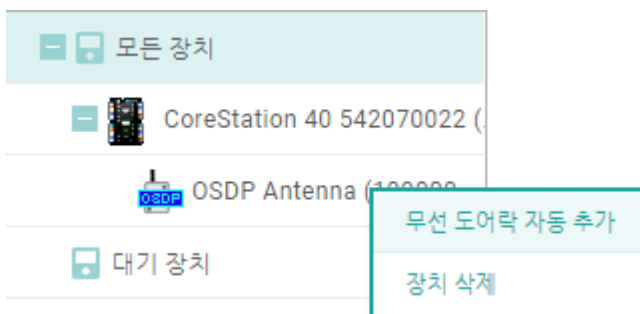
- 4) 가 가 OSDP  
가



5) , (RS-485) .



6) 가 OSDP 가



7) SERVICEKEY .

BioStar 2

BioStar



1)

2)

가 BioStar 2

**장치의 사용자 관리** ✕

BioStation A2 541531008 (192.168.14.223) ⏪ ⏩ 1 / 2 ⏪ ⏩ 50 행 ▼

🔍 52 👤 8 😊 0 🗄️ 4  모든 사용자  정보가 다른 사용자 업로드 삭제

<input type="checkbox"/>	사용자 ID			1:1 보안 등급	상태
<input type="checkbox"/>	99	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	50	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	49	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	48	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	47	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	46	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	45	0	0	장치 기본값	새 사용자
<input type="checkbox"/>	44	0	0	장치 기본값	새 사용자

닫기

- : BioStar 2
- : BioStar 2
- : BioStar 2

3) ,BioStar 2  
BioStar 2 ID가 가



- BioStar 2
- BioStar 2

BioStar 2

.firmware 가

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

1)

2)

firmware 업그레이드 ✕

**BioStation 2 546832590 (192.168.16.108)**

장치 종류	펌웨어 버전
BioStation 2 (BS2-OMPW)	1.2.0 [2016/02/04 17:43]

닫기

3) 가



- RS-485 가

- 가
- 

RS-485

- 1)
- 2)
- 3)
- 4)

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

일괄 편집
✕

장치 (2)

- OSDP 장치 상태  활성화
- DHCP 사용  DHCP 사용
- 전체 권한  전체 권한
- 표준 시간대
- 일광 절약 시간
- 슈프리마 스마트 카드 레이아웃
- 커스텀 스마트 카드  사용 안 함  Classic/Plus  DESFire, DESFire EV1/EV2/EV3
- 커스텀 스마트 카드 레이아웃
- 서브넷 마스크
- 게이트웨이
- 매칭 대기 시간  7 sec
- 장치 포트
- 연결 모드  장치에서 서버 연결
- 서버 주소
- 서버 포트
- RS-485

확인
닫기

5)



6)



- 
- 

/




가

1)



1		
2	ID	ID
3		
4		
5		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul>
6		
7		가 가
8		가
9		
10		
11		

12		가
13		
14		 가                      가
15	가	
16		BioStar 2

2)



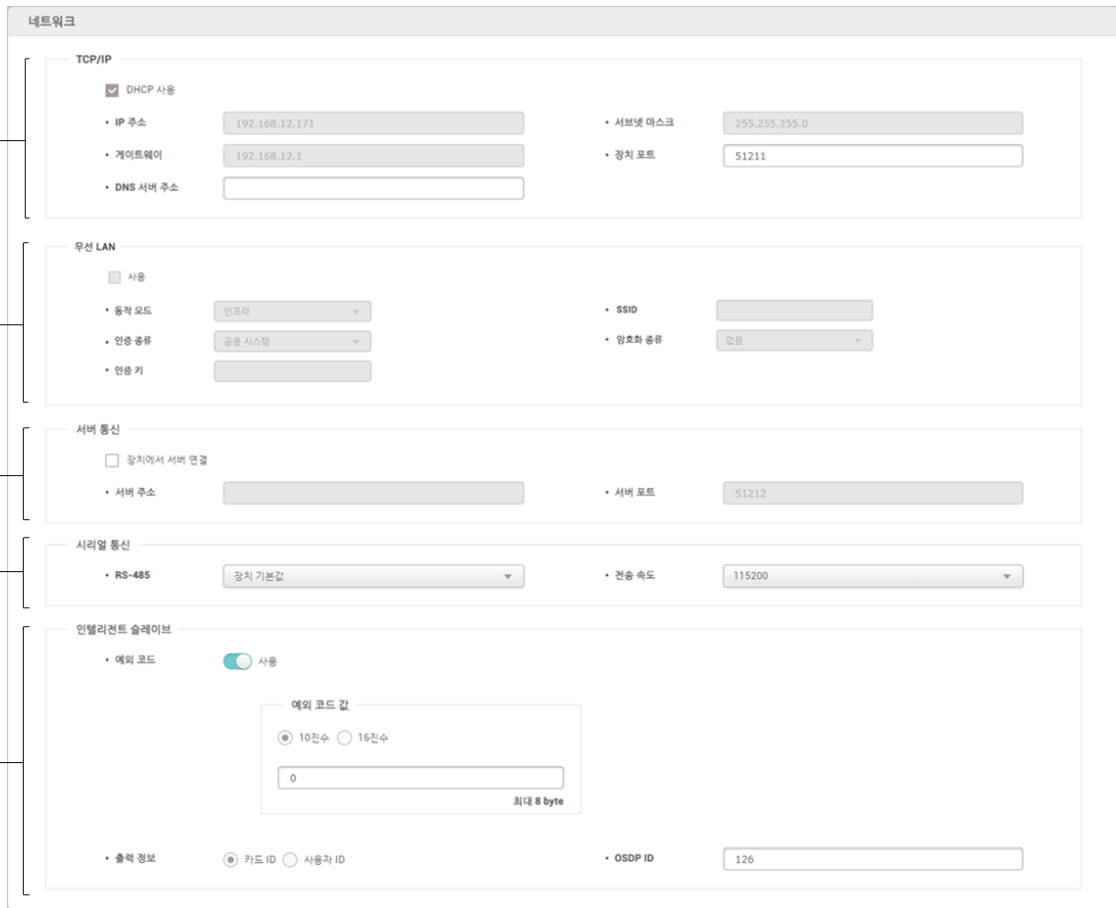
▪

TCP/IP, RS-485



▪

1)



1	TCP/IP	<p style="text-align: center;">TCP/IP</p> <ul style="list-style-type: none"> <li>■ DHCP : 가 IP</li> <li>■ IP , , : .</li> <li>■ : 가</li> <li>■ DNS : DNS</li> </ul> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>■ DNS</li> </ul> <ul style="list-style-type: none"> <li>- BioStation L2 1.0.0</li> <li>- BioStation A2 1.0.0</li> <li>- BioStation 2 1.2.0</li> <li>- BioLite Net 2.2.0</li> <li>- BioEntry Plus 2.2.0</li> <li>- BioEntry W 2.2.0</li> </ul>
---	--------	---

		<ul style="list-style-type: none"> <li>- XPass 2.2.0</li> <li>- XPass S2 2.2.0</li> <li>- FaceStation 2 1.0.0</li> <li>- BioLite N2 1.0.0</li> <li>- FaceLite 1.0.0</li> <li>- XPass 2 1.0.0</li> <li>- FaceStation F2 1.0.0</li> <li>- X-Station 2 1.0.0</li> <li>- BioStation 3 1.0.0</li> </ul>
2	LAN	<p>LAN , SSID, , 가</p> <p>·</p> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>■ BioStation 2, BioStation A2, FaceStation 2, BioStation 3</li> </ul> <p>·</p>
3		<ul style="list-style-type: none"> <li>■ : BioStar 2</li> <li>· BioStar 2</li> <li>■ : BioStar 2 IP</li> <li>■ : BioStar 2</li> </ul> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>■</li> </ul> <ul style="list-style-type: none"> <li>- BioStation L2 1.0.0</li> <li>- BioStation A2 1.0.0</li> <li>- BioStation 2 1.2.0</li> <li>- BioEntry W2 1.0.0</li> <li>- BioEntry P2 1.0.0</li> <li>- FaceStation 2 1.0.0</li> <li>- FaceLite 1.0.0</li> <li>- FaceStation F2 1.0.0</li> <li>- BioLite N2 1.0.0</li> </ul>

		<ul style="list-style-type: none"> <li>- BioLite Net 2.2.0</li> <li>- BioEntry Plus 2.2.0</li> <li>- BioEntry W 2.2.0</li> <li>- XPass 2.2.0</li> <li>- XPass S2 2.2.0</li> <li>- XPass 2 1.0.0</li> <li>- X-Station 2 1.0.0</li> <li>- BioStation 3 1.0.0</li> </ul>
4		<p>RS-485</p> <ul style="list-style-type: none"> <li>▪ <b>RS-485:</b> RS-485</li> <li>▪ : RS-485</li> </ul>
5		<p style="text-align: right;">가</p> <p>OSDP 1:1 1:N</p> <ul style="list-style-type: none"> <li>▪ : 10 16              .10 0~18446744073709551615 ,16              0~FFFFFFFFFFFFFFF 16</li> <li>▪ : ID ID</li> <li>▪ <b>OSDP ID:</b> OSDP .0~126</li> </ul> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>▪ <b>RS-485</b></li> <li>▪</li> </ul> <ul style="list-style-type: none"> <li>- BioEntry W2 1.6.3</li> <li>- BioStation L2 1.6.1</li> <li>- BioEntry P2 1.4.1</li> <li>- XPass 2 1.2.3</li> <li>- X-Station 2 1.1.0</li> <li>- BioLite N2 1.4.1</li> <li>- FaceStation F2 1.1.2</li> <li>- BioStation 3 1.0.0</li> </ul>

		8
--	--	---

2)



1)

**인증**

1

- 인증 모드

	Always			<a href="#">+ 추가</a>
+	Always			
+	Always			

2

- 전체 권한  사용 안 함

3

- 서버 매칭  비활성

4

- 인증 대기 시간  10 sec

5

- 얼굴 인식 레벨  사용 안 함

6

**지문**

- 1:N 보안 등급
- 센서 감도
- 템플릿 형식
- 센서 모드
- 지문 LFD  사용 안 함

- 스캔 대기 시간  10 sec
- 1:N Fast 모드
- 매칭 대기 시간  5 sec
- 등록 품질 검사  사용

7

**얼굴**

- 1:N 보안 등급
- 모션 센서 감도
- 위조 얼굴 등록 검사 강화
- 얼굴 검출 설정
  - 최대 얼굴 회전 각도  15°
  - 얼굴 인식 거리  30 cm ~ 40 cm
  - 얼굴 인식 영역 넓히기  끄
- 작동 모드  휴먼 매칭 모드
- 위조 얼굴 검출
  - 보통
  - 다소 강함
  - 강함
  - 아주 강함


- 등록 대기 시간  60 sec
- 주변 밝기
- 빠른 등록  사용
- 중복 검사  사용


**QR/바코드**

- 카메라로 QR/Barcode 인증  사용
  - 카드를 QR로 인증하기  사용 안 함
  - 카메라 대기 시간  4 sec
  - 모션 센서 감도
- 스캐너로 QR/Barcode 인증  사용
  - 스캐너 대기 시간  4 sec



**카드 종류**

- CSN 카드**  사용
  - EM4100  Mifare/Felica
  - 바이트 순서
  - 포맷 종류  일반
- Wiegand 카드**  사용 안 함
- 슈프리마 스마트 카드**  사용
  - MIFARE**
    - Classic/Plus  DESFire, DESFire EV1/EV2/EV3
  - ICLASS**
    - SR/SE  SEOS
  - 슈프리마 스마트 카드 레이아웃
  - 슈프리마 스마트 카드 출력 바이트 순서
- 커스텀 스마트 카드**  사용
  - MIFARE**
    - Classic/Plus  DESFire, DESFire EV1/EV2/EV3
  - 커스텀 스마트 카드 레이아웃
  - 커스텀 스마트 카드 출력 바이트 순서
- CSN 모바일**  사용
  - NFC  BLE
- 애플워치 온 모바일**  사용
  - NFC  BLE
- ToM 등록**  비주요 페이스 1
- ToM 출력 바이트 순서**

1	 + 가 + 가 .	BioStar 2 ,ID, ,PIN, . 가 .

2		
3		<p style="text-align: right;">BioStar 2가 PC</p> <p style="text-align: right;">BioStar</p> <p>2</p> <p></p> <ul style="list-style-type: none"> <li>▪</li> <li>- CoreStation 1.0.0</li> <li>- BioEntry P2 1.0.0</li> <li>- BioEntry W2 1.0.0</li> <li>- BioStation L2 1.0.0</li> <li>- BioStation A2 1.0.0</li> <li>- BioStation 2 1.2.0</li> <li>- BioLite Net 2.2.0</li> <li>- BioEntry Plus 2.2.0</li> <li>- BioEntry W 2.2.0</li> <li>- XPass 2.2.0</li> <li>- XPass S2 2.2.0</li> <li>- BioLite N2 1.0.0</li> <li>- XPass D2 1.0.0</li> <li>- XPass 2 1.0.0</li> <li>- FaceStation 2 1.4.0</li> <li>- FaceStation F2 1.0.0</li> <li>- X-Station 2 1.0.0</li> <li>- BioStation 3 1.0.0</li> <li>▪ FaceLite</li> <li>▪ FaceStation F2 BioStation 3</li> </ul>
4		가
5		가



		<p>가 가가</p> <p></p> <ul style="list-style-type: none"> <li>■ BioStation A2 X-Station 2</li> </ul>
<p>6</p>		<ul style="list-style-type: none"> <li>■ 1:N : (FRR) (FAR)</li> <li>■ :</li> <li>■ :</li> <li>■ 1:N Fast : 가</li> <li>■ :</li> <li>■ :</li> <li>■ :</li> <li>■ : 가 가</li> <li>■ 가 가</li> <li>■ :</li> <li>■ LFD:</li> <li>■ :</li> <li>■ </li> <li>■</li> <li>■ BioStation 2, BioStation A2, BioStation L2, BioLite N2, FaceStation F2(FSF2-ODB), X-Station 2(XS2-ODPB, XS2-OAPB)</li> </ul>

		<ul style="list-style-type: none"> <li>▪ <b>LFD</b> BioStation A2, BioStation L2, BioEntry W2, BioLite N2, FaceStation F2(FSF2-ODB), X-Station 2(XS2-ODPB, XS2-OAPB)</li> </ul>
<p>7</p>		<ul style="list-style-type: none"> <li>▪ <b>1:N</b> : (FRR) (FAR)</li> <li>▪ :</li> <li>▪ :</li> <li>▪ : IR LED</li> <li>▪ :</li> <li>▪ : 가1 , 3</li> <li>▪ :</li> <li>- : 가</li> <li>- :</li> <li>- :</li> <li>▪ : 가</li> <li>- :</li> <li>- :</li> <li>▪ :</li> <li>▪ :</li> </ul>

		<ul style="list-style-type: none"> <li>☑</li> <li>▪ FaceStation 2, FaceLite</li> <li>▪ FaceStation F2 1.1.0</li> <li>▪ FaceStation F2, BioStation 3</li> </ul>
8	QR/	<p>QR/</p> <ul style="list-style-type: none"> <li>▪ QR/Barcode : QR/</li> <li>▪ QR/</li> <li>▪ QR : CSN Wiegand</li> <li>▪ QR</li> <li>▪ : 가</li> <li>▪ QR/Barcode : QR/</li> <li>▪ : QR/</li> </ul> <p>☑</p> <ul style="list-style-type: none"> <li>▪ QR/Barcode 가</li> <li>▪ QR/Barcode , QR</li> <li>- X-Station 2 (XS2-ODPB, XS2-OAPB, XS2-DPB, XS2-APB) 1.2.0</li> <li>- BioStation 3 (BS3-DB, BS3-APWB) 1.1.0</li> <li>▪ QR/Barcode</li> <li>- X-Station 2 (XS2-QDPB, XS2-QAPB)</li> </ul>
9		



		<ul style="list-style-type: none"><li>▪ : /</li></ul>
		<ul style="list-style-type: none"><li>▪ - XPass D2 1.7.1 - BioEntry P2 1.5.1 - BioEntry W2 1.8.0 - BioStation 2a 1.1.0</li></ul>
		<ul style="list-style-type: none"><li>▪ MSB LSB</li></ul>
		<ul style="list-style-type: none"><li>▪ CSN :</li></ul>
		<ul style="list-style-type: none"><li>▪ : 가</li></ul>
		<ul style="list-style-type: none"><li>▪ - BioStation 3 1.2.0</li></ul>
		<ul style="list-style-type: none"><li>▪ ToM MSB LSB</li></ul>



▪

▪

2)

- , / , .
- 1) .
  - 2) , / , , Wiegand, , .
  - 3) .



▪ .



▪ 1,000 . 가가

- 1) + 가 .

관리자

- 1 • 모든 권한
  - 모두 선택
  - 1(Administrator)
  - +추가 삭제
- 2 • 사용자 관리 권한
  - 모두 선택
  - 2(COKE)
  - +추가 삭제
- 3 • 장치 설정 권한
  - 모두 선택
  - 3(CIDER)
  - +추가 삭제

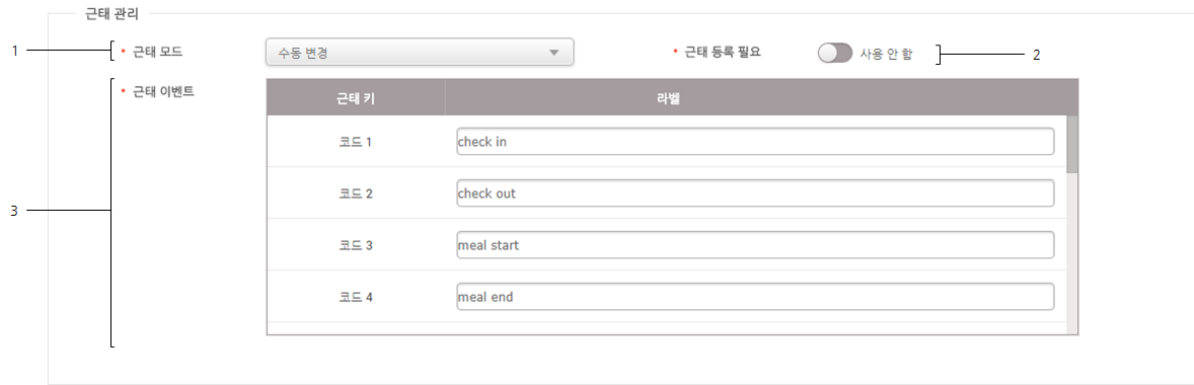
1		.
2		, , ,RS-485
3		, , ,RS-485 ,



- 
- 

가  
BioStar 2

1)



1		<ul style="list-style-type: none"> <li>가</li> <li>가</li> <li>가</li> <li>가</li> </ul>
2		가
3		<ul style="list-style-type: none"> <li>가</li> <li>가</li> <li>가</li> </ul>



- LCD

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



/



1)

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



BioLite Net

XPass D2 V02M, 1.7.1

1		
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2		
3		
4		
5		가
6	LED	LED
7		

— BioStation 2, BioStation L2, BioLite N2, FaceLite

화면/소리

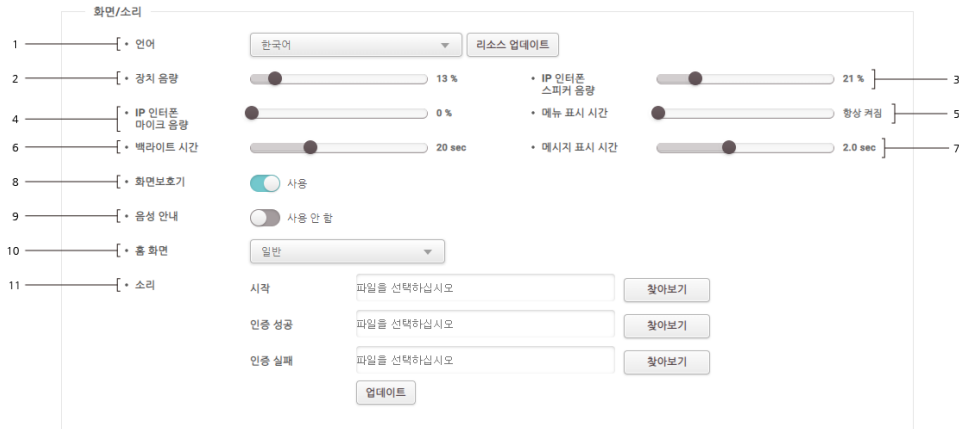
- 1 언어: English (리소스 업데이트)
- 2 광치 음량: 50%
- 4 테마: 테마 1
- 6 메시지 표시 시간: 2.0 sec
- 7 음성 안내: 사용 안 함
- 배경화면: 문고 (업데이트)
- 3 메뉴 표시 시간: 20 sec
- 5 백라이트 시간: 20 sec
- 8 추가, 지우기
- 9 소리:
  - 시각: 파일을 선택하십시오 (찾아보기)
  - 인증 성공: 파일을 선택하십시오 (찾아보기)
  - 인증 실패: 파일을 선택하십시오 (찾아보기)
  - 업데이트

1		
2		

3		
4		
5		
6		가
7		
8		<ul style="list-style-type: none"> <li>▪ : 가</li> <li>▪ : 가</li> <li>▪ : 가 10</li> <li>▪ : 가</li> </ul> <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>▪</li> <li>▪</li> <li>▪ BioStation 2</li> </ul>
9		<p>가</p> <p>가 500KB *wav</p> <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>▪</li> </ul>

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



1		
2		
3	IP	IP
4	IP	IP
5		
6		
7		가

8		<p>LCD</p> <ul style="list-style-type: none"> <li>☑</li> <li>▪ FaceStation 2, FaceStation F2, X-Station 2, BioStation 3</li> </ul>
9		
10		<ul style="list-style-type: none"> <li>▪ :</li> <li>▪ : 가</li> <li>▪ : 가</li> <li>▪ : 가</li> </ul> <p>☑</p> <ul style="list-style-type: none"> <li>▪</li> <li>▪</li> <li>▪</li> </ul> <p>10 가</p>
11		<p>가</p> <p>가 500KB *wav</p> <p>☑</p> <ul style="list-style-type: none"> <li>▪</li> </ul>



		<ul style="list-style-type: none"> <li>( ) 가</li> <li>가</li> <li>64</li> </ul>
2		<p>가</p> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>가</li> <li>+ 가</li> <li>( )</li> </ul> </li> </ul>



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

1) >

2) + 가

이미지 로그

- 이미지 로그  사용
- 구성

이벤트	스케줄	
1:1 인증 성공	Always	
1:1 인증 실패	Always	
Supervised Input (단락 감지)	Always	
Supervised Input (단선 감지)	Always	
안티패스백 위반 감지	Always	
안티패스백 구역 알람 감지	Always	

+ 추가

Wiegand

Wiegand

1)

1		
2		Wiegand .Wiegand
3		Wiegand Wiegand CSN  Wiegand
4		Wiegand
5		Wiegand
6		

가 , , 가



1)

• 보안 템퍼



\* 보안 템퍼 발생 시, 장치의 전체 사용자, 전체 로그, 보안키가 삭제됩니다.



- BioStation 2

1)

인터폰

사용

50Hz


60Hz



- BioStation A2

1)

카메라

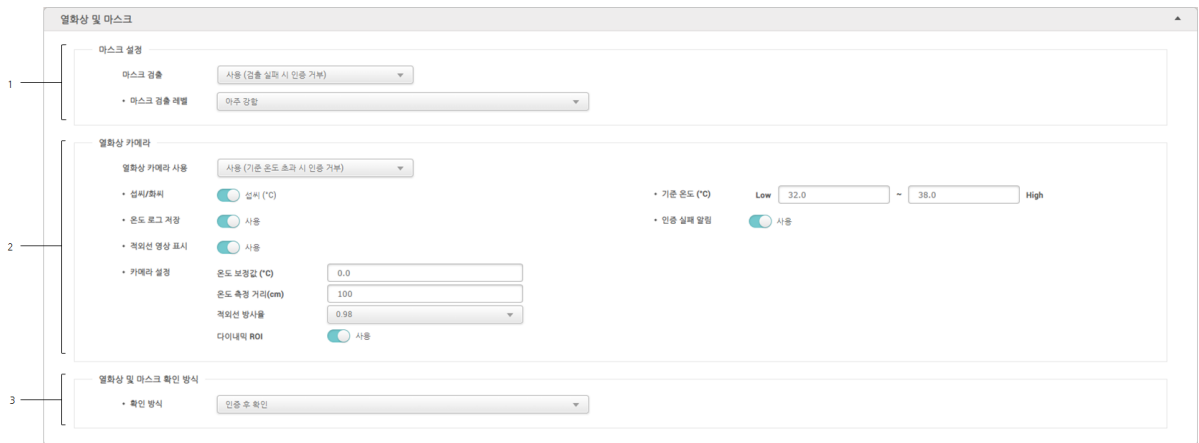
• 주파수  60Hz

가



- FaceStation 2, FaceStation F2
- - TCM10-FS2
  - TCM10-FSF2
- FaceStation F2, BioStation 3

1)



1	가	(
2	가	(



- : ( ) ) 가 ( ) ) 가
- / :
- ( / ): 가 Low High .1 ~45
- Low High
- :
- :
- :
- :
- ( ):
- 0.1 , 0.1 -
- 0.1
- (cm):
- :
- ROI: 가
- ROI X(%), ROI Y(%), ROI Width(%), ROI Height%: ROI ROI( ) ROI 가
- 
- Low High
- FaceStation 2 1.4.2
- FaceStation F2 1.0.2
-

		<table border="1"> <thead> <tr> <th></th> <th>FaceStation 2</th> <th>FaceStation F2</th> </tr> </thead> <tbody> <tr> <td>(cm)</td> <td>100</td> <td>100</td> </tr> <tr> <td></td> <td>0.98</td> <td>0.98</td> </tr> <tr> <td>ROI X(%)</td> <td>47</td> <td>30</td> </tr> <tr> <td>ROI Y(%)</td> <td>45</td> <td>25</td> </tr> <tr> <td>ROI Width(%)</td> <td>15</td> <td>50</td> </tr> <tr> <td>ROI Height(%)</td> <td>10</td> <td>55</td> </tr> </tbody> </table>		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
	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																					
3		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>■ :</li> </ul>																					

2)

IP

IP



- BioStation 3, FaceStation 2, BioStation A2
- 

1) IP

2) SIP 가

**IP 인터폰**

• IP 인터폰  사용 안 함

1 — [ • SIP 서버 주소

3 — [ • 사용자명

5 — [ • 인증 ID

7 — [ • 문 열기 버튼 (DTMF)

8 — [ • 아웃바운드 프록시 서버  사용 안 함

9 — [ • 아웃바운드 프록시 서버 주소

11 — [ • 내선 번호 표시  사용 안 함

12 — [ • 내선 번호

• SIP 서버 포트




• 비밀번호

• 등록 유지 시간(초)

• 아웃바운드 프록시 서버 포트

순번	내선 번호(*)	표시 이름	
찾을 수 없음			

순번	필수	규칙
1	SIP	SIP .
2	SIP	SIP .
3		SIP . <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>▪ , ( ), (+, -, @, .)</li> </ul>
4		SIP .
5	ID	SIP ID . <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>▪ ID , ( ), (+, -, @, .)</li> </ul>
6	( )	SIP .

		<ul style="list-style-type: none"> <li>  <ul style="list-style-type: none"> <li>60~600</li> </ul> </li> </ul>
7	(DTMF)	
8		SIP 가 ( ) ,
9		
10		
11		<ul style="list-style-type: none"> <li>  <ul style="list-style-type: none"> <li></li> </ul> </li> </ul>
12		<p>128</p> <p>가</p> <ul style="list-style-type: none"> <li>: </li> <li>CSV : CSV</li> <li>CSV : CSV</li> <li>가: 가</li> <li>:</li> <li>:</li> </ul> <p>  <ul style="list-style-type: none"> <li>FaceStation 2 BioStation A2 16</li> <li>CSV</li> <li>, ( ), (+, -, @, .)</li> </ul> </p>

--	--	--

3)

RTSP

RTSP



- RTSP BioStation 3

1) RTSP

2)

**RTSP**

• RTSP  사용

1 — [ 주소 rtsp://\*\*\*\*\* ]    복사    • 포트 [ ] — 2

3 — [ ID ]    • 암호 [ ] — 4

1		RTSP
2		RTSP
3	ID	RTSP ID
4		RTSP

3)

DM-20

DM-20

1)

2) DM-20

정보

- 장치 이름: DoorModule20 200000013
- 장치 ID: 200000013
- 장치 종류: DoorModule20
- 펌웨어 버전: 1.0.8 펌웨어 업그레이드
- 모델명: DM20

고급

Supervised Input

- 설정

Index	Supervised	Supervised Input 저항
0	<input checked="" type="checkbox"/> Supervised	2.2kΩ
1	<input checked="" type="checkbox"/> Supervised	2.2kΩ
4	<input checked="" type="checkbox"/> Supervised	2.2kΩ
5	<input checked="" type="checkbox"/> Supervised	2.2kΩ

1		<ul style="list-style-type: none"> <li>▪ ID: ID</li> </ul>
2		<p>Supervised Input .DM-20 Supervised Input</p> <p>On, Off, , ,</p> <p>1kΩ ,2.2kΩ ,4.7kΩ ,10kΩ</p>

3)

OM-120

OM-120

1)



2) OM-120

정보

• 장치 이름	OM-120 12345678	• 장치 ID	12345678
• 장치 종류	OM-120	• 펌웨어 버전	1.0.0 <a href="#">▶ 펌웨어 업그레이드</a>
• 모델명	OutputModule	• 커널 버전	0.0.0
• 하드웨어 버전	0.0.0		

---

- ID: ID
- :
- :
- :
- :
- :
- :

3)

IM-120

IM-120 BioStar 2

BioStar 2 IM-120

1)

2)

IM-120

3)



정보

• 장치 이름	IM-120 123456789	• 장치 ID	123456789
• 장치 종류	IM-120	• 펌웨어 버전	1.0.0 [2021/09/3...] <a href="#">▶ 펌웨어 업그레이드</a>
• 모델명	InputModule	• 커널 버전	0.0.0
• 하드웨어 버전	1.0.0		



Linkage	<p>Supervised TTL 1kΩ</p> <p>2.2kΩ, 4.7kΩ, 10kΩ</p> <p> <input checked="" type="checkbox"/> </p> <p> <input type="checkbox"/> </p> <p> <input type="checkbox"/> : N/O N/C</p> <p> <input type="checkbox"/> (ms): 50~65535</p>
---------	---

### Linkage

**Linkage**

릴레이 0

- 공통
 

이름	알람
RS-485 연결 해제	<input type="radio"/> OFF
탐지	<input type="radio"/> OFF
- Aux
 

인덱스	이름	알람
Aux 0	Aux0	<input type="radio"/> OFF
Aux 1	Aux1	<input type="radio"/> OFF
- 입력
 

인덱스	이름	알람	오류
입력 0	Input0	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 1	Input1	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 2	Input2	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 3	Input3	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 4	Input4	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 5	Input5	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 6	Input6	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 7	Input7	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 8	Input8	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 9	Input9	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 10	Input10	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 11	Input11	<input type="radio"/> OFF	<input type="radio"/> OFF

릴레이 1

- 공통
 

이름	알람
RS-485 연결 해제	<input type="radio"/> OFF
탐지	<input type="radio"/> OFF
- Aux
 

인덱스	이름	알람
Aux 0	Aux0	<input type="radio"/> OFF
Aux 1	Aux1	<input type="radio"/> OFF
- 입력
 

인덱스	이름	알람	오류
입력 0	Input0	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 1	Input1	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 2	Input2	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 3	Input3	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 4	Input4	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 5	Input5	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 6	Input6	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 7	Input7	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 8	Input8	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 9	Input9	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 10	Input10	<input type="radio"/> OFF	<input type="radio"/> OFF
입력 11	Input11	<input type="radio"/> OFF	<input type="radio"/> OFF

Linkage	<p>0</p> <p>1</p>
---------	-------------------

<div style="font-size: 2em; font-weight: bold;">6</div>	<ul style="list-style-type: none"> <li>▪ - RS-485 : .</li> <li>- : .</li> <li>▪ AUX: AUX . AUX</li> <li>▪ : .</li> <li>. ( , ) <b>Supervised</b> supervised</li> </ul>
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4)  
CoreStation

CoreStation

- 1) .
- 2) CoreStation .
- 3) .

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**정보**

<ul style="list-style-type: none"> <li>• 장치 이름 <input type="text" value="CoreStation 40 542070627 (192.168.14.205)"/></li> <li>• 장치 ID <input type="text" value="542070627"/></li> <li>• 펌웨어 버전 <input type="text" value="1.4.0 [2020/05/2..."/> <a href="#">▶ 펌웨어 업그레이드</a></li> <li>• 커널 버전 <input type="text" value="1.1.1 [2020/05/2..."/></li> <li>• 설정 초기화 <input type="button" value="모든 설정"/> <input type="button" value="네트워크 재외"/></li> <li>• 표준 시간대 <input type="text" value="(UTC) 서울립 표준시, 런던, 리스본, 카사블랑카"/></li> <li>• 일광 절약 시간 <input type="text" value=""/></li> </ul>	<ul style="list-style-type: none"> <li>• 장치 그룹 <input type="text" value="모든 장치"/></li> <li>• 장치 종류 <input type="text" value="CoreStation 40"/></li> <li>• 모델명 <input type="text" value="CS-40"/></li> <li>• 하드웨어 버전 <input type="text" value="1.0.0"/></li> <li>• 감침 <input type="button" value="감침 해제"/></li> <li><input checked="" type="checkbox"/> 서버와 시간 동기화</li> </ul>
--	--

**시스템**

• 날짜 및 시간 <input type="text" value="2020/07/07"/>	09:01:07	<input type="button" value="장치 시간 가져오기"/>	<input type="button" value="시간 적용"/>
---	----------	---	--------------------------------------



네트워크

TCP/IP

DHCP 사용

- IP 주소: 192.168.12.164
- 게이트웨이: 192.168.12.1
- DNS 서버 주소: [ ]
- 서브넷 마스크: 255.255.255.0
- 장치 포트: 51211

서버 통신

장치에서 서버 연결

- 서버 주소: [ ]
- 서버 포트: 51212

시리얼 통신

- RS-485: 마스터
- SCB 키: [ ]
- SCB 키 확인: [ ]
- 전송 속도:
 

포트	전송 속도
호스트	115200
0	115200
1	115200
2	115200
3	115200

TCP/IP	<ul style="list-style-type: none"> <li>■ DHCP : 가 IP</li> <li>■ IP , , : IP</li> <li>■ DNS : DNS</li> </ul>
	<ul style="list-style-type: none"> <li>■ : BioStar 2</li> <li>■ : BioStar 2</li> <li>■ : BioStar 2 IP</li> <li>■ : BioStar 2</li> </ul>
	<ul style="list-style-type: none"> <li>■ RS-485:                     <ul style="list-style-type: none"> <li>■ : RS-485</li> </ul> </li> <li>■ SCB : SCB                     <ul style="list-style-type: none"> <li>CoreStation RS-485 가</li> </ul> </li> <li>■ SCB : SCB                     <ul style="list-style-type: none"> <li>CoreStation RS-485 가</li> </ul> </li> <li><input checked="" type="checkbox"/></li> <li>■ SCB 16</li> </ul>

**인증**

• 서버 매칭  비활성

**지문**

• 1:N 보안 등급  • 1:N Fast 모드

• 템플릿 형식

**카드 종류**

• CSN 카드  사용

EM4100  Mifare/Felica

• 포맷 종류  일반 • 바이트 순서


• 모바일  사용

NFC  BLE

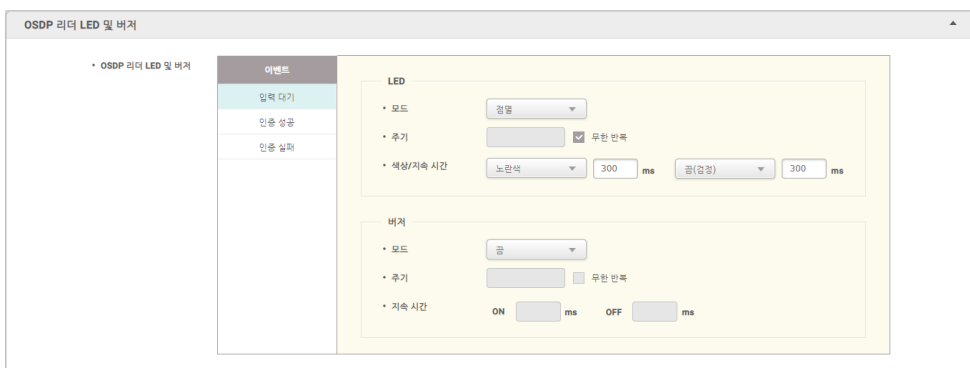
인증	<ul style="list-style-type: none"> <li>■ : BioStar 2가 PC</li> <li>BioStar 2</li> </ul>
	<ul style="list-style-type: none"> <li>■ <b>1:N</b> : (FRR)</li> <li>(FAR)</li> <li>■ <b>1:N Fast</b> : 가</li> <li>■ :</li> </ul>
	<ul style="list-style-type: none"> <li>☑</li> <li>■ 가</li> <li>■ <b>CSN</b> : CSN</li> <li>☑</li> <li>■ (CSN)</li> <li><b>Wiegand</b></li> </ul>





	<p style="text-align: center;">CoreStation 가</p> <p style="text-align: center;">가</p> 
<p>Wiegand</p>	<ul style="list-style-type: none"> <li>▪ : Wiegand</li> <li>▪ : Wiegand</li> <li>▪ : Wiegand</li> <li>▪ : Wiegand</li> </ul>
<p>Supervised Input</p>	<p>CoreStation Supervised Input TTL Input</p> <p>,Supervised Input</p> <p>1kΩ ,2.2kΩ ,4.7kΩ ,10kΩ</p>
	<p style="text-align: center;">가</p> <p style="text-align: center;">, 가</p>

— OSDP LED



	CoreStation	OSDP	LED
OSDP LED	<ul style="list-style-type: none"> <li>CoreStation</li> </ul>	OSDP	가 LED
LED	<ul style="list-style-type: none"> <li>가</li> <li>가</li> <li>가</li> </ul>	LED가	LED
	<ul style="list-style-type: none"> <li>가</li> <li>가</li> <li>가</li> </ul>		가

4)

Wiegand

Wiegand

1)

2)

Wiegand

1		<p>Wiegand</p> <ul style="list-style-type: none"> <li>■ : ID: ID</li> </ul>
2		<p>Wiegand</p> <ul style="list-style-type: none"> <li>■ : 가</li> <li>■ : Wiegand</li> <li>■ :</li> </ul>
3		<p>Wiegand LED</p> <ul style="list-style-type: none"> <li>■ : Wiegand 가</li> <li>■ :</li> <li>■ LED : LED</li> <li>■ :</li> </ul>

3)

1)

2)

← Door Lock (1408280273)
2/3

정보

<ul style="list-style-type: none"> <li>· 장치 이름: Door Lock (1408280273)</li> <li>· 포트: HOST RS485</li> <li>· 장치 ID: 1408280273</li> <li>· 업제 코드: <input type="text"/></li> <li>· 펌웨어 버전: <input type="text"/></li> <li>· 상태: <input checked="" type="checkbox"/> 활성화</li> </ul>	<ul style="list-style-type: none"> <li>· 장치 종류: Wireless Door Knob</li> <li>· 시리얼 번호: 0011D05D</li> <li>· 모델명: <input type="text"/></li> <li>· 하드웨어 버전: <input type="text"/></li> <li>· 잠금: <input type="button" value="잠금 해제"/></li> </ul>
--	---

인증

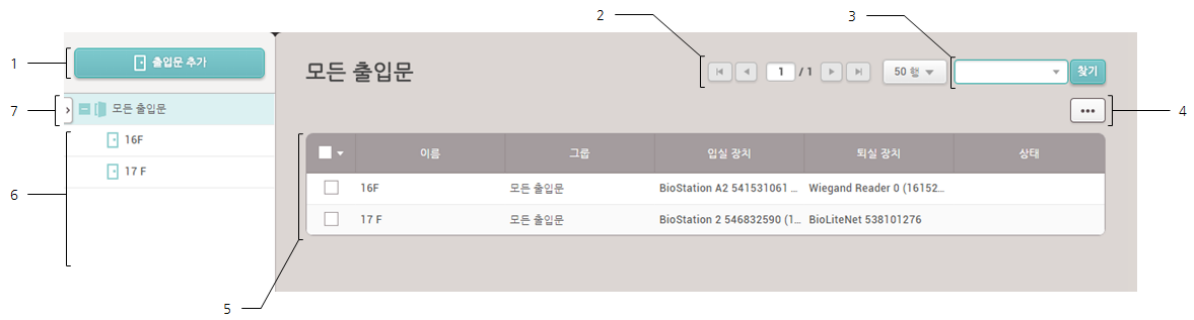
- 인증 모드:
- 전체 권한:  사용 안 함

1		<ul style="list-style-type: none"> <li>■ : CoreStation</li> </ul>
2		<ul style="list-style-type: none"> <li>■ : CSN</li> <li>■ + 가</li> <li>가 +</li> <li>가</li> <li>■</li> <li>■ : CoreStation</li> </ul>

3)

가

가



- 1 가 5
- 2 6
- 3 7
- 4 ( , )

가

가

1)

2)



3)

- ☑
- 8
- 48

—

1)

2)



3)

- ☑
- 48

—

1)

2)



1		
2		가
3		

2)

1)

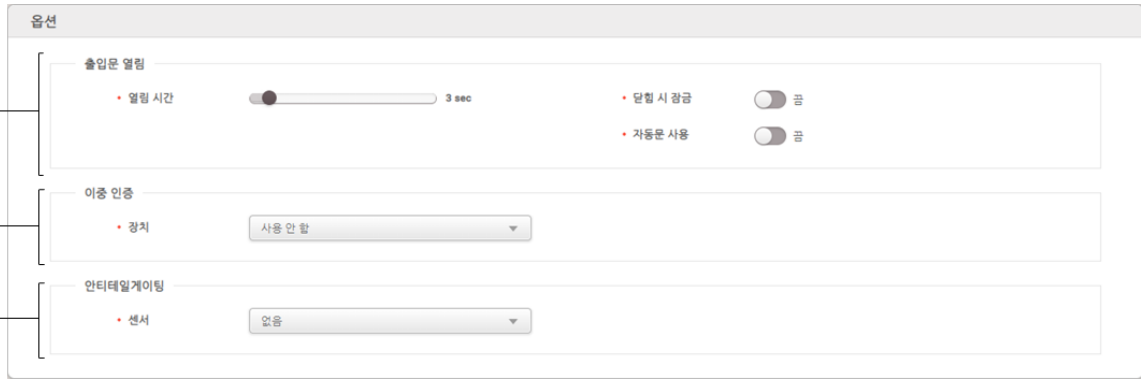
The screenshot shows a configuration window with the following settings:

- 입실 장치 (Entry Device): BioEntry W2 544108030 (192.168.12.176)
- 출입문 릴레이(\*) (Door Relay): 장치 BioEntry W2 544108030 (192.168.12.17...)
- 퇴실 버튼 (Exit Button): 장치 BioEntry W2 544108030 (192.168.12.17...)
- 출입문 센서 (Door Sensor): 장치 BioEntry W2 544108030 (192.168.12.17...)
- 퇴실 장치 (Exit Device): Xpass D2 400000005
- 스위치 (Switch): N/O (ON)
- 릴레이 비활성 (Relay Inactivation): 끄 (OFF)
- 스위치 (Switch): N/O (ON)
- 출입 기번 APB 사용 시 센서 사용 (Use Sensor when APB is used): 끄 (OFF)

1		가 , Wiegand
2		







1		<p>□ : 가 ,</p> <p>☑</p> <p>□</p> <p>□ : 가</p> <p>□ :</p>
2		<p>( )</p> <p>□ :</p> <p>☑</p> <p>□</p> <p>, &gt;</p>

		<ul style="list-style-type: none"> <li>가</li> <li>가</li> <li>가</li> <li>가</li> </ul>
3		<ul style="list-style-type: none"> <li>가</li> </ul>

2)

가 , 가

가 , 가



- RS-485 가
- 

1)

안티패스백

1 [ 종류 소프트웨어 안티패스백 초기화 시간 1440 분 ] 2

1	가	가
1		<ul style="list-style-type: none"> <li>▪ BioStar 2</li> <li>▪ BioStar 2</li> </ul>
2		(10080 ) ,0 7

2)

가



- 
-

1) + 가

**알람**

1	[ • 경시간 열림	<div style="background-color: #ccc; height: 15px; width: 100%;"></div> 동작	+추가
2	[ • 경시간 열림 시간	<div style="background-color: #ccc; height: 15px; width: 100%; position: relative;"> <div style="background-color: #000; width: 20%; height: 100%;"></div> <span style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); font-size: 8px;">10 sec</span> </div>	
3	[ • 강제 열림	<div style="background-color: #ccc; height: 15px; width: 100%;"></div> 동작	+추가
4	[ • 안티패스백	<div style="background-color: #ccc; height: 15px; width: 100%;"></div> 동작	+추가

1		+ 가
2		
3		+ 가
4		+ 가  ▪ 가

2)

- 1)
- 2)
- 3) 가
- 4)



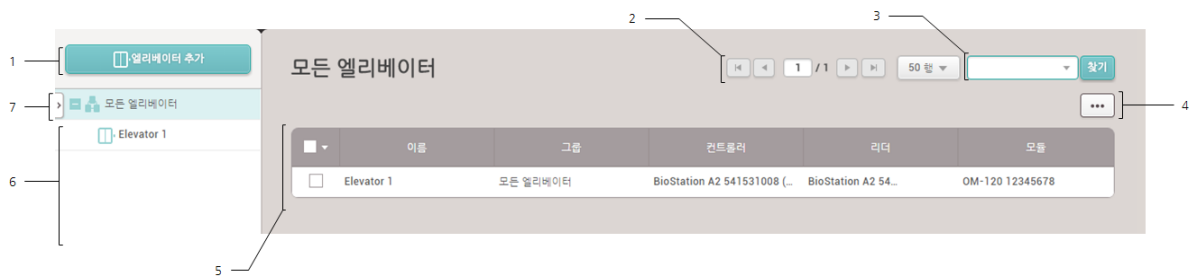
4)



5)

OM-120

가



1

가

ㄷ

2

ㄷ

3

7

4

( , )

가

— 가

1)

2)

가



3)



- 8
- 48

—

1)

2)



3)



48

1)

2)



가

가

1)

가

2)

3)



1)

정보

1 — [ 이름 Elevator 1 그룹 Parkview 1 ] — 3

2 — [ 설명 ]

1		
2		가
3		

2)



- BioEntry Plus, BioEntry W, BioLite Net

1)

상세 정보

**설정**

1 [ 컨트롤러 BioStation A2 541531008 (192.168.16.2... ) 리더 BioStation A2 541531008 (192.168.16.2... ) ] 2

3 [ 모듈 OM-120 12345678 ]


**층**

4 [ 층 층수 12 적용 자동 매핑  자동 매핑 ] 5

6 [ 층 설정

층 이름	장치	릴레이 번호	
Elevator 1 - 1	OM-120 12345678	OM-120 12345678 장치의 릴레이 0	
Elevator 1 - 2	OM-120 12345678	OM-120 12345678 장치의 릴레이 1	
Elevator 1 - 3	OM-120 12345678	OM-120 12345678 장치의 릴레이 2	
Elevator 1 - 4	OM-120 12345678	OM-120 12345678 장치의 릴레이 3	
Elevator 1 - 5	OM-120 12345678	OM-120 12345678 장치의 릴레이 4	
Elevator 1 - 6	OM-120 12345678	OM-120 12345678 장치의 릴레이 5	
Elevator 1 - 7	OM-120 12345678	OM-120 12345678 장치의 릴레이 6	
Elevator 1 - 8	OM-120 12345678	OM-120 12345678 장치의 릴레이 7	
Elevator 1 - 9	OM-120 12345678	OM-120 12345678 장치의 릴레이 8	
Elevator 1 - 10	OM-120 12345678	OM-120 12345678 장치의 릴레이 9	
Elevator 1 - 11	OM-120 12345678	OM-120 12345678 장치의 릴레이 10	
Elevator 1 - 12	OM-120 12345678	OM-120 12345678 장치의 릴레이 11	

3		
1		<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/></li> <li>▪</li> <li>▪</li> </ul> <p style="text-align: right;">가</p>
2		<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/></li> <li>▪ , Wiegand</li> <li>▪ 4</li> <li>▪ OM-120</li> </ul>
3		<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/></li> <li>▪ OM-120, DM-20, IM-120, SIO2</li> </ul>

4		 ■ 192
5		
6		

2)

가

1)

옵션

1 [ 딜레이 제어  
 • 딜림 시간  5 sec

2 [ 이중 인증  
 • 리더

3 [ 템퍼  
 • 템퍼 포트

1		■ : 가 ,
2		( )



---

1		
2		

2)

1)

2)

3)

가

4)

5)

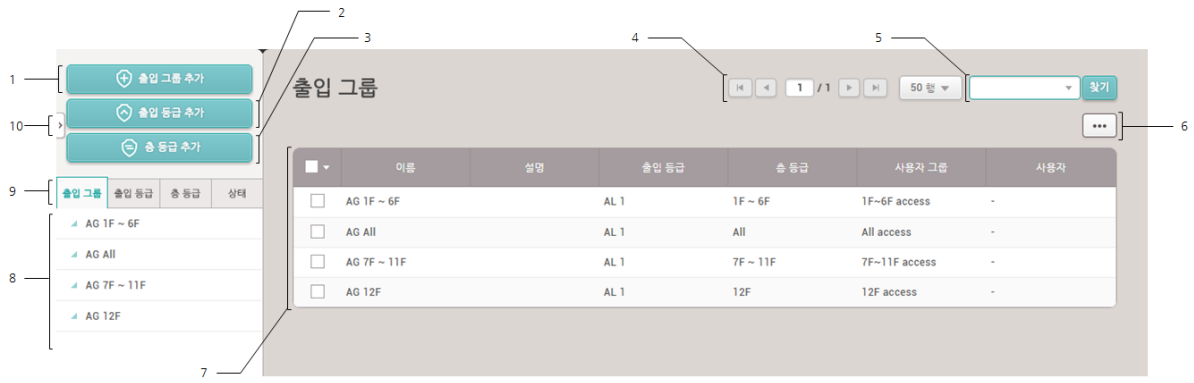


6)



▪

가



1 가 € ( , )

2 가 7 / / /

3 가 8 / /

4 9 , , ,

5 1  
C

- :
- :
- :

가 가 .

— 가

1) > 가 .

2) .

3) + 가 .

4) ▼ .



• 이름

• 설명

출입문	스케줄	
출입문 1	Always	

+ 추가



-  .
- . 가 .
- + 가 .
- 128 가 .
-  가 .

5)

—

- 1) > .
- 2) .
- 3) .

—

- 1) > .
- 2) .
- 3) .

—

가

- 1) > 가 .
- 2) .
- 3) + 가 .

4) ▼

- 이름
- 설명
- 출입 규칙
  - 출입 등급
  - 출근 등급
  - 사용자 그룹
  - 사용자



- + 가
- + 가
- 가

4)

—

- 1) >
- 2)
- 3)

—

- 1) >
- 2)
- 3)





가

가

- 1) > 가
- 2)
- 3) + 가
- 4) ▼

- 이름
- 설명

엘리베이터	층 이름	스케줄	
Elevator 1	Elevator 1 - 1 +	Always	+추가



- 가 가 가
- 가

- 5)

가

- 1) >
- 2)
- 3)

가

- 1) >
- 2)
- 3)

가  
,CSV

- 1) >
- 2) ,
- 3) ▼

출입권한 상태 - 출입문별

1) 필터 저장

2) 1 / 1

3) 50 행

출입문 그룹 ▼	출입문 ▼	스케줄 ▼	사용자 ID ▼	사용자 이름 ▼	사용자 그룹 ▼	사용자 권한 ▼
모든 출입문	16F	Always	10	User 001	모든 사용자	없음
모든 출입문	16F	Always	14	User 005	모든 사용자	없음
모든 출입문	16F	Always	99	kyle	모든 사용자	없음
모든 출입문	16F	Always	5	User 5	모든 사용자	없음
모든 출입문	16F	Always	12	User 003	모든 사용자	없음
모든 출입문	16F	Always	15	User 006	모든 사용자	없음

1		
2		<ul style="list-style-type: none"> <li>◀</li> <li>◁</li> <li>2 / 2</li> <li>▷</li> <li>▶</li> <li>25 rows ▼</li> </ul>
3	(CSV , )	CSV
4		

BioStar 2

,PIN



- 1 가 ( , ,CSV , , CSV , , 가 , , )
- 2 , 7
- 3 8
- 4 9
- 5



- , .
- .
- .
- : BioStar 2
- : BioStar 2

가

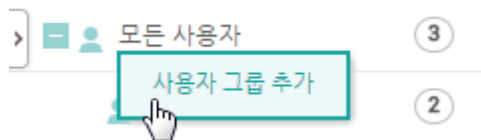
가

가

1)

2)

가



3)



- 8
- 48

가

1)

2)



3)



48

1)

2)



가

가 BioStar 2

1)

> 가

2)



경보

1 [ 프로필 사진 ]

16 [ + 사진 추가 ]

16 [ 카드 인쇄 ]

- 이름 [ ] 2
- 부서 [ ] 3
- ID [ 2 ] 4
- 그룹 [ 모든 사용자 ] 5
- 기간 [ 2001/01/01 00:00 ~ 2030/12/31 23:59 ] 6
- 권한 등급 [ 일반 사용자 ] 7
- 로그인ID [ ] 8
- 암호 [ ] 9
- 이메일 [ ] 10
- 직함 [ ] 11
- 전화번호 [ ] 12
- 상태 [ ] 13
- 출입 그룹 [ ] 14
- 사용자 IP [ ] 15

활성 [ ON ]

1		<p>PC</p> <p>가</p> <p>&amp;</p> <p>가</p>
2		<p>가</p> <p>(-, !, @, #, \$, %, ^, &amp;, (, ), -, _ =, +, [, ], {, }, ;, :)</p> <p>48</p>
3		<p>가</p> <p>( _ )</p> <p>64</p>
4	ID	ID

		<ul style="list-style-type: none"> <li>☑</li> <li>▪ &gt; ID 1~4294967294</li> <li>▪ &gt; ID</li> <li>▪ ID</li> <li>▪ ID</li> </ul>
5		
6		
7		<p>BioStar 2</p> <ul style="list-style-type: none"> <li>▪ :</li> <li>▪ :</li> <li>▪ :</li> <li>▪ : , 가</li> <li>▪ : 가</li> <li>▪ :</li> <li>▪ :</li> </ul> <p>☑</p> <ul style="list-style-type: none"> <li>▪ 가</li> <li>▪ BioStar 2.5.0 BioStar 2.6.0</li> </ul>
8	ID	<p>BioStar 2 ID</p> <p>☑</p> <ul style="list-style-type: none"> <li>▪ ID</li> </ul>
9		<p>BioStar 2</p>

		<input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>가</li> </ul>
10		<input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>,</li> <li>OR</li> </ul>
11		<input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>( ) 64</li> </ul>
12		<input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>,</li> </ul>
13		
14		
15	IP	<p>IP IP IP</p> <p>PC IP 가</p> <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>IP xxx.xxx.xxx.xxx 0~255</li> <li>IP , PC IP</li> </ul>



		<ul style="list-style-type: none"> <li>IP PC IP</li> </ul>
16		가

3)



- 가 가

### CSV

CSV , CSV

CSV



- BioStar 2 가 가 CSV 가
- 가 CSV UTF-8

### — CSV

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

— CSV

1) ... 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

2) CSV

3)

CSV 불러오기
✕

- 파일 불러오기
- 불러오기 시작 행

4) CSV BioStar 2 가

CSV 불러오기
✕

CSV 필드	사용자 데이터 필드
user_id	user_id ▼
name	name ▼
department	department ▼
user_title	user_title ▼
phone	phone ▼
email	email ▼
user_group	user_group ▼
start_datetime	start_datetime ▼
expiry_datetime	expiry_datetime ▼
csn	csn ▼
mobile_start_dateti...	mobile_start_datetime ▼
mobile_expiry_date...	mobile_expiry_datetime ▼

5) BioStar 2 ID가 CSV



- CSV  
가 Airfob Portal 1

- CSV BioStar 2  
가 ,  
가

- CSV BioStar 2  
가 가  
가

- CSV  
mobile\_start\_datetime mobile\_expiry\_datetime

- BioStar 2 QR CSV

- CSV

- CSV PIN PIN

6) CSV 가 가 가 CSV



- CSV 가 BioStar 2

가

(USB) BioStar 2 가 500,000



- BioStar 2

- BioStar 2.8.10 BioStar 2
- BioStar 2
  - BioStation 2 1.9.0
  - BioStation A2 1.8.0
  - FaceStation 2 1.4.0
  - FaceStation F2 2.0.0
  - X-Station 2 1.0.0
  - BioStation 3 1.0.0
- 가 ,Suprema  
ISO
- 가
- FaceStation F2 가 가 BioStar 2  
가 가

- 1)
- 2)



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) .USB



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

- 2) (\*.tgz) .
- 3) 가 가 .

PIN, , .

PIN

QR/  
1:1

PIN

PIN .

1) PIN PIN .

•  PIN

• PIN 확인

- 2) PIN .
- 3) .

— CSV

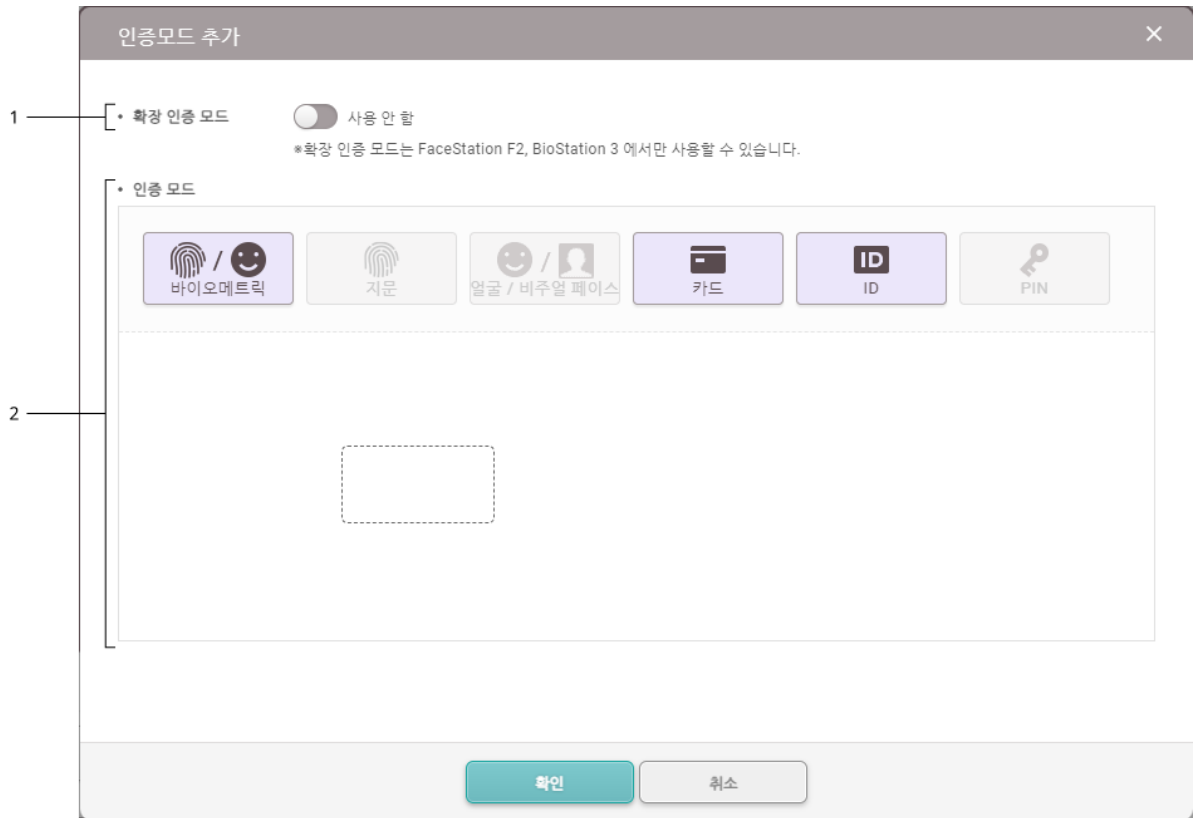
- CSV PIN .
- 1) CSV **pin** 가 .
- 2) **pin** PIN .
- 3) **CSV** PIN 가 CSV BioStar 2 .




■ PIN CSV , PIN  
CSV .

- 1) .
- 2) + 가 .





1		 FaceStation F2 BioStation 3
2		

3)



■

BioStar 2

BioStar 2

인증 모드       개인 인증 모드

+

+ 추가

장치 기본 인증 모드 포함



- 가
- 가

1) +

지문 등록
✕

1 — [ • 장치      없음 ▼

2 — [ • 품질      
80

3 — [  이미지 보기

지문 등록

4 — [ + 추가

5 — [

9 — 스캔

8 — 삭제

7 — 지문 중복 확인

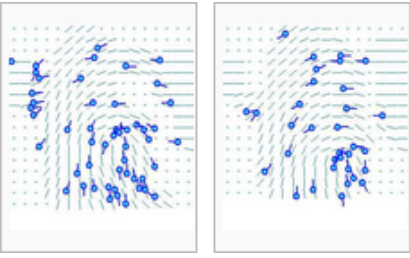
6 —  헛박 지문

등록

취소

1		
2		

172

		가
3		
4		가 + 가 10 가
5		
6		가 BioStar 2
7		
8		
9		가

2)

3) 1:1



- 
- 
- 
- 
- 

BioStar

(FRR)

가



- 40 ~ 80 cm
- ( , , )
- 가
- , , ,
- /

1) +

얼굴 등록
✕

1 — [ 장치 없음 ▼

2 — [ 얼굴 포즈 변화 4

얼굴 등록

3 — [ + 추가

7 — 스캔

6 — 삭제

5 —  프로필 이미지로 사용

등록

취소

1		
2		
3		가 + 가 5 가
4		
5		
6		
7		

2)

3) 1:1



- 
- .1:1 (FRR)



- - FaceStation F2, BioStation 3
- - 60 ~ 100 cm
- -


가

FaceStation F2, BioStation 3

1) +



1		
2		가 + 가 2 가
3		

4		
5		 <ul style="list-style-type: none"> <li>▪</li> <li>▪</li> </ul> 10MB JPG, JPEG, PNG
6		
7		

2)

**CSV**

CSV

1)

2)

3) CSV

CSV

4) CSV

(face\_image\_file1, face\_image\_file2)

5) CSV

가 CSV

BioStar 2

6)

가



- CSV
  - 10MB
  - JPG, JPEG, PNG
- 7) CSV .CSV 가  
가 가 CSV



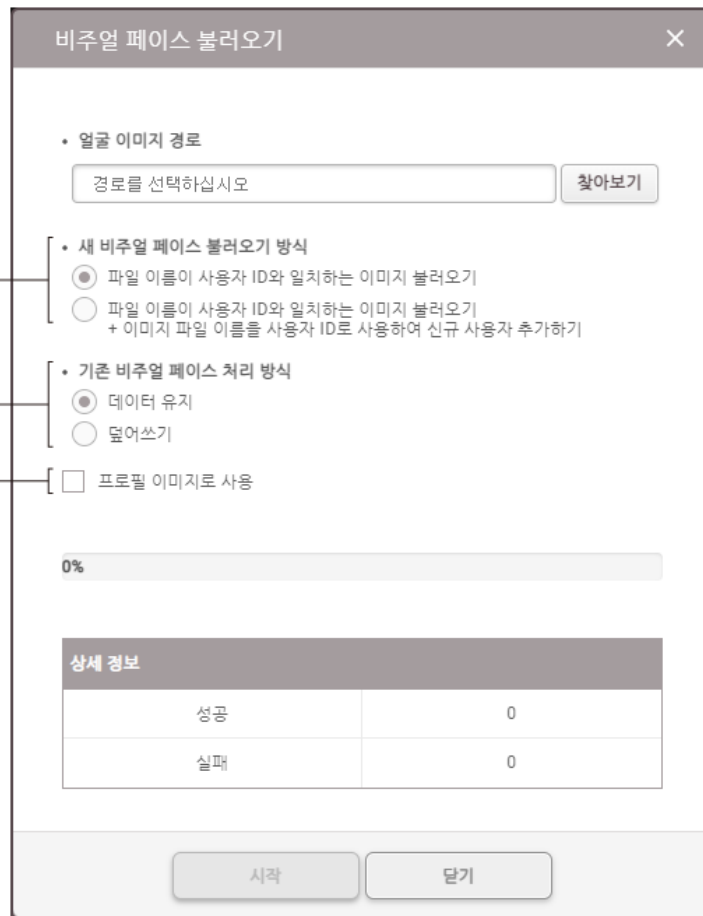
ID 가

1)





2) 가



1		<ul style="list-style-type: none"> <li> <p> <b>ID</b> :                      BioStar 2 ID                 </p> </li> <li> <p> <b>ID</b> +                      ID 가                      : BioStar 2 ID                      ID                 </p> </li> </ul>
2		<ul style="list-style-type: none"> <li> <p>                     :                 </p> </li> <li> <p>                     :                 </p> </li> </ul>

3		

3) 가 가 가



- 10MB
- JPG, JPEG, PNG
- ID 1

1) ...

모든 사용자

1 / 1 50 행 찾기

일괄 편집 | 장치로 전송 | 사용자 삭제 | ...

ID	이름	이메일	그룹	총인 그룹		
<input type="checkbox"/>	1	Administrator	-	모든 사용자	-	0
<input checked="" type="checkbox"/>	2	USER1	abc@suprema.co.kr	모든 사용자	-	0
<input checked="" type="checkbox"/>	3	USER2	def@suprema.co.kr	모든 사용자	-	0
<input type="checkbox"/>	4	USER3	ghi@suprema.co.kr	모든 사용자	-	0

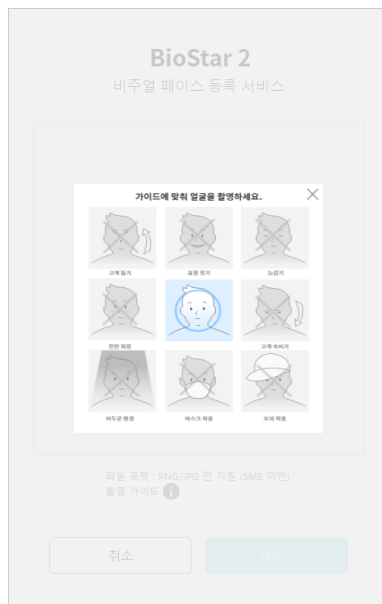
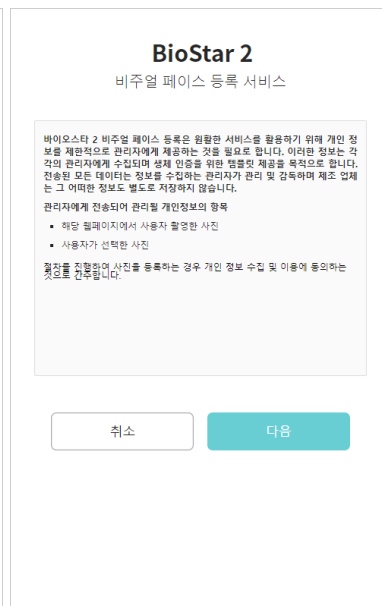
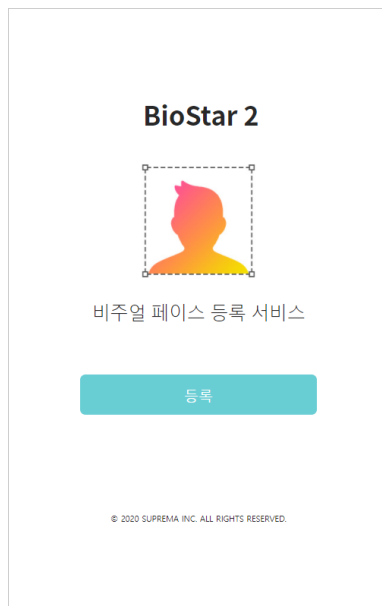
- 인쇄
- 열 설정
- CSV 내보내기
- CSV 불러오기
- 비주일 피이스 불러오기
- 데이터 파일 내보내기
- 데이터 파일 가져오기
- 비주일 피이스 모바일 등록 링크 전송
- 비주일 피이스 마이그레이션

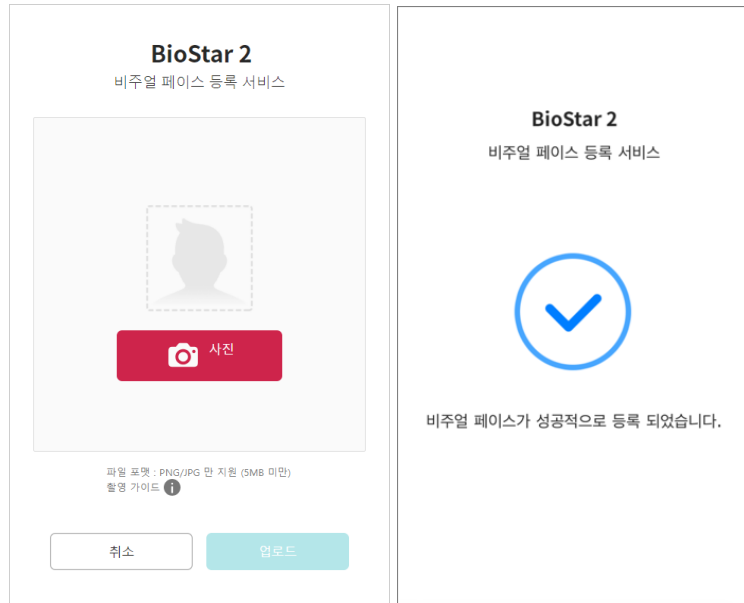
2) 가 , 가 가



- SMTP

- 가
- 가
- 가
- 가





- 10MB
  - JPG, JPEG, PNG
  - 24
  - 가
- 가 ,

PC

&

가

CSN  
Wiegand  
/

[USB Agent ]

	CSN	Wiegand	
EM	X	X	X
MIFARE	O	X	O
DESFire	O	X	O
FeliCa	O	X	X
HID Prox	X	X	X
HID iCLASS	X	X	X

CSN

가 CSN

1) +

2) CSN

카드 등록
✕

- 카드 종류 CSN ▼
- 등록 방법 리더로 등록 ▼
- 장치 BioStation A2 541531061 (192.168.16.206) ▼

정보

- 카드 ID   카드 읽기

등록
취소

3)

—

BioStar 2

- a)
- b)
- c)

—

BioStar 2

- a)
- b)

—

a)

b) **ID**

4)

Wiegand

가 Wiegand

1) +

2) **Wiegand**



a)

b)

ID

5)

가

/



▪

>

▪

/

1) +



카드 등록
✕

• 카드 종류 스마트 카드

• 카드 레이아웃 형식 Test

• 장치 BioStation 3 547838671 (192.16...

• 스마트 카드 종류 액세스 온 카드

정보

• 카드 ID 2

• 출입 그룹

• 얼굴 템플릿  사용 안 함

• 지문

1번째 손가락

협박 지문

2번째 손가락

협박 지문

• 개인 인증 모드 +추가

모바일 카드 발급
스마트 카드 쓰기
취소

- 2)
- 3)
- 4)
- 5)

- : ( ID, PIN, , , , , , )



- > /

- : ( ID, PIN, , )

.BioStar 2



- > /
- :



- - XPass D2 1.7.1
- - BioEntry P2 1.5.1
- - BioEntry W2 1.8.0
- - BioStation 2a 1.1.0
- /

6)

7)

가



- BioStar 2 Mobile
- ID
- BioStar 2 ,
- 가 ,
- 가

1) +

카드 등록

• 카드 종류: 카드 읽기

• 장치: BioStation 3 50998977 (1...)

• 슈프리마 스마트 카드 레이아웃 형식

• 스마트 카드 유형

• 커스텀 스마트 카드 레이아웃 형식

경보

• 카드 ID

• 출입 그룹

• 지문

• PIN

• 기간

1번째 손가락

2번째 손가락

• 개인 인증 모드

해당 정보 없음

카드 포맷

카드 읽기

취소

2)

3)

ID

4)

5)

6)



■

Airfob Portal

CSV

Airfob Portal



■

Airfob Portal

CSN Mobile

CSN Mobile

CSN



■

Airfob Portal

- 1) +
- 2) CSN Mobile
- 3)

BioStar 2 CSN Mobile

a)

×
모바일 출입카드 등록

• 카드 종류 CSN Mobile ▼

• 등록 방법 카드 할당 ▼

×
Q

⏪ ⏩
1 / 1
⏪ ⏩
50 행 ▼

카드 ID	종류	상태
159609338918850	CSN Mobile	미할당 카드

**정보**

- 사진  사용 안 함
- 부서  사용 안 함
- 직함  사용 안 함

**유효기간**

- 만료 기간 +1일 +7일 +30일 +1년
- 기간 2020/11/24 17:36 ~ 2020/11/25 17:36 📅

등록
취소

b)

c)



- 
-

ID ID CSN Mobile

a)

모바일 출입카드 등록 ×

• 카드 종류 CSN Mobile ▼

• 등록 방법 직접 입력 ▼

카드 ID

• 카드 ID 160584701627650 사용자 ID 사용

• 입력 종류  랜덤 카드 ID 사용

경보

• 사진  사용 안 함

• 부서  Marketing

• 직함  Manager

유효기간

• 만료 기간 +1일 +7일 +30일 +1년

• 기간 2020/11/24 17:36 ~ 2020/11/25 17:36 📅

등록 취소

b)

ID ID가

ID

ID

ID

ID

c)



ID

ID

4)



가

Airfob Portal

종류	카드 데이터 형식	요약	
CSN Mobile	모바일 카드	ID: 1231231244123	재전송 차단

BioStar 2

Airfob Portal



- BioStation 3 1.2.0

Airfob Portal

CSN Mobile

가

- 1) +
- 2)

모바일 출입카드 등록
✕

- 카드 종류 ▼  
템플릿 온 모바일
- 스마트 카드 유형 ▼  
액세스 온 카드

카드 정보

- 카드 ID 1      • PIN
- 출입 그룹       • 기간 2001-01-01 00:00...
- 개인 인증 모드 +추가

정보

- 사진  사용 안 함
- 부서  사용 안 함
- 직함  사용 안 함

유효기간

- 만료 기간 +1일 +7일 +30일 +1년
- 기간 2023/09/05 18:18 ~ 2023/09/06 18:18 📅

등록
취소

- 3)

- : ( ID, PIN, , , )
- : ( ID, PIN) .BioStar 2

- 4)



- , ,



- 

Airfob Pass

5)



- 

QR/

QR/



- **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/

— BioStar 2 QR

BioStar 2                      PIN                      QR

QR



- BioStar 2 QR                      SMTP
- BioStar 2 QR                      가

a) QR/                      BioStar 2 QR

**QR/바코드 등록** ✕

• QR/바코드 종류    BioStar 2 QR ▼

---

**정보**

• 카드 ID                      167462108562756

• 입력 종류                       랜덤 카드 ID 사용

\* BioStar 2 QR 은 암호화된 PIN 을 포함합니다.

등록    취소

b)                      ID                      ID  
                         ID가                      ID



- ID                      ID

QR/

a) QR/ QR/

The image shows a web form titled "QR/바코드 등록" (QR/Barcode Registration). It contains the following elements:

- A dropdown menu for "QR/바코드 종류" (QR/Barcode Type) with "QR/바코드" selected.
- A dropdown menu for "등록 방법" (Registration Method) with "직접 입력" (Direct Input) selected.
- A section titled "정보" (Information) containing a text input field for "카드 ID" (Card ID).
- Two buttons at the bottom: "등록" (Register) and "취소" (Cancel).

b)

c) QR/ ID



ID , , 32

3) QR/

1:1

1:1

1:N

1:N

가

1:1

1) 1:1

• 1:1 보안 등급



2)



- 가 , ID 가 1:1  
 , ID 가 1:1  
 .
- (FRR)



- > >

1)

종류	카드 데이터 형식	요약	
비주요 페이스	-	1	동기화 ✎ 🗑️

BioStar 2

1)



- 2)
- 3)
- 4)

가



BioStar 2

- 1)

장치에서 삭제 ×

사용자 (1)  
• 장치 목록

<input checked="" type="checkbox"/>	모든 장치
<input checked="" type="checkbox"/>	14F
<input checked="" type="checkbox"/>	BioStation L2 542501048 (192.168.14.125)

삭제취소



- 2)
- 3)



BioStar 2

- 1)
- 2)
- 3)

일괄 편집 ✕

사용자 (27)

- 그룹
- 상태  활성화
- 기간   ~
- 출입 그룹
- 권한 등급

- 4)
- 5)



- 'Administrator'

,CSV

- 1)
- 2)
- 3)
- 4)



- 가

1)

2) 

모든 사용자

ID	이름	이메일	그룹	출입 그룹	0
1	Administrator	-	모든 사용자	-	0
2	USER1	abc@suprema.co.kr	모든 사용자	-	0
3	USER2	def@suprema.co.kr	모든 사용자	-	0
4	USER3	ghi@suprema.co.kr	모든 사용자	-	0

- 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)

4)

BioStar 2

비주얼 페이스 마이그레이션

100%

• 마이그레이션 결과

상세 정보	
전체 비주얼 페이스(사용자)	2(2)
성공(사용자)	2(2)
실패(사용자)	0(0)

닫기

5)

CSV





The screenshot shows the '안티패스백' (Anti-Passback) interface. On the left is a sidebar menu with items like '안티패스백', '화재 경보', '스케줄 잠금', '스케줄 개방', '경비', '인터락', '소집', and '재실 인원 제한'. The main area has a header with a search bar and a table of active items. Callouts 1-7 point to specific UI elements: 1 (Add Area), 2 (Navigation), 3 (Page Size), 4 (More Options), 5 (Table Header), 6 (Sidebar Item), and 7 (Sidebar Item).

이름	입실 장치	퇴실 장치	활성/비활성	상태
APB 1	BioEntry W2 544117812 (192...	Xpass D2 400000005	활성	정상

- 1 가 5
- 2 6
- 3 7
- 4 ( )

1) > 가 .

2)

**정보**

1 [ • 이름  • 종류

---

**설정**

2 [ • 모드  글루브 • 활성/비활성  활성화

• 안티패스백 종류  소프트 안티패스백 • 초기화 시간  분

• 출입 기반 APB  • 획득 장치

• 입실 장치  • 획득 장치

• 네트워크 오류 동작

---

**알람**

3 [ • 동작  + 추가

---

**안티패스백 항시 통과**

4 [ • 항시 통과 그룹

1		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul>
2		<ul style="list-style-type: none"> <li>■ :</li> <li>■ / :</li> <li>■ :</li> <li>■ :</li> <li>■ APB: RS-485 BioStar 2</li> <li>■ APB: 7 (10080 ) .0 가</li> <li>■ APB 가</li> <li>■ APB</li> </ul>

		<ul style="list-style-type: none"> <li>▪ : 가</li> <li>Wiegand</li> <li>▪ : 가</li> <li>Wiegand</li> <li>▪ : BioStar 2</li> <li>APB</li> <li>APB</li> </ul>
3		
4		

3)

1) > 가

2)

**정보**

1 [ 이름  종류 화재 경보

**설정**

2 [ 모드  로컬  활성화/비활성  활성화

출입문 Door 1  엘리베이터

감지/입력	스위치	지속 시간(ms)	
장치 BioStation 2 546832590 (192.168.16.196)의 입력 0 <input type="button" value="장치의 입력"/>	<input checked="" type="checkbox"/> N/O	100 <input type="button" value="100"/> <input type="button" value="↑"/> <input type="button" value="↓"/>	<input type="button" value="삭제"/>

**알람**

3 [ 동작

1		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul>
2		<p style="text-align: center;">RS-485 BioStar 2</p> <ul style="list-style-type: none"> <li>■ / :</li> <li>■ :</li> <li>■ :</li> <li>■ / :+ 가</li> <li><input checked="" type="checkbox"/></li> <li>■</li> <li>■</li> </ul>
3		가

3)



■

1) > 가

2)

1) **정보**

이름:  종류: 스케줄 잠금

2) **설정**

활성/비활성:  활성화  
 출입문: Door 1  
 출입문 잠금 종류:  확실 허용  
 스케줄: Always

3) **알람**

동력:  + 추가

4) **스케줄 잠금 항상 통과**

항시 통과 그룹:

1		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul>
2		<ul style="list-style-type: none"> <li>■ / :</li> <li>■ :</li> <li>■ : ( )</li> <li>■ : + 가</li> </ul>

3		
4		

3)



1) > 가

2)

**정보**

• 이름       • 종류

**설정**

• 활성/비활성  활성      • 사용자 인증에 의한 시각  활성

• 출입문/엘리베이터  출입문      • 스케줄

• 출입문

**스케줄 개방 인증**

• 출입 그룹

1		



2)

1		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul>
2		<ul style="list-style-type: none"> <li>■ :</li> <li>■ / :</li> <li>■ :</li> </ul> <p style="text-align: center;">RS-485</p>
3	/	<p style="text-align: center;">가</p> <ul style="list-style-type: none"> <li>■ :</li> <li>■ / :</li> <li>■ / :</li> <li>■ / :</li> <li>■ / :</li> </ul> <p style="text-align: right;">가</p>




■ / : /  
/ + 가  
/ 가  
/ LCD

경비/해제 설정 (장치) 추가 ×

- 장치  
BioStation L2 542501048 (192.168.14.125) ▼
- 경비 종류  
경비 / 해제 ▼
- 입력 종류  
카드 또는 키 ▼

확인 취소

/ 가

		<div style="border: 1px solid #ccc; padding: 10px;"> <div style="background-color: #f0f0f0; padding: 5px; border-bottom: 1px solid #ccc; display: flex; justify-content: space-between;"> <span>경비/해제 설정 (입력) 추가</span> <span>✕</span> </div> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <div style="background-color: #f0f0f0; padding: 5px; text-align: center;">설정</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> <li>• 장치 <div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>BioStation L2 542501048 ...</span> <span>▼</span> </div> </li> <li>• 포트 <div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>입력 포트 0</span> <span>▼</span> </div> </li> <li>• 경비 종류 <div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>경비 / 해제</span> <span>▼</span> </div> </li> </ul> </div> <div style="width: 45%;"> <ul style="list-style-type: none"> <li>• 스위치 <div style="display: flex; align-items: center;"> <input checked="" type="checkbox"/> N/O                 </div> </li> <li>• 지속시간(ms) <div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span>100</span> <span>▲</span> <span>▼</span> </div> </li> </ul> </div> </div> </div> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <div style="background-color: #00a090; color: white; padding: 5px 15px; border-radius: 5px;">확인</div> <div style="border: 1px solid #ccc; padding: 5px 15px; border-radius: 5px;">취소</div> </div> <div style="margin-top: 10px;">  <p>■ .</p> </div> </div>
<p>4</p>		<p style="text-align: center;">+ 가</p> <p>BioStation L2      0      N/O      가 100(ms)</p> <p style="text-align: center;">. .</p>

		<div style="background-color: #cccccc; padding: 5px; border: 1px solid #ccc;">침입 감지 설정 추가 <span style="float: right;">✕</span></div> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"><div style="background-color: #cccccc; padding: 5px; border: 1px solid #ccc; text-align: center;">설정</div><div style="display: flex; justify-content: space-between;"><div style="width: 45%;"><ul style="list-style-type: none"><li>• 장치 <div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;">BioStation L2 542501048 ... ▼</div></li><li>• 포트 <div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;">입력 포트 0 ▼</div></li></ul></div><div style="width: 45%;"><ul style="list-style-type: none"><li>• 스위치 <div style="display: flex; align-items: center;"><input checked="" type="checkbox"/> N/O</div></li><li>• 지속시간(ms) <div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;">100 <span style="font-size: 0.8em;">▲▼</span></div></li></ul></div></div></div> <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc; text-align: center;"><div style="background-color: #00a090; color: white; padding: 5px 15px; border: 1px solid #ccc; margin-right: 10px;">확인</div><div style="background-color: #cccccc; padding: 5px 15px; border: 1px solid #ccc;">취소</div></div> <div style="margin-top: 10px;"><input checked="" type="checkbox"/></div> <div style="margin-left: 20px;">▪</div>
5		가 <div style="margin-top: 10px;"><input checked="" type="checkbox"/></div> <div style="margin-left: 20px;">▪</div>

3)

가



- 4
- CoreStation
- 
- 

- 1) > 가
- 2)
- 3)

The screenshot shows a configuration interface with four sections:

- 1 정보 (Info):** Includes fields for '이름' (Name) and '종류' (Type) set to '인터락' (Interlock).
- 2 설정 (Settings):** Includes '모드' (Mode) set to '문잠' (Door Lock), '출입문' (Entrance) set to 'Door 2', and '활성/비활성' (Active/Inactive) toggle set to '활성' (Active). A note states: '\*출입문 센서가 사용되어야만 설정 가능합니다.' (Setting is possible only when the entrance sensor is used).
- 3 옵션 (Options):** Includes '동작' (Action) set to '강제/입력' (Force/Input), '요약' (Summary), and a '+추가' (Add) button.
- 4 알람 (Alarm):** Includes '동작' (Action) set to '이벤트' (Event), '동작' (Action), and a '+추가' (Add) button.

1		<ul style="list-style-type: none"> <li>▪ :</li> <li>▪ :</li> </ul>
2	CoreStation RS-485	<ul style="list-style-type: none"> <li>▪ / :</li> <li>▪ :</li> </ul> <p style="text-align: right;">2</p>

		, 가 가 .
3		가 <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>▪ .</li> </ul>
4		가 <input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>▪ .</li> </ul>

4)

가  
가

1) > 가 .

2)

3)

1) 정보

- 이름: Muster 1
- 종류: 소집


2) 설정

- 모드:  글로브
- 활성/비활성:  활성
- 입실 장치: BioLiteNet 538101276
- 퇴실 장치: BioStation 2 546832506
- 출입 그룹: AG 1
- 최대 체류 시간: 0 분

3) 알람

- 동작: 이벤트 | 동작 |

1		.

		<ul style="list-style-type: none"> <li>▪ : .</li> <li>▪ : .</li> </ul>
2		<ul style="list-style-type: none"> <li>▪ : .</li> <li>▪ BioStar 2 / : .</li> <li>▪ : .</li> <li>▪ , 가 , , .</li> <li>▪ Wiegand : , 가 , , .</li> <li>▪ : , 가 , , .</li> <li>▪ Wiegand : , 가 , , .</li> <li>▪ : 가 , 16 .</li> <li>▪ : .</li> <li>▪ 4320 , 가 .</li> </ul>
3		<p style="text-align: center;">가 .</p> <ul style="list-style-type: none"> <li>▪  .</li> </ul>

4)

가



100 가 .

- FaceStation F2      1.1.0
- FaceStation 2      1.5.0

- 1) > 가 .
- 2) .
- 3) .

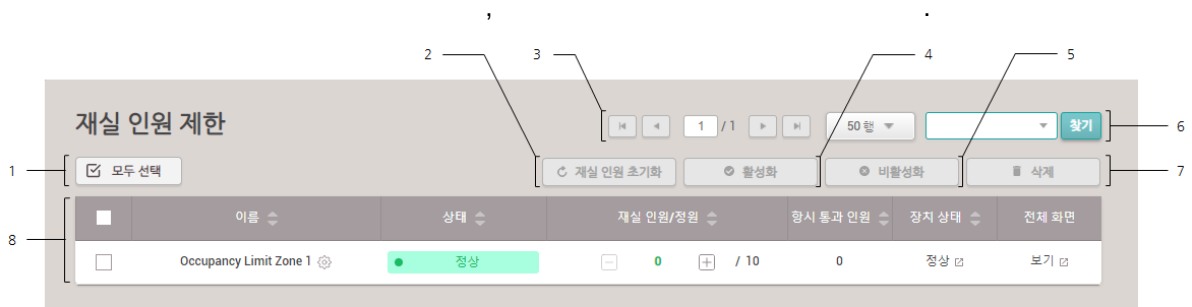
1		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>☑</li> <li>■ 48 ,</li> </ul>
2		<ul style="list-style-type: none"> <li>■ :</li> <li>■ / :</li> <li>■ :</li> <li>■ :</li> <li>■ :</li> </ul> <p style="text-align: center;">가</p>

		<p>가</p> <p>10,000</p> <p>.0</p> <p>가</p> <p>1 가 2</p> <p>+</p> <p>가</p> <p>가</p> <p>☑</p> <p>128</p> <p>,UTC+1:00</p> <p>BioStar 2 00:00</p> <p>UTC+2:00 BioStar 2 01:00</p> <p>2</p> <p>1 2</p>
3		<p>☑</p>



		16

4)



1		
2		
3		<ul style="list-style-type: none"> <li>■ ◀</li> <li>■ ◀</li> <li>■ 2 / 2</li> <li>■ ▶</li> <li>■ ▶</li> <li>■ 25 rows ▼</li> </ul>
4		
5		
6		

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8		<p>.</p> <ul style="list-style-type: none"> <li>▪ :</li> <li>▪ :</li> <li>- : 가 , 1, 2</li> <li>- : 가 1</li> <li>2</li> <li>- : 가 ,</li> <li>▪ / : 가</li> <li>가 <input type="checkbox"/>, <input type="checkbox"/></li> <li>▪ :</li> <li>▪ :</li> <li>- : 가</li> <li>- : 1 가</li> <li>▪ :</li> <li><input checked="" type="checkbox"/></li> <li>▪ 50,000</li> <li>999,999</li> <li>가</li> </ul>

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3		<ul style="list-style-type: none"> <li>◀</li> <li>▶</li> <li>25 rows ▼</li> </ul>
4	( ,CSV , 가 )	<ul style="list-style-type: none"> <li>가</li> <li>CSV</li> <li>가</li> <li>가</li> <li>가</li> </ul>
5		<ul style="list-style-type: none"> <li>가</li> <li>PC</li> </ul>



가



BioStar 2 가  
 , BioStar 2 가  
 가

가

(USB) BioStar 2



- BioStar 2 가
- FaceStation F2, FaceStation 2, FaceLite, BioStation A2, BioStation 2, X-Station 2, BioStation 3 가
- BioStar 2 , , 가 가

1) ... 가



2) (\*.tgz)

3) 가 가



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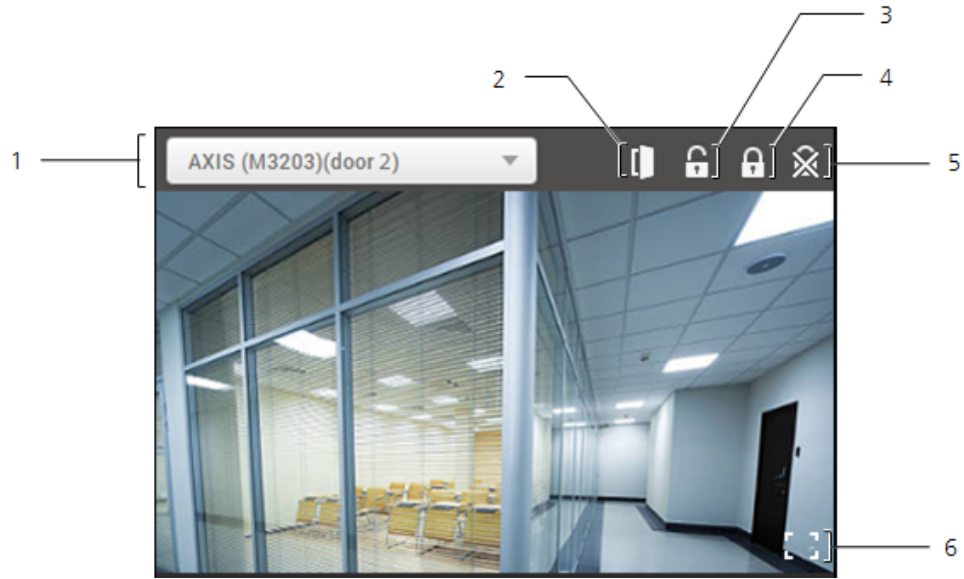
1) [Filter] [Pause] [Delete] [Menu]

날짜	출입문	장치 ID	장치	사용자	구역	이벤트	...
2015/11/05 15:28:02	541530948	BioStation A2 5415...				1:N 인증 실패 (지문)	[User Icon]
2015/11/05 15:27:57	541530948	BioStation A2 5415...				1:N 인증 실패 (지문)	[User Icon]
2015/11/05 15:27:52	541530948	BioStation A2 5415...				1:N 인증 실패 (지문)	[User Icon]
2015/11/05 15:27:48	541530948	BioStation A2 5415...	2(-)			1:N 인증 성공 (지문)	[User Icon]

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1	IP	IP . IP 가
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3		<ul style="list-style-type: none"> <li>가</li> <li>/</li> <li>:</li> <li>&gt;</li> </ul>



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총 상태

1 [▼ 필터 저장] 2 [◀ ▶ 1 / 1 ▶ ▶] 50 행 ▼ 3 [⋮]

<input type="checkbox"/>	엘리베이터 ▼	층 이름 ▼	층 상태 종류	층 릴레이	알람	마지막 이벤트
<input type="checkbox"/>	Elevator 1	Elevator 1 - 1	보통	잠김		
<input type="checkbox"/>	Elevator 1	Elevator 1 - 2	보통	잠김		
<input type="checkbox"/>	Elevator 1	Elevator 1 - 3	보통	잠김		
<input type="checkbox"/>	Elevator 1	Elevator 1 - 4	보통	잠김		
<input type="checkbox"/>	Elevator 1	Elevator 1 - 5	보통	잠김		

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3		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>■ :</li> <li>■ :</li> <li>■ :</li> </ul>



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2		<ul style="list-style-type: none"> <li>■ [Previous Page]</li> <li>■ [Previous]</li> <li>■ 2 / 2</li> <li>■ [Next]</li> <li>■ [Next Page]</li> <li>■ 25 rows</li> </ul>
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4		<ul style="list-style-type: none"> <li>■ &lt;&lt; :</li> <li>■ &lt; :</li> <li>■ 2 / 2 :</li> <li>■ &gt; :</li> <li>■ &gt;&gt; :</li> <li>■ 25 rows ▾ :</li> </ul>
5	( ,CSV )	<p>가</p> <ul style="list-style-type: none"> <li>■</li> <li>■ CSV</li> <li>■</li> </ul>
6		<p>가</p> <ul style="list-style-type: none"> <li>■</li> </ul>



가



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모든 그래픽 맵

그룹 추가

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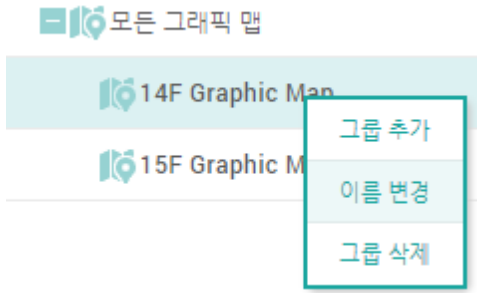
▪

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설정

• 이름

• 그룹

• 배경화면

• 출입문

• 구역

3)

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- 5MB
- BMP, GIF, JPG, JPEG, PNG
- BioStar 2

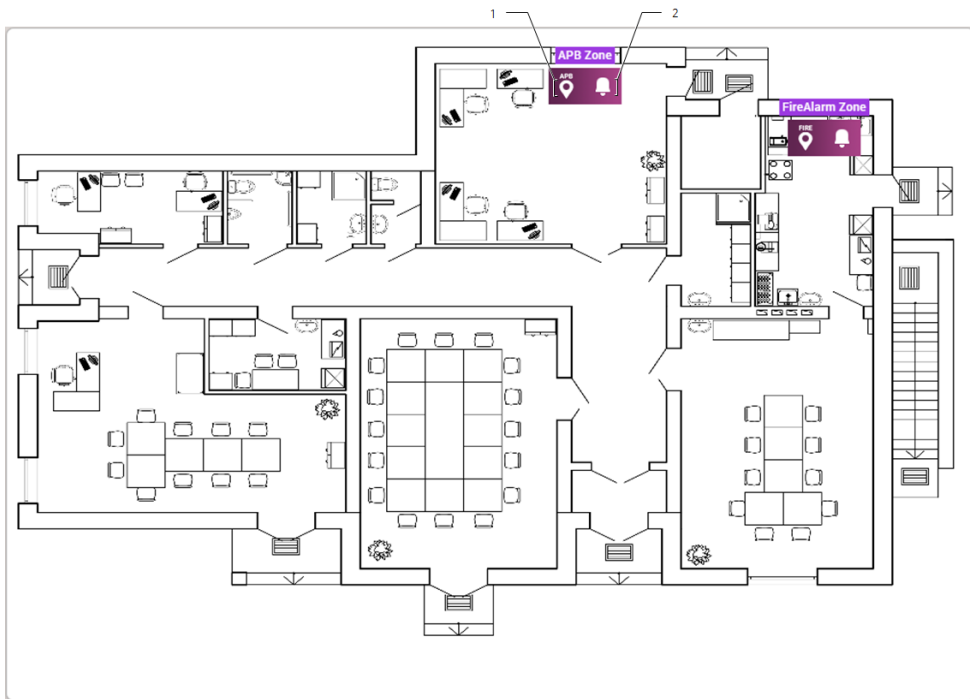
5)

가





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  모든 그래픽 맵

 Office 01

 14F Graphic Map 01  

 Office 02

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  모든 그래픽 맵

 Office 01

 14F Graphic Map 01  

 Office 02

3)

IP

가

IP

가

NVR 가  
IP 가



- BioStar 2
- BioStar 2가 PC (NTP)
- .Windows > time.windows.com
- 가 가

ID	계좌사	종류	NVR	카메라	IP	포트
700000001	HikVision	NVR	NVR 1	HIKVISION IPC-HFW1420S	192.168.12.120	8000

- 1 NVR 가
- 2 가
- 3 ( )
- 4 NVR IP
- 5 NVR IP
- 6

NVR 가

NVR 가



- NVR ACTi, Dahua, Hikvision 가 .NVR 가

- 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
- 2)

새 NVR 추가
✕

이름	<input type="text"/>
제조사	<input type="text" value="▼"/>
IP	<input type="text"/>
포트	<input type="text"/>
ID	<input type="text"/>
암호	<input type="text"/>

확인

취소

1		NVR
2		NVR .ACTi, Dahua, Hikvision
3	IP	NVR IP
4		NVR
5	ID	NVR (ID) <input checked="" type="checkbox"/> ■ ID .NVR

6		NVR ( )

3)



- NVR (IP, ID)

## IP 가

NVR IP 가



- IP 가 NVR 가 NVR 가
- BioStar 2 IP (NTP)  
time.windows.com

1) > 가

2) 가 NVR

NVR 선택
×

- NVR NVR 1 ▼

다음

취소

3) NVR 가 + 가 NVR







		<p>• 이벤트 발생 <input type="text" value="3"/> 초 전부터 녹화</p> <p>• 이벤트 발생 <input type="text" value="3"/> 초 후까지 녹화</p> <p>• 이벤트 발생 <input type="text" value="3"/> 초 <input type="button" value="전"/> 촬영</p> <p><input checked="" type="checkbox"/></p> <p>■ / BioStar</p> <p>2</p>
7		<p>+ 가</p> <p><input checked="" type="checkbox"/></p> <p>■ 1 1</p> <p>■ 가</p> <p>■ &gt;</p> <p>■ 가</p>

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가

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2) 가

1	이름	<input type="text"/>
2	설명	<input type="text"/>
3	종류	<input checked="" type="radio"/> 정상 근무 <input type="radio"/> 연장 근무 <input type="radio"/> 부재
4	시간당 가중치	<input type="range"/> 1
5	색	<input type="color"/>

1		
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3		<ul style="list-style-type: none"> <li>▪ : .</li> <li>▪ : .</li> <li>▪ : , , , 가 .</li> </ul> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>▪ 가 .</li> <li>▪ 가 .</li> </ul>
4	가	가 .1 가 ,2 2 .
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- 2) 가 .

1 — 이름

2 — 설명

3 — 종류  고정 근무  유연 근무  유동 근무

4 — 하루 시작 시간  :   전/후일 초과 허용 시간

5 —  처음 인증 출근 & 마지막 인증 퇴근  
 시간 슬롯

금일

익일

시간 규칙	시작 시간	종료 시간	최소 근무 시간	동작
Attendance Man... ▼	<input type="text" value="09"/> : <input type="text" value="00"/>	<input type="text" value="18"/> : <input type="text" value="00"/>	<input type="text" value="04"/> : <input type="text" value="00"/>	

허용 시간  사용

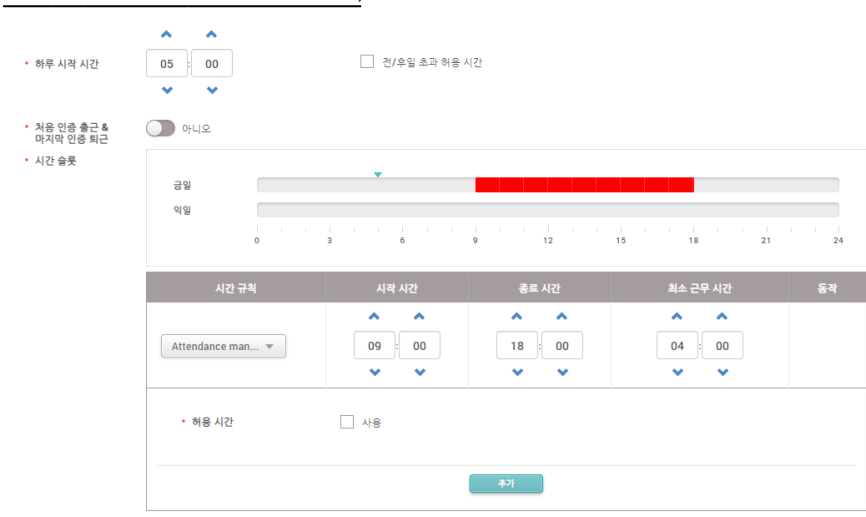
6

7 — 시간 반올림  출근  퇴근

8 — 식사 공제 1   
 식사 공제 2  사용

9 — 휴식 시간

1		
2		
3	<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>■ :</li> </ul>	, 가
4	/	24

		<p>☑</p> <p>▪ /</p>										
5	&	<p>,가 가 가</p> <p>☑</p> <p>▪ &amp;</p>										
6		 <p>하루 시작 시간 05 : 00 <input type="checkbox"/> 전/후일 초과 허용 시간</p> <p>처음 인증 출근 &amp; 마지막 인증 퇴근 <input type="checkbox"/> 아니오</p> <p>시간 슬롯</p> <table border="1"> <thead> <tr> <th>시간 규칙</th> <th>시작 시간</th> <th>종료 시간</th> <th>최소 근무 시간</th> <th>등급</th> </tr> </thead> <tbody> <tr> <td>Attendance man...</td> <td>09 : 00</td> <td>18 : 00</td> <td>04 : 00</td> <td></td> </tr> </tbody> </table> <p>사용 시간 <input type="checkbox"/> 사용</p> <p>추가</p> <p>시간 반올림 <input type="checkbox"/> 출근 <input type="checkbox"/> 퇴근</p> <p>식사 공제 1 시간 기록</p> <p>식사 공제 2 <input type="checkbox"/> 사용</p> <p>휴식 시간 없음</p> <p>가</p> <p>가</p> <p>☑</p> <p>▪ / 6</p> <p>▪ 가</p>	시간 규칙	시작 시간	종료 시간	최소 근무 시간	등급	Attendance man...	09 : 00	18 : 00	04 : 00	
시간 규칙	시작 시간	종료 시간	최소 근무 시간	등급								
Attendance man...	09 : 00	18 : 00	04 : 00									





• 하루 근무 시간

08 : 00

• 옵션

• 시간 규칙 Attendance man... ▾

• 출근 시간 등록 제한  사용      • 퇴근 시간 등록 제한  사용

• 식사 공계 1 시간 기록 ▾

• 식사 공계 2  사용

• 시간 반올림  출근  
 퇴근

• 휴식 시간 없음 ▾

가



가



		<p>• 근무조</p> <div> <p><input checked="" type="checkbox"/> 부재 적용 기준</p> <p>• 시간 슬롯</p> <table border="1"> <thead> <tr> <th>시간 규칙</th> <th>시작 시간</th> <th>종료 시간</th> <th>최소 근무 시간</th> <th>등록</th> </tr> </thead> <tbody> <tr> <td>Attendance man...</td> <td>09 : 00</td> <td>18 : 00</td> <td>04 : 00</td> <td></td> </tr> </tbody> </table> <p>• 출근 시간 인정 범위</p> <p>05 : 00 ~ 09 : 00</p> <p>• 허용 시간 <input type="checkbox"/> 사용</p> <p>• 시간 반영됨 <input type="checkbox"/> 출근 <input type="checkbox"/> 퇴근</p> <p>• 식사 공제 1 <input type="button" value="시간 기록"/></p> <p>• 식사 공제 2 <input type="checkbox"/> 사용</p> <p>• 휴식 시간 <input type="button" value="없음"/></p> <p><input type="button" value="추가"/></p> </div>	시간 규칙	시작 시간	종료 시간	최소 근무 시간	등록	Attendance man...	09 : 00	18 : 00	04 : 00	
시간 규칙	시작 시간	종료 시간	최소 근무 시간	등록								
Attendance man...	09 : 00	18 : 00	04 : 00									
7		<p>가</p> <p>5</p> <p>10 7</p> <p>8 5 8 8 8</p> <p>8 10</p> <p>가</p>										

[Redacted Header]		
		<ul style="list-style-type: none"> <li>가</li> <li><input checked="" type="checkbox"/></li> </ul>
8	2, 1,	<ul style="list-style-type: none"> <li>가</li> <li>가</li> <li>가</li> <li><input checked="" type="checkbox"/></li> <li>2</li> <li>1</li> <li>2</li> </ul>
9		<ul style="list-style-type: none"> <li>가</li> <li>가</li> </ul>

3) 가 가 가

- 1) > >
- 2) 가

1 — [ • 이름

2 — [ • 설명

3 — [ • 종류  주별  일별

4 — [ • 주말 요일 설정  월  화  수  목  금  토  일

\*1일 혹은 연속되는 2일을 선택해 주세요

일일 근무 규칙	종류	시간	하루 시간
Floating Shift	평일 상 하	09:00~18:00	05:00
Shift(Fixed)	평일 상 하	09:00~18:00	05:00
Shift(Flexible)	평일 상 하	8hr 0min	05:00

6 —

월  0 3 6 9 12 15 18 21 24

화  0 3 6 9 12 15 18 21 24

수  0 3 6 9 12 15 18 21 24

목  0 3 6 9 12 15 18 21 24

금  0 3 6 9 12 15 18 21 24

토  0 3 6 9 12 15 18 21 24

일  0 3 6 9 12 15 18 21 24

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1 [ · 이름

2 [ · 설명

3 [ · 연장 근무

- 사용 안함
- 일반 연장 근무
- 주말 연장 근무
- 특별 연장 근무

주말 연장 근무

시간 규칙

하루 시작 시간  :   처음 인증 출근 & 마지막 인증 퇴근

휴일 연장 근무

시간 규칙

하루 시작 시간  :   처음 인증 출근 & 마지막 인증 퇴근

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3		<p>가</p> <p>8 5 5</p> <p>11 Overtime management (1.5)' , 11</p> <p>2 Overtime manag...'</p> <p>9 2</p>
		<ul style="list-style-type: none"> <li><input type="radio"/> 사용 안함</li> <li><input checked="" type="radio"/> 일반 연장 근무</li> </ul> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><input type="text" value="8"/> 시간 <input type="text" value="0"/> 분 이후 <input type="button" value="Overtime manag..."/> 적용</p> <p><b>[ Overtime management (1.5) ]</b>의 <input type="text" value="6"/> 시간 <input type="text" value="0"/> 분 이후 <input type="button" value="Overtime manag..."/> 적용</p> <p>최대 연장 근무 <input type="text" value="9"/> 시간</p> </div> <ul style="list-style-type: none"> <li><input type="radio"/> 주말 연장 근무</li> <li><input type="radio"/> 특별 연장 근무</li> </ul>

		<p><input checked="" type="checkbox"/></p> <p>■</p> <p>,</p> <p><b>&amp;</b></p> <p><input type="checkbox"/> 주말 연장 근무</p> <div style="border: 1px solid #ccc; padding: 5px;"><p>시간 규칙 <span>없음 ▾</span></p><p>하루 시작 시간 <span>05</span> : <span>00</span> <input type="checkbox"/> 처음 인증 출근 &amp; 마지막 인증 퇴근</p></div> <p><input type="checkbox"/> 휴일 연장 근무</p> <div style="border: 1px solid #ccc; padding: 5px;"><p>시간 규칙 <span>없음 ▾</span></p><p>하루 시작 시간 <span>05</span> : <span>00</span> <input type="checkbox"/> 처음 인증 출근 &amp; 마지막 인증 퇴근</p></div>
--	--	--

3)

가 가  
가 가



■

가 가

가

- 1) >
- 2) 가

The screenshot displays a user management interface with the following components:

- Filters:**
  - 1. 이름 (Name): Search input field.
  - 2. 설명 (Description): Search input field.
  - 3. 기타 근무 규칙 (Other Work Rules): Dropdown menu (값 없음).
  - 4. 주간 근무 규칙 (Weekly Work Rules): Dropdown menu (값 없음).
  - 5. 기간 (Period): Date range from 2017-03-11 to 2017-03-11.
  - 6. 휴일 (Holiday): Dropdown menu (값 없음).
- User Groups:**
  - 7. 사용자 (Users): A list of users, currently showing 'All Users' with a count of 2.
- User Selection:**
  - 그룹의 사용자(2) (Group Users): A list of users with checkboxes. 'Administrator (1)' and 'kyle (99)' are selected.
  - 추가된 사용자(0) (Added Users): A list of newly added users, currently empty.

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5		<ul style="list-style-type: none"><li>가</li></ul>
6		<ul style="list-style-type: none"><li>가</li><li>가</li><li>가</li></ul>
7		<ul style="list-style-type: none"><li>가</li></ul>

3)

4)



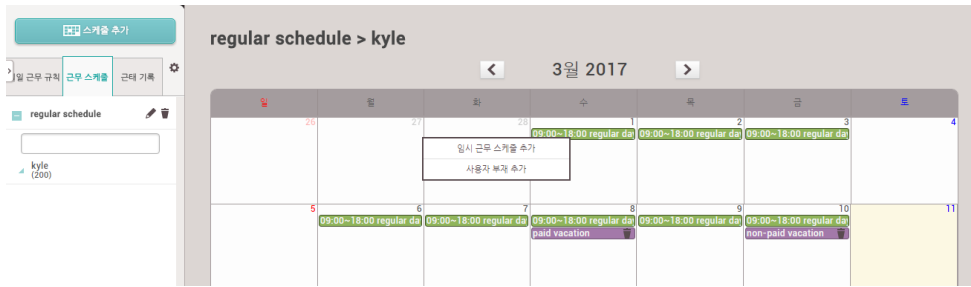
- 

가

-

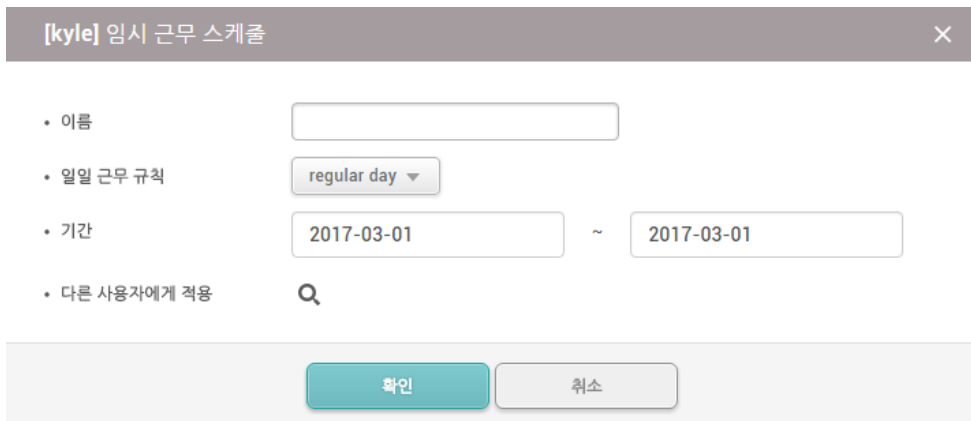
가

1)



2)

가



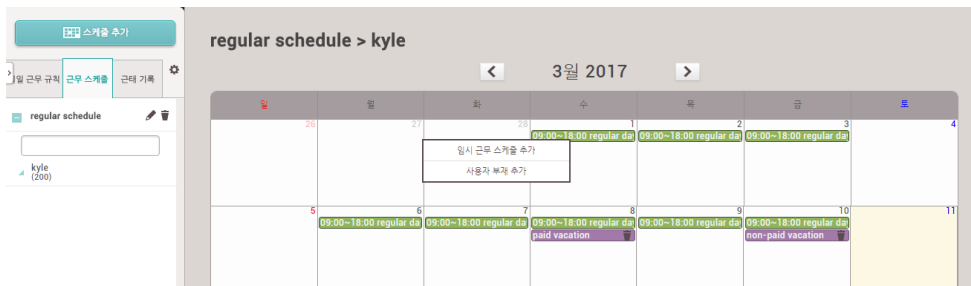
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1)



2)

가



가

사용자 부재 편집 ×

(55)

날짜	2018-10-11(목)	
부재	Leave management (Worked) ▾	
시간 사용여부	<input type="checkbox"/>	
시작 날짜	<input type="text" value="2018-10-11"/>	종료 날짜 <input type="text" value="2018-10-11"/>
다른 사용자에게 적용	<input type="text" value=""/>	
승인자 의견	<input type="text"/>	

3)

가

4)



가

CSV

PDF

7

가

BioStar 2

1. [C:\Program Files\BioStar 2(x64)\ta\dist\setup\report\_fonts]

2. ISO 639-1

'es"

3.

**PDF**

1. Google Chrome PDF

<https://chrome.google.com/webstore/detail/pdf-viewer/oemmndcbldboiebfnladdacbfdmadadm>

—

BioStar 2 MariaDB .MS SQL

BioStar 2 MS SQL , 가  
PC .MS SQL

1. Microsoft SQL Server Management Studio

2. BioStar 2

3.

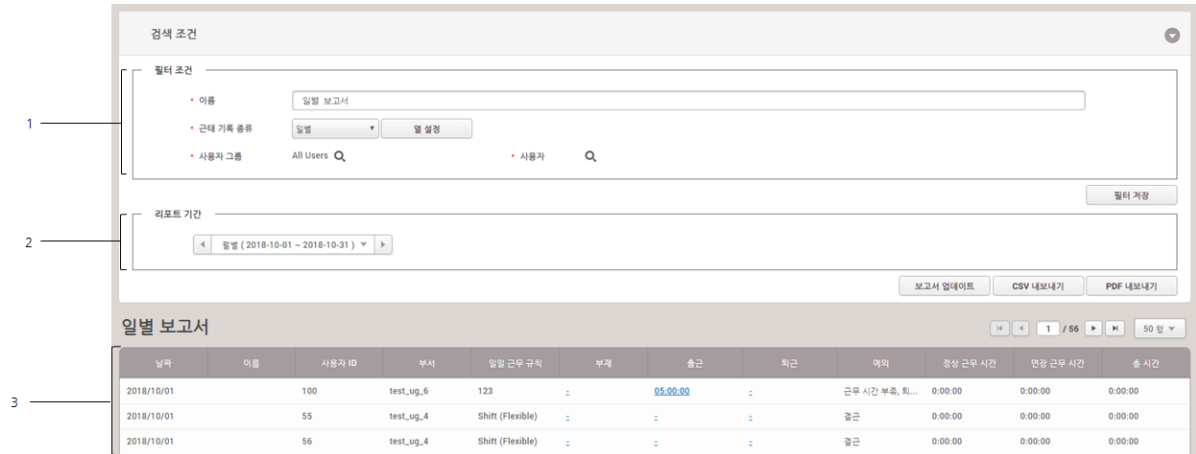


- MariaDB MS SQL Server BioStar 2

1) >

2)

2) 가



1		<ul style="list-style-type: none"> <li>■ : .</li> <li>■ : .</li> <li>■ / : .</li> <li>■ : .</li> <li>■ / : .</li> <li>■ : .</li> </ul>
2		<ul style="list-style-type: none"> <li>■ : .</li> <li>■ : .</li> <li>■ : .</li> <li>■ <input checked="" type="checkbox"/> : .</li> <li>■ : .</li> <li>■ CSV : CSV</li> <li>■ PDF : PDF</li> </ul>
3		

- 1) > >
- 2)
- 3)

**검색 조건**

---

**필터 조건**

- 이름
- 근태 기록 종류  열 설정
- 경고 근무 시간
- 사용자 그룹  사용자


**리포트 기간**

- 기간

**이메일 자동 발송**

- 이메일
- 요일
- 시간
- 받는 사람  편집

1		<ul style="list-style-type: none"> <li>■ : :</li> <li>■ : :</li> <li>■ : :</li> <li>■ / :</li> <li>■ : :</li> </ul>

2		<ul style="list-style-type: none"> <li>▪ : .</li> <li>▪ : .</li> <li>▪ CSV : CSV</li> <li>▪ PDF : PDF</li> </ul>
3		<ul style="list-style-type: none"> <li>▪ : .</li> <li>▪ : .</li> <li>▪ : .</li> <li>▪ : .</li> </ul> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>▪</li> <li>▪ </li> </ul>






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- 1)
- 2)

가



1		.
2		   / 가 / / . / 가 . 가 가 . 가
3		.
4		.






5		

CSV

- 1)
- 2)



1		가 가 +
2		

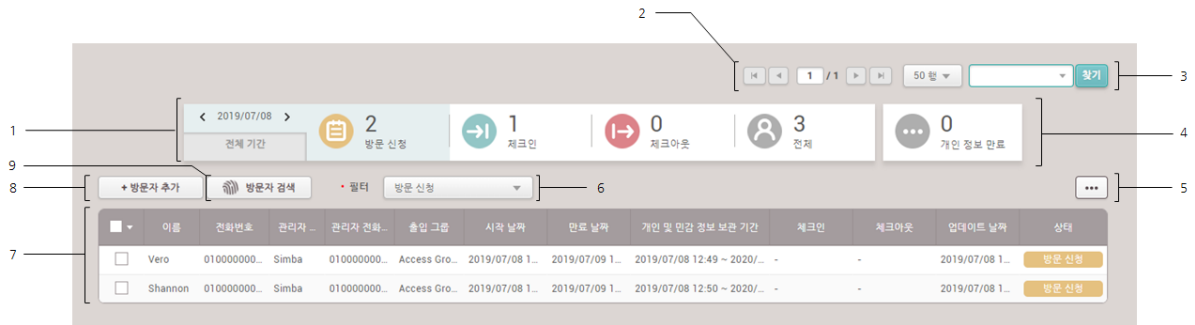
		
3		
4	CSV	
5		



PC

PC





1	6
2	7
3	8 가
4	9
5	

가



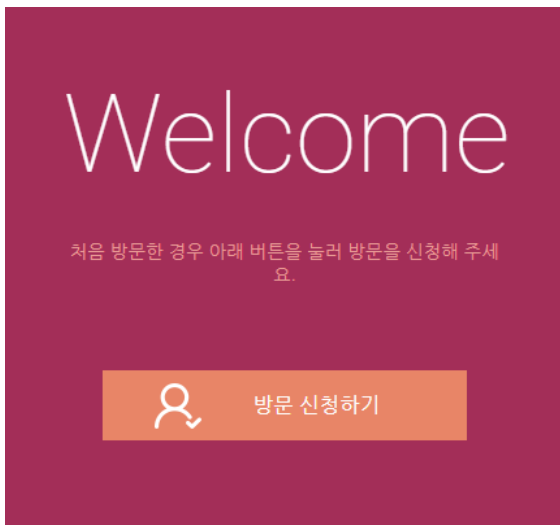
■

가 PC , PC 가 PC



가 PC , PC 가 PC

1) PC



이미 방문한 적이 있다면 아래의 정보를 입력해 주세요.

이름

전화번호

Or

검색하기

검색하기

- 2)
- 3)
- 4)

방문 신청 정보

1 방문자

- 이름
- 전화번호

2 관리자

- 이름
- 전화번호

3 출입 정보

- 구역
- 기간  ~

1		

		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul> <p><input checked="" type="checkbox"/></p> <p>■ 가 가</p> <p>■ 48</p>
2		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul> <p><input checked="" type="checkbox"/></p> <p>■ 48</p>
3		<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul> <p><input checked="" type="checkbox"/></p> <p>■ PC</p>

5)

6)

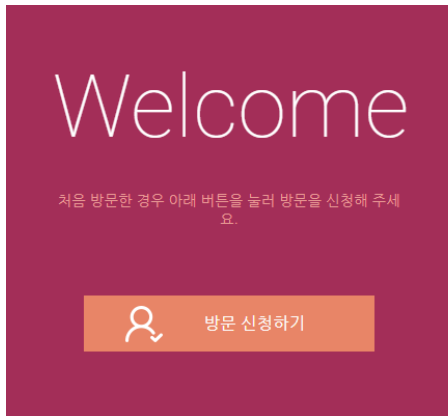


1		+
2		

7)

8)

1) PC



이미 방문한 적이 있다면 아래의 정보를 입력해 주세요.

이름

전화번호

Or

검색하기

검색하기

2)

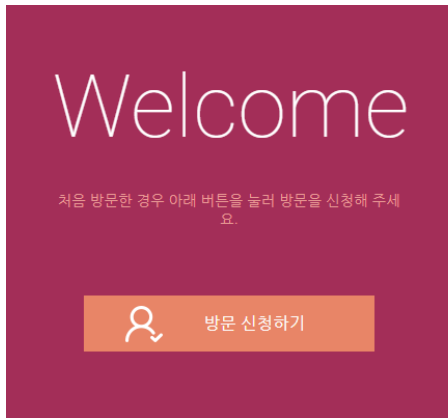
3)

4)

5)

6)

1) PC



이미 방문한 적이 있다면 아래의 정보를 입력해 주세요.

이름

전화번호

Or

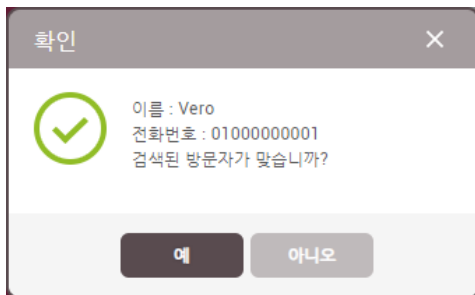
검색하기

검색하기

2)

3)

4) 가



5)

6)

7)

8)



가



■

가

- 1)
- 2)
- 3)

**방문자**

이름:

전화번호:

**관리자**

이름:

전화번호:

이름	전화번호	선택
simba	01000000002	<input type="button" value="선택"/>

**출입 정보**

출입 그룹:

기간:  ~

**크리덴셜**

카드:  신청 안 함

크리덴셜:



4)

**방문 신청 정보**

개인 정보 처리 방침

약관 동의  동의 함

**방문자 정보**

이름: vero      전화번호: 01000000004

**출입 정보**

출입 그룹: Access Group 01

기간:  ~

**관리자**

이름: Simba      전화번호: 01000000002

**출입수단**

지문      카드      신청



PC 가

카드 등록

• 등록 방법 리더로 등록

정보

• 식별 코드  카드 읽기

• 카드 ID 1

등록 취소

a)

—

PC

1)

2)

1)

2)

ID 1

b)

가

가

1)

2) +

가

**방문자**

- 이름
- 전화번호

**관리자**

- 이름
- 전화번호

이름	전화번호	선택
찾을 수 없음		

**출입 정보**

- 출입 그룹
- 기간   -

**크리덴셜**

- 카드  신용 안 함
- 크리덴셜

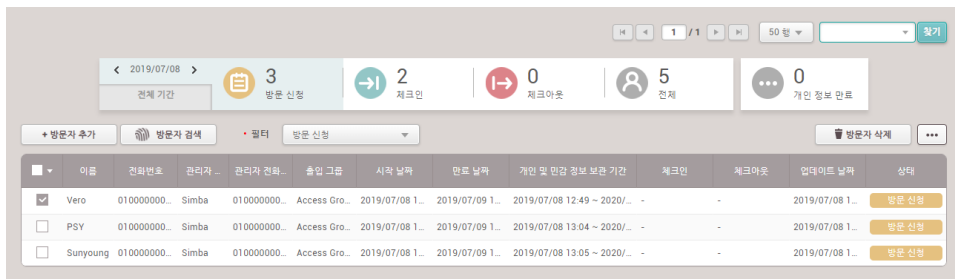
1	<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>☑</li> <li>■</li> </ul>	<p>가 가</p> <p>48</p>
2	<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>☑</li> <li>■</li> <li>■</li> </ul>	<p>48</p> <p>가</p>

3	
4	

3) 가

1)

2)



3)



■ □ ( )

■

- 1)
- 2)
- 3)

←
Jacey

**방문자**

- 이름
- 전화번호

**관리자**

- 이름
- 전화번호

이름	전화번호	선택
Simba	01000000000	<input type="button" value="선택"/>

**출입 정보**

- 출입 그룹
- 기간   ~

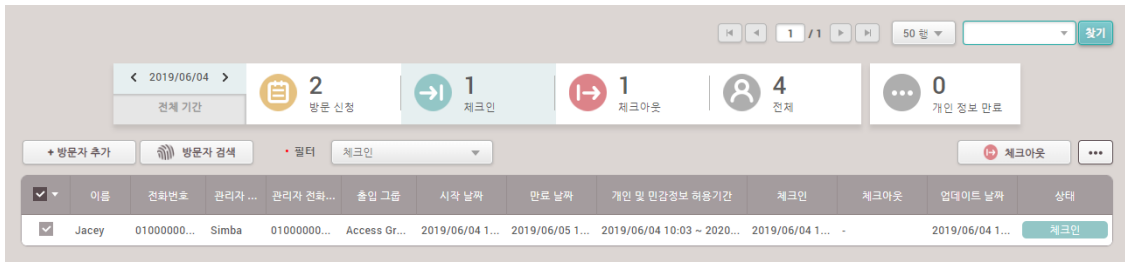
**크리덴셜**

- 크리덴셜



- 
- 

□ (      )



- 1)
- 2)
- 3)

**방문자**

- 이름
- 전화번호

**관리자**

- 이름
- 전화번호

이름	전화번호	선택
Simba	01000000000	선택

**출입 정보**

- 출입 그룹
- 기간  ~

**크리덴셜**

- 카드  신청 안함
- 크리덴셜

종류	카드 데이터 형식	요약	
지문	-	1	✎ 🗑

- 4)

가 .

가

가

1)

2)

The screenshot shows a dashboard for visitor management. At the top, there are navigation controls and a search bar. Below that, a summary bar displays statistics: 3 방문 신청 (Visit Applications), 2 체크인 (Check-in), 0 체크아웃 (Check-out), 5 전체 (Total), and 0 개인 정보 완료 (Personal Info Complete). A filter dropdown is set to '모든 방문자' (All Visitors). The main table lists the following data:

이름	전화번호	관리자	관리자 전화	출입 그룹	시작 날짜	만료 날짜	개인 및 민감 정보 보관 기간	체크인	체크아웃	업데이트 날짜	상태
Vero	010000000...	Simba	010000000...	Access Gro...	2019/07/08 1...	2019/07/09 1...	2019/07/08 12:49 ~ 2020/...	-	-	2019/07/08 1...	방문 신청
Jacey	010000000...	Simba	010000000...	Access Gro...	2019/07/08 1...	2019/07/09 1...	2019/07/08 12:49 ~ 2020/...	2019/07/08 1...	-	2019/07/08 1...	체크인
Shannon	010000000...	Simba	010000000...	Access Gro...	2019/07/08 1...	2019/07/09 1...	2019/07/08 12:50 ~ 2020/...	2019/07/08 1...	-	2019/07/08 1...	체크인
PSY	010000000...	Simba	010000000...	Access Gro...	2019/07/08 1...	2019/07/09 1...	2019/07/08 13:04 ~ 2020/...	-	-	2019/07/08 1...	방문 신청
Sunyoung	010000000...	Simba	010000000...	Access Gro...	2019/07/08 1...	2019/07/09 1...	2019/07/08 13:05 ~ 2020/...	-	-	2019/07/08 1...	방문 신청



가



가



- 1)
- 2)

이름	전화번호	관리자	관리자 전화	출입 그룹	시작 날짜	만료 날짜	개인 및 민감정보 허용기간	체크인	체크아웃	업데이트 날짜	상태
<input checked="" type="checkbox"/> Sunyoung	01000000...	Simba	01000000...	Access Gr...	2019/06/03 1...	2019/06/04 1...	2019/06/03 15:52 ~ 2019...	-	-	2019/06/03 1...	기간만료
<input type="checkbox"/> PSY	01000001...	Simba	01000000...	Access Gr...	2019/06/03 1...	2019/06/04 1...	2019/06/03 15:52 ~ 2019...	-	-	2019/06/03 1...	기간만료
<input type="checkbox"/> sypark	01000002...	Simba	01000000...	Access Gr...	2019/06/03 1...	2019/06/04 1...	2019/06/03 15:53 ~ 2019...	-	-	2019/06/03 1...	기간만료
<input type="checkbox"/> Jacey	01000000...	Simba	01000000...	Access Gr...	2019/06/03 1...	2019/06/04 1...	2019/06/03 16:12 ~ 2019...	-	-	2019/06/03 1...	기간만료
<input type="checkbox"/> Vero	01000000...	Simba	01000000...	Access Gr...	2019/06/03 1...	2019/06/04 1...	2019/06/03 10:38 ~ 2019...	2019/06/03 1...	2019/06/03 1...	2019/06/03 1...	체크아웃
<input type="checkbox"/> vero	01000000...	Simba	01000000...	Access Gr...	2019/06/03 1...	2019/06/04 1...	2019/06/03 17:03 ~ 2019...	2019/06/03 1...	-	2019/06/03 1...	기간만료



&

- 3) □ (      )
- 4)

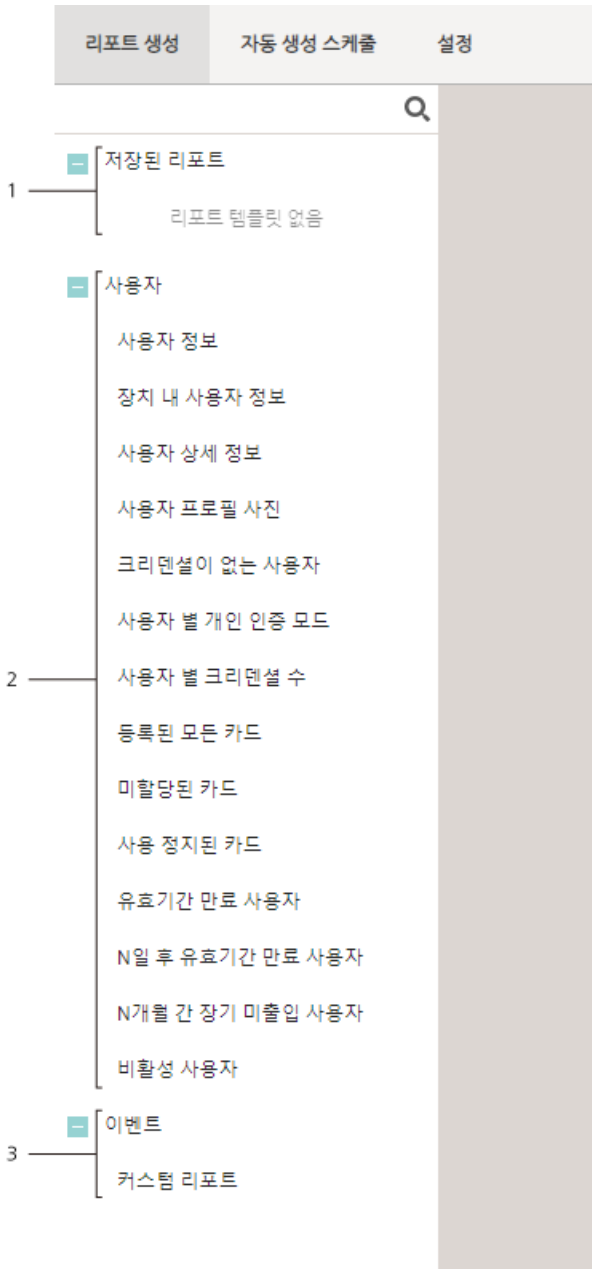
BioStar 2

가

CSV, PDF



BioStar 2



1		.
2		.
3		▪ : , , ( , , )

- 1) 가
- 2)

← 자동 생성 스케줄 추가

정보

- 스케줄 이름

리포트 및 스케줄

- 리포트 없음 ⓘ
- 생성 주기 없음      • 생성 시간 00 : 00

리포트 형식

- 자동 생성 방식 없음
- 리포트 이름
- 모든 페이지에 제목 표시
- 헤더  헤더 표시       모든 페이지에
- 바닥글  페이지 번호
- 파일 포맷 없음

적용
취소

1		<ul style="list-style-type: none"> <li>■ : </li> </ul>
2		<ul style="list-style-type: none"> <li>■ : </li> <li>■ : </li> <li>■ : </li> </ul>
3		<ul style="list-style-type: none"> <li>■ : </li> </ul>



’ ’ ’ ’ ’ ’

BioStar

HTTPS

USB Agent

## BioStar 2

1) >

2) 가

- :
- :
- :
- :
- :
- :
- :
- :
- :

가

가

3) + 가



- 1 [ • 이름
- 2 [ • 설명
- 3 [ • 아이템 상세 권한

• 메뉴 별 권한

4

5 [ • 권한 부여

사용자 그룹	장치 그룹	출입문 그룹	엘리베이터 그룹	출입 그룹	구역 타입	그래픽 맵 그룹
모든 사용자 ▼	모든 장치 ▼	모든 출입문 ▼	모든 엘리베... ▼	모든 출입그룹 ▼	모든 구역 ▼	모든 그래픽 맵 ▼

메뉴 항목	추가 버튼	수정	보기
1	대시보드	허용 없음	<input type="checkbox"/>
2	사용자	활성화	<input checked="" type="checkbox"/>
3	장치	활성화	<input checked="" type="checkbox"/>
4	출입문	활성화	<input checked="" type="checkbox"/>
5	엘리베이터	활성화	<input checked="" type="checkbox"/>
6	구역	활성화	<input checked="" type="checkbox"/>
7	출입통계	활성화	<input checked="" type="checkbox"/>
8	모니터링	활성화	<input checked="" type="checkbox"/>
9	근원 관리	활성화	<input checked="" type="checkbox"/>
10	설정	허용 없음	<input checked="" type="checkbox"/>

이름	+ 추가
1 (Administrator)	

1		
2		

# 17 BioStar 2

3		.
4		.
5		. 가 + 가
	■ 	가 .

4)



- 가/ 가 가 .
- 가 가 가
- 가 가

가

가

가 가 .



- .

1) > .

2) 가 .

3) .

# 17 BioStar 2

1 — [ • 이름

2 — [ • 설명

3 — [ • 아이템 상세 권한

4 — [ • 메뉴 별 권한

5 — [ • 권한 부여

사용자 그룹	장치 그룹	출입문 그룹	엘리베이터 그룹	출입 그룹	구역 타입	그래픽 맵 그룹
모든 사용자 ▼	모든 장치 ▼	모든 출입문 ▼	모든 엘리베... ▼	모든 출입그룹 ▼	모든 구역 ▼	모든 그래픽 맵 ▼
	메뉴 항목	추가 버튼	수정	보기		
1	대시보드	허당 없음		<input type="checkbox"/>	<input type="checkbox"/>	
2	사용자	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
3	장치	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
4	출입문	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
5	엘리베이터	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
6	구역	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
7	출입통제	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
8	모니터링	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
9	근태 관리	비활성화		<input type="checkbox"/>	<input type="checkbox"/>	
10	설정	허당 없음		<input type="checkbox"/>	<input type="checkbox"/>	

이름  + 추가

1		
2		
3		가 . 가
4	<ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li><input checked="" type="checkbox"/></li> <li>■</li> </ul>	<p>가, , .</p> <p>가</p> <p>가</p>





# 17 BioStar 2

- 가
- 가

BioStar 2 , , / ,

1) >

2)

The screenshot shows the BioStar 2 settings interface with three numbered callouts:

- 1**: Points to the '언어/표준 시간대' (Language/Timezone) section, which includes dropdown menus for '언어' (Language) set to '한국어', '표준 시간대' (Standard Timezone) set to '(UTC+9:00) 서울특별시, 도쿄, 오사카, 삿포르, ...', and '일광 절약 시간' (Daylight Saving Time).
- 2**: Points to the '날짜/시간' (Date/Time) section, which includes dropdown menus for '날짜 형식' (Date Format) set to 'yyyy/mm/dd' and '시간 형식' (Time Format) set to 'hh:mm'.
- 3**: Points to the '소리' (Sound) section, which includes a '경보' (Alarm) section with a table header: '사운드 이름', '파일 크기', '파일 포맷', '재생', and '+ 추가'. Below the header, the text '찾을 수 없음' (Not found) is displayed.

1	/	<p>BioStar 2</p> <ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> <li>■ : BioStar 2</li> </ul>
2	/	<p>BioStar 2</p> <ul style="list-style-type: none"> <li>■ :</li> <li>■ :</li> </ul>

# 17 BioStar 2

BioStar 2

a) + 가

사운드 추가 ×

- 사운드 이름
- 파일 크기 0 KB
- 파일 포맷
- 사운드 이름

• 사운드 파일은 .wav 또는 .mp3 형식이어야 하며 최대 크기는 10MB 입니다.

b)

c) wav mp3

d) 가

- wav mp3
- 10MB

3

3)

1) >

# 17 BioStar 2

카드 종류	카드 ID	상태	사용자 ID	사용자 이름
CSN	1225051669057584	활당 카드	2	User 1
CSN	4276710323	미활당 카드	-	-
CSN	989777499	미활당 카드	-	-
CSN	1217252008448048	미활당 카드	-	-
CSN	1234938686282624	미활당 카드	-	-
CSN	308871143	미활당 카드	-	-

2)



■

가

Wiegand

Wiegand



■

1)

>

2)



**Wiegand**

3)

모든 Wiegand 형식 변경
✕

카드 데이터 형식을 한 번에 변경합니다. BioStar 2에서 이미 사용 중인 카드 데이터 형식도 변경되므로 주의하십시오.

- 현재 형식 없음 ▼
- 변경 형식 없음 ▼

확인
취소

4)

# 17 BioStar 2

Wiegand / , .

- 1) > .
- 2) **Wiegand**, / .

Wiegand

Wiegand 가 .



- Wiegand 15 .

- 1) > .
- 2) **Wiegand** .
- 3) .

**정보**

1) [ · 이름 ]

2) [ · 설명 ]

3) [ · 총 비트 ]

4) [ · 식별 코드 필드 ]

시작 비트	종료 비트	크기	
ID 0	<input type="text"/>	<input type="text"/>	0

**+추가**

위치	종류	시작 비트	종료 비트	크기	
<input type="text"/>	홀수	<input type="text"/>	<input type="text"/>	0	

**+추가**

1		Wiegand .
2		

# 17 BioStar 2

3		
4		) <input type="checkbox"/>
5	ID	ID + 가 ID 가
6		+ 가 가 <input checked="" type="checkbox"/> ▪ 가

4) Wiegand



▪

/

MIFARE, iCLASS, DESFire, iCLASS Seos,



▪

>

1) >

2) 가

# 17 BioStar 2

**새 스마트 카드 추가**

**스마트 카드 유형**

- 스마트 카드 유형:  스마트 카드 유형  슈프리마 스마트 카드

**경보**

- 이름:
- 보조 사이트 키:   비활성

**레이아웃**

- 템플릿 수:
- 템플릿 크기:
- 얼굴 템플릿 사용:
- 얼굴 템플릿 크기:

**카드 설정 (MIFARE 섹션):**

- 기본 사이트 키:  새로운 기본 사이트 키  새 기본 사이트 키 확인
- 보조 사이트 키:  새로운 보조 사이트 키  새 보조 사이트 키 확인
- 시작 블록 인덱스:


**참고:** 2.5v 포함 이전에 입력한 키 값은 아래를 통해 16진수로 변경 후 적용하십시오. 키 변환 결과:  16진수로 변환

1		
2		
3		가
4	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> MIFARE, iCLASS, DESFire, iCLASS Seos,</li> <li><input type="checkbox"/> MIFARE, DESFire</li> <li><input checked="" type="checkbox"/> 16</li> <li><input type="checkbox"/> 16</li> </ul>	





# 17 BioStar 2

		<ul style="list-style-type: none"> <li>  <ul style="list-style-type: none"> <li>FaceStation F2, BioStation 3</li> </ul> </li> </ul>

3)

BioStar 2

1) >

**일반**

<ul style="list-style-type: none"> <li>• BioStar IP 주소 : <input type="text" value="자동"/></li> <li>• BioStar 포트 : <input type="text" value="51212"/></li> <li>• 세션 만료 시간 : <input type="text" value="60"/> 분</li> </ul>	<ul style="list-style-type: none"> <li>• 로그인 모드 : <input checked="" type="checkbox"/> 자동</li> <li>• 서버 프로토콜 : <input type="radio"/> HTTP <input checked="" type="radio"/> HTTPS</li> </ul>
--	--

	<p>BioStar 2</p> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>■ <b>BioStar IP</b> : IP . IP</li> <li>■ <b>BioStar</b> :</li> <li>■ :</li> <li>■ :</li> <li>■ :</li> <li>■ :</li> </ul> </li> </ul> <p style="text-align: center;">BioStar 2</p>


**사용자 및 장치 관리**

- 사용자 자동 동기화: 
  - 모바일 카드 발급:  비활성
- 지문 템플릿 형식: 
  - 사용자 ID 종류:
- 등록된 장치 설정
 

장치 ID	장치 이름	장치 그룹	IP 주소	<input type="button" value="+ 추가"/>
찾을 수 없음				
- 커스텀 사용자 필드
 

순서	이름	유형	데이터	<input type="button" value="+ 추가"/>
찾을 수 없음				
- AoC 발급 시 개인정보 및 크리덴셜 삭제:  비활성
- 출입용제 이벤트 로그 저장 기간:  비활성  일
- 얼굴 크리덴셜 미리보기 숨기기:  비활성

순서	이름	유형	데이터	비활성	삭제	추가
찾을 수 없음						

	(:)
▪ AoC	: AoC BioStar 2
▪	:
▪	:
	
▪	( )
▪	( )
-	
-	
-	
-	
-	/
▪	( )
▪ 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

	<p>,1.7.1</p> <ul style="list-style-type: none"><li>- BioStation L2: BSL2-OM 1.2</li><li>- BioEntry W2: BEW2-OAP, BEW2-ODP 1.1 , 1.5</li><li>- FaceStation 2: FS2-D, FS2-AWB 1.3.1</li><li>- BioLite N2: BLN2-ODB, BLN2-OAB, BLN2-PAB 1.2</li><li>- XPass D2: XPD2-MDB, XPD2-GDB, XPD2-GKDB 1.3</li><li>- FaceLite: FL-DB 1.1</li><li>- XPass 2: XP2-MDPB, XP2-GDPB, XP2-GKDPB 1.0</li></ul> <p>- BioEntry P2: BEP2-OD, BEP2-OA 1.0</p> <p>- BioEntry R2: BER2-OD 1.1.0</p> <ul style="list-style-type: none"><li>■ <b>BLE</b><ul style="list-style-type: none"><li>- OS: Android 5.0 Lollipop , Android 10 /iOS 9.0</li><li>- BioStar 2 Mobile 2.4.1</li><li>- FaceStation 2: FS2-AWB 1.3.1</li><li>- BioLite N2: BLN2-ODB, BLN2-OAB, BLN2-PAB 1.2</li><li>- XPass D2: XPD2-MDB, XPD2-GDB, XPD2-GKDB 1.3</li><li>- FaceLite: FL-DB 1.1</li><li>- XPass 2: XP2-MDPB, XP2-GDPB, XP2-GKDPB 1.0</li></ul></li></ul> <ul style="list-style-type: none"><li>■ <b>(Airfob Pass)</b></li></ul> <ul style="list-style-type: none"><li>■ <b>ID</b> BioStar 2</li><li>■ <b>ID</b><ul style="list-style-type: none"><li>- CoreStation 1.0.0</li><li>- FaceStaion 2 1.0.0</li><li>- FaceLite 1.0.0</li><li>- BioEntry W2 1.1.0</li></ul></li></ul>

# 17 BioStar 2

- BioStation L2	1.2.0		
- BioStation A2	1.3.0		
- BioStation 2	1.4.0		
- BioLite N2	1.0.0		
- BioEntry P2	1.0.0		
- BioEntry R2	1.0.0		
- XPass 2	1.0.0		
- XPass D2	1.0.0		
- XPass	2.4.0		
- X-Station 2	1.0.0		
- BioStation 3	1.0.0		

- 가 가
- 가 0  
4294962795

• 숫자 입력 상자 예제

- 가 32 /

• 문자 입력 상자 예제

- 가 가 가

1; 2; 3; 4

• 선택 상자 예제

선택 1 ▲

선택 1

선택 2

선택 3

선택 4

**서버 매칭**

• 서버 매칭 사용  비활성

• 최대 동시 서버 매칭 수  / 8

지문

• Fast 모드  활성화

• 보안 레벨  1/1,000,000

얼굴

• 보안 레벨  보통

BioStar 2

- Fast
- (FRR) 가
- PC CPU

시스템 로그 단계 설정

• 시스템 로그 저장 기간  일 0: 시스템 로그 삭제 안함

• 시스템 로그 단계

시스템	경보
디버그	사용 안함
네트워크	경보
웹	경보
SQL	사용 안함
웹소켓	사용 안함

120,0

# 17 BioStar 2

2)



HTTPS

가

가

가

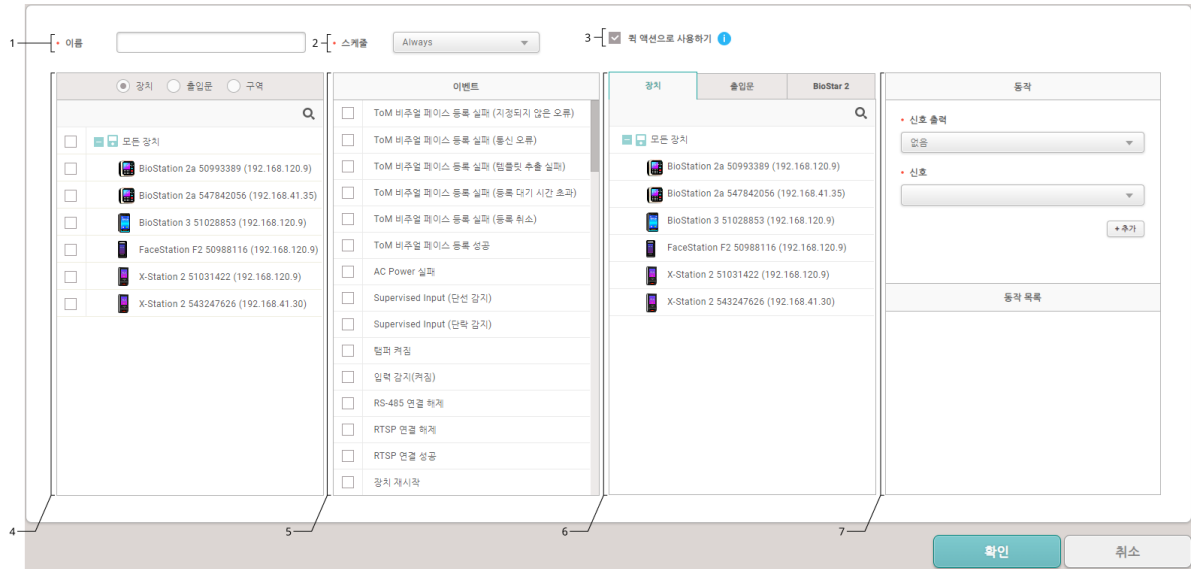
BioStar 2가

1)

>





2)

가



1		
2		

# 17 BioStar 2

		 <ul style="list-style-type: none"> <li>가</li> </ul>
3		BioStar 2
4		BioStar 2  <ul style="list-style-type: none"> <li></li> </ul>
5		 <ul style="list-style-type: none"> <li></li> </ul>
6	BioStar 2	BioStar 2
7		가 BioStar 2  <ul style="list-style-type: none"> <li>BioStar 2</li> <li>가 + 가</li> <li>가</li> </ul>

3)



-



가 .

## 가

- 1) > .
- 2) 가 .
- 3) .

1 [ 이름

2 [ 설명

3 [ 종류  주별  일별

4

5 [ 휴일 스케줄

6

7 [ 없음 ▼

1		
2		
3		
4		

# 17 BioStar 2

		<div style="border: 1px solid #ccc; padding: 10px;"> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc; display: flex; justify-content: space-between;"> <span>스케줄 입력</span> <span>✕</span> </div> <p>• 스케줄 <span style="margin-left: 20px;">Monday</span> <span style="margin-left: 20px;">지우기</span></p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>시간 슬롯 1 <input type="text"/> : <input type="text"/> ~ <input type="text"/> : <input type="text"/></p> <p>시간 슬롯 2 <input type="text"/> : <input type="text"/> ~ <input type="text"/> : <input type="text"/></p> <p>시간 슬롯 3 <input type="text"/> : <input type="text"/> ~ <input type="text"/> : <input type="text"/></p> <p>시간 슬롯 4 <input type="text"/> : <input type="text"/> ~ <input type="text"/> : <input type="text"/></p> <p>시간 슬롯 5 <input type="text"/> : <input type="text"/> ~ <input type="text"/> : <input type="text"/></p> </div> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <span style="background-color: #00a651; color: white; padding: 5px 15px; border-radius: 5px;">확인</span> <span style="background-color: #ccc; padding: 5px 15px; border-radius: 5px;">취소</span> </div> </div>
5		<div style="border: 1px solid #ccc; padding: 10px;"> <p>5</p> </div>
6		<div style="border: 1px solid #ccc; padding: 10px;"> <p>지우기</p> </div>
7		<div style="border: 1px solid #ccc; padding: 10px;"> <p>+ 가 가</p> <p>가</p> </div>

4)

+ 가

가 , 가 , 가 BioStar 2가

1) >

장치	출입문	일화상 및 마스크	인증
<input type="checkbox"/> 장치연결해제 감지	<input checked="" type="checkbox"/> 출입문 강제 열림	<input checked="" type="checkbox"/> 출입 거부 (기본 온도 초과)	<input type="checkbox"/> 1:1 인증 실패
<input type="checkbox"/> 장치 재시작	<input checked="" type="checkbox"/> 출입문 장시간 열림	<input checked="" type="checkbox"/> 출입 거부 (온도 측정 오류)	<input checked="" type="checkbox"/> 1:1 협박 지문 인증 성공
<input type="checkbox"/> RTSP 연결 성공	<input type="checkbox"/> 출입문 강제 열림 알림	<input checked="" type="checkbox"/> 출입 거부 (마스크 감지되지 않음)	<input type="checkbox"/> 1:N 인증 실패
<input type="checkbox"/> RTSP 연결 해제	<input type="checkbox"/> 출입문 장시간 열림 알림	<input type="checkbox"/> 출입 성공 (확인 전용 소프트웨어 온도 위반)	<input checked="" type="checkbox"/> 1:N 협박 지문 인증 성공
<input checked="" type="checkbox"/> RS-485 연결 해제		<input type="checkbox"/> 출입 성공 (확인 전용 소프트웨어 마스크 위반)	<input checked="" type="checkbox"/> 출입 거부 (잘못된 출입 그룹)
<input checked="" type="checkbox"/> 탐지 커징			<input checked="" type="checkbox"/> 출입 거부 (비활성 사용자)
<input type="checkbox"/> Supervised Input (단락 감지)		<b>구역</b>	<input checked="" type="checkbox"/> 출입 거부 (유료 기간 발취 박)
<input type="checkbox"/> Supervised Input (단선 감지)		<input checked="" type="checkbox"/> 인터페이스 구역 알림 감지	<input type="checkbox"/> 출입 거부 (블랙리스트)
<input checked="" type="checkbox"/> AC Power 실패	<b>엘리베이터</b>	<input checked="" type="checkbox"/> 화재 경보 구역 알림 감지	<input checked="" type="checkbox"/> 출입 거부 (하드 인터페이스)
<input type="checkbox"/> 배터리 건강 부족	<input checked="" type="checkbox"/> 모든 층의 릴레이 활성화	<input checked="" type="checkbox"/> 스케줄 잠금 구역 알림 감지	<input checked="" type="checkbox"/> 출입 거부 (스케줄 잠금)
<input type="checkbox"/> 배터리 건강 매우 부족		<input checked="" type="checkbox"/> 재실 인원 정원 도달 감지	<input checked="" type="checkbox"/> 출입 거부 (소프트 인터페이스)
<input checked="" type="checkbox"/> 배터리 건강 없음		<input type="checkbox"/> 재실 인원 제한 구역 입실 가능 상태 복구	<input checked="" type="checkbox"/> 위조 지문 검출
		<input type="checkbox"/> 풍실 중 회실 입력 감지	<input type="checkbox"/> 출입 거부 (인터랙티브)
		<input checked="" type="checkbox"/> 재실 인원 사전 경보 1 감지	
		<input checked="" type="checkbox"/> 재실 인원 사전 경보 2 감지	

2)

3) 

가

경보 메시지
✕

- 이름
- 메시지
- 사운드 파일  ▶
- 재생 옵션

4)

5)

# 17 BioStar 2

---

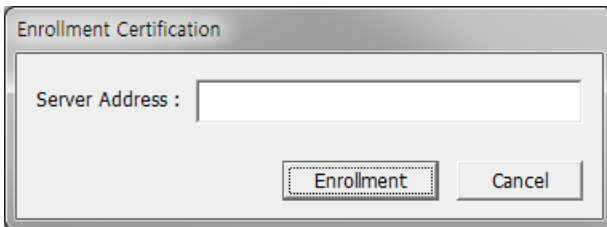
## HTTPS

BioStar 2 HTTPS BioStar 2가 IP BioStar 2



- BioStar 2.7.14 HTTPS

- 1) > HTTPS
- 2)
- 3) cert-register.exe Enrollment Certification



- 4) BioStar 2가 PC IP Enrollment
- 5)
- 6) IP 가

BioStar 2 BioStar 2



- 가

# 17 BioStar 2

- Internet Explorer Edge BioStar 2
- BioStar 2

- 1) >
- 2)

일반

1 ——— [ • 클라우드 사용여부  사용

2 ——— [ • 서버도메인 이름  .biostar2.com      • 관리자 이메일  ]————— 3

---

고급

4 ——— [ • 클라우드 서버 주소       • 클라우드용 서버 포트  ]————— 6

5 ——— [ • 버전  ]

1		BioStar 2
2		BioStar 2
3		
4		
5		
6		(52000)
	가	BioStar 2가 PC

## 17 BioStar 2

		<ul style="list-style-type: none"><li>가 : BioStar 2 ( : 80, ), BioStar 2 ( : 52000, )</li><li>가 : 4443, ngrok</li></ul>

3)



- 10
- BioStar 2 1

가

1) >

2)

# 17 BioStar 2

기본 설정

구성

이벤트	스케줄		
1:1 인증 성공	Always	▼	🗑️
1:1 인증 실패	Always	▼	🗑️
1:1 협박 지문 인증 성공	Always	▼	🗑️
1:N 인증 성공	Always	▼	🗑️
1:N 인증 실패	Always	▼	🗑️
1:N 협박 지문 인증 성공	Always	▼	🗑️
이중 인증 성공	Always	▼	🗑️
이중 인증 실패	Always	▼	🗑️
인증 실패	Always	▼	🗑️
출입 거부	Always	▼	🗑️
관리자 마뉴 진입	Always	▼	🗑️

삭제 옵션

삭제 옵션: 없음 ▼

저장 경로 설정

이미지 파일 경로: .\imagemlog\

사용자 프로필 이미지 옵션

이미지 로그 없는 경우 사용자 프로필 이미지 표시

1		+ 가 가 ☑️ ■ + 가
2		■ : ■ : ■ :
3		☑️ ■
4		' 가

# 17 BioStar 2

		가

3)



■

>

가 /

## USB Agent

PC

BioStar 2

USB

USB Device Agent



■

Windows

USB Agent

1)

> **USB AGENT**

2)

USB Device Agent

USB 연결 장치를 사용하려면 USB Device Agent를 먼저 설치해야 합니다. 다운로드 버튼을 클릭하여 USB Device Agent 다운로드 한 뒤 설치하십시오.

다운로드

3)

USB

USB 카드 장치 바이트 순서

바이트 순서는 CSN 카드에 대해서만 적용됩니다.

• 바이트 순서

MSB

4)

USB Agent가



# 17 BioStar 2

**USB Agent 포트**

USB Agent 클라이언트 배포 동작하는 프로그램으로, 포트 번호 설정은 서버가 해당 포트 번호로 통신하기 위한 용도입니다.

• USB Agent 포트 번호

5)

## BioStar 2



- 10
- 3000
- 5,000

1) >

2)

**일반**

1 — 그룹 매칭 사용 여부  사용

2 — 그룹 매칭 용 장치 설정

장치 ID	장치 이름	장치 그룹	IP 주소	
4	FaceStation 2 4 (192.168.16.193)	All Devices	192.168.16.193	

+ 추가

3 — 매칭 그룹 설정

순서	그룹 이름	사용자 그룹	얼굴 수	
1	<input type="text" value="15F"/>	<input type="text" value="15F USER"/>	2 / 3000	
2	<input type="text" value="16F"/>	<input type="text" value="16F USER"/>	2 / 3000	
3	<input type="text" value="17F"/>	<input type="text" value="17F USER"/>	2 / 3000	

+ 추가

1		<ul style="list-style-type: none"> <li>▪</li> </ul>

# 17 BioStar 2

2	가	.FaceStation 2
3	+ 가	<ul style="list-style-type: none"> <li>■ 10</li> <li>■</li> <li>■ 3,000</li> </ul>

3)

1)

1) >

2) [Sidebar Filter: 최근 1개월, 최근 3개월]

3) [Search Bar: 감사 추적]

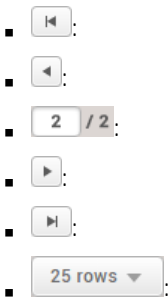
4) [Filter Fields: 날짜 및 시간, 사용자, 권한 등급, 접속 IP, 변경 항목, 변경 대상, 동작]

5) [Table of Audit Log Entries]

날짜 및 시간	사용자	권한 등급	접속 IP	변경 항목	변경 대상	동작	변경 내용
2017/08/21 17:10:02	Administrator(1)	Administrator(1)	192.168.14.34	출입문	Door 1	추가	
2017/08/21 17:09:07	Administrator(1)	Administrator(1)	192.168.14.34	기본설정		수정	
2017/08/21 17:08:56	Administrator(1)	Administrator(1)	192.168.14.34	시스템		종료	로그인
2017/08/16 15:44:40	Administrator(1)	Administrator(1)	192.168.14.34	기본설정		수정	
2017/08/16 15:44:30	Administrator(1)	Administrator(1)	192.168.14.34	시스템		종료	로그인
2017/08/11 09:53:32	Administrator(1)	Administrator(1)	192.168.14.34	구역	APB 1	추가	

1	1	3
2	가	가

# 17 BioStar 2

3		
4	(CSV , )	CSV
5		



- 
- 

( , )  
가

- 1) >
- 2)

# 17 BioStar 2

1 — [ • 비디오 파일 경로 D:\Program Files\BioStar 2(x64)\ve\records\

2 — [ • 비디오 저장 공간 설정 20 GByte

3 — [ • 저장 공간 관리  
저장 공간 부족 시,  가장 오래된 파일부터 덮어씁니다.  
 저장을 중단합니다.

4 — [ • 저장 공간 현황

**D:\ 전체 저장 공간 현황**

사용 못 하는 공간 138,03 14.8%

비디오 사용 가능 공간 2.1%

저장 가능 공간 773,481 83%

**D:\ 비디오 저장 공간 현황**

사용 가능 공간 100%

• 비디오 저장 공간 현황 20 GByte

• 전체 저장 공간 현황 931.511 GByte

• 비디오 사용 가능 공간 20 GByte

• 저장 가능 공간 793.481 GByte

• 비디오 사용 중인 공간 0 GByte

1		
2		
3		
4		

3)

(DST)

- 1) >
- 2) + 가
- 3) 가

# 17 BioStar 2

일괄 절약 시간 편집✕

- 이름
- 시작 날짜/시간  월  번째  요일
- 종료 날짜/시간  월  번째  요일

4)



1) >

2)

로그인 비밀번호

- 비밀번호 레벨
- 비밀번호 변경 주기  비활성
- 비밀번호 최대 실패 허용 횟수  비활성
- 비밀번호 일일 변경 허용 횟수  비활성



■ : 32

# 17 BioStar 2

	<ul style="list-style-type: none"> <li>8-32 ( )</li> <li>10-32 ( , )</li> </ul> <p>☑</p>
	<p>가</p> <p>☑</p> <p>1 180</p>
	<p>☑</p> <p>10</p>

**고급 보안 설정**

- 개인 정보 DB 암호화  사용
- 개인 정보 DB 암호화 키
- 정치와 보안 통신  사용
- 외부 인증서 사용  사용 안 함
- 정치 해시키 수동 관리  사용 안 함



2



■

- FaceStation 2 1.1.0
- BioStation A2 1.5.0
- BioStation 2 1.6.0
- BioStation L2 1.3.0
- BioLite N2 1.0.0
- BioEntry P2 1.1.0
- BioEntry W2 1.2.0
- FaceLite 1.0.0
- XPass 2 1.0.0
- CoreStation 1.1.0
- X-Station 2 1.0.0
- BioStation 3 1.0.0

■ BioStar 2

[A - A - B ]

■ BioStar 2

BioStar 2 가



# 17 BioStar 2



▪

세션 보안

• 동시 접속 허용  활성화

--	--

통합 게이트웨이 설정

• 통합 게이트웨이  활성화

	BioStar 2
	BioStar 2 iframe
	SSL
▪	가
▪	가

3)

Microsoft Windows Active Directory

BioStar 2



- 
- 
- 

Windows Server 2008 R2

ID

1) >

2)

**액티브 디렉토리 서버 구성**

- 1 [ 암호화 사용  활성화
- 2 [ BioStar 2 로그인에 사용  비활성 !
- 3 [ 키 저장소 비밀번호
- 4 [ 서버 주소
- 5 [ 사용자명
- 6 [ 비밀번호
- 7 [ 기본 Domain 명

---

**사용자 그룹**

- 8 [ 사용자 그룹 필터  활성화
- 9 [ 사용자 그룹 기본 Domain 명
- 10 [ 사용자 그룹

---

**필드 구성**

- 11 [ 사용자 필드 매핑

BioStar2 사용자 필드	AD Server 필드		+ 추가
사용자 ID	sAMAccountName	🗑️	

---

**동기화**


- 12 [ 상태 미실행

1		Windows Active Directory Active Directory

# 17 BioStar 2

2	BioStar 2	Windows Active Directory BioStar 2 Windows Active Directory sAMAccountName BioStar 2 ID										
3		Windows Active Directory										
4		Windows Active Directory										
5		Windows Active Directory ID										
6		Windows Active Directory										
7	Domain	Windows Active Directory  a) <b>Active Directory</b> b) 가 Node  c) d) <b>distinguishedName</b>										
8												
9	Domain	Windows Active Directory										
10												
11		Windows Active Directory BioStar 2  <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>• 사용자 필드 매핑</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">BioStar2 사용자 필드</th> <th style="width: 50%;">AD Server 필드</th> </tr> </thead> <tbody> <tr> <td>사용자 ID</td> <td>sAMAccountName</td> </tr> <tr> <td>사용자 이름</td> <td>displayName</td> </tr> <tr> <td>이메일</td> <td>mail</td> </tr> <tr> <td>전화번호</td> <td>telephoneNumber</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 5px;">+추가</p> <p style="text-align: right; margin-top: 5px;">업데이트</p> </div> a) + 가 가 b) BioStar 2 가 BioStar 2	BioStar2 사용자 필드	AD Server 필드	사용자 ID	sAMAccountName	사용자 이름	displayName	이메일	mail	전화번호	telephoneNumber
BioStar2 사용자 필드	AD Server 필드											
사용자 ID	sAMAccountName											
사용자 이름	displayName											
이메일	mail											
전화번호	telephoneNumber											

# 17 BioStar 2

		AD Server c)  ▪ ID
1 2		가 , 가

Windows Active Directory

## 1 Active Directory

Windows Active Directory

Active Directory

Active Directory

1) Windows Active Directory 가 PC > 가

2)

3)

4)

5) Active Directory

6) 가

7) Active Directory

8) 가 Active Directory

9) AD CS

10)

11) CA

# 17 BioStar 2

---

- 12) CA CA
- 13)
- 14) CA
- 15)
- 16) Active Directory

## 2 .LDAPS(LDAP over SSL/TLS)

- 1) Windows
- 2) ldap
- 3) Ldap-disconnected
- 4) SSL

## 3

- 1) Windows Active Directory 가 PC
- 2) certutil -ca.cert client.crt
- 3) keytool -import -keystore ad.jks -file client.crt jks
- 4) jks BioStar 2

PC

가



- 
- 

- 1) >
- 2)

# 17 BioStar 2

방문처 설정

방문처

이름	출입 그룹	카드 사용	카드 종류	카드 데이터 형식	
Suprema 01	Access...	<input checked="" type="checkbox"/>	CSN	없음	
Suprema 02	Access...	<input checked="" type="checkbox"/>	Wiegand	26 bit ...	
Suprema 03	Access...	<input checked="" type="checkbox"/>	스마트 ...	없음	

+ 추가  
적용



## PC

방문 PC 설정

방문 PC 설정

이름	지문 장치 이름	카드 장치 이름	방문처	
Managing PC	Bio...	Bio...	Suprema 01	
Visiting PC	Bio...	Bio...	Suprema 02	

+ 추가  
적용

방문자신청 페이지 바로가기 [https://192.168.14.25/#/register\\_welcome](https://192.168.14.25/#/register_welcome)  
방문 PC에서 링크를 드래그 한 드롭하여 비탈화면에 바로가기를 만드세요

# 17 BioStar 2

PC	<p>PC</p> <ul style="list-style-type: none"> <li>PC</li> <li>가</li> <li>가</li> <li>PC</li> </ul> <p>☑</p> <ul style="list-style-type: none"> <li>PC 48</li> <li>1</li> <li>PC 1</li> </ul> <p>PC</p>
가	<p>PC 가</p> <p>가 URL</p> <p>PC</p>

PC

방문 PC 선택

방문 PC 선택 Visiting PC

PC	<p>PC PC PC</p>

&

# 17 BioStar 2

**약관 & 방문자 설정**

**방문자 출입 이용 약관 설정**



- 방문자 출입 이용 약관을 입력하세요 취소
- 방문자 출입 이용 약관 등의 문구를 입력하세요
- 개인 정보 처리 방침을 입력하세요
- 개인 정보 처리 방침 등의 문구를 입력하세요

• 개인 및 민감 정보 보관 기간  일

---





**방문자 설정**

- 방문 신청 완료 시 안내문구
- 방문자 기본 출입 허가기간  일

<div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <span></span> <span></span> </div>	<div style="display: flex; justify-content: space-between;"> <span>65,535</span> <span>64</span> </div>
가	<div style="display: flex; justify-content: space-between;"> <span>65,535</span> <span>64</span> </div>
가	<div style="display: flex; justify-content: space-between;"> <span>65,535</span> <span>64</span> </div>



# 17 BioStar 2

	 <ul style="list-style-type: none"> <li>▪</li> </ul>
	  <ul style="list-style-type: none"> <li>▪ 65,535</li> <li>▪</li> </ul>
가	 가

커스텀 방문자 필드

• 커스텀 방문자 필드 설정

순서	이름	유형	데이터
찾을 수 없음			

	가                      가                      , 가
	<ul style="list-style-type: none"> <li>▪ : 가</li> <li>▪ : 가</li> <li>▪ : ,</li> </ul>

■ :  
(;)

■  
가

■ 방문 목적 업무 협의  
가

■ 방문 인원 2  
가 가

Option 1; Option 2; Option  
3; Option 4

■ 옵션  
없음  
Option 1  
Option 2  
Option 3  
Option 4

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

# 17 BioStar 2

---

- 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
- 
- BioStation 3 1.2.0

## 1 Airfob Portal 가

Airfob Portal



Airfob Portal

## 2 BioStar 2

Airfob Portal

## 3 .

Airfob Pass

BioStar 2

4 .

BioStar 2 .

## Airfob Portal

Airfob Portal , .

1) Airfob Portal(<https://portal.airfob.com/ko>) .

2) 가 .

3) Airfob Portal .

가 .

4) .



■

6 .

5) .

6) Airfob Portal .

7) .

8) .

9) .



■

10) .

가 .

# 17 BioStar 2

11)



- 가 가
- 가 BioStar 2

12)

13)

Airfob Portal



- Airfob Portal [Airfob Portal\(https://portal.airfob.com/ko\)](https://portal.airfob.com/ko)

Airfob Portal

1)

>

2)

일반	
• 모바일 출입 카드 설정	<input checked="" type="checkbox"/> 사용
• 도메인	<input type="text" value="https://api.mc.suprema.io"/>
• 사이트 ID	<input type="text" value="1318"/>
• 암호	<input type="password" value="*****"/>
• 사이트 Type	<input type="text"/>
• 포트	<input type="text" value="443"/>
• 이메일	<input type="text" value="test@suprema.co.kr"/>
	<input type="button" value="연결"/>



	<ul style="list-style-type: none"><li></li></ul>
--	--



■ BioStar 2

Airfob Portal 가

■ Type:



■

- : , , , 가가

- : , 가  
BioStar 2

■ : Airfob Portal

■ : Airfob Portal

■ ID: Airfob Portal ID ID

Airfob Portal >

■ :

■ :

■ :

, , ID, Airfob Portal

• 장치 등록

장치 ID	장치 이름	장치 그룹	IP 주소	+추가
찾을 수 없음				

가 + 가 .BioStar 2

등록용 장치 설정 X

1 / 1 50 행 찾기

	장치 ID	장치 이름	장치 그룹	IP 주소
<input type="checkbox"/>	547832712	FaceLite 547832712 (192.168.14.240)	All Devices	192.168.14.240
<input type="checkbox"/>	547833190	Xpass2 Keypad 547833190 (192.168.14.233)	All Devices	192.168.14.233

추가 닫기

가

• 장치 등록 +추가

장치 ID	장치 이름	장치 그룹	IP 주소	
547833190	Xpass2 Keypad 547833190 (192.168.14.233)	All Devices	192.168.14.233	🔄 🗑️

가 가



- 
- 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/



- 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 .

1) >

2)

—

1	SMTP	Transfer Protocol, SMTP) (Simple Mail



SMTP 정보
✕

**보낸 사람 정보**

- SMTP 서버 이름
- 설명
- 서버 주소
- 포트(기본값:25)
- 사용자 이름
- 암호
- 보안 종류
- 보낸 사람

- SMTP : SMTP
- : SMTP
- : SMTP .SMTP
- smtp. com ,
- SMTP
- ( :25): SMTP
- SMTP
- : SMTP
- : SMTP
- :
- :

- SMTP
- SMTP 2

.2 SMTP

# 17 BioStar 2


		가 2
		가 ,SMTP
		SMTP
2		

비주업 페이스 모바일 등록

- 1 [ 비주업 페이스 모바일 등록  사용
- 2 [ 이메일 계육 Visual Face Enrollment
- 3 [ 회사 이름 Suprema
- 4 [ 회사 로고
- 5 [ 담당 연락처 0123456789
- 6 [ 비밀번호

1		
2		
3		
4	<ul style="list-style-type: none"> <li>■ <input checked="" type="checkbox"/></li> <li>■ GIF, JPG, JPEG, JPE,</li> <li>■ JFIF, PNG</li> <li>■ 5MB</li> </ul>	

# 17 BioStar 2

5		
6		<div style="text-align: center;">  <p>5,000</p> </div>

## QR

**QR**

1 - QR

2 - 이메일 제목

3 - 회사 이름

4 - 회사 로고

5 - 담당 연락처


사용

Your QR/Barcode has been issued.

Suprema

로고 이미지 업로드

012345678

1	QR	QR/
2		QR/
3		
4		<div style="text-align: center;">  <p>GIF, JPG, JPEG, JPE, JFIF, PNG</p> <p>5MB</p> </div>
5		

3)

## BioStar 2

## BioStar 2

1) >

**BioStar 2 라이선스**

**출입 통계**

- 적용 라이선스    어드밴스
- 발급 대상    BioStar2ADV    • 만료 날짜    2023/04/18

**근태 관리**

- 온라인 라이선스 활성화
- 오프라인 라이선스 활성화

**비디오**

- 온라인 라이선스 활성화
- 오프라인 라이선스 활성화

**방문자**

- 온라인 라이선스 활성화
- 오프라인 라이선스 활성화

BioStar 2	BioStar 2  BioStar 2

BioStar 2    USB

# 17 BioStar 2



- 가
- ( 100 )
- ID
- ID 가

1) >

장치 라이선스

1 [ + 라이선스 파일   • 대상 장치 수  ] 3

2 [ + 라이선스 종류  • 라이선스 수  ] 4

5 [ + 장치 목록

장치 ID	장치 이름	모델명	장치 상태	라이선스 상태	활성화된 수
432073370	CoreStation 40 432073370 (192.168.40.164)	CS-40	정상	비활성	4 / 8
432073371	CoreStation 40 432073371 (192.168.40.164)	CS-40	정상	활성	8 / 8
432073372	CoreStation 40 432073372 (192.168.40.164)	CS-40	연결 끊김	해당 없음	-
432073373	-	-	미등록	해당 없음	-

가		
1		
2		<ul style="list-style-type: none"> <li>Camera QR                             <ul style="list-style-type: none"> <li></li> <li>Camera QR                                     <ul style="list-style-type: none"> <li>- X-Station 2 (XS2-ODPB, XS2-OAPB, XS2-DPB, XS2-APB) 1.2.0</li> <li>- BioStation 3 (BS3-DB, BS3-APWB) 1.1.0</li> </ul> </li> </ul> </li> </ul>

# 17 BioStar 2

		<ul style="list-style-type: none"> <li>☑</li> <li>▪ OSDP</li> <li>▪</li> <li>- U&amp;Z OSDP : CX8936</li> <li>- U&amp;Z : CX217x(Handle), CX212x(Knob)</li> <li>▪ 12</li> <li>▪</li> <li>12</li> <li>12</li> </ul>
3		
4		<ul style="list-style-type: none"> <li>☑</li> <li>▪</li> </ul>
5		<ul style="list-style-type: none"> <li>▪ ID: ID</li> <li>▪ :</li> <li>▪ :</li> <li>▪ :</li> <li>-</li> <li>▪ :</li> <li>-</li> <li>▪ :</li> <li>☑</li> <li>▪</li> </ul>

2)

가 ,

BioStar 2 cardPresso BioStar 2 가



- cardPresso
  - : cardPresso XXL edition
- cardPresso PC cardPresso

1) >

2)

← 카드 프린터

일반

• cardPresso 설정  사용

• ID

• 암호

• IP 주소

• Port

• 프린터 이름

순서	이름 <span style="font-size: small; color: #00a09a;">i</span>	기본 사용	
1	<input type="text" value="C:\template\example.card"/>	<input type="radio"/>	
2	<input type="text" value="C:\template\example2.card"/>	<input checked="" type="radio"/>	

• 카드 템플릿 테스트 인쇄

cardPresso	
ID	cardPresso ID ID ADMIN'
	cardPresso admin'

# 17 BioStar 2

IP	PC IP
Port	cardPresso
	.Windows >
	<p>+ 가 가</p> <p>가</p> <p><input checked="" type="checkbox"/></p> <ul style="list-style-type: none"> <li>▪ ' , ' .</li> <li>▪ 20</li> <li>▪ : C:\template\example.card</li> <li>▪ cardpresso</li> </ul>

3)

BioStar 2



- MSSQL BioStar 27가 PC BioStar 2

1) >

2)





# 17 BioStar 2

일반

- 백업 파일 저장 경로
- 최대 백업 파일 수

마지막으로 백업한 날짜: 2023년 3월 03일 10:36


	
	가 1~100

3)

1) >

2)

시스템 자동 백업

- 빈도
- 요일
- 시간  

# 17 BioStar 2

	<b>Daily / Weekly / Monthly</b>
	<b>Weekly</b>
	<b>Monthly</b>
	<input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>■ 29, 30, 31 , 가</li> </ul>
	<input checked="" type="checkbox"/> <ul style="list-style-type: none"> <li>■ BioStar 2</li> </ul>

3)

BioStar 2가

BioStar 2 Restore



■ MSSQL

BioStar 2가

PC

BioStar 2

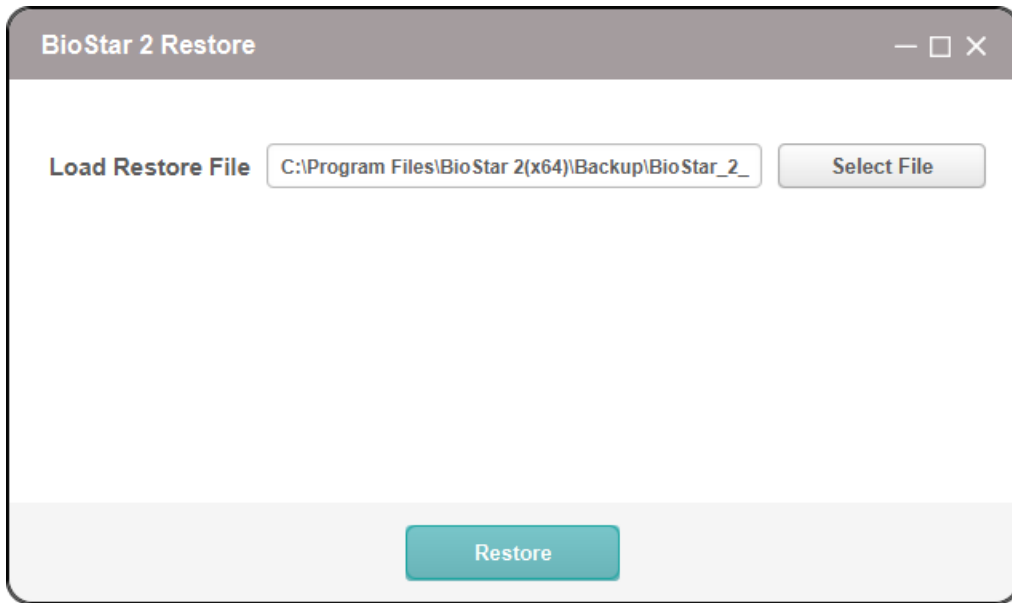
1) > **BioStar 2** > **BioStar 2 Restore**

- : C:\Program Files\BioStar 2(x64)\biostar-restore.exe

2) **Select File**

**Restore**

## 17 BioStar 2



3) Starting Biostar services...Done 가

4) BioStar 2 .



- BioStar 2 .

가



■

BioStar 2

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## MariaDB LGPL client libraries for C and Java

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

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Version 2.1, February 1999

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## MariaDB Server

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<https://github.com/danieleggert/minizip>

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,  
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## Sqlcipher

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## Redux Toolkit

<https://redux-toolkit.js.org/>

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## Autoprefixer

<https://github.com/postcss/autoprefixer>

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## Axios

<https://xn--xy1bk56a.run/axios/guide/api.html>

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## Classnames

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

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## Day.js

<https://day.js.org/>

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<https://www.i18next.com/>

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## i18next-http-backend

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

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## Immer

<https://immerjs.github.io/immer/>

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## prop-types

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

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## React Hook Form

<https://react-hook-form.com/>

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## React

<https://ko.reactjs.org/>

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## React-dom

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## react-i18next

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## react-number-format

<https://www.npmjs.com/package/react-number-format>

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## React Redux

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## redux-persist

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

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## jquery

<https://jquery.org>

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## angular.js

<https://angularjs.org>

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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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<https://konvajs.org>

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## springBoot

<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>

LGPL 2.1

Most Hibernate projects are released under LGPL v2.1.

The maintainers of Hibernate have consistently understood the LGPL to simply allow Hibernate to be used by both open source and proprietary code without any impact on the licensing or distribution of such independent code. This interpretation applies regardless of whether a binary that includes Hibernate code is designed to run on the JVM or is a native image generated through use of tools and frameworks like GraalVM and Quarkus.

More detailed explanation

The original version of the LGPL was written in 1991 with embedded C programming in mind, before Java existed. This has sometimes led to questions about how to interpret LGPL in a Java context. The "L" in LGPL originally stood for "library"; LGPL was designed to enable libraries to be used by proprietary applications in situations that might be impermissible under the ordinary GPL. For this reason, the LGPL is classified as a "weak copyleft" license, in contrast to the GPL which is considered a "strong copyleft". The "L" in LGPL was later reinterpreted to mean "lesser", to communicate the fact that it has more limited scope than the GPL and is not meant exclusively for libraries.

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:

LGPL requirements are triggered only if there is distribution; internal use is not restricted.

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This has been the consistent interpretation of the LGPL by the maintainers of Hibernate ever since the project adopted LGPL.

#### Use in GraalVM native images

Recently there has been interest in native compilation for Java using tools like GraalVM, such as commonly used in frameworks like Quarkus. The view of the Hibernate maintainers is that native compilation is a technical detail that does not fundamentally change how LGPL works for Java code. In a native image that includes LGPL-licensed code from Hibernate, the Hibernate code remains under the terms of the LGPL, but the other code in the generated binary is not affected by the licensing of the Hibernate code.

#### ASL 2.0

Some Hibernate projects are released under ASL 2.0.

This is mostly due to our work with the Java Community Process: implementing a reference implementation in practice requires such a liberal license (or a fully proprietary one strangely enough).

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<https://projectlombok.org>

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ASM: a very small and fast Java bytecode manipulation framework

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projectlombok/lombok.patcher

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## annotationApi

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

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 */
```

```
-----
For lib/py/compat/win32/stdint.h
```

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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Codegen template in t\_html\_generator.h

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