bioconnect.

Reduce Risk at the Door with

Mobile Authentication for Physical Access

BioConnect is unifying physical and digital access with the Link Solution. A convenient, flexible and scalable solution to add an additional layer of security to physical access points with two-factor mobile authentication.

Smart, Rules-Based Access

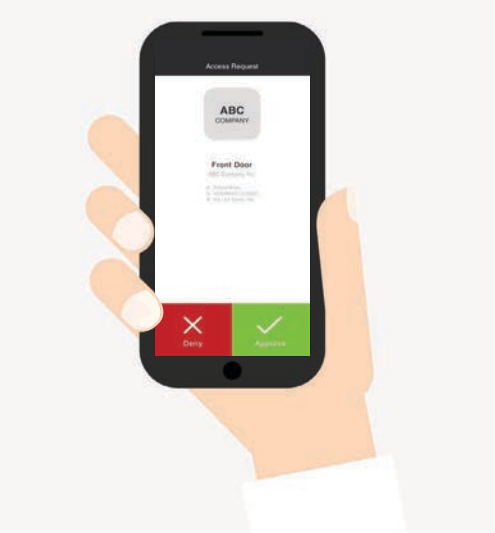
With custom configuration for security administration and the ability to set schedules for additional security levels, like after-

Deny Untrustworthy and Falsified Access

Key cards and FOBs can be easily duplicated. With the Link solution, suspicious access events can be blocked.

Reduce Tailgating

Leverage mobile two-factor authentication already deployed for digital applications at physical access points and prevent tailgating.



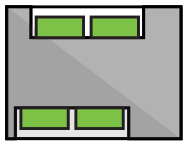
How it works

Tap your card

Receive push notification

Access granted

Solution Components



Link Device

An intelligent device designed to facilitate the unification of physical security with mobile authentication applications. Easy installation, less than 30 minutes.

Link Admin Console

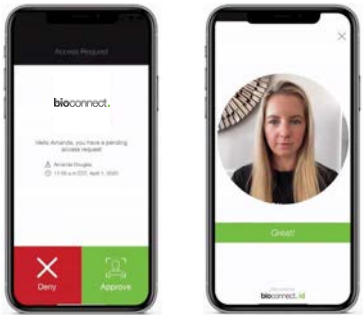
A platform to manage users, devices, rules, system configuration and two-factor authentication scheduling. Syncs users via the solutions ACM sync feature.

Mobile Authenticator

The second factor of authentication to the presented card. This can be BioConnect's provided mobile authentication app (using biometrics or a simple yes/no approval), or a supported 3rd Party Authenticator.

Supported Authenticators

bioconnect.



Use biometric facial recognition or a simple 'Approve'/'Deny' to authenticate.

DUO

PingID

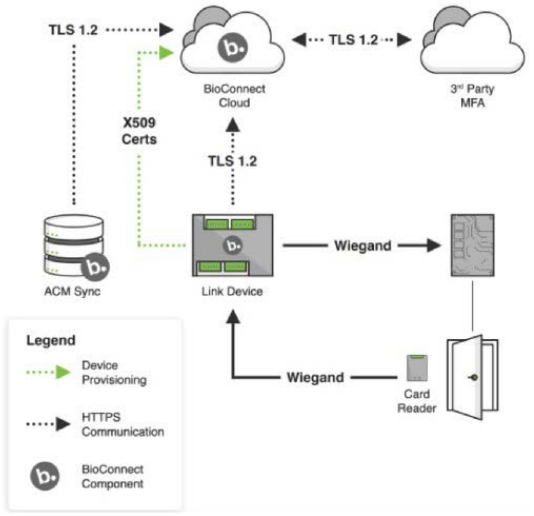
okta

Product Specifications

	Product Code	Name	Description
Door Controller	**BC-Door Link**	BioConnect Link MFA Module for Doors	Retrofit Two Factor Authentication Solution for Wiegand Based Readers. (Available authenticators include: BioConnect Mobile, DUO, PingID, OKTA) Includes 1- 4-door controller. Wifi / IP Enabled. Subscription service sold seperately. Please have customer contact BioConnect for subscription service (sales@bioconnect.com)
	BC-Cablink	BioConnect Link MFA Module for Cabinets	Retrofit Two Factor Authentication Solution for Wiegand Based Readers. (Available authenticators include: BioConnect Mobile, DUO, PingID, OKTA) Includes 1 controller. Wifi / IP Enabled. 1 Required per cabinet. Subscription service sold seperately. Please have customer contact BioConnect for subscription service (sales@bioconnect.com)
Software	**BC-Blink-D1**	BioConnect Link for Doors - 1 Year Subscription (1 Door)	1 year subscription service for one door. (Available authenticators include: BioConnect Mobile, DUO, PingID, OKTA). 1 Required per door.
	BC-Blink-C1	BioConnect Link for Cabinets - 1 Year Subscription (1 Cabinet)	1 year subscription service for one cabinet. (Available authenticators include: BioConnect Mobile, DUO, PingID, OKTA). 1 Required per cabinet.

Hardware Specifications

Processor	Xtensa LX6 dual-core 240MHz with Secure Boot ATmega168 16MHz
Dynamic Memory	500kB SRAM
Long-Term Storage	4MB hardware-encrypted flash storage (FIPS-197 compliant)
Network Connectivity	10Base-T / 100Base-TX 802.11B/G/N, WPA/WPA2 Secure 2.4GHz Wireless Mesh (optional) Bluetooth 4.2 BR/EDR/BLE
Input Voltage	+12 V DC / PoE (+44VDC)
Wiegand Interface	4 pairs: Wiegand In/Out + LED control
Relays	4 pairs: 12-30VDC (dry), 2.5A inductive, 5A resistive
Operating Temperature	-40°C (-40°F) to +125°C (+257°F)
Dimensions	86.4mm X 132.9mm X 24.7 mm



Security and Privacy

Hardware: BioConnect Link Device

The communication between the Link hardware and the BioConnect cloud service is protected using mutually authenticated TLS 1.2 certificates on a secure MQTT protocol. Our hardware has multiple layers of redundancy to ensure your access events go through, even in the event of one or more of power, hardware or software failure.

1. Mechanical bypass to ACM in loss of power to the hardware device.

2. Device bypass to ACM if hardware device loses internet connection or cannot connect to the BioConnect cloud service.

3. Hardware equipped with partition to load an older OTA config/ Firmware.

4. Cloud redundancy for each service for BioConnect Link hardware device.

5. Link has a dedicated hardware watchdog and software watchdog; either of these will completely reboot and reinitialize the Wiegand circuitry within 250ms of detecting a hardware or software error.

Software: BioConnect Link Admin Console

Operates behind HTTPS, using TLS 1.2 and provides a standard web ap - plication to administer the solution, for example, adding users, schedules, devices, and cards. Our software uses a microservice infrastructure to fol - low modular software design principles, allowing for higher manageability and scalability. Our cloud service has been designed to scale horizontally, and vertically as required. This is to ensure that access requests are pro - cessed regardless of failures and seamlessly handles peak traffic loads.

Privacy and Data Storage

1. **Data in Transit:** Each device is securely provisioned with a X509 certificate, and BioConnect does not have access to the device's locally generated private key. For a device, certificate-based authentication is the sole method of logging into the BioConnect cloud exchange; there are no generic usernames or pre-shared passwords that could be obtained by a third-party and then used to forge a connection to your cloud service. In addition to the encrypted transport layer, all user physical access data is separately protected, using either strong symmetric encryption or ano - nymized using one-way secure hashing. (HMAC-AES256) before it leaves the device.

2. **Data at Rest:** All local flash memory is protected by hardware encryp - tion (AES-256), using a random key that is generated locally on each device and securely stored in a dedicated hardware enclave. Over-The-Air configuration upgrades support full, automatic rollback in the event of configuration errors.

ELLIOTT DATA SYSTEMS, INC.
www.elliottdata.com

Local Identification, Secure Access & Accountability Solutions Provider

St. Louis, MO | Memphis, TN
1-888-345-8511