

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-143
Item to be Scouted	Door Access Control
Days to be scouted	20
Response Due By	05/21/2025
Description	- Electrically operated door hardware will interface with access control. Specified system should be similar in form, fit, and fashion to CBORD CS Gold Platform

Section 2: Technical Information

Type of supplier being sought	Manufacturer - Control units & hardware
Reason	BABAA - Readers and key pads
Describe the manufacturing processes (elaborate to provide as much detail as possible)	- National Fire Protection Association (NFPA) 70 compliant - Electronic assembly - Electronic Industries Alliance (EIA)/Telecommunications Industry Association (TIA) Standards
Provide dimensions / size / tolerances / performance specifications for the item	Please see attached document for additional information concerning specifications and performance concerns
List required materials needed to make the product, including materials of product components	Various as needed and/or required. All components are necessary to meet BABAA Please see attached document for additional information.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	Yes - National Fire Protection Association (NFPA) 70 Electronic Industries Alliance (EIA)/Telecommunications Industry Association (TIA) Standards
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	One-time purchase for this specific project
Estimated target price / unit cost information (if unavailable explain)	\$45,750
When is it needed by?	June 2025
Describe packaging requirements	No specialized packing requirements. Best available. Delivered undamaged. Specifics discussed in negotiation.
Where will this item be shipped?	South Burlington Vermont

Additional Comments

Is there other information you would like to include?	<p>Agency Providing funds: Commerce, U.S. Department of / National Institute of Standards and Technology (NIST)</p> <p>For questions related to BABA Compliance: Robert Slocum robert.slocum@nist.gov</p>
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SECTION 28 1000
ACCESS CONTROL

Job #	10424
Cost #	
Construction Set	
Received	11/7/2024
DEW CONSTRUCTION	

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Access control system requirements.
- B. Access control units and software.
- C. Access control point peripherals, including readers and keypads.
- D. Accessories.

1.02 RELATED REQUIREMENTS

- A. Section 08 7100 - Door Hardware: Electrically operated door hardware, for interface with access control system.
- B. Section 26 0526 - Grounding and Bonding for Electrical Systems.
- C. Section 26 0533.13 - Conduit for Electrical Systems.
- D. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
- E. Section 27 1000 - Structured Cabling: Data cables for access control system IP network connections.
- F. Section 28 2000 - Video Surveillance: For interface with access control system.

1.03 REFERENCE STANDARDS

- A. NECA 1 - Standard for Good Workmanship in Electrical Construction.
- B. NFPA 70 - National Electrical Code.
- C. UL 294 - Access Control System Units.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate the work with other installers to provide suitable door hardware as required for both access control functionality and code compliance.
 - 2. Coordinate the placement of readers with millwork, furniture, equipment, etc. installed under other sections or by others.
 - 3. Coordinate the work with other installers to provide power for equipment at required locations.
 - 4. Notify Engineer of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.
- B. Preinstallation Meetings:
 - 1. Conduct meeting with facility representative to review reader and equipment locations.
 - 2. Conduct meeting with facility representative and other related equipment manufacturers to discuss access control system interface requirements.

1.05 SUBMITTALS

- A. Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
- C. Design Data: Standby battery/UPS calculations.
- D. Evidence of qualifications for manufacturer.

- E. Evidence of qualifications for installer.
- F. Evidence of qualifications for maintenance contractor (if different entity from installer).
- G. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.
- H. Manufacturer's detailed field testing procedures.
- I. Project Record Documents: Record actual locations of system components and installed wiring arrangements and routing.
- J. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.
- K. Software: One copy of software not resident in read-only memory.

1.06 QUALITY ASSURANCE

- A. Comply with the following:
 - 1. NFPA 70.
 - 2. The requirements of the local authorities having jurisdiction.
 - 3. Applicable TIA/EIA standards.
- B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.
- C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- D. Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience with access control systems of similar size, type, and complexity and providing contract maintenance service as a regular part of their business; authorized manufacturer's representative.
- E. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.
- B. Store products in manufacturer's unopened packaging, keep dry and protect from damage until ready for installation.

1.08 FIELD CONDITIONS

- A. Maintain field conditions within manufacturer's required service conditions during and after installation.

1.09 WARRANTY

- A. Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Access Control Software: The Basis of Design shall be the CBORD CS Gold Platform. Contractors shall provide hardware from CBORD.

2.02 ACCESS CONTROL SYSTEM REQUIREMENTS

- A. Provide new access control system consisting of required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.

- B. System Battery Backup: Provide batteries/uninterruptible power supplies (UPS) as required for 15 minutes full operation.
- C. Surge Protection:
 - 1. Provide surge protection for exterior readers and door strikes/locks.
- D. Computers Required:
 - 1. See article "ACCESS CONTROL UNITS AND SOFTWARE" below for product descriptions.
 - 2. Server(s):
 - a. Quantity: One.
 - b. Location(s): IT Rack 130.
 - c. Peripherals required for each server:
 - 1) Mouse and keyboard.
 - 2) Monitor(s): One.
- E. Interface with Other Systems:
 - 1. Provide products compatible with other systems requiring interface with access control system.
 - 2. Interface with electrically operated door hardware as specified in Section 08 7100.
 - a. Capable of locking/unlocking/releasing controlled doors.
 - b. Capable of receiving input from integral door hardware switches.
 - 3. Interface with video surveillance system as specified in Section 28 2000.
 - a. Capable of affecting camera/video operation for selected access control system events.
- F. Provide products listed, classified, and labeled as suitable for the purpose intended.
 - 1. Access Control Units and Readers: Listed and labeled as complying with UL 294.

2.03 ACCESS CONTROL UNITS AND SOFTWARE

- A. Provide access control units and software compatible with readers to be connected.
- B. Unless otherwise indicated, provide software and licenses required for fully operational system.

2.04 ACCESS CONTROL POINT PERIPHERALS

- A. Provide devices compatible with control units and software.
- B. Provide devices suitable for operation under the service conditions at the installed location.
- C. Readers and Keypads:
 - 1. General Requirements:
 - a. Provide readers compatible with credentials to be used.
 - b. Color: To be selected by Architect from manufacturer's available standard colors.
 - c. Contactless Smart Card Readers:
 - 1) Utilize 13.56 MHz RF communication with compatible credentials.
 - 2) Utilize 64 bit authentication keys.
 - 3) Support ISO compliant credentials.
 - 4) Support data encryption.
 - d. Proximity Readers:
 - 1) Utilize 125 kHz RF communication with compatible credentials.
 - 2. Combination Reader:
 - a. Credentials Supported: Communicates with Bluetooth Low Energy (BLE) mobile credentials, 13.56 MHz smart cards, 125 kHz proximity cards, and near-field communication (NFC) credentials.
 - 3. Biometric Hand Geometry Reader:
 - 4. Keypad:
- D. Door Position Switches:
 - 1. Magnetic Contacts: Encapsulated reed switch(es) and separate magnet; designed to monitor opened/closed position of doors.

- E. Request to Exit Devices:
 - 1. Pushbuttons:
 - 2. Motion Sensors: Passive infrared.
- F. Door Locking Devices (Electric Strikes and Magnetic Locks): Comply with Section 08 7100.
- G. Alarm Sounders:
 - 1. Minimum Sound Output: 85 db.

2.05 ACCESSORIES

- A. Provide components as indicated or as required for connection of access control system to devices and other systems indicated.
- B. Unless otherwise indicated, credentials to be provided by Contractor.
 - 1. Provide credentials compatible with readers and control units/software to be used.
- C. Unless otherwise indicated, network switches required for network connections to system components to be provided by Contractor.
- D. Provide cables as indicated or as required for connections between system components.
 - 1. Data Cables for IP Network Connections: Unshielded twisted pair (UTP) complying with Section 27 1000.
- E. Provide accessory racks/cabinets as indicated or as required for equipment mounting.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that ratings and configurations of system components are consistent with the indicated requirements.
- C. Verify that mounting surfaces are ready to receive system components.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system.
- E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install access control system in accordance with NECA 1 (general workmanship).
- B. Install products in accordance with manufacturer's instructions.
- C. Wiring Method: Unless otherwise indicated, use wiring in conduit.
 - 1. Use suitable listed cables in wet locations, including underground raceways.
 - 2. Use suitable listed cables for vertical riser applications.
 - 3. Conduit: Comply with Section 26 0533.13.
 - 4. Use power transfer hinges complying with Section 08 7100 for concealed connections to door hardware.
 - 5. Do not exceed manufacturer's recommended maximum cable length between components.
- D. Provide grounding and bonding in accordance with Section 26 0526.
- E. Identify system wiring and components in accordance with Section 26 0553.

3.03 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for additional requirements.
- B. Prepare and start system in accordance with manufacturer's instructions.
- C. Program system parameters according to requirements of Owner.
- D. Test for proper interface with other systems.
- E. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.04 CLEANING

- A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.05 CLOSEOUT ACTIVITIES

- A. Demonstration: Demonstrate proper operation of system to Owner, and correct deficiencies or make adjustments as directed.
- B. Training: Train Owner's personnel on operation, adjustment, and maintenance of system.
 - 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
 - 2. Provide minimum of four hours of training.
 - 3. Instructor: Manufacturer's authorized representative.
 - 4. Location: At project site.

3.06 PROTECTION

- A. Protect installed system components from subsequent construction operations.

END OF SECTION 28 1000