• T E C H N I C A L   N O T E •

Moblie Wireless Readers
Mobile Gate

Veridt
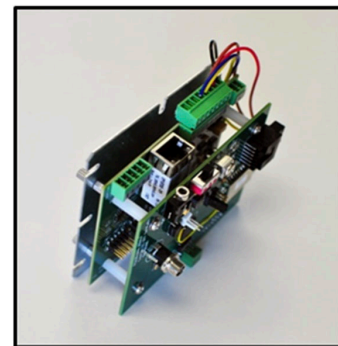*Verify • Identify*

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MobileGate™ Wireless Handheld Reader

Part # 900H2000

- **Veridt Designed Next Generation Wireless Technology**

- **Hardware Design Based on Stealth Architecture**

- **2.4 GHz Point to Point Wireless Based on Zigbee Communications Protocol**

- **EWAC Secure Communications**

MobileGate Base Station
2.4 GHz Receive & Transmit

Zigbee, an IEEE 802.15.4-based specification for high-level communication protocols, is the wireless language that everyday devices use to connect to one another. Veridt's design combines Zigbee's low power digital radio integrated with its proven EWAC communications interface to create a cost-effective proven approach to wireless solutions for secure access.
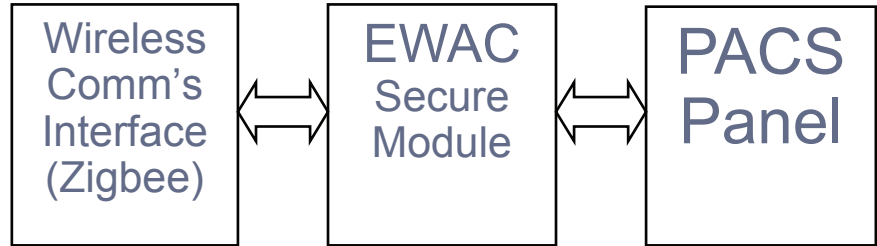
The base station consists of EWAC secure module and Veridt designed Zigbee unit. The EWAC secure communications module includes three communications interfaces: Wiegand, Serial RS-485 and Ethernet. Enables "two-way" communication between reader and server. Existing PACS hardware and standard Wiegand is maintained to complete the authentication process and grant access. Enables path validation and certificate revocation checking using CRL, OCSP or SCVP.

MobileGate Base Station
in non-conducting housing

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Specifications

Wireless Comm's Interface (Zigbee) ⟷ EWAC Secure Module ⟷ PACS Panel

Card and Card Formats

Reads Veridt's biometric access control template, GSCIS compliant containers, PIV & PIV I, TWIC, CAC & CAC-PIV cards, any data model based on MIRFARE, DESFire, or ISO 1443A or B cards, and ISO7816. Operation

Multi-factor authentication: configurable for card only,

card + PIN, card + biometric, card + PIN + biometric. Multi-mode operation: easily programmed to dynamically recognize multiple card formats for legacy, local, and government requirements.

Card Readers

Contactless smart card read interface ISO 14443-A; Contact card read interface: ISO 7816 compatible

Battery Operation

High-quality 11.1 V Li-ion rechargeable battery. Voltage: 11.1 V (working) 12.6 V (peak) 7.5 V (cutoff) Current: 2200 mAh (24.4 Wh)

Electrical
Supply voltage: 8–24 VDC
Current: 500 mA

Biometric Fingerprint Sensor

Sensor technology: CMOS active capacitance
Image area: 18 mm (H) x 12.8 mm (W)
Image resolution: 508 DPI
Grayscale: full 8-bit
Image size: 256 x 360 pixels
FIPS 201 compliant: yes
ANSI 381 image format: yes
ESD protection: IEC 6100–4-2 level 4   15 KV
Image processing & matching: Suprema
Extraction & verification time: ~1 second
FRR: 0.1%–0.001%
FAR: 0.01%–0.001%
Allowable Finger Rotation: 180

Keypad

12-keys

Digital Interface Signals

Wiegand serial data output: configurable to 512 bits 50 mA maximum output current drive (output low)

Wireless Interface Signals Radio

Frequency: 2.4 GHz
Type: frequency-hopping spread spectrum
Transmit power: 100 mW
Receiver sensitivity: -110 dBm
Interference rejection: 70 dBm

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Docking Station

Part Number 101300 Docking Station

A charge-only dock for easy storage of unit when not in use and for recharging the internal battery. 110 VAC power required.

Dimensions:

152 mm (diameter) x 76 mm without charger.
152 mm (diameter) x 152 mm with charger.