FAST FACTS

HEAD-END SOFTWARE

- ***VEL Version 3.1 –*** Velocity Server + Unlimited Clients, and Single User Workstation on CD

VELOCITY COMPUTER REQUIREMENTS

Software

- WINDOWS Server 2003 (Server)
- WINDOWS XP Professional and VISTA on Client and Single User Workstation
- SQL Server 2005 Express included
- SQL Server 2005 optional
- 32 & 64 Bit OS and SQL Support

Hardware (Minimum Required*)*

- Pentium 4, 2GB RAM + 40MB per active Client (Server), 2GB RAM (Client and Single User Workstation)
- 40 GB Hard Drive
- 15" - 17" Monitor (1024x768 resolution)
- Mouse & Keyboard
- DVD Drive (DVD-RW preferred)
- Ethernet Port 10/100/1000
- 2 Serial Port (more if required) for controller communications and card enrollment station
- 1, 2, or 3 Parallel Ports
  - Page Printer For Reports
  - Line Printer For Real Time Alarms & Events
  - Badge Printer for Badge Printing

Optional

- Sound Card and Speakers
- Camera for Badging
- Dual Monitor Card, + 2nd Monitor
- Modem for Dial-Up Controllers and PCAnywhere Support (Server)
- High Performance Video Card, 256MB RAM
- 2nd Network Interface Card

Optional, But Recommended

- UPS
- Tape Backup (Server) w/ software

To ensure long-term compatibility with VELOCITY feature enhancements and future versions of Windows, invest in the most current computer possible.

VELOCITY COMPONENTS

- ***Event Viewer –*** Routing by Operator
- ***Alarm Viewer –*** Routing by Operator
- ***Enrollment Manager***
  - User Management
  - User defined fields with option for Drop Down lists
  - Single and Batch Badge Printing
  - Badge Print and Issue Control
  - Person Templates and Person Groups
  - Multi-Person Edit
  - Scanner Support – Business Card, Drivers License, Passport, PIV Reader
- ***Linked Credential Templates***
- ***Door/Master Door Groups***– Global
- ***Function Groups***
- ***Photo ID Badging*** – 1 and 2 Sided
- ***Badge & Graphics Designer***
- ***Alarm Graphics***
  - User Customizable Dynamic ICONS
  - Alarm Priority / Queue
  - Control Zone Area Status
  - Issue Control Commands
  - CCTV Integration
  - Supports Multiple Formats: BMP, JPG, EMF, WMF, DXF (AutoCad)
  - HTML & IP Camera Links

VELOCITY COMPONENTS – cont.

- ***Velocity Learning Center***
  - Multimedia Tutorials
  - On-Line Help
  - Known Issues
  - Manuals
- ***Customization Manager***
  - Language Translations
  - Assign audio WAV files to alarm types
  - Define Alarm Priority Levels
  - Define Alarm Type Response Instructions
  - Point Customization & Escalation
- ***Status Viewer*** - User Defined Groups
  - Door Status
  - Alarm Input & Mask Status
  - Relay Status
- ***Command Sets*** - Issue Commands to Controllers Globally
  - Access / Unlock / Relock Doors
  - Mask / UnMask Alarms
  - Change Facility Threat Level
- ***SQL Manager***
  - Manual Backups
  - Database Restore
- ***Velocity Scheduling Agent***
  - Archive Alarm and Event Logs
  - SQL Database Backups
  - Synchronize Controller Clocks
  - Run Reports
  - Email Reports
  - Run Import/Export Users
  - Run 3rd Party Application
  - Run Command Set
  - Dial-Up Remote Sites
- ***Operators and Roles***
  - Rights and Permissions by Workstation Defined by Role
  - Restrict by Role: Users, Hardware, Graphics, Reports, Command Sets, Credential Templates, and Status Groups
- ***DVR Integration–American Dynamics and Pelco integrated. Others available***
- ***Diagnostics Window***
- ***User Data Import/Export Wizard***
- ***Email Notification of Alarm Events***
- ***Serial Port Formatted Output***
- ***XML Writer Event/Alarm Output***
- ***MS Message Queue – XML Output***
- ***Alarm Responses***
- ***CCTV Interface***
- ***Context Sensitive Help***
- ***Reports*** - Standard and Customizable
- ***Who's Inside Display***

VELOCITY FEATURES

Hardware Features

- CCM – FLASH Downloadable Controller Firmware, 4,000 base user capacity (expandable, except M1N)
- AEB8 (addresses 1-32) – supports up to 32 Expansion inputs per controller
- MEB/CB64 & 128 – Combination Code/Buffer Expansion Board – Up to 132K users supported per controller
- X-Box & SNIB2– Supports Regional Passback, User Management, and Input/Output linking for all controllers connected to X-Box or SNIB2

VELOCITY FEATURES – cont.

Software Features

- Standard Windows Interface
- User-Configurable GUI by Operator
- Unlimited User Capacity
- Multiple Function Credentials
- Multiple Credentials per User
- 15 Digit PIN numbers
- 16 Digit Card Codes
- Global Time Zones and Holidays
- 366-Day Holiday Schedule, this year and next year. 4 Holiday Schedules per Time Zone
- Automatic Daylight Savings Time Adjustment
- Restrict Access By: Time of Day; Day of Week; Door; Alarm Condition
- Door Groups – Each Reader Address (Entry & Exit) has own Time Zone
- Momentary Access By CODE, Card, Dual Technology
- Additional User Functions: Unlock / Relock; Alarm Mask / Unmask; Lock Down / Lock Down Release
- Extended Access with Countdown display on ScramblePad
- Special Needs Time Extension
- Card Only At Dual Technology By Time Zone
- 2 Person Access - A/B Rule By Door with Executive Override
- Tag User For Tracking
- Door Status Monitoring: Door Forced; Door-Open-Too-Long; Auto-Relock
- Threat Levels (99) control of reader disable, user restriction, dual required
- Passback – Direction Control
  - Hard / Soft
  - Timed
  - Internal Restriction
  - Passback Zones with Executive Override
  - Regional per X-Box
- Occupancy Counting
- Automatic Mask / Unmask of Alarms based on Occupancy Count
- Temporary User Controls
  - Use Count Limits (1-255 Uses)
  - Temporary Day Limits (1-255 Days)
  - Absentee-Rule Limits (1-255 Days)
  - Disable or Delete On Expiration of Temporary Users
  - Regional per X-Box
- Entry / Exit Delays For Alarm Control
- Extensive Zoning Capabilities of Alarms
- Alarm Input State Change and Mask Status Reporting
- Alarm Action Features – TZ control of all options, Trigger CZ on Alarm and Secure
- "Latch Monitor" function" with DTLM3
- Door / Equipment Interlocking (Man Traps, Sally Ports), and Misc. Input / Output Linking Applications
- DIGI*TRAC Controller – Export, Import, Duplicate, and Drag & Drop controller configurations
- User Partitioning
- Alarm Point Level Customization
- Alarm & Event Routing by Operator

Interoperability

- SDK – Professional Services Support
  - API for Users & Credentials
  - XML for Monitoring and Control

Hirsch Electronics – 1900 Carnegie Ave., Bldg. B, Santa Ana, CA 92705 Web Site www.hirschelectronics.com Phone (949)250-8888 FAX (949)250-7372

SCRAMBLEPAD®

Patented Features

- Scrambling Display
- Viewing Restrictor

Additional Features

- Weather Resistant
- 3 - 15 Digit Codes - Simultaneously
- Duress
- Evenly Distributes Wear
- Supervised
- Physical Tamper
- CODE Tamper
- Includes MATCH Functionality
- Auto-Start of ScramblePad Option When Dual Credential Required
- Extended Access Countdown Display
- Green LED Follows Door Relay

2 Versions

(with Integrated MATCH Functionality)

- DS47L - ScramblePad
- DS47L-HI - ScramblePad with high intensity display for high ambient lighting conditions

Versions That Include Proximity

(with Integrated MATCH Functionality)

- DS47L-SPX (HID)
- DS47L-SPX-HI (HID)

NOTE: Other proximity versions and Smart Card versions available

Mounting Boxes

- MB1 - Flush Mount
- MB2 - Surface Mount
- MB2S- Surface Mount, Shallow Depth
- MB2SL – Surface Mount, Sloped
- MB3 - Heavy Duty, Flush
- MB4 - Heavy Duty, Surface
- MB5 - Exterior, Surface
- MB8 - Heavy Duty, Flush, ADA
- MB9 - Heavy Duty, Surface, ADA
- MB10/11 – LCD Option
- MP35 - Mounting Post for MB5, 35", for curb mounting
- MP41 - Mounting Post for MB5, 41", ground level mounting
- UMK - Universal Mounting Kit (requires MB2)

Standard Mounting Height - 58"
ADA Mounting Height - 48"
*****NOTE**: Mounting Height Is Subject To Local Codes.***

MATCH™

- Interface To Readers Other Than ScramblePad
- ABA Format
- 26-55 Bit Standard Wiegand Format
- 75 Bit GSA Format
- One MRIB Required Per Door

****NOTE: MRIB available as board only (MRIB), or as an assembly (MRIA), which includes mounting base and bezel and requires Hirsch Mounting Box. Integrated MATCH functionality included standard with all DS47L ScramblePads. Separate MATCH required for custom formats.**

MATCH™ - cont.

Readers Supported

- Magnetic Stripe
- Bar Code
- Wiegand
- Proximity
- Smart Card
- FIPS-201 PIV Readers
- Biometric
  - Hand Geometry
  - Finger Print
  - Retina Scan
  - Iris Scan
  - Facial Recognition
- Smart Card / Biometric Combination

DIGI*TRAC™

Controller Models

- Model **M1N** – 1 Door Access Control
- Model **M2N2** - 2 Door Access Control
- Model **M8N2** - 8 Door Access Control
- Model **M16N2** - 16 Alarm Inputs
- Model **MSPN2-8R** – 8-32 Relay Outputs
- Model **M64N2** – 64 Relay Outputs

Key Hardware Features

- NEMA Style Enclosure
- Conduit Knockouts
- Removable Door
- Medeco Key Lock
- Tampered Enclosure
- 10 AMP Door Relays
- Dedicated Alarm Relays
- Internal Power Supply
- UPS With Battery
- Memory Battery
- Fused Power Circuits
- Parallel Printer Port
- Relay Status LEDs
- Diagnostic LEDs
- CCM - Command & Control Module
- UL294 on Model 2 & 8
- Single or Dual Technology, Entry and Exit Readers on each door

*DIGI*TRAC Expansion Options*

- AEB8 - 8 Input Alarm Expansion Board
- REB8 - 8 Output Relay Expansion Board
- SNIB - SCRAMBLE*NET Interface Board (Built in to M1N)
- SNIB2 – Onboard 10/100 Ethernet Input, 128 Bit AES Encryption
- MEB/BE - Memory Expansion Board, Buffer Expansion
- MEB/CB64 – Code Expansion to 68,000 Users
- MEB/CB128 – Code Expansion to 132,000 Users

****NOTE: All DIGI*TRAC controllers come standard with a SNIB installed. Each DIGI*TRAC controller can accommodate up to 5 total Expansion Boards (4 after counting the included SNIB), except the Model 64 can only accept 4 total. Only 1 MEB/CE or CB per controller and a maximum of 4 AEB8 per controller, except 2 AEB8 in Model 16. No REB8 can be added to Model 64. The Model 1N will not accept any Expansion Boards.**

SCRAMBLE*NET

- RS232 or RS485, Optically Isolated
- Encrypted - HES with SNIB
- Hardwired, Fiber Optic, Leased Line
- 1 Controller Up To 50' on RS232
- 16 Controllers Daisy-Chained Up To 4,000' on RS485 With Net*Adapt1
- 16 Controllers With NET*MUX4, Daisy-Changed / Star Wiring
- NET*MUX4 - I Input, 4 Output. Each Port RS232 or RS485
- Dial-Up to Remote Sites

X-BOX

- RS232 and RS485 Output
- Up To 16 Controllers Each
- Off-loads Controller Polling and Encryption From PC

SNIB2 – XNET2 Protocol

- 10/100 Ethernet Input
- RS458 Output Downstream
- Built-In X-Box Functionality
- 128 Bit, NIST Certified, AES Encryption
- SNIB Downstream Support

WIRING REQUIREMENTS

DIGI*TRAC

Controller To Reader
2 Pair, Stranded, Twisted, Overall Shield
22 AWG - 750'
18 AWG - 1800'

Controller To Door Lock
1 Pair, Stranded, Twisted, Shielded
18 AWG (distance function of resistance)

****NOTE: Only Run In Same Conduit As Reader or Line Module Wiring if twisted, shielded.**

Controller To Line Module
1 Pair, Stranded, Twisted, Shielded
22 AWG - 3000' (DTLM2/MELM2)

SCRAMBLE*NET

RS485 - 2 Pair, Stranded, Twisted, Overall Shield, 22 AWG - 4,000'
RS485 downstream with SNIB2 – cat5
RS232 - 3 Conductor, Stranded, Overall Shield, 22 AWG - 50'

LINE SUPERVISION MODULES

Required For All Monitored Devices. Digitally Processed, Analog Inputs

2 Styles

- DTLM - Screw Terminals
- MELM - Flying Leads

3 Versions

- 1 Input - Alarm
- 2 Input - Alarm, RQE
- 3 Input - Alarm, RQE, Tamper