


*Velocity is management software for access control and security operations. Seamless integration of door control, alarm monitoring, credential enrollment, photo badging, video, dynamic graphics, database management and tutorials yields an easy to use and easy to install system suitable for a single door or an enterprise. Velocity utilizes Hirsch's DIGI*TRAC controllers in a distributed processing architecture to ensure system reliability for the simplest to the most mission critical applications.*

Features

- Interoperability - XML/API Enabled
- AES (Rijndael) Encryption Options
- DVR Interface
- Optimized for Windows® 2000/2003/XP
- MS SQL Server Database
 - Runtime version included
- Multi-Monitor Support
- Controller Communications
 - TCP/IP (AES with SNIB2)
 - Serial Port
 - Dial-in/Dial-out
- Dynamic Status Viewer with Control
- Dynamic Graphic Objects
 - For Status, Alarm & Control
 - By Point or By Zone
 - Imported Map Drawings
- Photo Capture, Photo Badging and Photo Call-Up
- User Configurable GUI
- International Language Options
- Controller Firmware in Flash ROM
- Online Diagnostics
- Scheduling Wizard
- Email Alarm and Event Notification
- Data Import/Export Wizard

Description

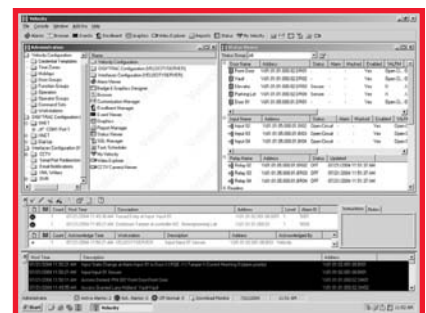
Velocity runs on Microsoft® Windows 2000/2003/XP operating systems. Windows 2000/XP Pro are used for the Single User and Client Workstations. Windows 2000/2003 Server are used for the Server. Velocity uses Microsoft's SQL Server database, and can reside on a local area network (LAN) or wide area network (WAN).

The following modules make up the User Interface:

- Administration (Explorer format)
- Velocity Configuration
- DIGI*TRAC Configuration
- Interfaces Configuration
- Alarm Viewer
- Badge & Graphics Designer
- CCTV Camera Viewer
- Customization Manager
- Enrollment Manager
- Event Viewer
- Graphics
- Report Manager
- Status Viewer

- SQL Manager
- Task Scheduler
- Tutorials & Help
- Video Explorer
- Diagnostics

The Graphical User Interface (GUI) is user configurable by the Operator and returns at log-on to the screen layout left at log-off. Many modules and components can be docked (top, bottom, left or right), or floated to another monitor in a multiple monitor configuration.



Operator Management

Velocity uses Windows Active Directory for initial Operator Authentication.

The Name & Password used to log onto the operating system also assigns operator privileges within the Velocity application. User defined Rights and Permissions restrict access to critical Velocity components and functions. Rights determine which Operator Group can view or modify a Configuration Tab, Report, Graphic, etc. Permissions restrict individual Operator access to functions, such as the ability to clear alarms, forgive passback, reset credential counts, etc.

The "Switch User" feature permits another Velocity operator to become the operator of record in the Velocity Application without logging off and back into the Operating System.

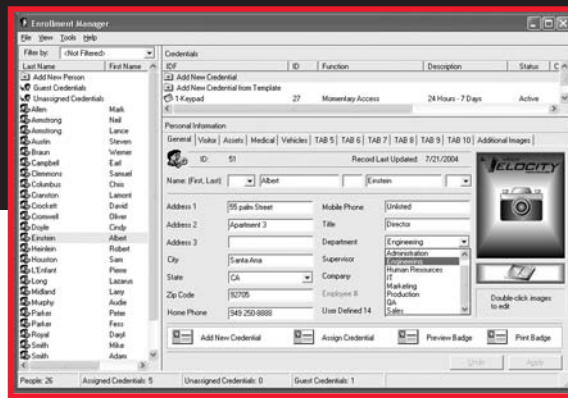
Enrollment Manager

The Enrollment Manager consists of three panes: All Personnel, Personal Information, and Credentials. The All Personnel Pane is a spreadsheet-like view of the primary User Defined Fields. Filters and search criteria are available to locate a Person by any field, such as "Last Name," "State" or "Company." Throughout Velocity, clicking on a column header will sort by that column for "on the fly" arrangements.

The Credential Pane displays Function, Status, Expires On, Last Access Time, Last Door, Tag Status, Alert Status and the card Hot Stamp Reference Number.

In addition to the person's name (Salutation, First, Middle, Last, Suffix), Photo and Signature, there are 999 User Defined Fields (assignable to 10 tabs) and Additional Image Fields. The user can define the labels, their color, and whether a field is mandatory or can support standard text entry, an enforced dropdown list of entries, or a dropdown list of entries with the ability to enter text.

User defined fields can be used for address, phone number, hair color,

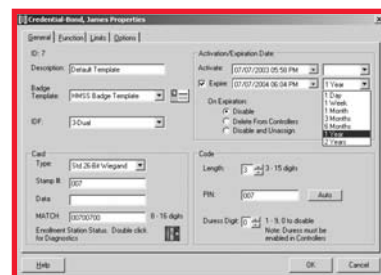


medical information, training statistics, emergency contact, company, etc.

The "Credential Template" reduces keystrokes, errors and time when adding credentials. Multiple credentials can be assigned to a person and each can be a different technology such as: Wiegand, ScramblePad®, ScrambleProx®, ScrambleSmart™, Proximity, Magnetic Stripe, Bar Code, Biometric, or Smart Card (MIFARE, DESFire, PIV).

Credential parameters include:

- Badge Template
- Activation & Expiration Dates
- Card, Code, Dual, Code+Card, Code+Dual, Card+Dual, All
- Functions (Access, Relay, Alarm, Password, Special) with associated Door Group or Control Function
- Limits (including global) for Day, Use, and Absentee - with Auto-Delete Option
- Two Person Rule with A, B, and Executive Designations
- Threat Authority Level
- User Tagging & Alerts
- Duress Operation
- Special Needs Time Extension



A Door Group is a global list of authorized readers with associated Time Zones. Control Functions for Relay and Alarm also provide for time based control functions such as Trigger, Force On, Lock Down, Mask, Start Exit Timer – even a Special Function to set the Threat Level in designated controllers. Control functions can be used for security measures or for control of elevators,

HVAC, lighting, etc. A credential can perform multiple functions, but only one function per controller.



The Enrollment Manager allows the operator to capture images such as photos, signatures or driver's licenses from a file, a TWAIN device (e.g., a scanner) or a video camera for use with a printed badge. The photo can be used with Photo Call-Up on selected doors to display who is going through the door.

Data Import/Export Wizard

The Data Import Wizard takes supplied data from a delimited file (.txt or .csv) and inserts new people and photos into the personnel database, builds credentials from templates, and automatically downloads credentials to the controllers. Personnel data, credential information, and images are easily exported to a delimited text file (flat file) with the Data Export Wizard.

XML & API Interoperability

The Velocity Web Server is XML enabled to accept a variety of Velocity commands from 3rd party applications and to return responses and lists to those applications. The XML Writer can route selective or all alarms and events over designated TCP/IP ports. An Application Programming Interface (API) allows exchanging Person and Credential information with a 3rd party application. The XML/API Software Development Kit (SDK) is ordered separately.

Alarm Monitoring

Velocity presents alarms in both the Alarm Viewer and Graphics. From either, an operator can acknowledge an alarm and enter notes for accountability and a permanent record. The user may define the alarm priority (99 levels), as well as text and/or audio (WAV) instructions by Alarm Type.

The Alarm Viewer has dedicated panes for new and Acknowledged Alarms with columns for Description, Acknowledged Time, Workstation Acknowledged From



and Who Acknowledged. Each point has an icon to indicate the current alarm/normal status, available DVR clips, and a counter to indicate multiple instances.

Active and Acknowledged Alarms, with counts, are shown in the status bar at the bottom of the main window. The Alarm Viewer can be configured to pop up on a new alarm or to be launched by double clicking the counters.

Status Viewer

The Status Viewer provides dynamic information for user selected groups of points. Status, alarm, masking and other data are available for every point in the system. Control functions are also available.

Graphics and Badging

For consistency, Velocity uses the same integrated tools to create badges and construct graphic pages, such as floor plans.

Badge creation is done by dragging Objects from the Object Library onto a “canvas” to create a badge template. Objects include photos, signatures, and text which are linked to the User Defined Fields and Images in the Personnel database. Rich customization options include fonts, colors (text, line and fill), grouping, justification and resizing.

Graphics supports imported drawings using file formats (dxf, bmp, wmf, emf, jpg, gif) typically available as exports from AutoCAD, Visio and other drawing packages. Objects for status and control, embedded onto the drawings, represent Ports, XBoxes, Modems, Controllers, Doors, Readers, Inputs, Relays, DVRs, Cameras, Control Zones, Graphic Links and Command Sets. Objects are dragged and dropped from the Topology Tree in the Object Library onto discrete layers in a Graphic. The user is able to edit or create their own “integrated” objects. Custom embedded links for AXIS IP cameras and HTML web pages are also supported.

Velocity uses Distributed Processing so that all control functions are controller resident.

Operator Control

An operator can issue commands from the Graphics window, the Status Viewer or the Administration window by right clicking an object and selecting from a pop-up menu. Commands include:

- Momentary Access, Unlock or Relock
- Trigger
- Mask, Unmask, or Momentary Mask
- Force On, Force On Release
- Force Off, Force Off Release
- Lock Down, Lock Down Release
- Lock Open, Lock Open Release
- View Cameras

Event Viewer

Velocity provides real-time and historical event monitoring from the Event Viewer. The Event Viewer has columns for the Host Date and Time, the Description of the Event and the system address of the source of the event. The Controller Date and Time can be added when the controller is in a different time zone than the Host (server).

Custom Event Filters can be created with criteria for Port, XBox, Controller, Point and Event. Hundreds of predefined events include: operator activity, alarms, changes of state, system initiated changes and system status changes.

Report Manager

Velocity has over 75 standard reports under the following groups:

- Customization Reports
- DIGI*TRAC Configuration
- History Logs
- Person Information
- Velocity Configuration

By default, Velocity has a wide-open criteria and ascending sort order by most significant field. Custom criteria and sort parameters can also be selected to create virtual custom reports. Custom reports can be derived from standard reports or created using Crystal Reports® (V 10.0).

Once generated, a report may be pre-viewed, printed, sent via email or saved in a variety of file formats (CSV, RPT, XLS, RTF, XML, TXT, etc.).

The Administration Window

The Administration Window presents the software (Velocity Configuration) and the hardware (DIGI*TRAC Configuration) in an expandable/collapsible Explorer-type display. Control and Edit functions are available by right clicking an item and selecting from a pop-up menu. Each tier in the system – Server/Workstation, Port Type, Port, XBox (if present), Controller, Devices (Inputs, Relays, Readers, Doors, etc.) – has tabbed property sheets available for setup and configuration. The Add New Controller wizard provides for a quick setup of the DIGI*TRAC controllers by populating the database with default parameters and allocating the full complement of Readers, Inputs, Relays, and Doors. Alternatively, the setups may be uploaded from an existing controller. The “Add New” function is used throughout Velocity to go directly to another program element and back which makes it easy to add a new Time Zone, Door Group, etc., without having to “back out” of your current dialog.

A simplified Administration Window can be customized to the specific needs of each operator so that only those tasks permitted for the operator appear on the screen. An Explorer-type view is used to control cameras, command sets, doors, inputs, and relays, as well as view reports.

Task Scheduler

The following tasks can be scheduled to run one time or on a recurring basis: archive history logs, back-up database, dial-up remote controllers, print reports, import/export data, execute command sets, and more.

CCTV Integration

Velocity interfaces with CCTV matrix switchers and camera systems. The Camera Viewer is launched from a camera icon on the main toolbar or a Graphic object. The Viewer provides for Pan, Tilt, Zoom, Iris, Focus and AutoPan control from a mouse or keyboard. Command options include the ability to set or select a preset, to start or end a camera tour, or to call a camera to a monitor (or the Viewer).

Systems With Integrity

CCTV Triggers/Actions allow selection of a device (e.g., a door) and associated event (e.g., Access Denied, Unescorted Visitor) to trigger a resulting Action (e.g., Invoke camera Preset # 3, call camera 1 to monitor 2).

Digital Video Recorder Integration

Velocity interfaces directly with the DVR to offer live viewing of video, alarm linking, and stored video playback. For live viewing, a unique Video Explorer supports multiple View Groups created by drag and drop of cameras to a grid of 1, 4, 9, or 16 cameras. PTZ and other control functions are available.

The Trigger/Action Manager defines alarms in Velocity that set a flag in the DVR for later playback. Stored video can be accessed from the Alarm Viewer, an alarm list in the DVR, or the Event History Viewer. Search and retrieval of alarm clips can be done by camera, and by start and end date/time. Selected alarm clips can be uploaded to Velocity for permanent storage and local playback. The Play Video Window supports frame selection, variable speed, pause, image enhancement tools, print and export to AVI and JPG files.

Specifications

PC Minimum Requirements

- Pentium III, 500MHz, 40GB hard drive, CD-ROM, sound card and speaker

for AVI or WAV options, SVGA (XGA recommended) monitor

- RAM: 512MB for Client or Workstation; 1GB (plus 40MB per active client) for Server

Operating System

- Windows 2000/XP Professional: Velocity Single User Workstation or Velocity Client
- Windows 2000/2003 Server: Velocity Server

Database

- Velocity in single-user Workstation configuration on Windows 2000/XP Pro: Requires runtime version of SQL Server 7.0 (MSDE 1.0), included; or SQL Server 7.0 or SQL Server 2000 (not included)
- Velocity on Windows 2000 Server: Requires runtime version of SQL Server 7.0 (MSDE 1.0), included; or SQL Server 7.0 or SQL Server 2000 (not included but recommended)
- Velocity on Windows Server 2003: Microsoft requires SQL Server 2000 (not included)

Communications

- LAN/WAN: Ethernet TCP/IP, Wireless Ethernet (802.11 b/g)
 - LAN I/F to Xbox or SNIB
 - Direct to SNIB2 (includes Xbox functionality): X*Net2 AES encryption
- Serial Port: RS-232
 - X*Net to Xbox
 - S*Net SCRAMBLE*NET™ encryption to SNIB



- Dial-up: RS-232 Serial Port to modem. S*Net protocol.
- Enrollment Station: RS-232
- Parallel Printers: Report (page), Alarm/Event (line) and Photo Badging (Magicard Turbo, Rio, Tango, Rio2, Tango2; Zebra P420i, P520i)
- Video capture via Video Capture Card or USB TWAIN device
- CCTV: RS-232 Serial Port to Matrix Switcher: Pelco 6700/6800/9740, Vicon 1300/1400, AD 2150, Burle TC8100, Panasonic 550 - Video Input: Video Capture Card
- DVR: TCP/IP for video and control to DVR: AD DV16000/8000, or NDVMS. 3 live or playback clients.
- USB supported for serial ports, parallel ports.

DIGI*TRAC Controller Support

- CCM: Version 7.3.08 or later
- Downloadable firmware
- 63 controllers/channel
 - NET*MUX4 required for > 16
- Credentials: 132,000
- Passback: 65 nested zones
- Models supported: M1N, M2N, M2N2, M8N, M8N2, M16N, M16N2, MSPN, MSPN2, M64N and M64N2
- Globalization for I/O, passback, and user limits via Xbox or SNIB2. User limits include absentee limits, use count limits and day limits

Ordering Information

Model #	Description	Comments
VEL	Velocity Software – For Server and Remote Clients	Velocity Server and Client application software. CD installs Single User, Server, or Client. Server supports up to 999 clients, also included. For networks of DIGI*TRAC controllers (CCM-F Version 7.3.08, or higher required for SNIB2). Enrollment, Photo Badging, Dynamic Graphics, Alarms, Events, Control, History, Programming and Editing. Runs on Windows 2000/XP Pro (Single User or Client mode), Windows 2000 Server (Server mode), or Windows Server 2003 (Server mode--requires SQL Server 2000 database, not included). Can utilize SQL Server 7.0 (except when running Windows Server 2003) or SQL Server 2000 database (not included). Runtime version of SQL Server 7.0 (MSDE 1.0) included. Includes CD-ROM, Install Guide & NET*Adapt. SDK for XML/API not included.

Note: Add "-230" to model number for 230VAC NET*ADAPT.



Specifications are subject to change without notice.
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Global Headquarters

1900 Carnegie Ave, Bldg. B Santa Ana, CA 92705 USA
949-250-8888 Fax 949-250-7372

www.HirschElectronics.com

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