Velocity Enterprise Overview for End-Users

TABLE OF CONTENTS

INTRODUCTION

Identiv's physical access control and video intelligence solutions provide the highest security at the lowest cost.

On April 30, 2009, Identiv (then SCM Microsystems) announced the acquisition of Hirsch Electronics Corp., a U.S.-government trusted provider of physical access control system (PACS) solutions since 1981. Hirsch PACS solutions are robust, extremely reliable, feature rich, and while designed and developed with the most secure facilities in mind, are priced to install anywhere.

Hirsch Velocity Security Management System

Identiv's Hirsch Velocity is an integrated software platform that manages access control and security operations in hundreds of different facilities, from single high secure rooms to multi-building, multi-location campuses.

Control doors, gates, turnstiles, elevators, and other building equipment, monitor users as they move around a facility, prevent unwanted access, maintain compliance, and provide a robust audit trail.

- **Scalable, end-to-end security platform**
- **Enrollment, Credential and Badge Management**
- **Event Logging and Photo Callup features**
- **End-to-end FICAM APL solution**
- **Secure FIPS 140-2 encryption**
- **GSA APL compliance**
- **High-security PIV and CAC card populations**
- **Scales to 100s of controllers**
- **Active Directory integration for both users and operators**

SYSTEM ARCHITECTURE

Velocity Core:
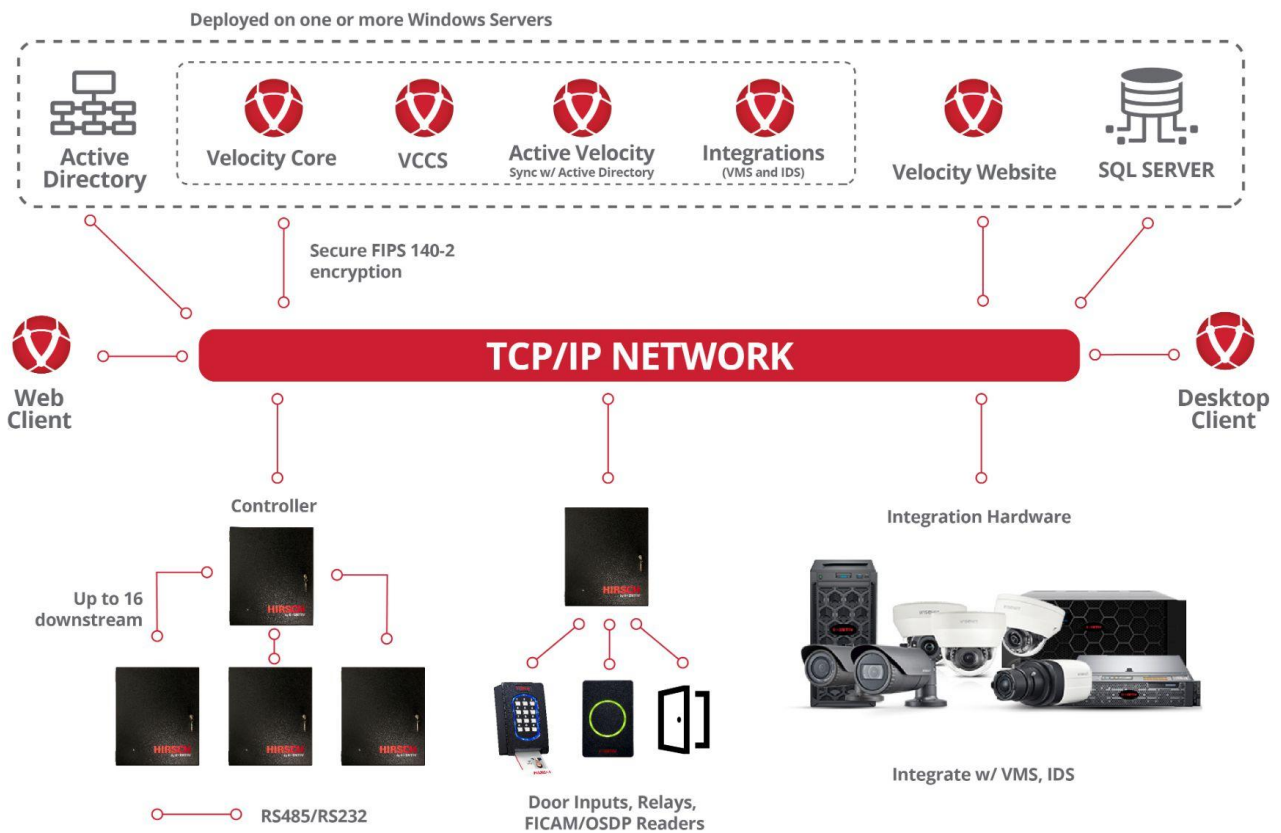Controller communication, web, thick client and integration services

Velocity Desktop Client:
Trusted thick client powering the access control monitoring and access management

Velocity Certificate Check Service (VCCS):
PIV cards Integration

Velocity Desktop and Web Client:
Offer enrollment, guest management, access control management, reports, and alarm and event monitoring

Velocity Web Client:
IIS website offering browser-based connectivity and management through web client

Identiv Controllers:
Lineup of FIPS/FICAM-compliant controllers with offline/disconnected operation capabilities

Deployed on one or more Windows Servers

Active Directory

Velocity Core

VCCS

Active Velocity
Sync w/ Active Directory

Integrations
(VMS and IDS)

Velocity Website

SQL SERVER

Secure FIPS 140-2 encryption

TCP/IP NETWORK

Web Client

Desktop Client

Controller

Up to 16 downstream

RS485/RS232

Door Inputs, Relays, FICAM/OSDP Readers

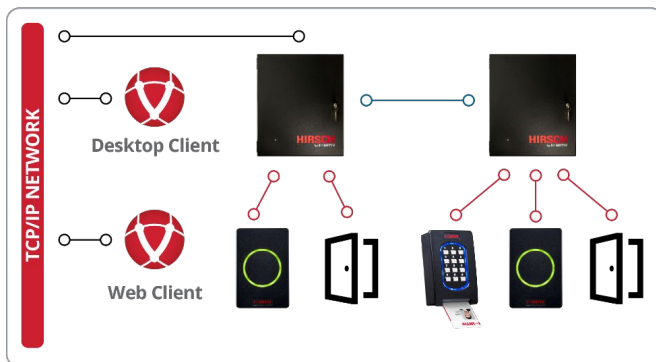Integration Hardware

Integrate w/ VMS, IDS

SAMPLE DEPLOYMENT

A single instance of Velocity can be configured to manage multiple locations. View a sample deployment with the following characteristics below:
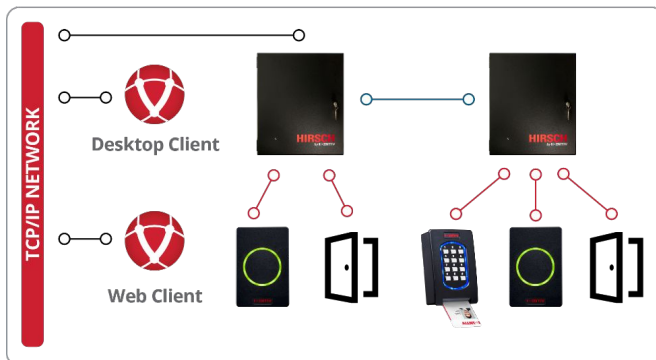
- **Single data center hosting VCCS**

- **Data center has access to MS Active Directory**

- **Two (2) locations: VPN connected to data center of Velocity-specific ports are configured to be allowed by the customer firewall**
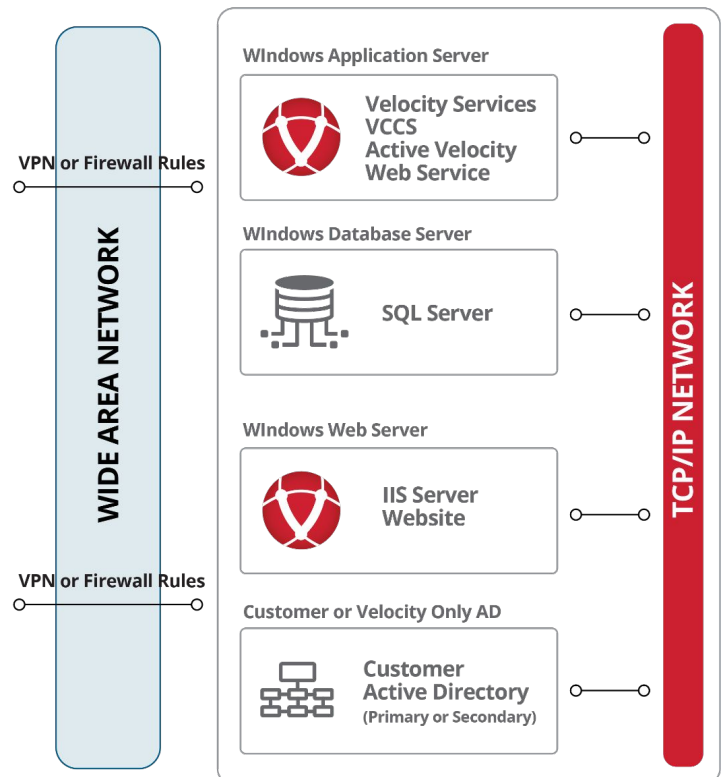
PHYSICAL VIEW

BRANCH #1

TCP/IP NETWORK

Desktop Client

Web Client

BRANCH #2

TCP/IP NETWORK

Desktop Client

Web Client

WIDE AREA NETWORK

VPN or Firewall Rules

VPN or Firewall Rules

REGIONAL DATA CENTER

WIndows Application Server

Velocity Services
VCCS
Active Velocity
Web Service

WIndows Database Server

SQL Server

WIndows Web Server

IIS Server
Website

Customer or Velocity Only AD

Customer
Active Directory
(Primary or Secondary)

TCP/IP NETWORK

LOGICAL VIEW

In the noted two-location deployment scenario, the Velocity application and object permissions can be utilized to partition the users to a group of controllers belonging to a certain location. View a logical diagram with the following characteristics below:

- **Application permission "Group A" and "Group Z" are assigned object permissions for access to controllers installed at Branch #1 and Branch #2, respectively**

- **Group A users can log into Velocity with Branch #1 controllers' access and similarly, Group Z users can log into Velocity with Branch #2 controllers' access**

VELOCITYONE
HYPERCONVERGED INFRASTRUCTURE
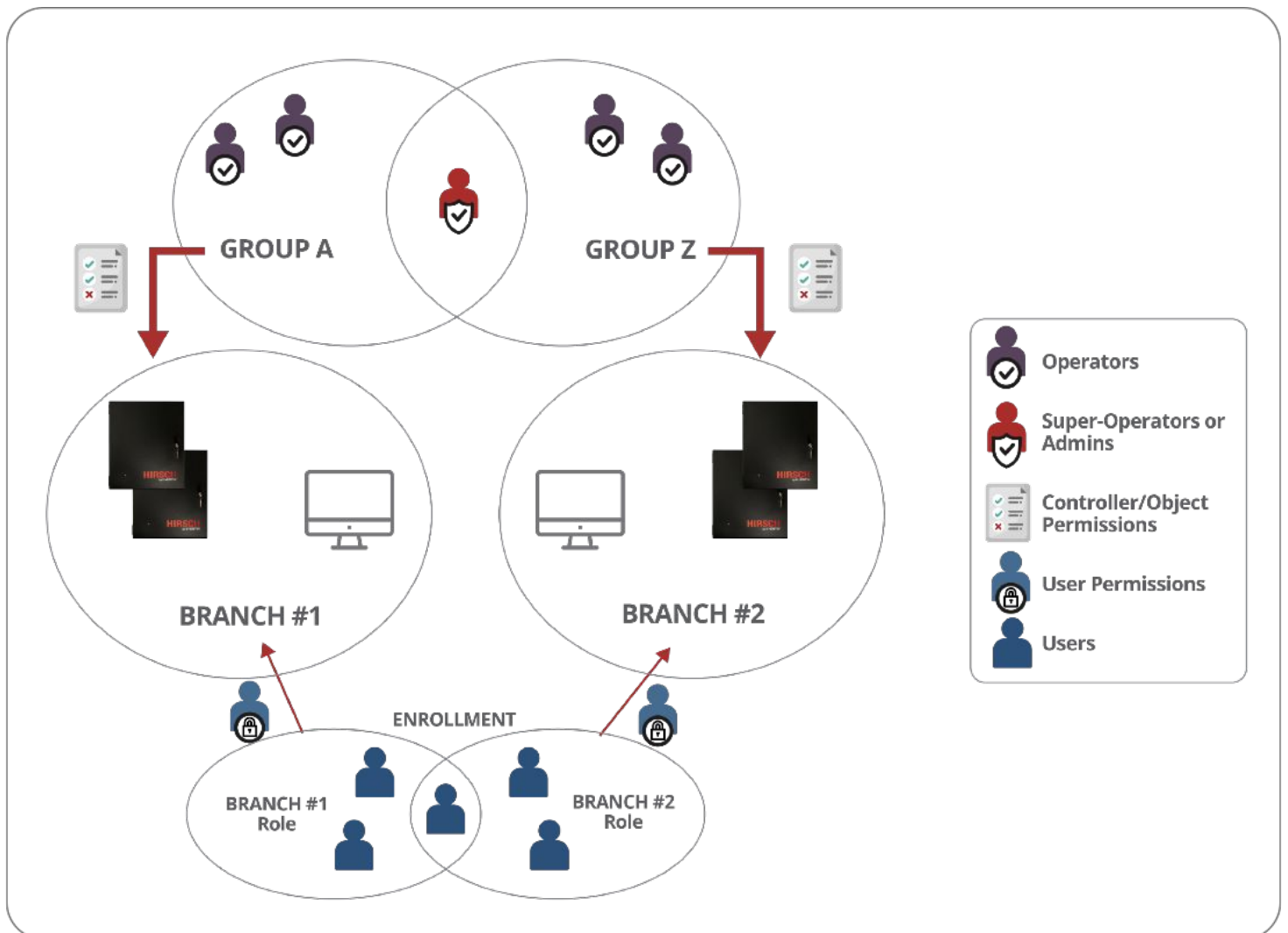
A Virtualized Platform for Velocity Brining Simplicity, Scalability and High-Availability.

Velocity One HCI (hyperconverged infrastructure) brings together virtualization, servers, storage, and backup/disaster recovery into a single solution. Highly automated with machine intelligence, Velocity One HCI is built to eliminate downtime and be easy to manage for any computing environment.

SIMPLICITY

Ease of use and simplified management are what Velocity One does best. Velocity One HCI and HCI//Fleet Manager eliminate mundane management tasks, saving the valuable time of IT administrators to allow them to focus on innovation and improving business processes.
The simplicity of HCI//HyperCore directly impacts IT with higher productivity and lower costs.

SCALABILITY

One of the most challenging tasks for IT can be adding capacity to existing infrastructure. With HCI//HyperCore, the simplicity of design and ease of use allow for seamless scaling. New appliances can be added into a running cluster seamlessly, within minutes, and without disruption to any running workloads.

AVAILABILITY

Intelligent automation, redundancy, high availability, and resiliency are built into HCI//HyperCore in every way, including the option of disaster recovery as a service. With HCI//HyperCore, planned and unplanned downtime can be virtually eliminated, creating more confidence with customers both internal and external.

VIRTUALIZATION

THE OLD WAY

Virtualization **The Old Way**
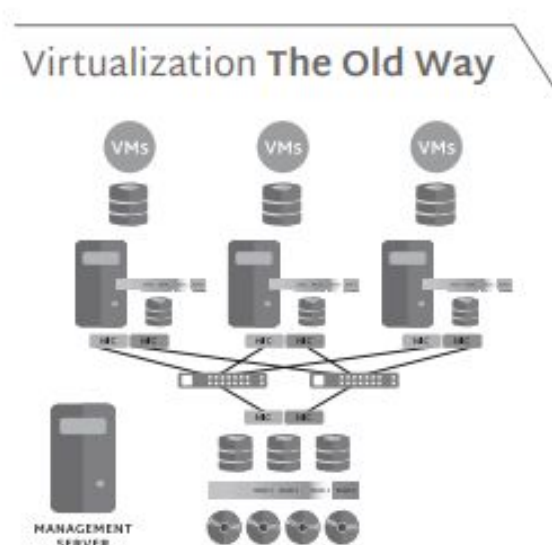
HCI//HYPERCORE
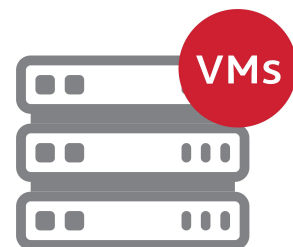
- Web-Based Management
- Non-Disruptive System Updates
- Self-Healing Architecture
- Rapid Deployment
- Backup and Replication
- Seamless Scale Out

Velocity ONE - Hyper Converged Environment

- **All-in-one: servers, storage, virtualization**

- **Simple to deploy and manage Identiv applications**

- **Centralized management**

- **Highly-available, self-healing platform**

- **Scalable: easy to scale out**

- **Consolidate hardware footprint through virtualization**

- **Low TCO and high ROI**

- **Single solution: Velocity, Velocity Vision, Velocity AI**

Edge Computing and Distributed Enterprise

Scale Computing Customers who manage remote sites see the value in HCI//HyperCore for both ease of use and low entry cost. The rapid deployment, self-healing, and remote web-based management capabilities mean that their remote sites can be managed more efficiently and with less cost.

Lowering Infrastructure TCO

HCI//HyperCore was designed to reduce IT infrastructure costs in almost every way. Many of the hidden IT infrastructure costs such as unplanned downtime, management, maintenance, training, and consulting are virtually eliminated with HCI//HyperCore. Other solutions that integrate multiple vendor solutions only add complexity which increases costs.

Backup and High Availability

Features in HCI//HyperCore provide more options to implement local, offsite, and cloud-based DR or to combine with third-party solutions. Customers know their VMs and data are protected.

Virtual Desktops (VDI)

Identiv has validated the solution with VDI vendors allowing customers to implement VDI from the SMB to the enterprise.

Enterprise Features	One Server	Regional Servers	Active Velocity	Velocity Sync Or HR INT	Velocity SDK
Velocity Enterprise					
Operator Administration per Velocity Server	Yes	Yes	Yes	Yes	Yes
Cardholder Administration per Velocity Server	Yes	Yes	Yes	Yes	Yes
Roles based Access Control Administration	Yes	Yes	Yes	Yes	No
Multi-Server Cardholder Administration	No	No	Yes	Yes	Yes
Multi-Server Alarm and Status	No	No	No	No	Yes
Local Alarm Activity	Yes	No	No	No	Yes
Person Groups	Yes	Yes	Yes	Yes	Yes
Velocity Web Services Console	Yes	Yes	n/a	n/a	n/a
Enterprise Card Enrollment	Yes	Yes	n/a	n/a	n/a
Multi-Server Reports	No	No	n/a	n/a	Yes
Agency Enterprise					
Active Directory	Yes	Yes	Yes	Yes	Yes
Scalability	Yes	Yes	Yes	Yes	Yes
High Availability	Yes	Yes	Yes	Yes	Yes
LAN/WAN/Cloud	Yes	Yes	Yes	Yes	Yes
Disaster Recovery	Yes	Yes	Yes	Yes	Yes
FedRAMP Approval	Pending	Pending	n/a	n/a	n/a
Virtual Machines	Yes	Yes	n/a	n/a	n/a

IDENTIV

TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE. REVISION DATE: 2024-04-02