



edge™

deconstructed
deconstructed



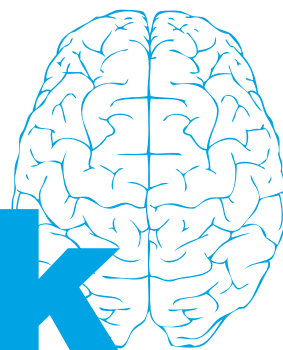
c o n v e r g e n c e

...between IT and physical security
is more than a buzz word,
it is the future.

EDGE is the ideal platform to enable this convergence.

- Open architecture, IP-based solutions are the next evolution of access control.
- The EDGE platform creates an entirely new way to think about access control.

**change
the way
you think**
about access
control





deconstructed



Introducing EDGE™, HID's IP-based, open architecture line of single-reader, single-door access control solutions. Available for access control application developers or as a stand-alone door solution, the EDGE family offers a flexible, cost effective alternative to traditional access control solutions.

BREAK
the mold

EDGE breaks the paradigm of how access control has traditionally been designed and installed.

today's standard.

Information Technology (IT):

- Business runs on information. Information runs on the network.
- Organizations rely heavily on the IT network to manage business processes.
- Disruption is more than an inconvenience: the network is critical because its failure can adversely affect business operations, leading to a loss of revenue.
- Enterprises invest heavily in the IT infrastructure (switches, routers, cable, storage devices, UPS, etc.). Once the infrastructure is in place, peripheral devices (computers, phones, IP cameras, etc.) are attached by standard Category-5 or Category-6 cable.
- IT is driven by standards, interoperability and commoditization of products. This philosophy allows for an investment in a wide selection of product offerings from different manufacturers that retains its initial investment value over time.
- Because a reliable network is key to business success, IT is actively involved with the decision making process for anything that goes on the network, including security systems.
- Going forward, physical security systems should leverage IT's network infrastructure as much as possible, using the same wiring standards and philosophy as the rest of the enterprise.
- This reduces the overall cost of the security systems, and provides maximum flexibility for system changes down the road.

The days of closed wiring systems (telephony or CCTV systems, for example) and proprietary components are quickly coming to an end. The cost to install and maintain them is too high, and is unacceptable to the standards-driven, IT dominated business climate.

closed?
proprietary?
finished.

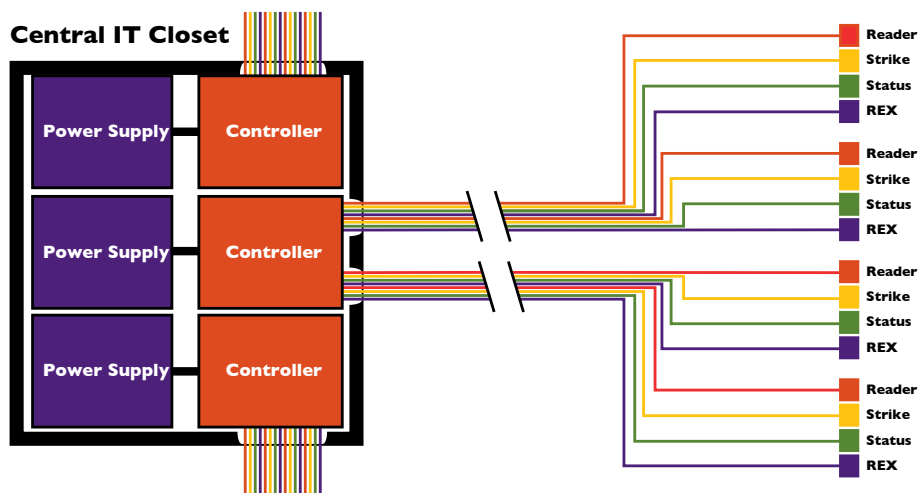


IT's influence over business resource allocation (\$\$\$) conflicts with the traditional access control topology.

Traditional access control topology:

- Based on multi-door controllers and external power supplies mounted in closets
- Bundles of cables (for readers, locks, door contacts, etc.) run to each door.
- Wiring is singular in purpose and expensive to install (generally done under a different contract than the network wiring for the building).
- Controllers are centrally located in closets in order to maximize the capacity.

Traditional Topography



answer:

Intelligence @ the Door™

To address these considerations, HID peered into the future to create a solution that satisfies the demanding needs of both IT and physical security.

- From its inception, EDGE was designed to be part of the IT network infrastructure.
- EDGE was designed to leverage the investment and philosophy of IT departments and help businesses move away from proprietary architectures to a more open environment.
- EDGE was designed to provide a powerful physical access control hardware platform that can work with current and future access control applications deployed by physical security departments.



EVOLUTION

Changing Environment: Bringing Controller-based access control out of the closet

- **Fighting Over Closet Space:** Because IT closet space is valuable real estate, highly protected by IT departments, access control equipment on limited closet wall space can be a HUGE source of conflict during installation planning.
- **It Costs Too Much:** Traditional multi-door controllers are expensive, ranging anywhere from \$800 for a 2-door controller to over \$3,500 for an 8-door controller, plus additional cost for installing all the proprietary access control cable
- **Ouch!:** End-user total cost per door between \$2,000 and \$3,000 per door.

VS.

The Power of Edge

- Rather than putting in dedicated power supplies for EDGE and the locking hardware, EDGE can utilize Power over Ethernet (PoE). [PoE is an IEEE standard (802.3af) that defines how network-connected devices, like IP cameras and wireless LAN access points, can receive power along with data over standard Ethernet cable.]
- Using PoE, there is no longer the need to run a bundle of cables out to a door; all that is needed is a single CAT-5 or CAT-6 cable: one wire, one door. All the access control-specific wiring is done at the door where the runs are short, predictable and manageable.
- EDGE makes access control just another network drop like PC's, Voice over IP (VoIP) telephones and IP cameras, making the planning, budgeting and deployment easier than ever, while cutting the end-user cost per door in half!

REVOLUTION

System intelligence at the door

- Rather than using proprietary, point-to-point communications (RS485 or RS232) for advanced features like read/write or driving LCD displays, EDGE enables this via standard ethernet connection and TCP/IP communications protocol.
- Using this communications standard means that advanced features can now be deployed anywhere over the network, without installing special cabling or needing to be near a computer.
- Additionally, serially connected readers still need a controller to manage the door functions. EDGE has the intelligence to manage the door and the advanced features built in.

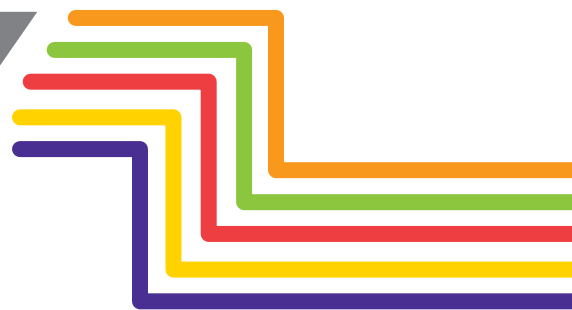
A new level of flexibility in the system design and deployment

EDGE makes all the access grant/deny decisions based on a stored database.

- Unlike traditional access control technologies, EDGE sits at the door, not in a closet.
- Unlike most controllers, EDGE manages a single door; rather than multiple doors.

WORRY

no more



...about where there is a controller with an available reader port!
EDGE can go back to any closet that has a spare IP port.



deconstructed

get WIRED

EVOLUTION

Traditionally, IT “owns” the infrastructure, right out to the end of the network cable, and usually what is connected as well. The wiring out of the closet is done by an IT VAR (Value Added Reseller) who specializes in the installation and certification of network cabling.

With traditional access control, however, IT’s “ownership” ended at the multi-door controller, in the same closet as the network gear. All the access control wiring was installed and maintained by the Security Integrator or Electrician.

REVOLUTION

Edge extends the reach of IT all the way to the door. A system using EDGE leverages the proficiencies of both the IT VAR and Security Integrator.

- An IT VAR is more proficient at network cabling, but does not understand what goes on around the door.
- A Security Integrator understands the door, but is less proficient at network cabling.
- Some Integrators or VAR’s may see this new method of installation as a threat to their existing business. To the contrary, by bringing IT VAR’s and Security Integrators together on projects, new partnerships between these contractors will evolve, further extending the opportunities for each.

break the proprietary paradigm wide-

Historically, access control manufacturers have built proprietary hardware-/ software-based solutions. The hardware and software are designed to work together, but not with software or hardware from other manufacturers.

End-users who have outgrown or have become disheartened with their current solution are faced with the decision to do a “forklift upgrade” (replace the controllers and software) or simply live with the systems’ shortcomings.

The challenge of replacing an entire proprietary system is both financially and logistically difficult.

`o·pin [oh-pin]: adj a combination of the firmware embedded in EDGE (and VertX), the API for development partners and the open architecture philosophy of making this technology available, free of charge, to any qualified development partner`

EDGE is built on OPIN™ technology.

- A solution using OPIN technology breaks this paradigm. With a constantly growing group of OPIN development partners, end-users now have a choice of what software to use with the controllers (EDGE or VertX). Whether during the initial system purchase, or years down the road, a solution built on OPIN means that the investment is never lost.
- Migrating from one software platform to another does not require a physical change to the EDGE or VertX controllers. In most cases, flashing the controller with new firmware, or “pointing” the controller to a new host, is all that is required.



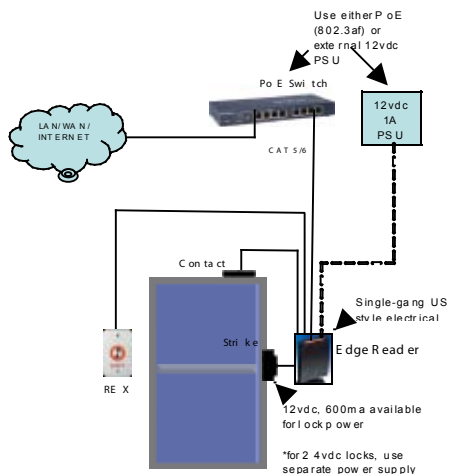
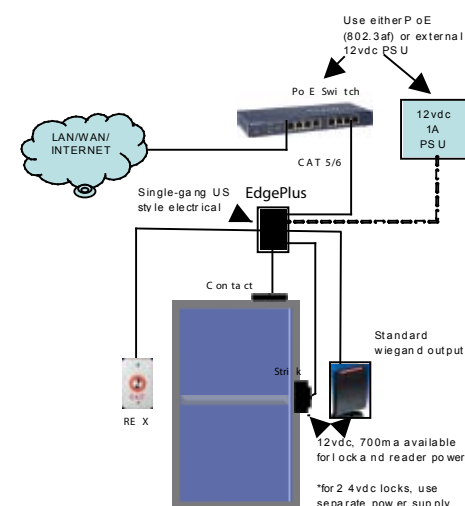
Form factors

EDGE comes in two physical form factors, EdgePlus and EdgeReader, further extending the flexibility of EDGE.

EdgePlus™

A perfect solution for renovations where readers are already installed, or new installations where the reader technology is not iCLASS.

- EdgePlus is a single-door controller.
- About the size of an HID R40 reader, EdgePlus can be mounted anywhere inside a building, but logically fits just inside the protected space near the door.
- EdgePlus accepts any Wiegand output (up to 128 bits) or most HID clock-and-data readers.
- In addition to standard access control functionality, EdgePlus also has the ability to provide read/write functionality to the RW400 reader.



EdgeReader™

EdgeReader is a perfect solution for new installations or renovations that have, or are migrating to, iCLASS technology.

- EdgeReader is a single-door controller with integrated iCLASS reader (RW400 or R40) in a single-piece design.
- About the size of an R40 reader, EdgeReader is mounted just like any indoor card reader on the unsecure side of the door.
- EdgeReader's ability to read cards or control LCD displays is determined by the features and functionality of the integrated reader.

host=

**developer configuration for both
EdgeReader and EdgePlus**

EDGE comes in two different firmware configurations, Edge Host and Edge Solo.

- Host and Solo are available in both EdgeReader and EdgePlus form factors.
- Both configurations incorporate the benefits of EDGE and OPIN.
- By changing the firmware in EdgeReader or EdgePlus, we are able to provide solutions and migration paths for both hosted and stand-alone applications.
- There is no difference in the hardware used with the different firmware configurations, adding to the flexibility and migration capabilities of EDGE.

solo=

**a stand-alone, single-door
access control solution**



Edge Host

Edge Host is the developer configuration for both EdgeReader and EdgePlus.

- Developers are able to use the OPIN API to extend their access control solution beyond traditional topologies, to a single-door IP-based controller.
- EDGE Host should not be viewed as a threat or replacement for the OEM's current controller business.
- This firmware version of EDGE has all the features and benefits of the OPIN API, including the ability to interface with the RW400 reader (either through EdgeReader ERW400 or EdgePlus E400).
- No end-user interface; it is designed to communicate with a host access control application as part of a larger system.
- Only available to our OPIN API development partners (OEM's).

a future beyond its original purpose

Edge Solo

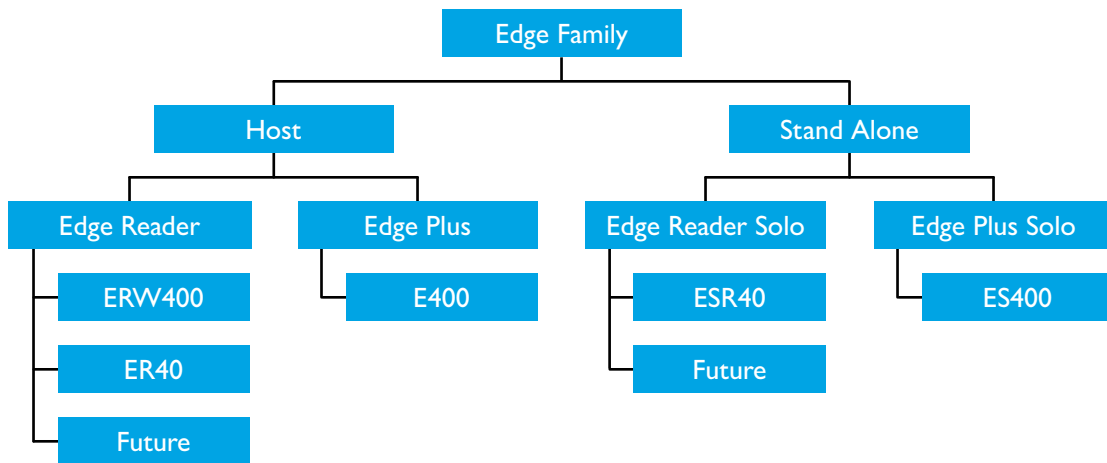
Designed for the entry-level user, Edge Solo is a stand-alone, single-door access control solution.

- Available in both EdgeReader and EdgePlus form factors, this firmware configuration offers a cost effective solution for single door access control, yet has the added benefit of remote management and report generation via standard web browser.
- Browser-based user interface: Specifically designed for the entry-level user, the Edge Solo firmware includes an easy-to-use, plain language, browser-based user interface,
- Edge Solo is based on OPIN Technology, but has been feature-reduced to meet the needs of stand-alone applications.

Most stand-alone access control devices cannot easily be connected to a host-based system to become part of a larger security system. This is by design and is a limiting factor when considering longer range security needs.

- Edge Solo utilizes the same underlying technology (OPIN) as Edge Host, and has been designed to allow OPIN development partners to remotely push Host firmware into Edge Solo, thereby reconfiguring it “on-the-fly” to be part of a larger system.
- During that process, the Solo firmware is replaced by Host firmware, removing the user interface and turning on all of the features of the OPIN API.

The EDGE Line of Networked Access Solutions



**the next
revolution
in physical
access control**



deconstructed

EDGE has the single best long-term and short-term value proposition of any hardware solution on the market

In the 1990s, HID and Indala flipped **ACCESS CONTROL** upside down with the introduction of proximity cards and readers...

CONTROL ACCESS

Here we go again...

Change the way you think about access control.

- IP-based** Managed through a standard web browser. **No software required!**
- Scalable** Remote upgrade to a PoE-based system reader. **No more going to the door to make changes!**
- Simple** Use PoE, one wire to the door powers everything. **No more power supplies!**
- Flexible** Choose integrated iCLASS® reader or use the reader of your choice. **No limit to your card and reader options!**

Edge Solo by HID.

EDGE solo

HID

ACCESS
Intelligence @ The Door.

Introducing Edge Solo, HID's cost-effective, stand alone, single-door IP-based access control solution. Bringing intelligence to the door, this easy-to-use solution enables remote management and report generation via standard web browser. Run through standard CAT-5/6 wiring and able to use PoE, Edge Solo simplifies installation while providing a low fixed cost per door. With a host of development partners specializing in complete security solutions, you never outgrow a Solo. Learn how to take your access control to the Edge by visiting hidcorp.com/edge.

hidcorp.com

EDGE™

hidcorp.com/edge

