



Solution Brochure

# Secure Networking Made Simple

Identity-Defined Networking (IDN)

## The Pitfalls of Networking and Security

One of the challenges that organizations face today is that Internet adoption has grown far beyond what most people ever expected. It's become the backbone of global commerce and communications. Applications driven by commercial, industrial, and government organizations alike, are at the point where secure connectivity from one random endpoint to another has exploded.

The Industrial Internet of Things (IIoT) is no longer a buzz word with increased connectivity across smart buildings, manufacturing facilities, hospitals, oil fields, and more. And cloud services are adding incredible levels of complexity to our overworked networks every day. Keeping up with the demand for secure connectivity has become a staggering, if not impossible task.

There is a better way forward.

## One Solution. Endless Possibilities.

Tempered Networks' Identity-Defined Networking (IDN) unifies networking and security into a single platform and was purpose-built to simply your life. Our intuitive management console makes it easy to instantly connect, segment and manage all your networked devices—across any transport or location.

Unlike other segmentation and software-defined networking (SDN) solutions, our unique 'identity-first' approach has native security and mobility to give you ultimate control and superior flexibility to solve your thorniest networking challenges.

All the benefits of micro-segmenting your network—security, manageability, and availability—are now point-and-click simple.

## How Can Identity-Based Micro-Segmentation Help You?



### Manageable Micro-Segmentation

Point-and-click, device-level segmentation allows you to move the security perimeter to the individual device quickly and easily.



### Secure Access to Any Devices, Anywhere

Machine-to-machine encrypted connectivity between private or unroutable devices—regardless of location or network.



### Sub-Second Workload Failover

Redefine network resiliency with the ability to redirect or failover traffic, for a single device or an entire datacenter.



### Instantly Revoke Compromised Devices

Revoke machine trust or quarantine a device from one or hundreds of networks—in an instant—minimizing negative impact.



### Safeguard Data & Meet Compliance

Hide sensitive systems and data from prying eyes through cloaking, micro-segmentation, machine authentication and authorization, and end-to-end encryption.

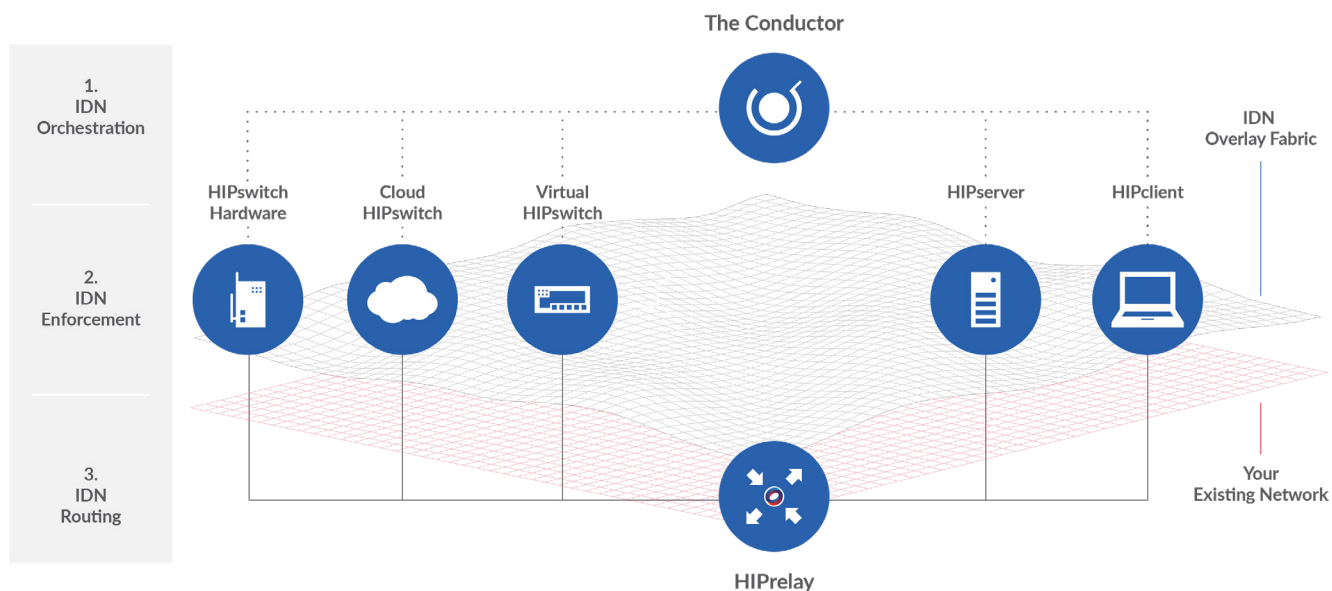


### Unconstrained Workload Mobility

Rapidly move endpoints and systems across hybrid networks—with no IP address modifications and no conflicts.

## How it Works: An Identity-First Architecture

Identity-Defined Networking (IDN) = Orchestration + Enforcement + Routing



The power of IDN is the simplicity of ‘point-and-click’ orchestration and enforcement at scale, with instant overlay networking. Tempered Networks offers the most flexible networking platform, supporting virtually any type of device, virtual or physical machine, or cloud environment.

## A New Standard for Trusted Connectivity

Our solution is based on the Host Identity Protocol (HIP), an open IETF standard. HIP defines network trust relationships based on provable host identity—not by an IP address. Host or device location is still defined by your traditional IP-based infrastructure. IDN shuts out hackers while making it easy for trusted devices to automatically join an IDN overlay network.

**IDN gives you local and wide-area segmentation and works seamlessly over your existing infrastructure – no rip and replace.**

### 1. IDN Orchestration The Conductor

Creates, manages and automates distributed policy to all HIP services and HIPrelay endpoints.

### 2. IDN Enforcement HIP Services

Serves as network policy and security enforcement points using software that runs on or adjacent to any host or instance.

### 3. IDN Routing HIP Relay

Establishes peer-to-peer encrypted connectivity regardless of location or network using identity-based routing.

## Our Customers Experience These Results

50%

Decrease in IT CapEx and OpEx

90%

Reduction in overall network attack surface

97%

Decrease in network and resource provisioning time

50%

Improvement in mitigation, revocation, and quarantine time

50%

Increase in networking and security team productivity

1

Number of seconds needed for failover and disaster recovery

## Instant Overlay Networks Anywhere

Connect, protect, segment, or revoke any device, over any transport, in any location – instantly.

### Any Location

Branch Office  
Campus / Shared Network  
Public and Private Cloud  
Remote Sites

### Any Device

Cloud Workloads and Virtual Machines  
Servers, Laptops, PCs, Tablets, and Phones  
SCADA and Industrial Control Systems

### Any Transport

Cellular  
Radio  
Ethernet  
Wi-Fi



Ditch the never-ending grind and embrace a worry-free network!

Schedule an appointment to get started:

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