

# IDENTITY-DEFINED NETWORKING (IDN)

## Secure Networking Made Simple

Transform how you network, provision, and secure IP resources across your remote, enterprise and cloud infrastructures. Our Identity-Defined Networking (IDN) fabric lets you dynamically connect anything, anywhere – even private and non-routable resources – across physical, virtual, cloud or cellular networks. Tempered Networks’ game-changing architecture – based on cryptographic identities – makes IDN easy, scalable and seamless. Through our unified secure networking platform, complexity is abolished and point product investments are eliminated.

### A broken trust model forces network and security complexity

The fundamental flaw that drives most of today’s networking and security challenges is that TCP/IP lacks the most basic mechanisms for network flexibility and security, such as trusted identities, authentication or encryption. This leads to IT teams having to implement many different solutions and technologies that are complex and do not scale.

### Fundamentally evolving today’s IP architecture

Our technology leverages the Host Identity Protocol (HIP), a ratified standard-track network security protocol recognized by the IETF community as the next possible big change in IP architecture. HIP represents a paradigm shift in networking that solves the broken trust model in IP networking by separating the role of an IP address as both host identity and topological locator, where hosts are identified using strong cryptographic identities.

### Identity is the future of networking

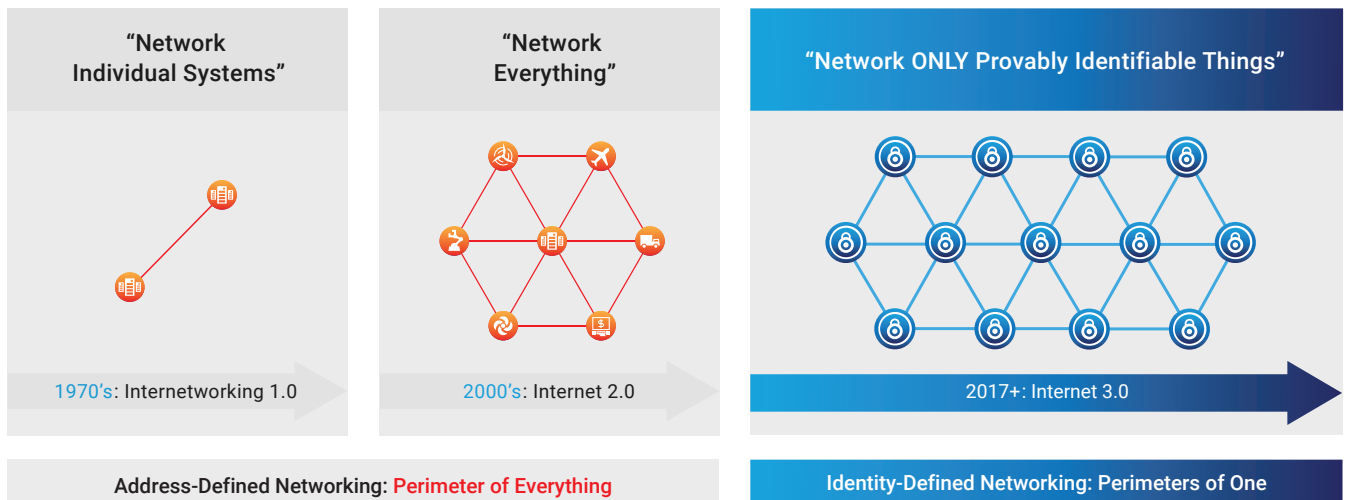
Our vision is to make provable host identities the foundation of secure networking, easily creating flexible and secure networks for organizations. By unifying and simplifying networking and security, it is now easier than ever before to give the right devices and individuals access to the right resources.

Internet 1.0 was about simple connectivity, networking all PCs and users giving access to early versions of IP networks. The current era, Internet 2.0, has been focused on networking everything, like mobile devices and IoT nodes.

The time has arrived for Internet 3.0, moving beyond the old address-defined networking paradigm—blindly networking everything—to networking only cryptographically identified devices.

## The End of IP Address–Defined Networking

Moving beyond IP Address-Defined Networking to Identity-Defined Networking



# Easily and rapidly build flexible secure networks



## Simple

Rapid 3-click network provisioning & revocation



## Flexible

Global connectivity & mobility for any device



## Secure

Safeguard assets with unbreakable segmentation & cloaking

## Evolve without disruption with a proven technology

Our technology has been in production for over 10 years at a Fortune 50 company and recently commercialized for the broader market. It's a proven alternative to traditional networking that is non-disruptive, can be deployed on top of any IP network, and is extensible across all networking domains, physical, virtual, and cloud. Unlike traditional IP networking and SDN approaches, our solution requires minimal changes to the underlying network or security infrastructure, significantly reducing complexity and the risk of human errors. IDN is also secure by default, with built-in encryption that is seamlessly integrated into our network fabric—no certificates to manage!

## Built-in capabilities of Identity-Defined Networking fabric

Tempered Networks' comprehensive and award-winning networking platform is based on the principle that it must be easy to connect, orchestrate, segment, cloak, move, failover, and disconnect devices.



### SIMPLE ORCHESTRATION

Instantly connect, protect, revoke, and mitigate based on crypto-identities



### BOUNDARYLESS NETWORKING

End-to-end connectivity across physical, virtual, and cloud environments



### LOCAL AND WIDE AREA MICRO-SEGMENTATION

Easily connect and segment non-routable resources across the LAN / WAN with no restrictions



### GLOBAL IP MOBILITY

Eliminate IP conflicts, and enable seamless cloud peering and workload migration



### CLOAK & ENCRYPT EVERYTHING

Move security from the edge to the individual host and make resources invisible



To learn more, email [sales@temperednetworks.com](mailto:sales@temperednetworks.com) or visit [www.temperednetworks.com](http://www.temperednetworks.com).