

CATEGORY **Virtual CPE (vCPE)**

Identity-Defined Networking (IDN) Solution

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IDN TECH WHITEPAPER

Tempered Networks

PUBLIC | PRIVATE

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Description of Company: Tempered Networks is the pioneer of Identity-Defined Networking (IDN), delivering a powerful fabric-based architecture that unifies networking and security and enables mobility. It has been in production for over 10 years in the aerospace and defense industry and recently commercialized for the broader market.

[Tempered Networks in SDxCentral Company Directory](#)

Description of Product: IDN is a next-gen platform for unified, secure networking that delivers fully encrypted, on-demand network provisioning for any resource, anywhere, at any time. 'One-click' trust policies are established based on unique device-based cryptographic IDs, not spoofable IP addresses, and centrally managed using our policy-based orchestration. IDN effectively offers a secure SDN solution and allows customers to leverage connectivity beyond just the WAN, including cellular, WiFi, and satellite networks.

[Identity-Defined Networking \(IDN\) Solution in SDxCentral Product Directory](#)

Solution Demand	Cloud Service Providers, Healthcare, Financials, Government & Education, Retail
Target Market	Both Business and Home
Primarily Sells to	Enterprises
Form Factor	Hardware appliance (COTS), Hardware appliance (proprietary), Software (including installable SW package/Virtual SW appliance/VNF in NFV deployments), As a Service (XaaS) in the cloud
Layers of the OSI Directly Controlled	Physical L1 connectivity, L2 connectivity, L3 connectivity, L4-7 traffic - for optimization, security etc
Featured Network Elements	Customer Premises, Central Office/Point-of-Presence, Regional/Enterprise Data Center, Transport Network - including optical, copper (physical) and MPLS (logical)
CPE Functions	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> L3 Routing Capabilities <input checked="" type="checkbox"/> L2/Network Services <input checked="" type="checkbox"/> Multi-Network Capability
Security Capabilities	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Built-in L4 Security Capabilities

Value Proposition	Explicit trust between your data center, remote locations, and the public/private cloud instances is not only possible with Tempered Networks, but simple and practical. Instantly connect, protect, segment, move, failover, and disconnect devices and resources anywhere in the world, with unprecedented speed and simplicity. IDN significantly reduces IT complexity, is simple to orchestrate, and requires no modification to the underlying network, applications, or infrastructure. Devices connected within the encrypted IDN fabric are natively cloaked and invisible to hacker reconnaissance, and protected against DDOS, MiTM attacks, IP spoofing and other types of network and transport layer attacks.
Top Use Cases	With Tempered's ability to assign trust down to the device level and centrally orchestrate and manage trust relationships at scale, the use cases are broad. Examples include: Instantly Provision or Revoke Remote Staff, 3rd Party, or Supply Chain Access; Instant Connectivity, Encryption, and Failover Across Managed and Unmanaged Networks; On-Demand Secure Network Provisioning and PCI Compliance; MPLS Replacement, Remote Office Security, and Instant Failover; Secure and Segmented User, Vendor, and Application Access Control; Secure and Segmented Machine-to-Machine Communications.

