

When you know the state of the machines connected to your network, you're security ready.

Verizon Machine State Integrity

Solution brief



Cloud computing, Internet of Things (IoT) and decentralized IT environments have expanded the cyberattack surface. Unfortunately, traditional security tools make it challenging to quickly and reliably determine if your thousands of networked machines – cloud images, servers, routers, switches, gateways and IoT endpoints – remain secure. To change that, Verizon Machine State Integrity offers a new way for enterprises to secure and monitor all network edges. Taking advantage of blockchain technology, Machine State Integrity enables you to detect and validate the true state of all your machines in near real time, at scale and with confidence.

Secure your edges and massive IoT.

Once any one of your thousands of machines gets compromised, it can impact the compliance and integrity of your entire environment. Being able to quickly detect a change in the state of any of your machines enables you to significantly reduce the extent of potential damage. Traditional security tools, designed to monitor siloed network segments, create gaps in the security of your digital business network. Shadow IT makes the situation even worse. Together these forces can result in undetected compromises or detection that comes months too late.

Powered by blockchain technology, Verizon Machine State Integrity significantly facilitates and reduces time to detection by capturing concise state information and continuously monitoring every machine in your environment. It accurately identifies, analyzes and flags changes, giving you an immutable source of truth.

Blockchains defined

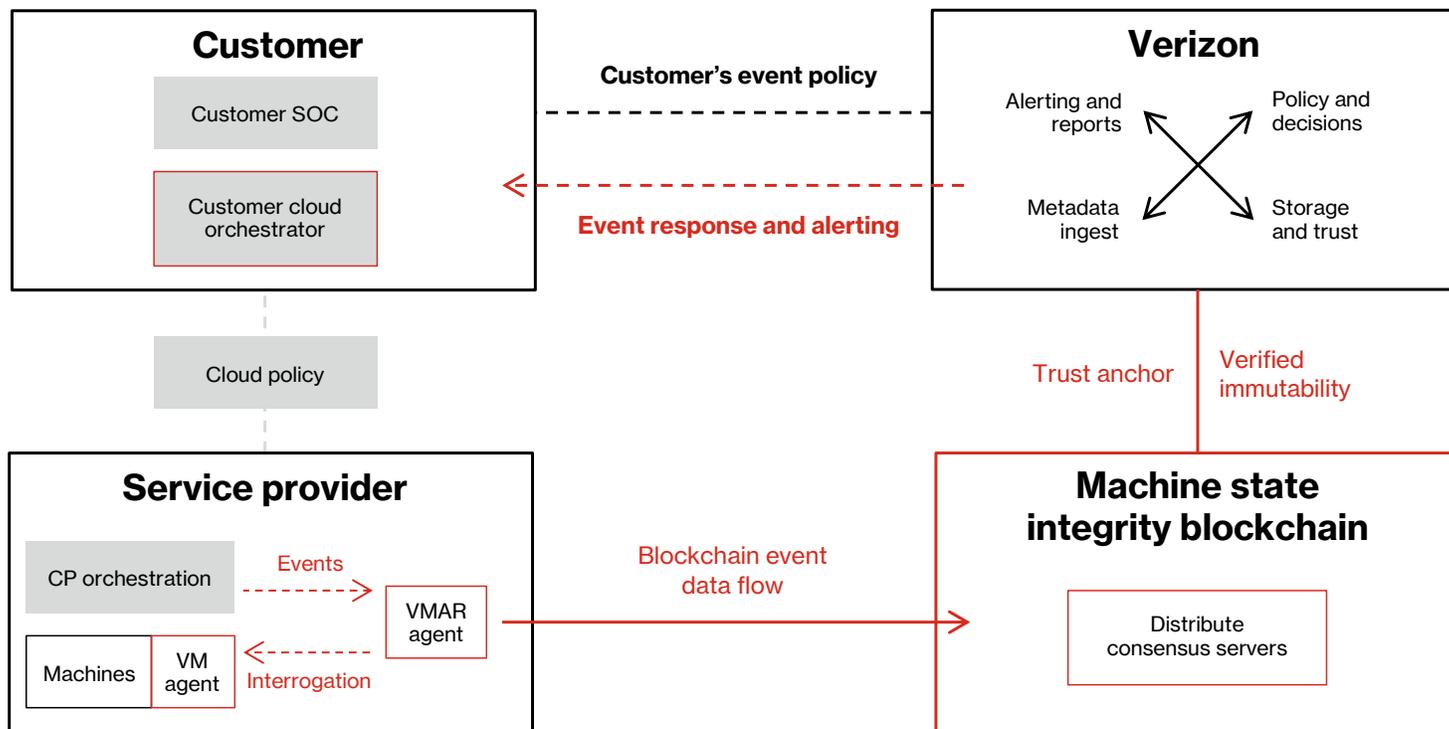
Blockchains create a series of time-stamped, unchangeable data blocks bound together in a cryptographic chain to provide a transparent, tamper-proof and secure shared ledger of records and transactions. They can act similar to an operating system, in that a wide variety of applications can run on top of their secure, shared ledger architecture.

Know your machines. Trust your machines.

As a managed security solution, Machine State Integrity helps you identify in near real time and at scale potential security incidents on your cloud images, servers, routers, switches, gateways, IoT endpoints and other networked devices. Its flexible provisioning lets you enroll and credential machines across your environment to create a trusted ecosystem. Also, if a machine becomes compromised or needs to be placed out of service, you can revoke it immediately.

The platform also ensures secure updates and continuous monitoring of machine firmware, software and configurations. Its continuous monitoring capabilities give you real-time verification of the state of firmware versions, software installations and network configurations. Its alerting capabilities can notify you when machines reach baselines or thresholds that you've defined, as well as help you revoke identity credentials.

Verizon Machine State Integrity: How it works



Gain confidence and trust in edge security.

Machine State Integrity enables you to:

- Decrease security operation costs by automating oversight of the integrity and authenticity of your machines' states
- Reduce time to detection through granular and concise snapshots that let you pinpoint specific event and state changes in near real time
- Enhance entire ecosystem visibility with continuous monitoring and the ability to prove chain of custody for all digital configurations throughout their life cycles
- Cost-effectively scale up edge-to-edge security through the use of blockchain technology to rapidly and efficiently manage, credential, validate and, when necessary, revoke devices

Why Verizon?

We protect global networks for some of the largest companies in the world, with nine security operation centers (SOCs) around the globe and operations in over 27,000 cities worldwide. Plus, the scalability and strength of our carrier grade networks and global infrastructure enable us to host blockchain trust ledgers in a way that provides unparalleled protection against attacks. As your one-stop shop for managed services, we make it easy to get the agility, flexibility and performance you need to help secure your network and adapt to the rapidly changing demands of business.

Learn more.

To find out how we can help you know and trust the machines within your digital business network, contact your Verizon account representative.