

How to help secure your fleet from first boot

Dell SafeSupply Chain

Dell Technologies User Community



Zoom Reminders

- Please note this webinar is being recorded
- If you have a question, please use the chat or put it in the Q&A Section
- Have fun!



We want to hear from you!

Don't forget to participate in our post-event survey!

2 lucky survey participants will be randomly selected to a \$25 Amazon Gift Card!



Upcoming Webinars

SupportAssist for Business PCs Demonstration and Deep Dive

October 24th from 11:00am – 12:30pm CT



TechDirect: IT Admin Onboarding and Self-Dispatch

October 28th from 11:00am – 12:00pm CT



—
Meet our
speaker!

dtuc.

DELL TECHNOLOGIES USER COMMUNITY



Tom Bentz

Product Marketing Manager

Dell Endpoint Security

Agenda

- Cybersecurity State of the Union
- How Dell Approaches Supply Chain Security
- Dell SafeSupply Chain solutions for supply chain assurance
 - Platform Certificates and SCV
 - Other Supply Chain Offers for North America
- Summary and resources



Cybersecurity State of the Union

Endpoints are an Expanding Attack Surface

69%

of organizations report at least one hardware or firmware level attack¹



Unsafe Hardware

62%

of network breaches in 2021 attributed to supply chain vulnerabilities²



Supply Chain Compromise

82%

of breaches were driven by individual error, e.g., phishing attack²



Social Engineering



Replication Through Removable Media



External Remote Services



Valid Accounts

¹Futurum Group Survey, 2023 ²Verizon DBIR Report, 2022

The Threat Landscape

What's keeping IT & security up at night?

Detection of BIOS
firmware events

High-risk
configurations

Validating
device integrity
configuration from
the factory

Source: TechTarget's Enterprise Strategy Group, research sponsored by Dell Technologies, "Assessing Organizations' Security Journeys," November 2023.



Cyber Complexities

Increase in disruptive technology & behaviors on the horizon



Hardware Threats

Counterfeit, taint, & component insertion threats



Supply Chain IT Globalization

Increased IT global dependence & interconnectivity



Software Threats

Intended & unintended vulnerabilities are evolving & dynamic

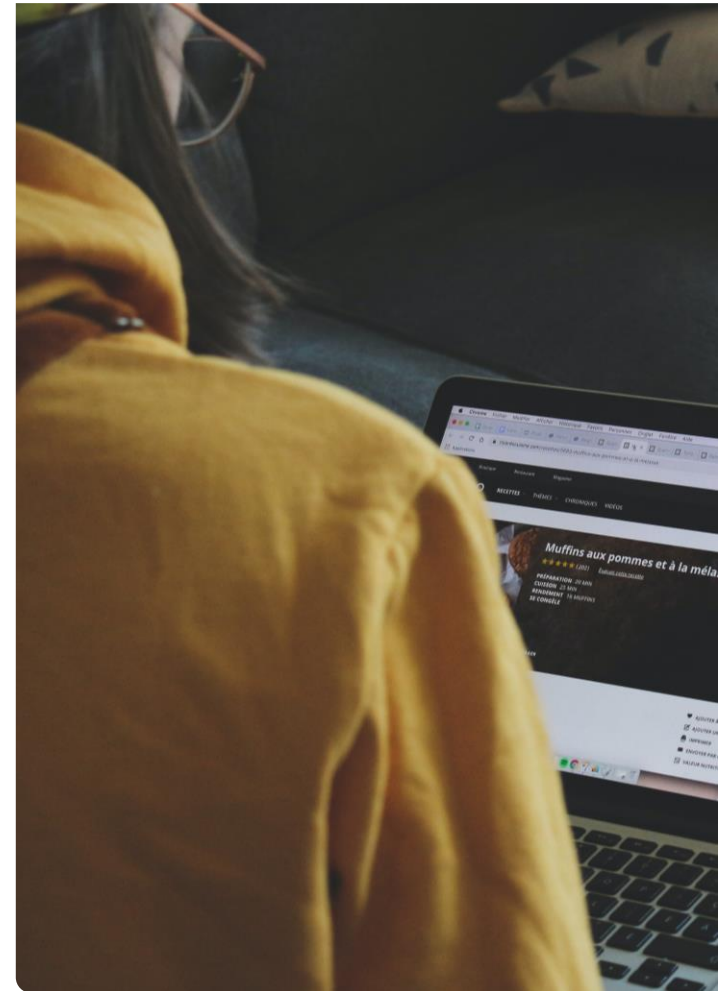


Regulation Risks

Rise in government regulation & industry controls

What else is impacting cybersecurity?

- COVID, cyberattacks and Global Government Security Orders
- May 2021 Executive Order
- IDC validated security tenants
- High profile successful attacks
- Newer Targets: SLED and SMB
- 2022 Global Events



How Dell Approaches Supply Chain Security

Supply Chain Security

Strict supply chain standards are foundational to device security

Innovation

Supply Chain

Manageability

Ongoing Support

Dell's Supply Chain Security initiative takes a comprehensive approach to protect its supply chain and deliver solutions customers can trust

Security



Provides confidentiality, and availability of information



Integrity

Ensures products or services are genuine, unaltered and will perform properly

Quality



Reduces vulnerabilities that may limit function and lead to failure or exploitation



Resilience

Ensures that IT supply chain provides required products and services

62% of supply chain attacks investigated by the European Union Agency for Cybersecurity were the **result of misplaced trust in a supplier**¹

¹ENISA, 2021

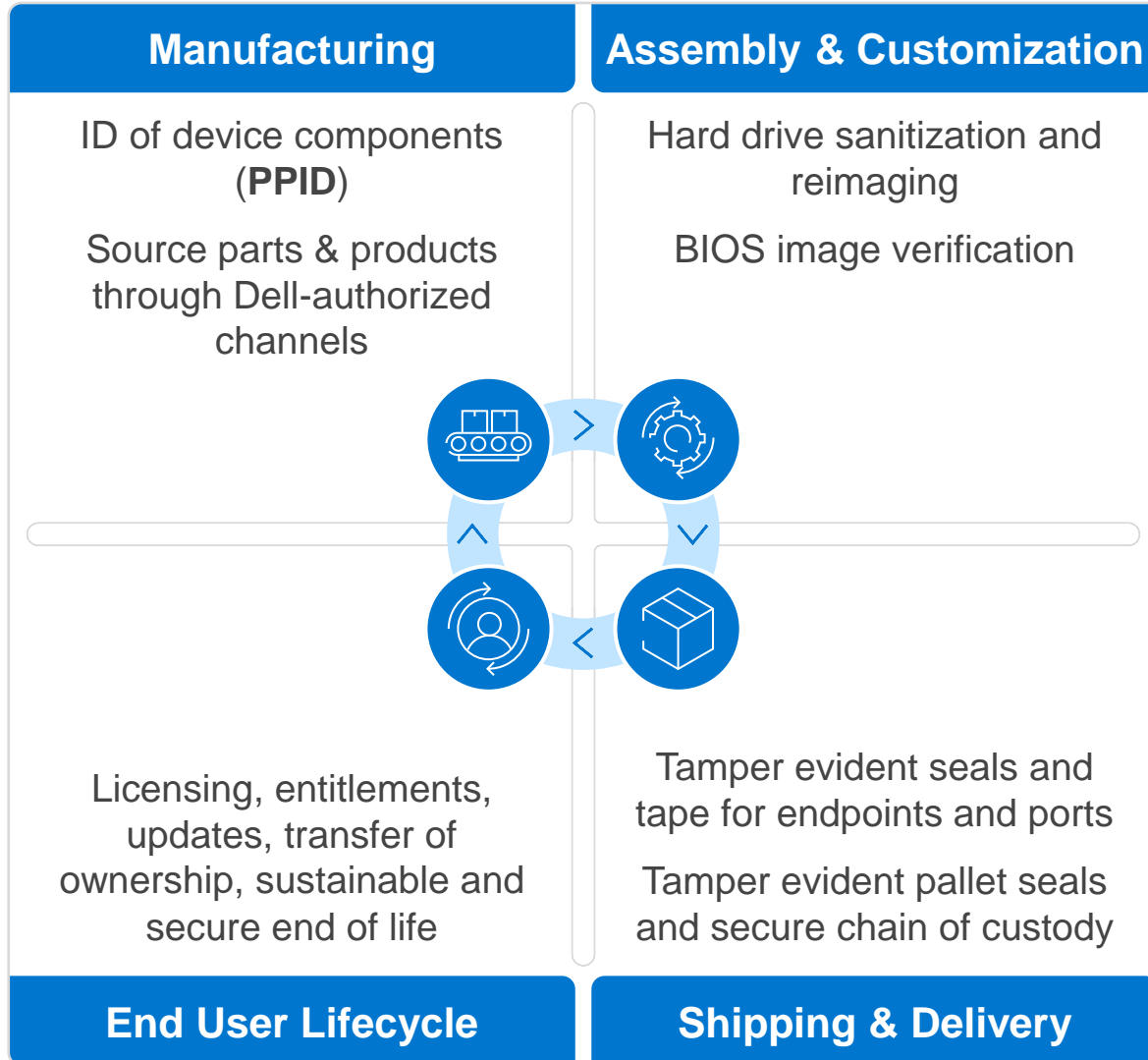
Supply Chain

Innovation

Supply Chain

Manageability

Ongoing Support



Hardware Integrity



Ensure devices are not tampered with or counterfeit components are not inserted before shipping

Software Integrity



Ensure no malware is inserted in firmware or device drivers before shipping to help prevent coding vulnerabilities

Physical Security



Ensure high level of physical security in factories, robust screening and hiring practices, annual compliance training and certification



Hardware Integrity

Ensure devices are not tampered or counterfeit components are not inserted before shipping



Software Integrity

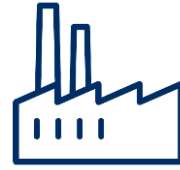
Ensure no malware is inserted in firmware or device drivers before shipping and prevents coding vulnerabilities



Physical Security

High level of physical security in factories, robust screening and hiring practices, annual compliance training and certification

Supply Chain Security



Manufacturing

ID of device components
(PPID)

Parts & products through
Dell-authorized channels



Assembly & Customization

Hard drive sanitization and
reimaging

BIOS image verification



End User Lifecycle

Licensing, entitlements,
updates, transfer of
ownership, sustainable
and secure end of life



Shipping & Delivery

Tamper evident seals and
tape for endpoints and ports

Tamper evident pallet seals
and secure chain of custody



Dell SafeSupply Chain solutions for supply chain assurance

Dell Trusted Workspace



Built-on Software Security

Strengthen the security of any fleet with advanced protection via an ecosystem of best-of-breed partners curated by Dell.

SafeGuard and Response • SafeData

Built-in Hardware & Firmware Security

Prevent and detect foundational attacks with deep defenses at the BIOS/firmware and hardware levels.

SafeBIOS • SafeID

Built-with Supply Chain Security

Trust hardware is tamper-free on delivery with optional paid add-ons for extra supply chain assurance.

SafeSupply Chain

Key Dell SafeSupply Chain Offers

Secured
Component
Verification
(SCV)

Tamper-evident
packaging

Hard drive wipes

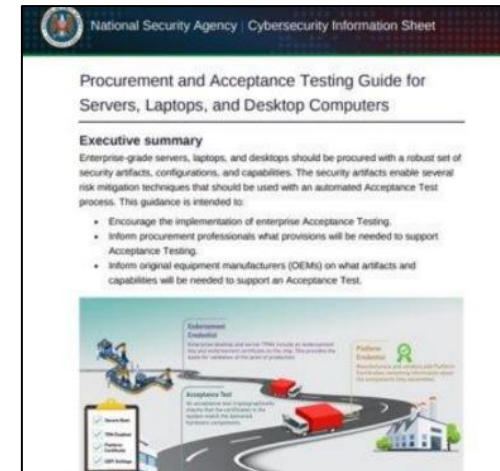
Platform Certificates and Dell Secured Component Verification

What are Platform Certificates?

A supply chain security measure to ensure that high-risk PC components are not compromised or hacked on the way from the manufacturer to the customer


Why All the Talk of Platform Certificates?

- [2021 US Executive Order on Supply Chain Security](#): platform certificates will become mandatory for some segments
- Last year, NSA published a [hardware procurement guide](#) last year that calls for adding platform certificate solutions.
- In fact, it is becoming a requirement for upcoming US Federal purchases



NSA Procurement and Acceptance Testing Guide, Sept 2023

MPO Clause 352.239-XXXX
"Special Requirements Regarding the Purchase of Procurement of Servers, Desktops, and Laptops"
OEM Requirements prior to January 2025



1. Must have a TPM 2.0 or later
2. TPM must have an Endorsement Certificate
3. Must have UEFI latest version with Secure boot enabled
4. Must have a Platform Cert (One for each device)
 1. Must meet requirements in the TCG Firmware Integrity Measurement (FIM) specification
 2. Must be placed in the FIM specified path within the EFI partition

Trusted Computing Group – MPO Acceptance Test Technical Overview (April 2024)

Who is SCV designed for?

- Federal, State and Local Governments who will be required to have additional security measures
- Large companies who will align with similar measures based on US Executive Orders
- Companies that have greater need of IP security protection
- Companies that have more stringent security needs to due to increased compliance requirements (financial, pharmas, for example)

SCV Benefits



- Verify devices are secure through setup
- Enhance IT security
- Improve IT security operations

Secured Component Verification Versions

SCV (on Cloud)
Worldwide;
commercial PCs

SCV (on Device)
North America;
select SKUs

Availability

	SCV (on Cloud)	SCV (on Device)
Available	Worldwide	North America
IT Environment	Cloud-based	Air gapped
Certificate Creation	At factory	At 2 nd touch facility
Verification Certification Storage	Off-host (secure location in cloud via Dell online portal)	On-host (secure location in EFI partition of local hard drive)
Certificate Retrieval	Dell attestation tool with root cert pre-loaded; retrieves platform certificate from Dell cloud. Uses the Dell Trusted Device app and SupportAssist for Business	Customer retrieves root certificate from support.dell.com and platform certificate from EFI partition on local hard drive
Attestation/ Authenticity	Use TechDirect to validate authenticity of PC hardware	Use 3 rd party tool, loads Dell-provided root and platform certificates, validates authenticity on PC hardware
Supported Products	Wide range of devices across Dell commercial lineup, including most recent products.	Select, existing models across Latitude, OptiPlex and Precision

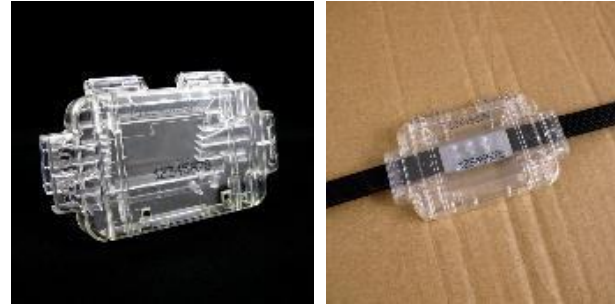
Other Supply Chain Offerings (North America)

Safe SupplyChain – Tamper-Evident Services

Tamper-Evident pallet and product seals available in North America

- Dell **tamper-evident seals** added to seal the system before shipping to final destination
- Dell **tamper-evident tape** added to seal the system box
- Dell **tamper-evident pallet seals** added before shipping to final destination
- Added separately to full pallet orders

Pallet seals



Tamper Evident Seals



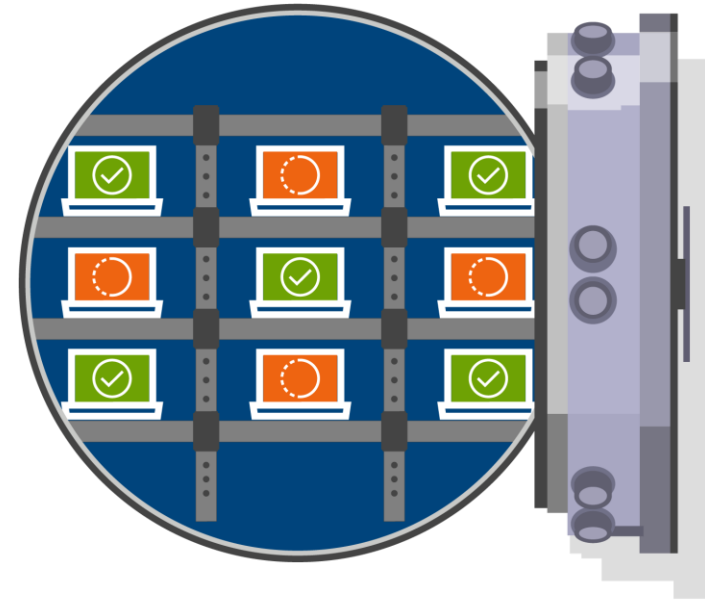
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Example of tampered label

Safe SupplyChain Data Sanitization Services

Device Sanitization and Reimaging

- **NIST 800-88 secure hard drive wipe** mitigates the risk of compromised hard drive firmware prior to imaging
 - **NIST 800-88 Clear**
wipe & sanitization for SSD drives
 - **NIST 800-88 Purge**
wipe & sanitization for HDD drives
- **Hard drive reimaging** according to customer contract specifications



Closing

Summary

How to access solutions

Learn more

Summary



- Supply chain attacks are on the rise
- Dell has market-leading supply chain security and optional supply chain assurance offers
- Secured Component Verification is our platform certificate offer that provides even greater security from factory to setup
- North American customers can gain additional security with tamper-evident seals and tapes shipped from our 2nd touch facility along with SCV (on Device)

Learn More

dell.com/endpoint-security



A Partnership of Trust:
Dell Supply Chain Security

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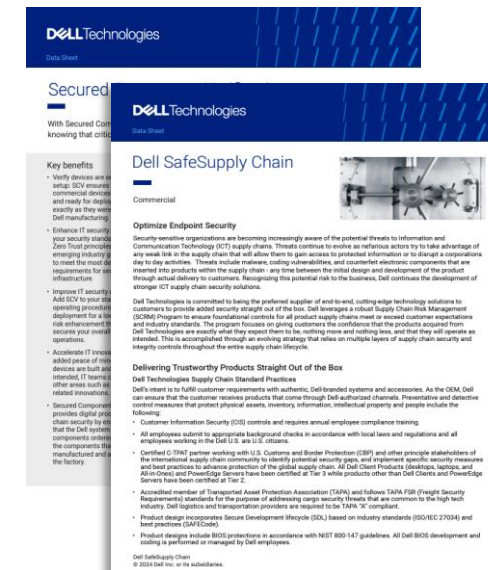
[Dell Supply Chain Security White Paper](#)



[Blog; Keep Device Trust Close to the Vest](#)



[Blog: Shore up Your Defenses](#)



[Datasheets: SafeSupply Chain SCV](#)

Questions?
