FORTRESS
Critical Infrastructure. Secured.

File Integrity Assurance

Continuous File Monitoring Solution for Software Authenticity and Integrity

Today, all organizations depend on IT systems to streamline their operations and support critical business functions. In this environment, software and third-party integrations are ever-evolving, as are processes that can change file configurations and attributes.

Through our File Integrity Assurance (FIA) solution, Fortress continuously monitors all software and files, ensuring their integrity and delivering intelligence to identify known and emerging threats from third-party application patches, updates and more. Because we have the full chain of custody on software, we can provide you with the ability to fully assess risk and take action.

Source Authentication → **File Integrity Validation** → **SHA-256 Hash & Metadata** → **Monitor**

Fortress Reviews Each Product Subscription on a Daily Basis to Assess for Changes.

The FIA interface provides full self-service capabilities and access to our team of experienced security analysts. Full audit details are available for all software sources and files validated this way for easy CIP compliance.

Fortress validates the integrity and security characteristics of all software files by validating code signatures, comparing cryptographic hashes, and analyzing files for malicious functionality using proprietary and industry-leading capabilities for malicious code prevention.

Fortress validates software sources by verifying domain threat intelligence, SSL/TLS and PKI for identity validation and indications of DNS compromise.

407.573.6800 | FortressInfoSec.com | AssetToVendor.com | Sales@FortressInfoSec.com

File Integrity Assurance

Preventing Software Supply Chain Attacks

Today, the need for FIA solutions is greater than ever before.

- Evaluation of software products for authenticity, integrity and origin
- Identification of malicious software
- Compliance and reporting requirements (e.g., NERC-CIP requirements)
- Patch files, along with their information and validation

Fortress Differentiation

1. Strategic focus. We are focused on the entire software supply chain, which lets us be more strategic and comprehensive in our analysis. Continuous monitoring should be comprehensive in our analysis. We offer continuous monitoring, which is important since threats evolve continuously. By comparison, antivirus solutions focus on files, or too many files, which has limited those solutions to reactively flagging file issues each time a scan happens.
2. Breadth and depth. We have the full chain of custody so our assessments include more data points, such as product- and vendor-level data, and we provide the metadata associated with each assessment. In addition, we produce a software bill of materials (SBOM) that identifies software components and foreign ownership, control or influence (FOCI).
3. Operational compatibility. We offer programmatic integration that allows you to do your job more efficiently, e.g. by integrating into your patch delivery process. In addition, Fortress FIA isn't just about risk identification — you can take corrective action based on what we deliver.

Available On-Prem and in the Cloud

Identity & Integrity Checks	Vendors	Patch Providers	FIA Cloud	FIA On-prem
Secure Download (TLS)	N/A	Yes	Yes	Yes
Code Signing	Yes	Yes	Yes	Yes
Hash Comparison	Some	Yes	Yes	Yes
Malware Check	Yes	No	Yes	Yes
Domain Name Server Changes	N/A	No	Yes	Yes
Certificate Ownership & Changes	N/A	No	Yes	Yes
Sandbox Analysis	Some	No	Yes	Yes
Compromised Through Breach	N/A	No	Yes	Yes
Compliance Evidence				
Secure Delivery of Patches/Updates	No or via Postal Mail	No or via Postal Mail	Full - Blockchain	Full - Blockchain
Dashboard of Identity & Integrity	No	No	Yes	Yes
Downloadable Audit Evidence	N/A	No	Yes	Yes
Product-Level Auditing	N/A	No	Yes	Yes
CIP-010-3 Compliant Solution	No	No	Partial	Yes
Asset-Level Auditing (e.g., NERC CIP Compliance)	N/A	No	No	Yes
Integrations				
Strategic Vendor Relationships	N/A	No	Yes	Yes
Integration with Patch Deployment Systems	No	Yes	No	Yes
Integration with Ticketing Systems	No	No	No	Yes*
Optional Vulnerability & Config. Mgmt. Services	No	No	No	Yes*

*In combination with vulnerability risk management module.

Work with Fortress to stay at the forefront of protecting against software supply chain attacks. To get started, call or email us.

407.573.6800 | FortressInfoSec.com | AssetToVendor.com | Sales@FortressInfoSec.com