

nCircle File Integrity Monitor™

Agentless File Configuration Auditing, Monitoring, and Alerting

File integrity monitoring enables organizations to detect unauthorized file system modifications and maintain host integrity, system availability and data confidentiality. This capability is critical today, especially for companies that are governed by regulations and standards that deal with data integrity and privacy such as Sarbanes-Oxley and the Payment Card Industry (PCI) Data Security Standard. Specifically, section 11.5 of the PCI regulations requires *“merchants to deploy file integrity monitoring software to alert personnel to unauthorized modification of critical system or content files.”*

nCircle File Integrity Monitor™ provides an agentless file integrity auditing solution that gives you the ability to monitor an asset’s details all the way down to the file level without requiring software agents on the monitored system. Using DynAgent™, nCircle’s patent-pending agentless technology, File Integrity Monitor compares file details and checksums on designated hosts to stated baselines. Any deviations from the baseline are highlighted in the console, logged, and reported to administrators to intelligently address any changes and ensure continuous security and policy compliance.

The screenshot shows the nCircle File Integrity Monitor interface. At the top, a table lists recent changes with columns for Change ID, Host, Updated, Severity, Risk, and Who Changed. Below this, a detailed view for Change ID 145156 is shown, including host information, category, severity, and a table of property changes. At the bottom, an 'Associated Audit Items' table shows the user actions that triggered the change. Three blue callout boxes highlight the following features:

- Automatically and continuously monitors any number of systems** (pointing to the Host field)
- Monitors file integrity and a dozen other file attributes** (pointing to the Property Changes table)
- Provides an audit trail of all file-level changes** (pointing to the Associated Audit Items table)

nCircle File Integrity Monitor automatically detects any changes made to a host’s files to ensure security and policy compliance

File Integrity Monitor delivers:

- **Agentless File-level Integrity Monitoring and Auditing** – nCircle File Integrity Monitor features DynAgent™, nCircle's patent-pending agentless technology, to help companies audit file integrity across their entire global network without requiring an agent. In addition to automatically discovering what files exist on a host, detailed information about the files is also provided:
 - File size
 - Version
 - When it was created
 - When it was modified
 - The login name of any user who modifies the file
 - Access attributes like Read-Only Access, Hidden, System, etc.

File Integrity Monitor's agentless DynAgent technology delivers the same detailed information as an agent-based solution, with none of the management overhead and complexity.

- **Intelligent Change Analysis** – When a user tags a file for file integrity monitoring, nCircle File Integrity Monitor scans the file to create a baseline. Each time the file is scanned, the current configuration is compared against the original baseline. Any changes to the file are noted in the console as well as in reports. Additionally, File Integrity Monitor can be integrated with existing configuration/change management processes to address any deviations identified, including alerting administrators immediately and automatically open trouble tickets. All changes detected are prioritized based on corporate or regulatory policy to help administrators identify and address the most critical deviations first to help more effectively manage security and compliance.
- **Cryptography-based Monitoring** – As an extra safeguard against file tampering, the solution also monitors file checksums – MD5 or SHA-1 on Windows-based systems and MD5 or any user-defined hash algorithm on Unix-based systems - providing cryptography-based monitoring for file changes.

nCircle file integrity monitoring is available as a standalone solution – File Integrity Monitor – or as part of nCircle Configuration Compliance Manager.