

Orion Failover Engine

ENSURE 24x7 AVAILABILITY FOR YOUR ORION SERVERS

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Orion Failover Engine (FoE) monitors the health of your Orion server to ensure you never lose network performance visibility. If something should happen to your primary Orion server, Orion FoE automatically fails over to a remote server. The passive failover server assumes the full identity of the Orion server and assumes all monitoring, alerting, reporting, and data collection responsibility. Orion FoE's switchover is an automatic, seamless process that ensures Orion data collection continuity and is completely transparent to the user.

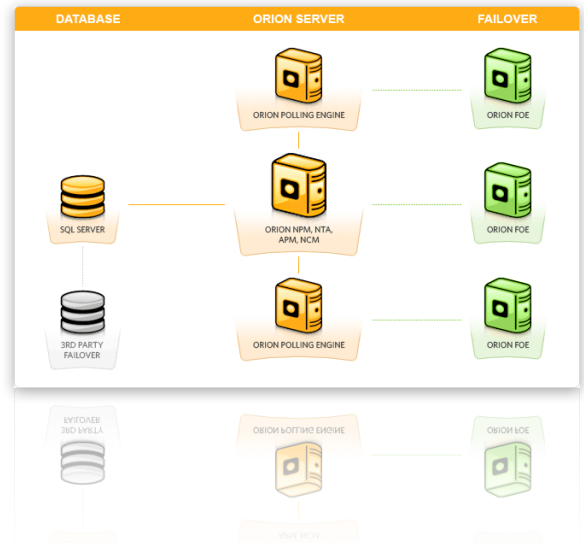
Solarwinds Orion Failover Engine Protection

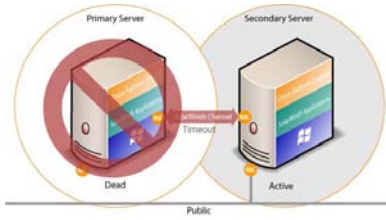
The SolarWinds Orion Failover Engine is a Windows-based service specifically designed to provide high availability protection for SolarWinds Orion installations without requiring any specialized hardware. Orion FoE provides protection for the following:

- Servers
- Applications
- Networks
- Performance
- Data

Key Features:

- Provides **two-minute failover** for your business-critical network management system
- Delivers **instant e-mail notification** if key health thresholds for your network management system are crossed
- **Supports the customization of failover rules** which can trigger based on application, system, process, and service health thresholds
- **Provides high availability and ensures business continuity** with real-time monitoring of your Orion implementation (including Orion modules and polling engines)
- Saves time by **automating failover tasks** such as creating processes, restarting services, or updating DNS records
- Prevents downtime with almost **instantaneous automated failover** when component failures occur
- **Minimizes WAN traffic** during disaster recovery scenarios by leveraging WAN data compression optimization

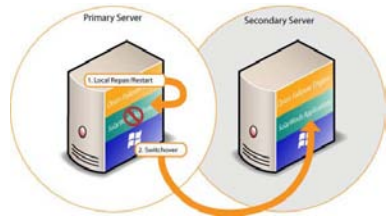




Server Protection

Should the production server fail, Orion FoE protects the network identity of your production server ensuring that users are provided with a replica server including server name and IP address.

- Installed on a primary (“active”) server and secondary (“passive”) server
- Failover initiated when passive server detects that the monitoring process has failed
- Passive server immediately assumes the active server role



Application Protection

Orion FoE enables you to maintain your application environment by ensuring that network applications and services stay alive.

- Orion FoE on the active server uses plug-ins to monitor the applications and services it has been configured to protect
- If the protected app fails, Orion FoE attempts to restart the application on the active server
- Orion FoE initiates switchover if the restart fails

Network Protection

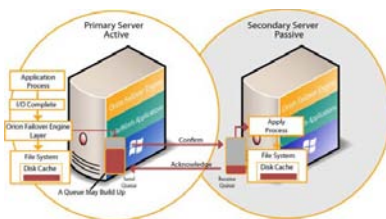
Orion FoE proactively monitors the network by polling up to three nodes to ensure that the active server is visible on the network.

- At regular intervals, polls defined nodes around the network including the default gateway, the primary DNS server, and the global catalog server
- Initiates a failover if all three nodes fail to respond, allowing the secondary server to assume a network identity identical to that of the primary server

Performance Protection

Orion FoE proactively monitors system performance attribute to ensure notification of problems to allow for preemptive action to prevent an outage.

- Monitors application attributes to ensure they remain within normal operating ranges
- Establishes rules to trigger specific corrective actions when these attributes fall outside their respective ranges



Data Protection

FoE intercepts all data written by users and applications and maintains a copy of this data on the passive server that can be used in the event of failure.

- Protects files, folders and registry settings on the active server by mirroring in real time to the passive server
- All protected files are available on the secondary server after a failover

System Requirements



Other Profiler Products:

- Virtual & Server Profiler
- Backup Profiler

ORION FAILOVER ENGINE REQUIREMENTS
SUPPORTED SOLARWINDS ORION MODULES
SolarWinds Orion Core Services 2010.0
Orion NPM v10.x
Orion APM v3.0
Orion IPAM v1.6
Orion IPSLA Manager v 3.5
Orion NTA v3.6
Orion NCM v6.0
Orion EOC v1.2
SUPPORTED OPERATING SYSTEMS
Windows Server 2003 x86 Standard or Enterprise, SP1 and SP2, and x64 Enterprise SP2
Windows Server 2008 x86 or x64, SP1 and SP2, and R2
MEMORY
1GB (2GB recommended) in addition to any other memory requirements for the operating system or SolarWinds Orion modules.
DISK SPACE
2 GB of Available disk space in the installation drive