

# Nex Software Deployment Guide

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## Operational Overview

*InvoScape | Nex Endpoint Management and orchestration platform*

### 1. Overview

Nex provides centralized software deployment for managed Windows workstations and servers. Administrators can prepare software packages on the Nex Server, target managed endpoints and review deployment results from the Nex management console.

Centralizing the software deployment reduces the need to manually install applications on individual devices and provides a more consistent way to distribute approved software across a Windows environment.

### 2. How Software Deployment Works

Software deployment is coordinated by the Nex Server and carried out on the endpoint by the Nex Agent. Package content is held by the Nex Server and made available to managed endpoints when deployment activity is assigned.

At a high level, the workflow is:

1. Prepare the software package and required installation information.
2. Add the package to Nex.
3. Select the intended managed device or deployment target.
4. Create or initiate the deployment.
5. Allow the Nex Agent to receive the deployment instruction.
6. The endpoint obtains the required package content from the Nex Server.
7. The Agent executes the deployment on the managed device.
8. The deployment result is returned to the Nex Server for administrator review.

### 3. Preparing Software Packages

Software should be tested before being added to a broad Nex deployment. Administrators should understand the application's installation behavior, command-line requirements, restart behavior and any prerequisites.

- Use trusted installation media from an approved source.
- Confirm the installer supports the intended Windows versions.
- Determine the appropriate unattended or silent installation command where required.
- Understand installer return codes and reboot behavior.
- Test installation and removal procedures before wider deployment.
- Keep package names and versions clear so administrators can identify deployed software.

## 4. Package Storage and Distribution

Nex stores deployment package content on the Nex Server. Managed endpoints obtain required package content from the Nex Server as part of the deployment workflow.

Because Nex is self-hosted, software distribution can remain within the organization's network. This can be particularly useful where businesses want to avoid uploading internal application packages to an external cloud management service simply to deploy them to their own Windows devices.

## 5. Targeting Deployments

Administrators should deploy software to clearly defined targets. Initial deployments should be limited to representative test devices before the package is distributed more broadly.

- Confirm the intended device or device group before deployment.
- Use controlled pilot devices for new or changed packages.
- Verify application compatibility with the target operating system.
- Avoid deploying untested packages broadly across production endpoints.
- Review the outcome of the pilot deployment before expanding the target.

## 6. Monitoring Deployment Results

Nex records software deployment results returned by managed endpoints. Administrators should review these results to confirm successful installation and identify devices requiring investigation.

A failed deployment should be investigated before repeatedly resubmitting the package. The installation result, endpoint state, installer requirements and relevant Nex Agent logs should be reviewed first.

## 7. Common Deployment Issues

| Condition                             | Initial Check                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| Device does not receive deployment    | Confirm the Nex Agent is reporting and the intended device is correctly targeted.             |
| Package cannot be obtained            | Confirm the endpoint can reach the Nex Server and the package content is available.           |
| Installer fails                       | Review the installer command, return code, prerequisites and operating-system compatibility.  |
| Installation requires reboot          | Review the application's documented reboot behaviour and the deployment result.               |
| Deployment works on some devices only | Compare operating-system versions, prerequisites, permissions and existing application state. |
| Result is unclear                     | Review Nex Agent logs and the software installer's own logs where available.                  |

## 8. Security and Control

Software deployment gives administrators the ability to execute installation activity across managed endpoints and should therefore be controlled in the same way as other privileged IT administration functions.

- Only approved administrators should create or initiate software deployments.
- Packages should come from trusted and verified sources.
- Installation commands should be reviewed before production use.
- Test packages before broad deployment.
- Retain appropriate package and deployment records for operational review.

## 9. Business Benefits

Centralized software deployment can reduce the time required to install and update applications across multiple Windows devices, improve consistency and reduce the need for administrators to work on endpoints individually.

Nex's self-hosted model allows organizations to use their own infrastructure for package storage and management. This keeps software distribution under the organization's control and can reduce reliance on cloud-hosted endpoint-management infrastructure and associated cloud consumption requirements.

## 10. Recommended Deployment Practice

- Test every new package before production deployment.
- Begin with a small pilot group.
- Confirm deployment results before expanding the target.
- Document installation commands and package versions.
- Investigate failed deployments before retrying.
- Keep obsolete package content under administrative control.
- Review Nex Agent and installer logs when deployments behave unexpectedly.

## 11. Related Documentation

- Nex Product Overview
- Nex System Requirements
- Nex Deployment, Security & Technical Guide
- Nex Administrator Guide
- Nex Windows Patching Guide
- Nex Agent Deployment Guide