

# **ABBYY® FineReader PDF**

Handbuch für Systemadministratoren

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**Urheberrecht** 

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# Installations- und Aktivierungsverfahren nach Lizenztyp und Produktversion

Verfügbarkeit der Bereitstellungsmethoden für jeden Lizenztyp

	Einzelplatz	Pro Platz	Gleitlizenz	Remote-Benutzer
Installation auf einem Computer (Standard-Softwareinstallation)	+	+	Nicht empfohlen	+
Installation auf einem Terminal Server	-	-	+	+
Installation auf mehreren Computern: Administratives Installationsverzeichnis	-	+	+	+
Installation auf mehreren Computern: Administratives Installationsverzeichnis mit automatischer Aktivierung	-	+	-	-

## Bereitstellungsmethoden

### Installation auf einem Computer (Standard-Softwareinstallation)

1. Diese Methode eignet sich für alle Lizenztypen, mit Ausnahme der **Gleitlizenz**.
2. Ist FineReader installiert, muss es aktiviert werden.

## Installation auf mehreren Computern

Sie können für die Installation von ABBYY FineReader auf mehreren Computern ein administratives Installationsverzeichnis erstellen und ABBYY FineReader von einem Server aus für die Arbeitsplatzrechner bereitstellen.

ABBYY FineReader wird vom Server aktiviert.

### 1. Erstellen einer administrativen Installation

#### Administrative Installation mit Lizenzserver und License Manager

- Auf den Arbeitsplatzrechnern wird keine Internetverbindung benötigt.
- Der License Manager wird benötigt.
- Das Produkt kann in verschiedenen Subnetzen installiert werden. Dafür muss eine TCP/IP-Verbindung konfiguriert werden. Weitere Informationen finden Sie unter [Wie kann ich die Netzwerkverbindungseinstellungen ändern?](#)<sup>63</sup>

#### Administratives Installationsverzeichnis für mehrere Benutzer mit Einzelplatzlizenzen und automatischer Aktivierung

- Auf den Workstations wird eine Internetverbindung benötigt.
- Der License Manager wird nicht benötigt.
- Mit diesem Verfahren kann FineReader auf Computern in verschiedenen lokalen Netzwerken bereitgestellt werden.

### 2. Bereitstellungsverfahren

**Installieren Sie ABBYY FineReader auf Workstations anhand eines der folgenden Verfahren:**

- **manuell im interaktiven Modus**
- **über die Befehlszeile**  
 Sie können die Hintergrundinstallation verwenden. Während der Installation werden keine Dialogfelder angezeigt.
- **Active Directory**
  - Dieses Verfahren kann mit der **Gruppenrichtlinienverwaltung** für die Bereitstellung von FineReader für bestimmte Computer oder Domänengruppen verwendet werden.

- Spezielle Menüelemente und Optionen, die eine Internetverbindung benötigen, können ausgeblendet werden. Auch das Softwareverhalten kann geändert werden. Weitere Informationen finden Sie unter [Verwenden einer Gruppenrichtlinie zur Konfiguration von ABBYY FineReader 16](#)<sup>55</sup>.

- **Microsoft System Center Configuration Manager (SCCM)**

Dieses Verfahren ist größtenteils automatisiert.

## Installation auf einem Terminal Server

Mit einer **Gleitlizenz** oder **Remote-Benutzer-Lizenz**:

1. Wenn Sie diesen Lizenztyp wählen, müssen Sie ein administratives Installationsverzeichnis erstellen und License Server und License Manager installieren.
2. Für die Aktivierung von ABBYY FineReader PDF muss der License Manager verwendet werden.
3. Ein Lizenzserver sollte auf einem Rechner bereitgestellt werden, der für alle Terminal Server jederzeit zugänglich ist.

# Bereitstellen von ABBYY FineReader PDF 16 in einem lokalen Netzwerk (Installation auf mehreren Computern)

ABBYY FineReader PDF kann in einem lokalen Netzwerk installiert und verwendet werden.

Durch die automatischen Installationsverfahren können Sie ABBYY FineReader PDF Corporate schnell und flexibel in einem lokalen Netzwerk installieren, da das Programm nicht manuell auf den einzelnen Workstations installiert werden muss.

ABBYY FineReader kann über jeden Computer bereitgestellt werden, auf dem Microsoft Windows 10 (oder eine spätere Version) ausgeführt wird.

Die Bereitstellung erfolgt mit den folgenden Schritten:

## 1. Administrative Installation

- Installieren von ABBYY FineReader PDF License Server und ABBYY FineReader PDF License Manager

Ausführliche Informationen erhalten Sie unter [Installieren von License Server und License Manager](#)<sup>[12]</sup>.

**Hinweis:** Der Computer, auf dem ABBYY FineReader PDF License Manager installiert ist, wird zur Lizenz-Administratorstation.

- Erstellen eines administrativen Installationsverzeichnisses

Ausführliche Informationen erhalten Sie unter [Erstellen eines administrativen Installationsverzeichnisses](#)<sup>[14]</sup>.

**Hinweis.** Wenn sich Lizenzserver und Workstations in verschiedenen Subnetzen befinden, muss eine TCP/IP-Verbindung konfiguriert werden. Nehmen Sie dazu auf dem Computer, auf dem der Lizenzserver installiert ist, die entsprechenden Änderungen am Verbindungsprotokoll und an den Verbindungsport-Einstellungen in der Datei Licensing.ini vor, und kopieren Sie dann die Datei in das administrative Installationsverzeichnis. Weitere Informationen finden [Wie kann ich die Netzwerkverbindungseinstellungen ändern?](#)<sup>[63]</sup>

**Hinweis.** Das administrative Installationsverzeichnis und License Server können sich entweder auf dem gleichen oder auf verschiedenen Computern befinden.

## 2. Verwaltung der Lizenzen

Die Lizenzen werden mit dem ABBYY FineReader PDF License Manager verwaltet.

Damit die Lizenzen bei der Installation von ABBYY FineReader PDF korrekt auf den Workstations verteilt werden, müssen Sie bestimmten Workstations bei der Zuteilung bestimmter Lizenzen Priorität geben. Dafür sollten Sie Lizenzen und Lizenz-Pools für bestimmte Workstations/Benutzer reservieren.

Ein Lizenzpool besteht aus einer Reihe von Lizenzen, die Zugriff auf das Programm bereitstellen. Pools vereinfachen die Verwaltung von Lizenzen: Sie können beispielsweise mehrere Lizenzen einem Pool hinzufügen und dann den Pool für bestimmte Workstations/Benutzer reservieren, anstatt jede Lizenz einzeln zu reservieren.

Ausführliche Informationen erhalten Sie unter [Verwaltung von Lizenzen](#)<sup>16</sup>.

## 3. Installieren von ABBYY FineReader auf Workstations mit einer der folgenden Methoden:

- manuell im interaktiven Modus
- über die Befehlszeile
- Active Directory
- Microsoft System Center Configuration Manager (SCCM)

Ausführliche Informationen erhalten Sie unter [Installation von ABBYY FineReader 16 auf Workstations](#)<sup>22</sup>.

**Hinweis.** Die 32-Bit-Version von ABBYY FineReader PDF kann nicht auf einem 64-Bit-System installiert werden. Dasselbe gilt für die Installation einer 64-Bit-Version auf einem 32-Bit-System.

### Wichtig!

Legen Sie License Server und das administrative Installationsverzeichnis nicht im selben Ordner ab.

## Voraussetzungen für den administrativen Installationsordner

1. 1.5 GB freier Festplattenspeicher für die Erstellung eines administrativen Installationsverzeichnisses
2. Lesezugriff für den administrativen Installationsordner (z. B. \\MyFileServer\Distribs\ABBYY FineReader PDF) für alle Benutzer, auf deren Computer ABBYY FineReader installiert werden soll.
3. Bei dem Server (\\MyFileServer), auf dem das administrative Installationsverzeichnis erstellt wird, muss es sich um einen Dateiserver mit einem Betriebssystem handeln, bei dem lange Dateinamen unterstützt werden.
4. Beim Bereitstellen von ABBYY FineReader PDF über Active Directory müssen die Konten der Domänencomputer über den Schreibzugriff für den administrativen Installationsordner verfügen.

## Voraussetzungen für den Lizenzserver

1. 100 MB freier Festplattenspeicher für die Erstellung von Lizenzdateien und Konten.
2. Auf dem Server (**\\MyLicenseServer**), auf dem License Server installiert ist, muss Microsoft Windows 11, Microsoft Windows 10, Microsoft Windows Server 2022, Microsoft Windows Server 2019, Microsoft Windows Server 2016, Microsoft Windows Server 2012 R2 ausgeführt werden.
3. Die Anzahl der Verbindungen, die vom Betriebssystem des Lizenzservers unterstützt wird, muss mindestens der Gesamtanzahl potenzieller Benutzer des Programms entsprechen (für **Gleitlizenz** und **Remote-Benutzer-Lizenzen**).
4. Eine stabile Verbindung zum Lizenzserver auf allen Workstations.

## Voraussetzungen für die Lizenz-Administratorstation

1. PC mit Microsoft Windows 11, Microsoft Windows 10, Microsoft Windows Server 2022, Microsoft Windows Server 2019, Microsoft Windows Server 2016, Microsoft Windows Server 2012 R2.
2. Die ausgewählte Sprache für die Benutzeroberfläche muss vom Betriebssystem unterstützt werden.
3. 100 MB freier Festplattenspeicher.

## Voraussetzungen für die Workstation

### Betriebssystem:

- Microsoft Windows 11/10 (64-bit),
- Microsoft Windows Server 2022 / 2019 / 2016 / 2012 R2.

Die von Ihnen für die Benutzeroberfläche ausgewählte Sprache muss vom Betriebssystem unterstützt werden.

### Mindestanforderungen

1. 1 GHz x64 Prozessor oder schneller.
2. 2 GB RAM; in Mehrprozessorsystemen sind für jeden zusätzlichen Prozessor weitere 512 MB RAM erforderlich
3. 1,6 GB Festplattenspeicher für eine typische Programminstallation und 1,6 GB freier Speicherplatz für den optimalen Betrieb des Programms.
4. Grafikkarte und Monitor mit einer Auflösung von 1024x768 oder höher.
5. Tastatur, Maus oder anderes Eingabegerät.

### Empfehlungen

1. 1,5 GHz oder schnellerer x64 Intel® oder AMD Prozessor.
2. 4 GB RAM.
3. 1,6 GB Festplattenspeicher für eine typische Programminstallation und 1,6 GB freier Speicherplatz für den optimalen Betrieb des Programms.
4. Grafikkarte und Monitor mit einer Auflösung von 1024x768 oder höher.
5. Tastatur, Maus oder anderes Eingabegerät.

## Administrative Installation mit Lizenz-Server und License Manager

## Installieren von License Server und License Manager

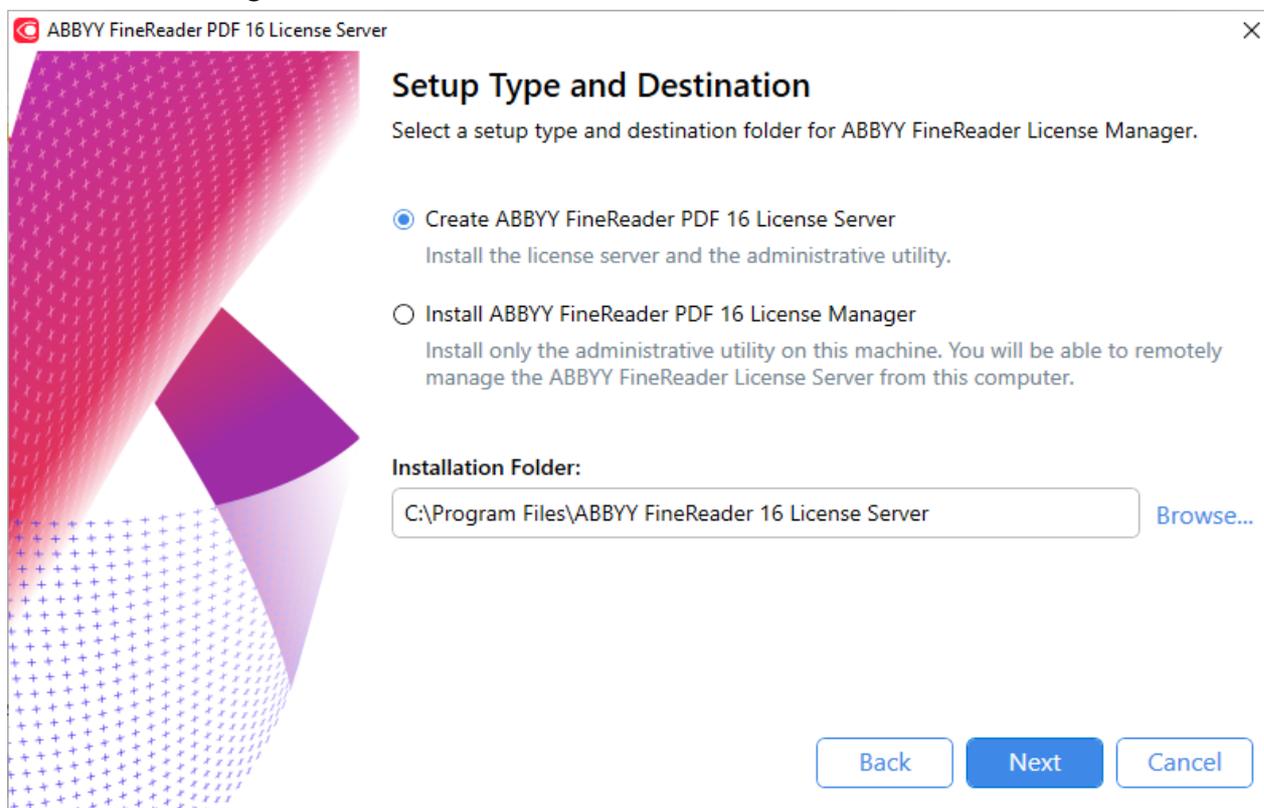
1. Starten Sie die Datei **AutoRun.exe** im Installationsordner und wählen Sie **Masseninstallation > Mit Lizenzmanager installieren und aktivieren > Schritt 1. Installieren Sie Lizenzserver und License Manager**.

Alternativ starten Sie die Datei **License Server\Setup.exe** im Installationsordner.

2. Befolgen Sie die Anweisungen im Installationsprogramm.

Bei der Installation haben Sie folgende Möglichkeiten:

- Installieren von ABBYY FineReader License Server und ABBYY FineReader License Manager. License Server und License Manager werden auf demselben Computer installiert. Sie können einen Ordner angeben, in dem License Manager installiert werden soll.
- Installieren Sie nur ABBYY FineReader PDF License Manager. Sie müssen einen Ordner angeben, in dem License Manager installiert werden soll, sowie den Namen des Computers, auf dem License Server ausgeführt wird.



### Hinweis:

1. Wenn mehrere Benutzer die ABBYY FineReader PDF-Lizenzen verwalten, muss License Manager jeweils auf ihrem Computer installiert sein.
2. Jeder Benutzer muss Mitglied einer der beiden folgenden lokalen Gruppen auf dem Server ein:
  - ABBYY-Lizenzierungsadministratoren
  - BUILTIN\Administratoren

Sie können die Benutzerautorisierung in der Datei **%commonprogramfiles%\ABBYY\FineReader\16\Licensing\NetworkLicenseServer.ini** deaktivieren (oder **%commonprogramfiles%\ABBYY\FineReader\16\Licensing\NetworkLicenseServer.ini** bei Verwendung eines 64-Bit-Systems)

Diese Datei befindet sich auf dem Computer, auf dem License Server installiert wurde. Fügen Sie dieser Datei die folgenden Parameter hinzu:

**[Licensing]**

**EnableManagerAuthorization = false**

**Wichtig!** Die geänderten Einstellungen werden erst nach einem Neustart von ABBYY FineReader PDF Licensing Service wirksam.

## Erstellen eines administrativen Installationsverzeichnis

1. Starten Sie die Datei **AutoRun.exe** im Installationsordner und wählen Sie **Masseninstallation > Mit Lizenzmanager installieren und aktivieren > Schritt 2. Erstellen einer administrativen Installation.**

Alternativ verwenden Sie die Befehlszeile für die Ausführung des folgenden Befehls im Installationsordner: **msiexec.exe /a.**

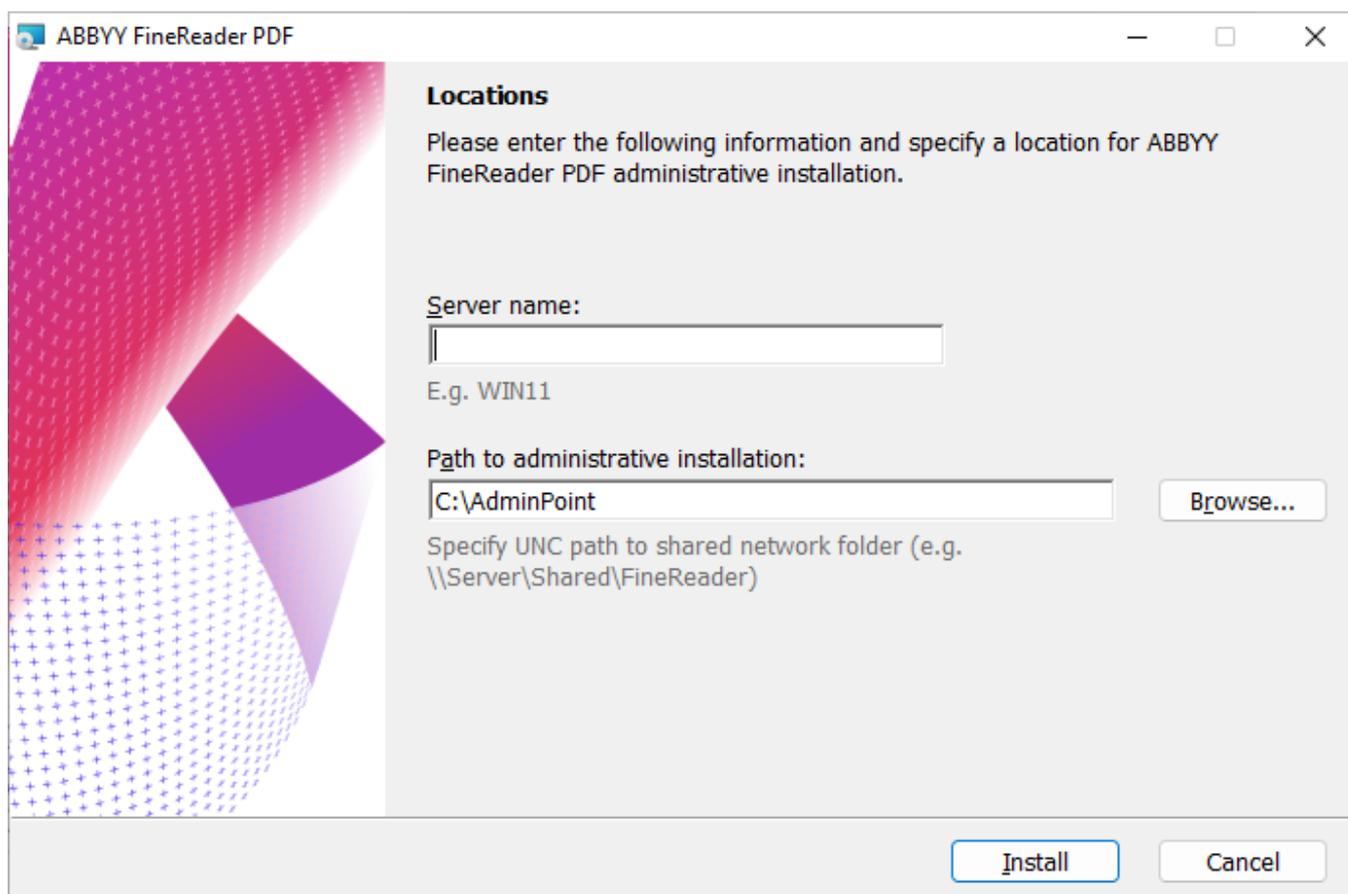
**Hinweis:** siehe [Weitere Befehlszeilenoptionen für die Hintergrundinstallation](#)<sup>23)</sup> mit zusätzlichen Optionen für die Installation über die Befehlszeile.

2. Befolgen Sie die Anweisungen im Installationsprogramm.

Wenn im Installationsprogramm die entsprechende Aufforderung angezeigt wird, geben Sie Folgendes an:

- Name des Computers, auf dem License Server installiert werden soll  
**Hinweis:** Anstelle des Namens kann die IP-Adresse des Servers verwendet werden.
- Pfad zum administrativen Installationsordner

**Wichtig!** Verschieben Sie den administrativen Installationsordner möglichst nicht, nachdem ABBYY FineReader auf den Workstations installiert wurde.



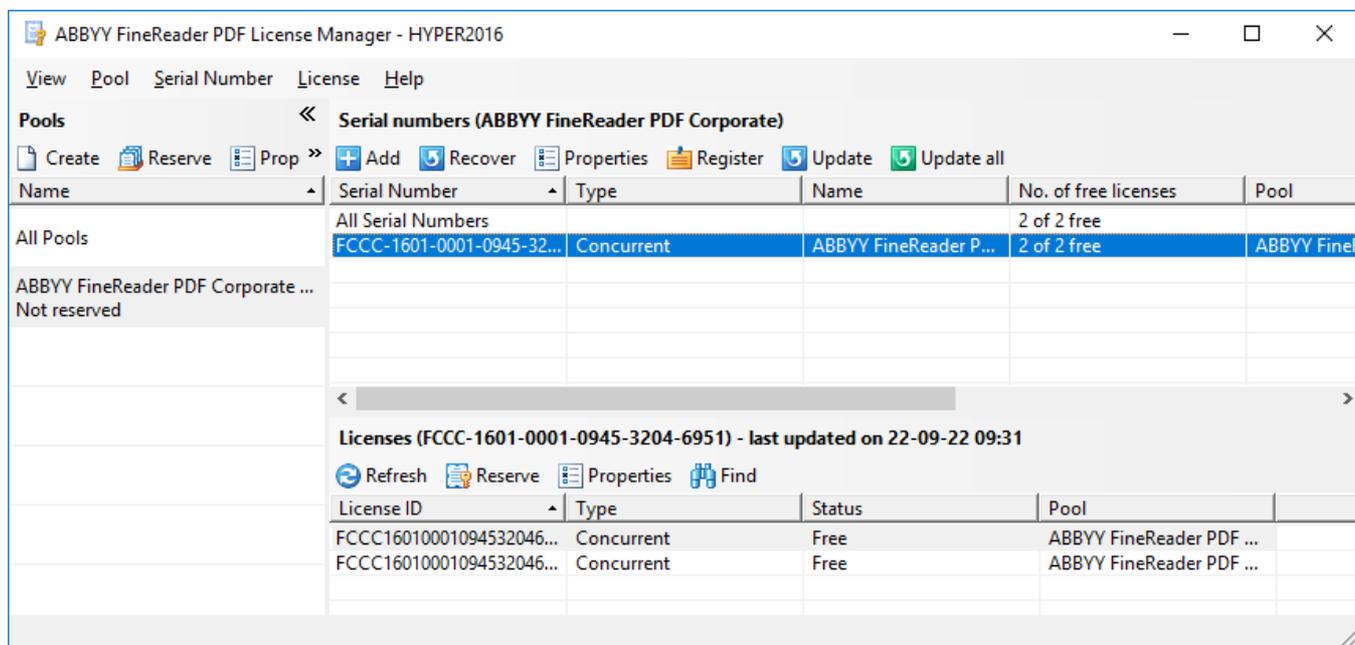
**Hinweis:** Um Dokumente bearbeiten zu können, wenn Sie eine eingeschränkte Version von ABBYY FineReader PDF 16 verwenden, für die eine Gleitlizenz erforderlich ist, kopieren Sie die Lizenzdatei der eingeschränkten Version in den Ordner OpenLicenses, nachdem Sie das administrative Installationsverzeichnis erstellt haben.

Wenn das administrative Installationsverzeichnis im Ordner **C:\Temp\FineReaderPDF** erstellt wurde, muss die eingeschränkte Version der Lizenz in den Ordner **OpenLicenses** kopiert werden, der sich hier befindet: **C:\Temp\FineReaderPDF\Bin\OpenLicenses**.

**Hinweis:** Es wird nicht empfohlen, ein administratives Installationsverzeichnis auf dem Computer zu erstellen, auf dem ABBYY FineReader PDF 16 lokal installiert ist. Alle weiteren Produkt-Updates auf diesem Computer erfordern eine Windows-Rechteausweitung (rotes Fenster Benutzerkontensteuerung). Um dies zu vermeiden, erstellen Sie das administrative Installationsverzeichnis auf einem anderen Computer.

# Verwaltung von Lizenzen

ABBYY FineReader PDF License Manager ist eine spezielle Anwendung, die mit ABBYY FineReader PDF bereitgestellt wird und für die Verwaltung von Lizenzen für ABBYY FineReader vorgesehen ist. Die Anwendung wird auf der Lizenz-Administratorstation installiert, wenn ABBYY FineReader PDF in einem lokalen Netzwerk bereitgestellt wird (siehe [Installieren von License Server und License Manager](#) für ausführliche Informationen).



Konfiguration Ihrer Lizenzen mit ABBYY FineReader PDF License Manager:

**1. Fügen Sie Ihre Lizenzen ABBYY FineReader PDF License Manager hinzu.**

Eine ABBYY FineReader PDF-Lizenz (oder Lizenzgruppe) besitzt zur Identifizierung eine eindeutige Seriennummer. Um eine Lizenz zu aktivieren und diese ABBYY FineReader PDF hinzuzufügen, müssen Sie deren Seriennummer aktivieren.

**2. Erstellen Sie Lizenz-Pools und fügen Sie die notwendigen Lizenzen den Pools hinzu.**

Ein Lizenz-Pool ist ein Satz von Lizenzen oder Seriennummern gleichen Ranges. Lizenz-Pools erleichtern die Arbeit mit Lizenzen. Anstatt jede einzelne Lizenz separat zu reservieren, können Sie diese einem Lizenz-Pool hinzufügen und dann den Pool für bestimmte Workstations und Benutzer reservieren.

**3. Pools und Lizenzen für die entsprechenden Workstations und Benutzer reservieren.**

Vor der Installation von ABBYY FineReader PDF auf den Workstations müssen Sie die Lizenzen auf die Workstations/Benutzer im ABBYY FineReader PDF License Manager verteilen. Der Verteilungsprozess wird durch das Reservieren einer Lizenz für eine(n) bestimmte(n) Workstation/Benutzer ausgeführt. Sobald eine Lizenz reserviert wurde, können nur die angegebenen Workstations/Benutzer diese verwenden.

**Wichtig!** Reservieren Sie die Einzelplatzlizenzen und Pools vor der Installation von ABBYY FineReader PDF auf den Workstations. Um eine Workstation zu binden oder die Bindung zu lösen, nachdem ABBYY FineReader darauf installiert wurde, müssen Sie das Programm von der Workstation entfernen. Um eine Einzelplatzlizenz von einer Workstation auf eine andere zu verschieben, nachdem ABBYY FineReader installiert wurde, müssen Sie die Lizenz deaktivieren. Die Anzahl der zulässigen Deaktivierungen ist begrenzt.

Weitere Informationen über Lizenztypen und die Arbeit mit dem ABBYY FineReader PDF License Manager finden Sie in der Hilfedatei von ABBYY FineReader PDF License Manager.

**Hinweis.** ABBYY FineReader PDF Lizenzen können sowohl in einem Azure-Cloud-Speicher-Blob als auch auf dem Rechner gespeichert werden, auf dem sie aktiviert wurden. Weitere Informationen finden Sie unter [Aktivieren von Lizenzen in Azure Blob-Speicher](#)<sup>18</sup>.

## Aktivieren von Lizenzen in Azure Blob-Speicher

ABBYY FineReader PDF Lizenzen können in einem Azure Cloudspeicher-BLOB gespeichert werden.

**Wichtig!** Nur Lizenzen eines bestimmten Typs können aktiviert und in Azure gespeichert werden.

### Empfehlungen für die Einrichtung von Azure

1. ABBYY FineReader PDF kann nur mit Blockblobs arbeiten.  
**Hinweis.** Weitere Informationen zu Azure Blob-Objekten finden Sie auf [der offiziellen Microsoft-Website](#).
2. Wir empfehlen die Einrichtung eines separaten Speicherkontos für ABBYY FineReader PDF, damit die Kontoeinstellungen und Anmeldedaten nicht versehentlich geändert werden.
3. Während der Lizenzaktivierung muss der Lizenzserver Zugriff auf den entsprechenden Blob-Objektspeicher haben..

### Aktivieren einer Lizenz in einem Azure-Cloudspeicher-Blob

1. Installieren Sie die Anwendung **ABBYY FineReader PDF License Manager**(weitere Informationen finden Sie unter [License Server und License Manager installieren](#)<sup>12)</sup>).
2. Fügen Sie der Datei **%commonprogramfiles%\ABBYY\FineReader\16\Licensing\NetworkLicenseServer.ini** auf dem Server die folgenden add the following Azure-Authentifizierungsdaten hinzu:

```
[Azure]
account=%storage_account_name%
key=%security_key%
path=%path_to_blob%
```

wobei **account** der Name des Blob-Cloudspeichers, **key** der Zugriffsschlüssel und **path** der Pfad zum Speicher ist.

*Beispiel **NetworkLicenseServer.ini** Azure-Authentifizierungsdaten:*

```
[Azure]
account=fr16licensing
key=iD32nqhz/poQmcsFog4567nrJwxrcw0uCvxmXsM0joq9UwLN7RL5iG7SpBMFGsajxN
path=https://fr16licensing.blob.core.windows.net
```

```
[Licensing]
NetworkServer=yes
```

3. Starten Sie den Lizenzierungsdienst **ABBYY.Licensing.FineReader.16.0** auf dem Server, auf dem ABBYY FineReader PDF License Manager installiert ist.
4. Fügen Sie Ihre Lizenzen in ABBYY FineReader PDF License Manager hinzu und aktivieren Sie sie. Sobald eine Lizenz erfolgreich aktiviert wurde, wird sie mit dem Speicherkonto synchronisiert, und die Lizenz wird in den Blob-Speicher kopiert. Wenn Synchronisierungsfehler auftreten, verwenden Sie die Ereignisanzeige, um die Protokolle zu überprüfen.

**Hinweis.** Wenn die Lizenz nicht in den Cloud-Speicher kopiert wurde, überprüfen Sie, ob der Server auf den Speicher zugreifen kann und ob die in NetworkLicenseServer.ini angegebenen Zugangsdaten korrekt sind.

**Wichtig!** Bereits aktivierte Lizenzen sind nicht mehr verfügbar, sobald der Zugriffsschlüssel des Speicherkontos aktualisiert wird. Diese Lizenzen müssen dann erneut aktiviert werden.

## Bereitstellung eines Auslieferungspakets für mehrere Benutzer mit Einzelplatzlizenzen

Die Bereitstellung eines Auslieferungspakets für mehrere Benutzer mit automatischer Aktivierung erfordert keine Installation von Lizenzserver und License Manager.

Die Bereitstellung eines Auslieferungspakets für mehrere Benutzer eines lokalen Netzwerks besteht aus den folgenden Schritten:

### 1. Administratives Installationsverzeichnis für mehrere Benutzer erstellen

Mit diesem Schritt wird dem Auslieferungspaket ein Aktivierungsschlüssel für mehrere Benutzer hinzugefügt, was die Installation von ABBYY FineReader auf Workstations, ohne die Eingabe einer Seriennummer ermöglicht.

Ausführliche Informationen erhalten Sie unter [Erstellen eines administrativen Installationsverzeichnisses für mehrere Benutzer mit Einzelplatzlizenzen](#)<sup>21</sup>.

### 2. Installieren von ABBYY FineReader auf Workstations mit einer der folgenden Methoden:

- manuell im interaktiven Modus
- über die Befehlszeile
- Active Directory
- Microsoft System Center Configuration Manager (SCCM)

Ausführliche Informationen erhalten Sie unter [Installation von ABBYY FineReader 16 auf Workstations](#)<sup>22</sup>.

**Hinweis:** Die 32-Bit-Version von ABBYY FineReader PDF kann nicht auf einem 64-Bit-System installiert werden. Dasselbe gilt für die Installation einer 64-Bit-Version auf einem 32-Bit-System.

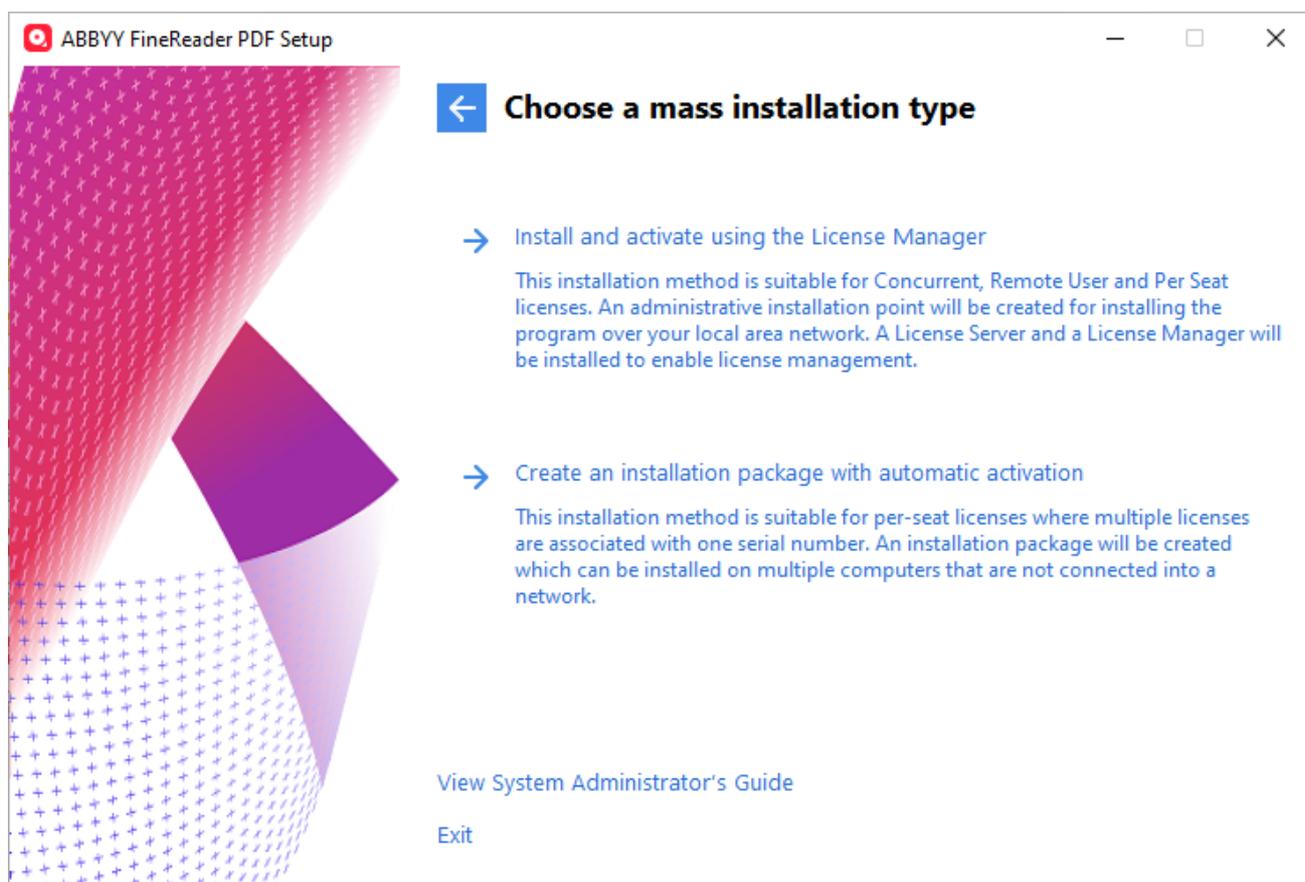
## Voraussetzungen für den administrativen Installationsordner

1. 1.5 GB freier Festplattenspeicher für die Erstellung eines administrativen Installationsverzeichnisses
2. Lesezugriff für den administrativen Installationsordner (z. B. \\MyFileServer\Programs **Distrib\ABBYY FineReader PDF**) für alle Benutzer, auf deren Computer ABBYY FineReader installiert werden soll.
3. Bei dem Server (\\MyFileServer), auf dem das administrative Installationsverzeichnis erstellt wird, muss es sich um einen Dateiserver mit einem Betriebssystem handeln, bei dem lange Dateinamen unterstützt werden.
4. Beim Bereitstellen von ABBYY FineReader PDF über Active Directory müssen die Konten der Domänencomputer über den Schreibzugriff für den administrativen Installationsordner verfügen.
5. Der Pfad muss die folgenden Anforderungen erfüllen:
  - Der Pfad darf keine Zeichen außerhalb der Codeseite der ausgewählten Sprache für die Standard-Systemsprache für nicht-Unicode-Anwendungen enthalten.
  - Die Namen der Zwischenordner dürfen nicht mit einem Leerzeichen beginnen.

**Hinweis:** Weitere Informationen über die Anforderungen an die Workstation finden Sie unter [Voraussetzungen für die Workstation](#)<sup>11</sup>.

# Erstellen eines administrativen Installationsverzeichnisses für mehrere Benutzer mit Einzelplatzlizenzen

1. Starten Sie die Datei **AutoRun.exe** im Installationsordner und wählen Sie **Masseninstallation > Installationspaket mit automatischer Aktivierung erstellen** und wählen Sie die entsprechende administrative Version des Installationsverzeichnisses.



Alternativ verwenden Sie die Befehlszeile für die Ausführung des folgenden Befehls im Installationsordner: **msiexec.exe /a.**

**Hinweis:** siehe [Weitere Befehlszeilenoptionen für die Hintergrundinstallation](#)<sup>[25]</sup> mit zusätzlichen Optionen für die Installation über die Befehlszeile

2. Folgen Sie den Anweisungen des Installationsprogramms.  
 Sie können entweder einen Aktivierungsschlüssel für mehrere Benutzer dem Auslieferungspaket hinzufügen oder erstellen ein neues Installationsverzeichnis. Wählen Sie die zweite Option, muss der Pfad zu dem Ordner angegeben werden, wo sich das neue administrative Installationsverzeichnis befindet. Der Pfad muss die folgenden Anforderungen erfüllen:

- Der Pfad darf keine Zeichen außerhalb der Codeseite der ausgewählten Sprache für die Standard-Systemsprache für nicht-Unicode-Anwendungen enthalten.
- Die Namen der Zwischenordner dürfen nicht mit einem Leerzeichen beginnen.

Als Resultat wird ein ABBYY FineReader-Auslieferungspaket erstellt, das auf Workstations ohne die Eingabe einer Seriennummer installiert werden kann. Das Produkt wird automatisch über das Internet aktiviert, ohne dass der Benutzer diesen Vorgang bestätigen muss. Die Workstation, auf der das Produkt installiert wurde, muss mit dem Internet verbunden sein.

## Installation von ABBYY FineReader PDF 16 auf Workstations

**Wichtig!** Vor der Installation von ABBYY FineReader PDF auf Workstations müssen Sie:

- Erstellen Sie ein administratives Installationsverzeichnis und konfigurieren Sie mithilfe von ABBYY FineReader PDF License Manager die Lizenzen (siehe [Installieren von License Server und License Manager](#)<sup>[12]</sup>, [Erstellen eines administrativen Installationsverzeichnisses](#)<sup>[14]</sup>, [Verwaltung von Lizenzen](#)<sup>[16]</sup>).

**Hinweis:** Nur dann, wenn die Lizenzen zum Zeitpunkt der Installation entsprechend konfiguriert sind, erhält eine Workstation bei der Installation von ABBYY FineReader PDF eine Einzelplatzlizenz und wird an den Server gebunden.

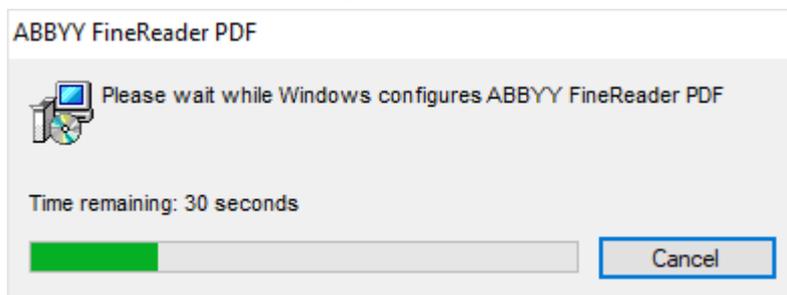
oder

- Erstellen Sie ein administratives Installationsverzeichnis für mehrere Benutzer (siehe [Administratives Installationsverzeichnis für mehrere Benutzer erstellen](#)<sup>[19]</sup>).

**Hinweis:** Wurde eine Workstation von einem anderen Computer geklont, müssen Sie vor der Installation von ABBYY FineReader den Wert des Security Identifier (SID) ändern, um so Funktionsstörungen des Lizenzierungsmechanismus' zu verhindern.

### Interaktive Installation

1. Erstellen Sie ein administratives Installationsverzeichnis (siehe [Administrative Installation mit Lizenz-Server und License Manager](#)<sup>[11]</sup>) oder ein administratives Installationsverzeichnis für mehrere Benutzer (siehe [Administratives Installationsverzeichnis für mehrere Benutzer erstellen](#)<sup>[19]</sup>).
2. Führen Sie die Datei **setup.exe** im administrativen Installationsordner aus.



3. Warten Sie, bis die Installation abgeschlossen ist. Nach der Installation können Sie ABBYY FineReader PDF 16 verwenden.

## Installation über die Befehlszeile

1. Erstellen Sie ein administratives Installationsverzeichnis (siehe [Administrative Installation mit Lizenz-Server und License Manager](#)<sup>11</sup>) oder ein administratives Installationsverzeichnis für mehrere Benutzer (siehe [Administratives Installationsverzeichnis für mehrere Benutzer erstellen](#)<sup>19</sup>).
2. Führen Sie die Datei **setup.exe** im administrativen Installationsordner mit den im Folgenden beschriebenen Befehlszeilenparametern aus.

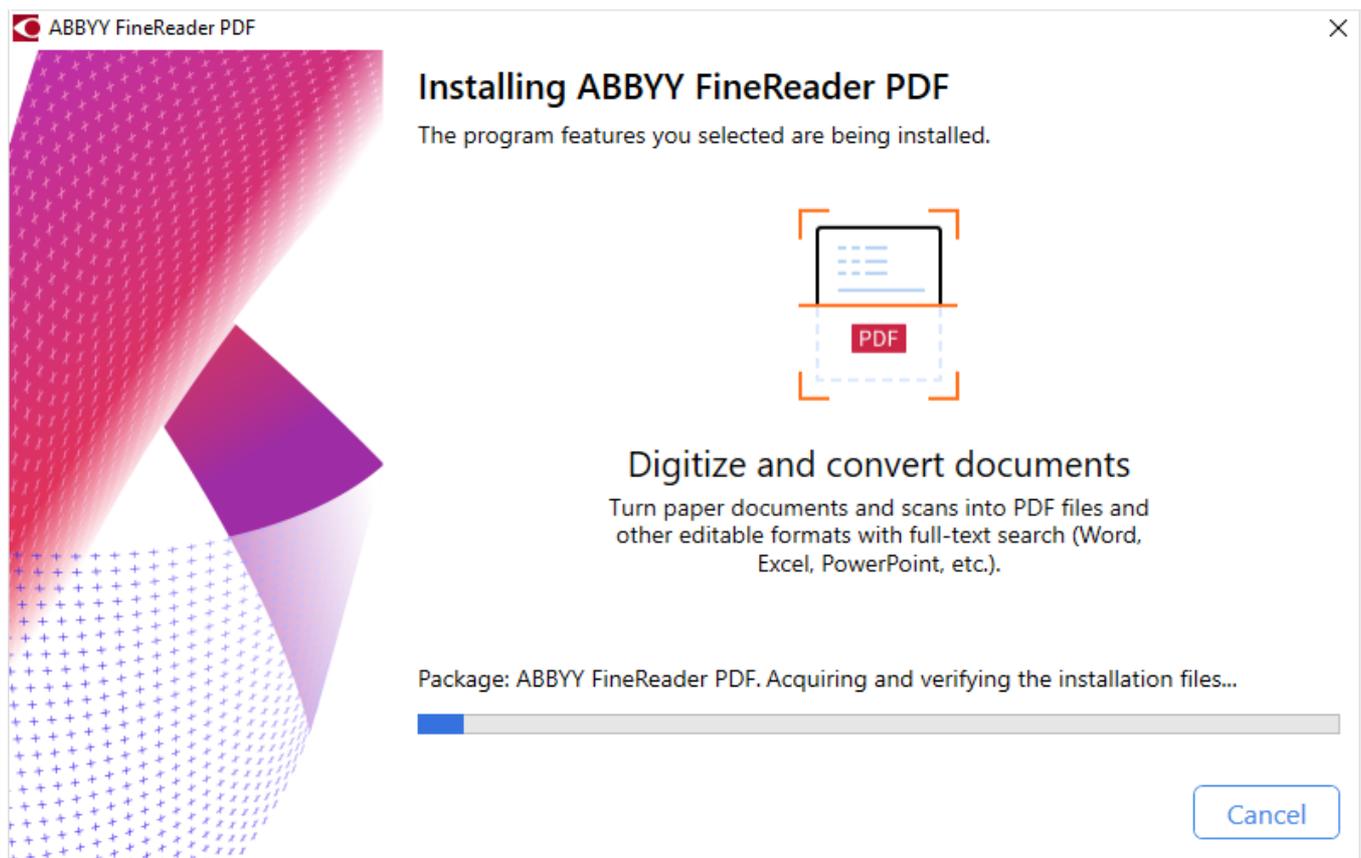
## Hintergrundinstallation

Für eine Hintergrundinstallation geben Sie Folgendes ein:

### Setup.exe /q

Bei der Hintergrundinstallation werden keine Installationsdialogfelder angezeigt. Das Programm wird mit der Standardkonfiguration installiert (d. h. die Sprache der Benutzeroberfläche wird entsprechend den Ländereinstellungen des Computers automatisch ausgewählt).

**Hinweis:** Ändern Sie **"/qn"** zu **"/qb"**, wenn eine Installations-Statusanzeige angezeigt werden soll. Es werden keine anderen Dialogfelder angezeigt.



## Verwenden von Windows Installer

Um ABBYY FineReader PDF mithilfe von Windows Installer zu installieren, führen Sie von der Befehlsleiste folgenden Befehl aus:

**msiexec.exe /i "%pathtofile%" /qb**

wobei %pathtofile% entweder der Pfad zur Datei **ABBYY FineReader 16 x64.msi** für 64-Bit-Systeme ist oder der Pfad zur Datei **ABBYY FineReader 16.msi** für 32-Bit-Systeme.

**Hinweis:** Anstelle von **/qb** können Sie auch **/qn** oder **/q** verwenden.

**Wichtig!** ABBYY FineReader PDF kann mit Windows Installer nicht im interaktiven Modus installiert werden.

Sie können ABBYY FineReader PDF mit einer der folgenden \*.msi-Dateien installieren:

1. mit der \*.msi-Datei aus dem administrativen Installationsordner (siehe [Erstellen eines administrativen Installationsverzeichnisses](#)<sup>11</sup>)
2. mit der \*.msi-Datei aus einem Auslieferungspaket mit automatischer Aktivierung (siehe [Bereitstellen eines Auslieferungspakets für mehrere Benutzer mit Einzelplatzlizenzen und automatischer Aktivierung](#)<sup>19</sup>)
3. mit der \*.msi-Datei aus dem Ordner, der die Installationsdateien enthält

**Wichtig!** Bitte stellen Sie sicher, dass Visual C++ Redist bereits auf der Workstation installiert ist. Sie können Visual C++ Redist [hier](#) herunterladen oder es aus dem Ordner VC\_Redist installieren, den Sie in dem Ordner mit den Installationsdateien finden .

Installieren Sie Visual C++ wie folgt aus dem Ordner VC-Redist:

- für ein 32-Bit-System, **vcredist\_x86.exe** ausführen
- für 64-Bit-System, **vcredist\_x86.exe** und **vcredist\_x64.exe** ausführen, egal in welcher Reihenfolge.

## Weitere Befehlszeilenoptionen für die Hintergrundinstallation

Die Befehlszeilenparameter **Transforms** und **LANGUAGE** deaktivieren die automatische Auswahl der Sprache der Benutzeroberfläche und installieren ABBYY FineReader PDF.

Bei der Installation mit msi oder dem administrativen Installationspfad: Transforms= <LANGID>.mst

Bei Installation mit EXE-Datei: Setup.exe LANGUAGE="LANGID"

Möglicher **language code**\* oder **LANGID** Werte:

- 1026 Bulgarisch
- 1028 Chinesisch (traditionell)
- 1029 Tschechisch
- 1030 Dänisch
- 1031 Deutsch
- 1032 Griechisch
- 1033 Englisch
- 1034 Spanisch
- 1036 Französisch
- 1038 Ungarisch
- 1040 Italienisch
- 1041 Japanisch
- 1042 Koreanisch
- 1043 Niederländisch
- 1045 Polnisch
- 1046 Portugiesisch (Brasilien)
- 1049 Russisch
- 1051 Slowakisch
- 1053 Schwedisch
- 1055 Türkisch
- 1058 Ukrainisch

1066 Vietnamesisch

2052 Chinesisch (vereinfacht)

\*Die Anzahl der verfügbaren Sprachen hängt vom jeweiligen Auslieferungspaket ab.

### Installation mit Setup.exe

"<command line>" leitet die angegebene Befehlszeile direkt an **msiexec.exe** weiter. Anstatt der Worte <command line> können Sie Folgendes festlegen:

INSTALLDIR="<path>"	gibt den Pfad zu dem Ordner an, in dem ABBYY FineReader PDF installiert wird.
EXPLORER_INTEGRATION=0	Verbietet die Integration von ABBYY FineReader PDF in Windows Explorer.
SHCTDESKTOP=0	Verbietet die Erstellung eines Symbols von ABBYY FineReader PDF auf dem Desktop.
SSR_AUTORUN=0	Verbietet den Start von ABBYY Screenshot Reader beim Systemstart.
DONT_ASK_ABOUT_DEFAULT=1	Verbietet die Anzeige von ABBYY FineReader PDF-Dialogfeldern mit der Frage, ob der Benutzer FineReader als Standardanwendung für das Öffnen von *.PDF-Dateien festlegen möchte.
STATISTICS_ALLOWED=0	Verbietet, dass Informationen über die ausgewählten Einstellungen von ABBYY FineReader PDF über das Internet an ABBYY gesendet werden.
CHECK_UPDATES=0	Verbietet das Überprüfen auf Updates.
INSTALL_UPDATES=0	Verbietet das Herunterladen und Installieren von Updates.
MARKETING_TIPS_ALLOWED=0	Verbietet die Anzeige von Werbenachrichten.
SSR=0	Verbietet die Installation von ABBYY Screenshot Reader.
HF=0	Verbietet die Installation von ABBYY Hot Folder.

COMPARATOR=0	Verbietet die Installation von ABBYY-Dokumentenvergleich
SN=<serial number>	Gibt die Seriennummer für die automatische Aktivierung einer Einzelplatzlizenz an.
EULA_ACCEPTED=1	Unterdrückt die Anzeige des ABBYY FineReader PDF-Endbenutzer-Lizenzvertrags. Der Endbenutzer-Lizenzvertrag und die Datenschutzrichtlinie gelten als akzeptiert.

Z. B.:

**Setup.exe /qn LANGUAGE=1033 INSTALLDIR="C:\ABBYY FineReader PDF"  
STATISTICS\_ALLOWED=0**

Dadurch wird ABBYY FineReader PDF in C:\ABBYY FineReader PDF installiert. Die Menüs, Dialogfelder und anderen Elemente der Benutzeroberfläche sind in englischer Sprache. Informationen über die ausgewählten Einstellungen von ABBYY FineReader werden nicht über das Internet an ABBYY gesendet. Der Satz der verfügbaren OCR-Sprachen hängt vom jeweiligen Auslieferungspaket ab.

### Installation mit msiexec.exe

**/a** – erstellt ein administratives Installationsverzeichnis

msiexec.exe "<pathtofile>" "<command line>" – ermöglicht die Ausführung des angegebenen Befehls mit **msiexec.exe**. Ersetzen Sie <pathtofile> durch den Pfad zur Datei ABBYY FineReader PDF x64.msi und <command line> durch eine Zeile wie die folgende:

LIC_SERVER_NAME=<lizenzserver-Adresse>	<p>Lizenzserver-Adresse.</p> <p><b>Hinweis:</b> Der Parameter LIC_SERVER_NAME darf nur mit den Schlüsseln <b>"/i"</b> und <b>"/qb"</b> übergeben werden.</p> <p>Beispiel für einen Befehl:</p> <pre>msiexec.exe /i "pathtofile" /qb LIC_SERVER_NAME=&lt;lizenzserver-Adresse&gt;</pre>
----------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p>ADMIN_SETUP=Serial/Server</p>	<p>Führt eine administrative Installation in einem der folgenden Modi aus:</p> <p><b>ADMIN_SETUP=Serial</b></p> <p>Zeigt ein Dialogfeld an, wo die Seriennummer für die automatische Aktivierung eingegeben werden kann.</p> <p><b>ADMIN_SETUP=Server</b></p> <p>Zeigt ein Dialogfeld an, in dem Sie den Pfad zum Lizenzierungsserver angeben können.</p> <p><b>Hinweis:</b> Der Parameter ADMIN_SETUP darf nur mit dem Schlüssel <b>/a</b> übergeben werden.</p> <p>Beispiel für einen Befehl:</p> <pre>msiexec.exe /a "pathtofile" ADMIN_SETUP=Serial</pre>
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Z. B.:

**msiexec /a "%path\_to\_distr%\Bin\ABBYY FineReader PDF x64.msi" Transforms= 1033.mst  
LIC\_SERVER\_NAME=Test**

Dieser Befehl erstellt einen administrativen Installationspfad mit Englisch als Sprache der Benutzeroberfläche. Lizenzen werden auf dem Testlizenzserver gespeichert.

## Deinstallieren von ABBYY FineReader PDF 16 im Hintergrund

Führen Sie auf der Workstation den folgenden Befehl aus:

**msiexec /x {Produktcode},**

und geben sie abhängig von Installationstyp und Windows-Architektur einen der folgenden an, anstelle von **{Produktcode}**:

	<b>x64</b>
<b>Basis-/Vollin- stallation</b>	{F16000FE-0003-6400-0000-074957833700}
<b>SLE- Installation</b>	{F16000BE-0003-6400-0000-074957833700}
<b>Sprint- Installation</b>	{F16000FB-0003-6400-0000-074957833700}

z. B.:

**msiexec /x {F16000FB-0003-6400-0000-074957833700}**

## Verwenden von Active Directory

Die Betriebssysteme der Microsoft Windows Server-Familie beinhalten einen Verzeichnisdienst **Active Directory** (AD). Die Funktion **Gruppenrichtlinie** der AD-Komponente **Softwareinstallation** kann für die gleichzeitige Installation der Software auf mehreren Workstations per Fernzugriff verwendet werden.

In Active Directory gibt es drei Installationsverfahren:

1. **Für Benutzer veröffentlichen (nicht unterstützt)**
2. **Zu Benutzer zuweisen(nicht unterstützt)**
3. **Zu Computer zuweisen**

ABBYY FineReader kann nur mithilfe des Verfahrens **Zu Computer zuweisen** installiert werden.

**Wichtig!** Die Installation von FineReader auf einer Workstation ist erst nach einem Neustart der Workstation abgeschlossen.

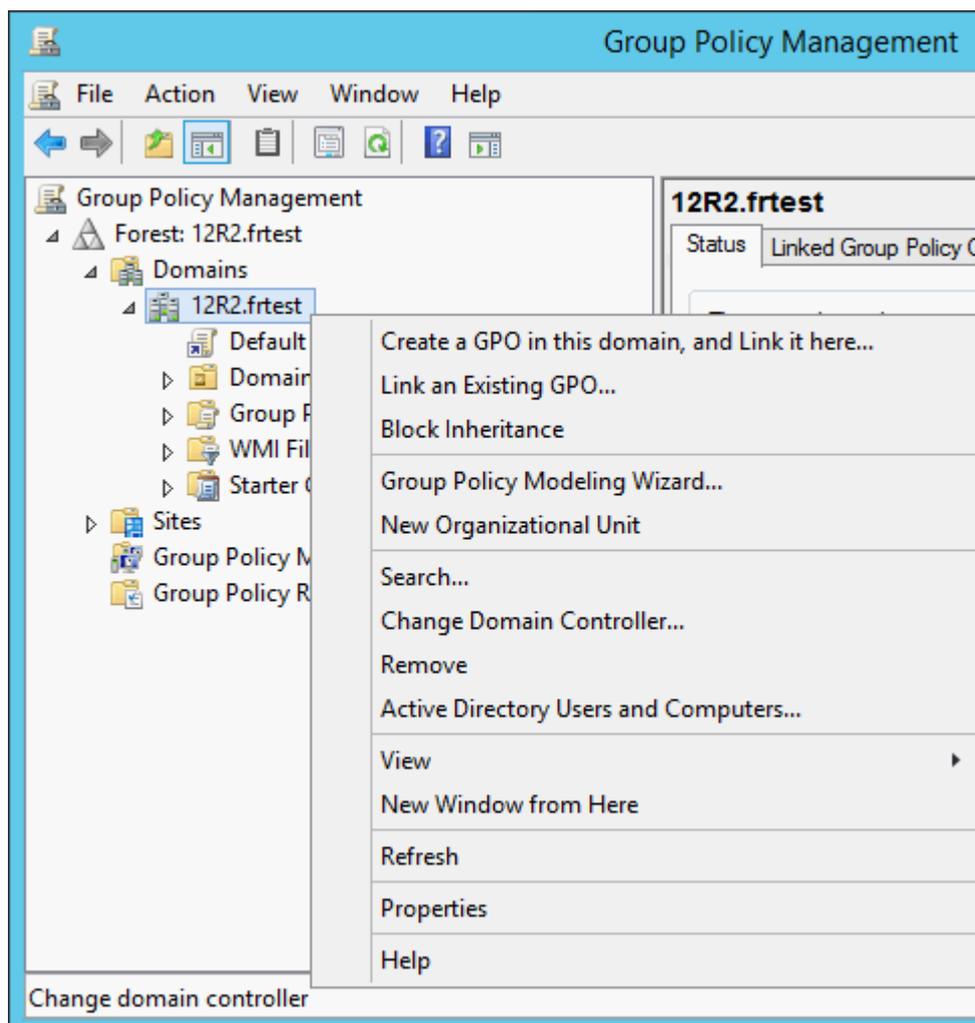
## Beispiel: Bereitstellung von ABBYY FineReader PDF 16 mithilfe von Active Directory

Das folgende Beispiel beschreibt die Bereitstellung unter Microsoft Windows Server 2012 R2.

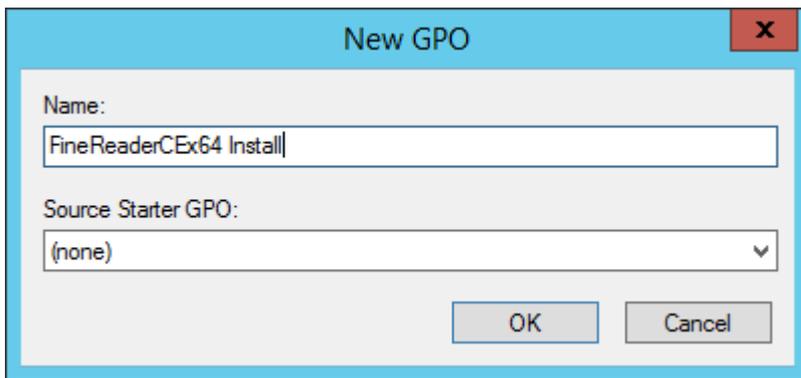
1. Erstellen Sie ein administratives Installationsverzeichnis (siehe [Administrative Installation mit Lizenz-Server und License Manager](#)<sup>11</sup>) oder ein administratives Installationsverzeichnis für mehrere Benutzer (siehe [Administratives Installationsverzeichnis für mehrere Benutzer erstellen](#)<sup>19</sup>).

**Hinweis.** Beim Bereitstellen von ABBYY FineReader PDF über Active Directory müssen die Konten der Domänencomputer über den Schreibzugriff für den administrativen Installationsordner verfügen.

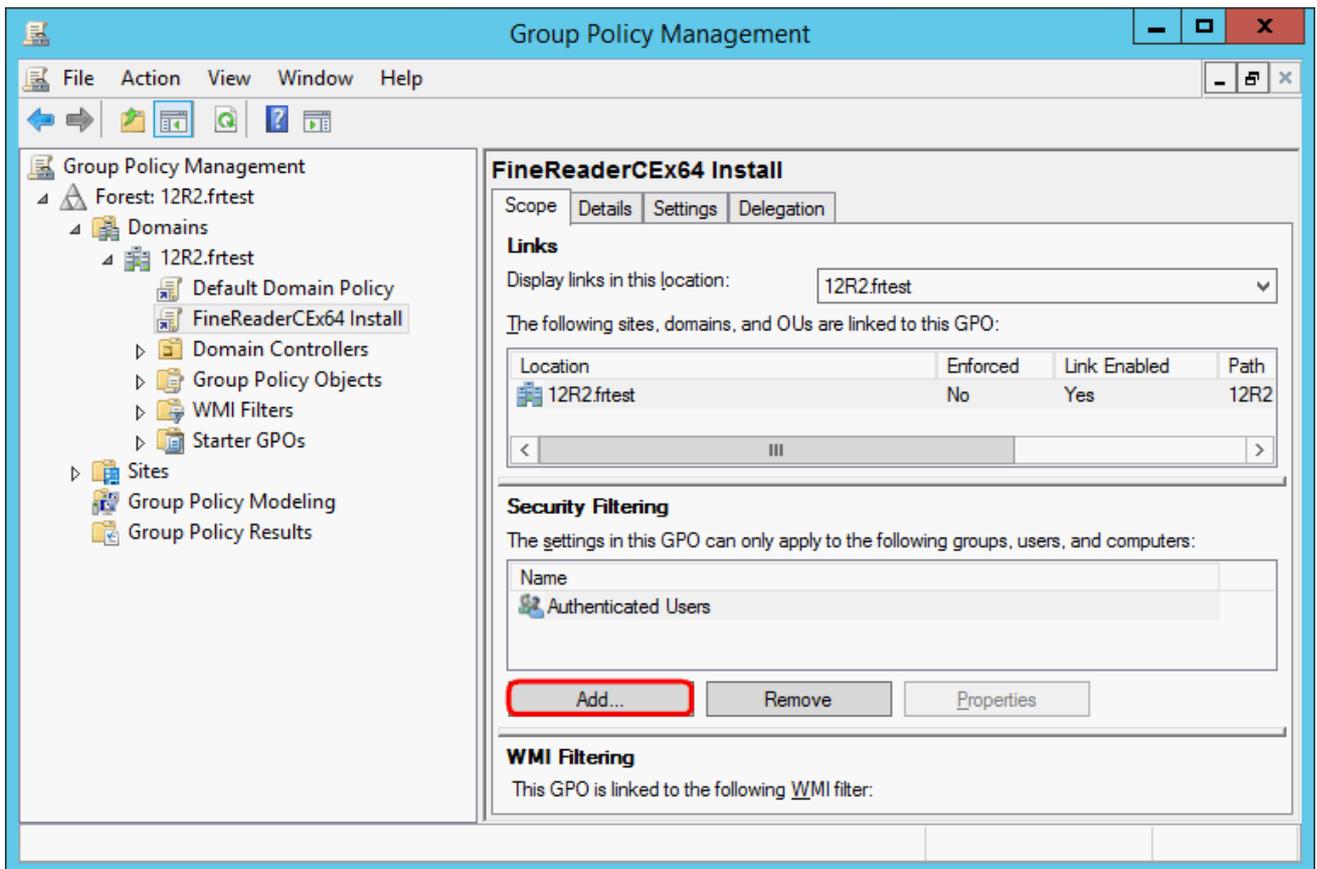
2. Starten Sie die **Konsole Gruppenrichtlinienverwaltung (gpmc.msc)**.
3. Wählen Sie links in der Struktur eine Seite, Domäne oder andere Organisationseinheit, die einen Computer oder eine Gruppe von Computern enthält. FineReader wird dann auf diesen Computern installiert.
4. Klicken Sie mit der rechten Maustaste auf den ausgewählten Strukturknoten und klicken Sie auf **Hier ein Create a GPO ... and Link it here... (GPO erstellen ... und verlinken...)** im Kontextmenü



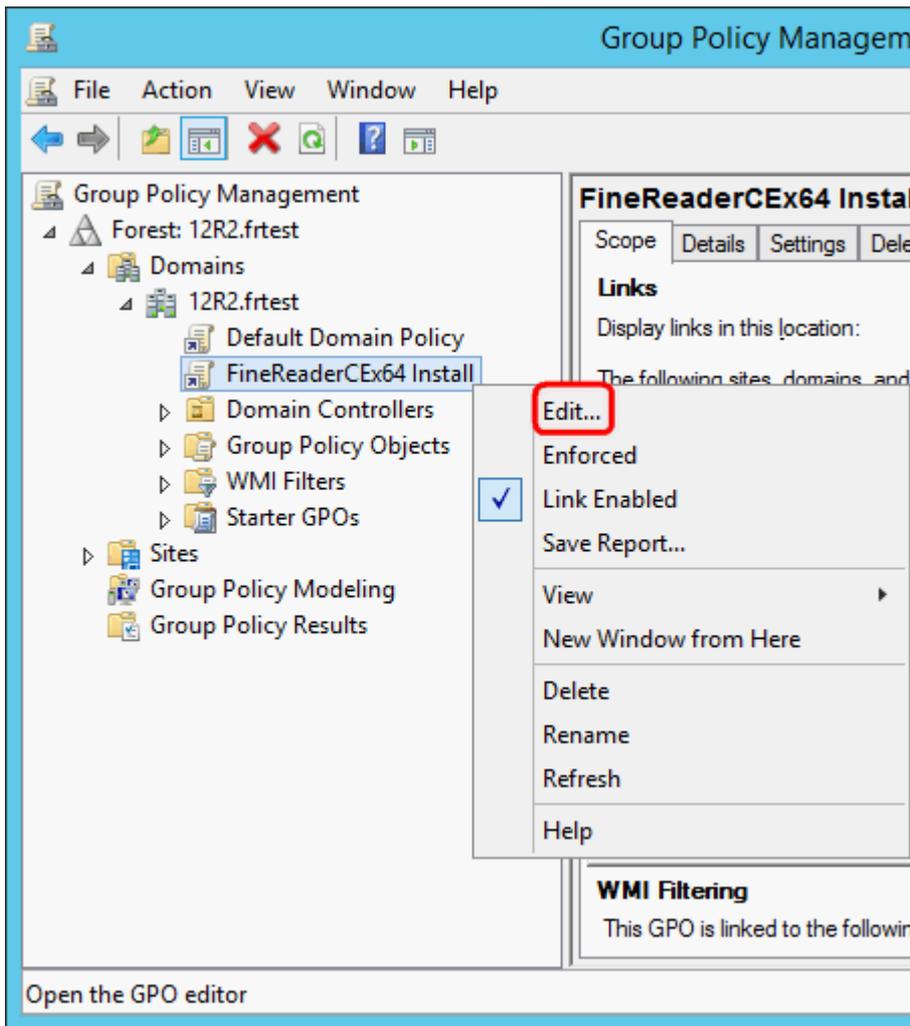
5. Geben Sie einen beschreibenden Namen ein, und klicken Sie auf **OK**.



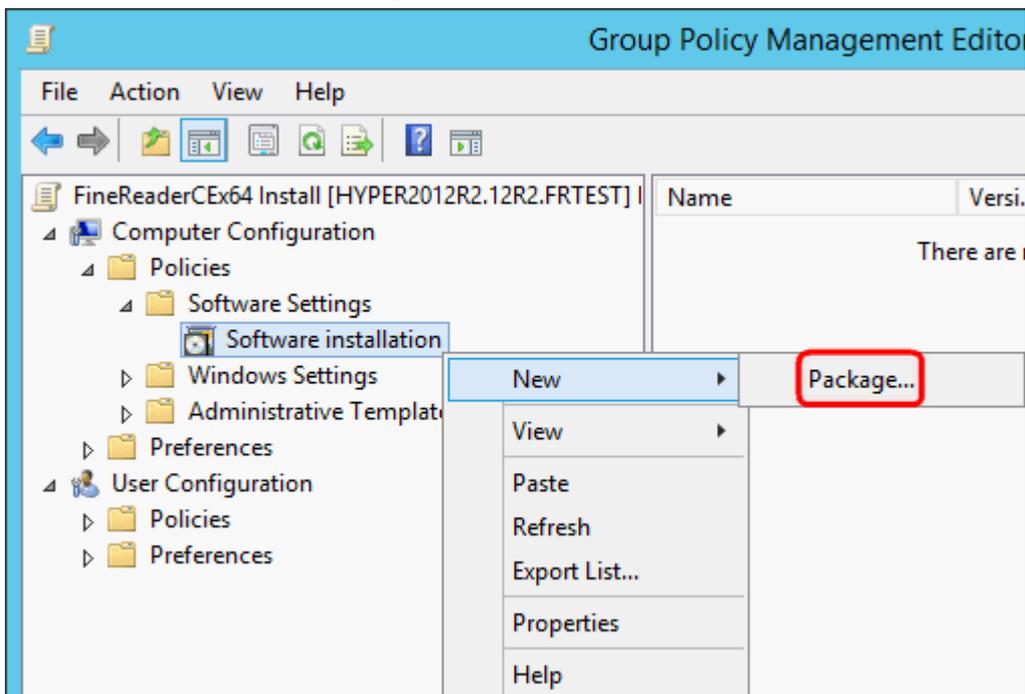
6. Klicken Sie auf die Schaltfläche **Add...** in der Gruppe **Security Filtering** und geben Sie die Gruppen an, die Computer enthalten, auf denen ABBYY FineReader PDF installiert werden soll.



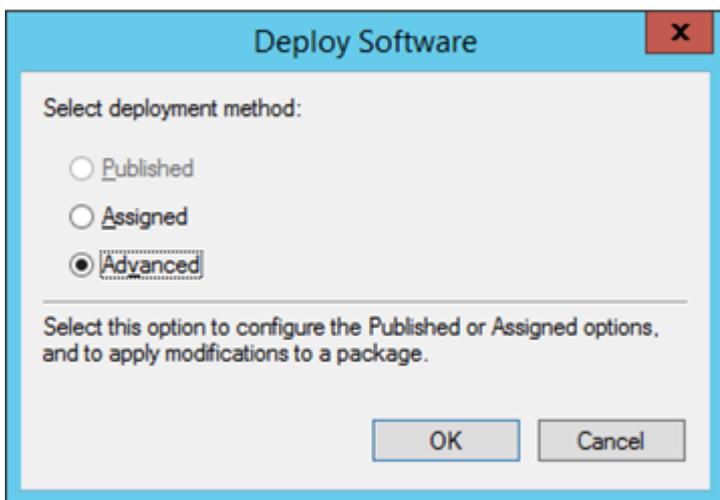
7. Klicken Sie mit der rechten Maustaste auf das erstellte Gruppenrichtlinienobjekt (GPO) und klicken Sie auf **Edit...** im Kontextmenü



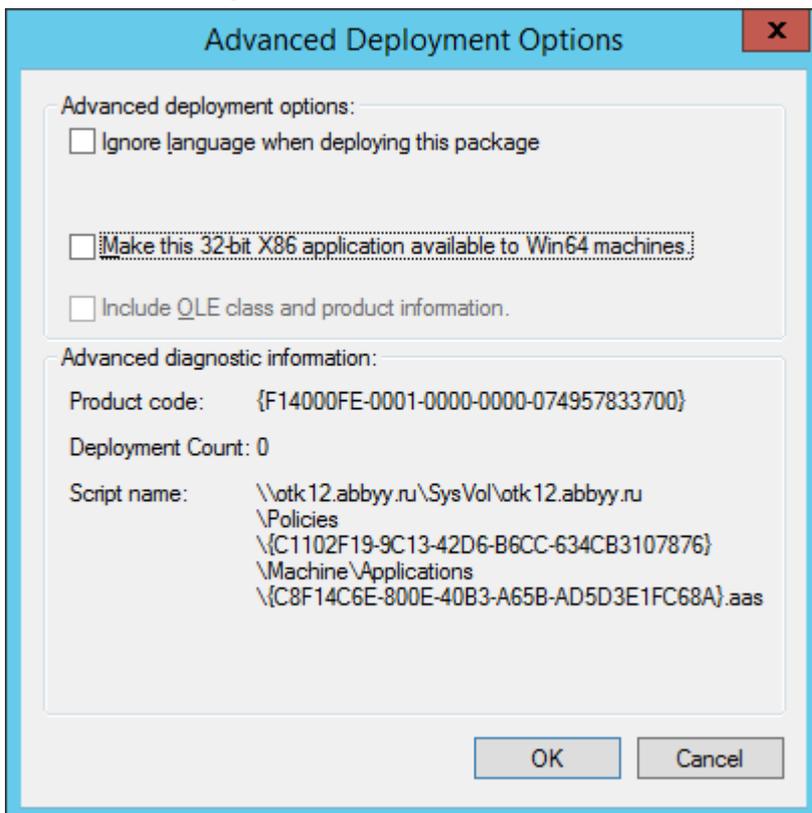
8. Im **Dialogfeld Group Policy Management Editor (Gruppenrichtlinie Management Editor)** wählen Sie **Computer Configuration > Policies > Software Settings > Software installation.**
9. Klicken Sie auf **New > Package...** im Kontextmenü.



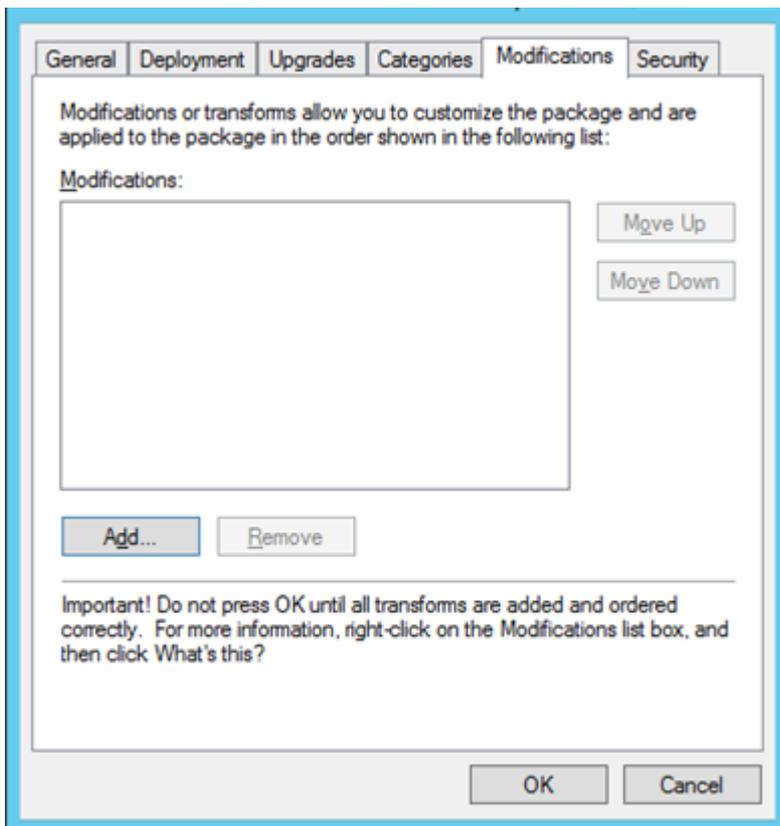
- Geben Sie den Netzwerkpfad zur Datei **ABBYY FineReader 16.msi** an (bei der Installation auf 32-Bit-Systemen) oder zur Datei **ABBYY FineReader 16 x64.msi** an (bei der Installation von 64-Bit-Systemen). Diese Dateien befinden sich im Auslieferungsordner von ABBYY FineReader PDF auf dem Server.
- Wählen Sie die Bereitstellungsmethode **Erweitert**.



- Ein Dialogfeld öffnet sich. Bei der Installation der 32-Bit-Version, klicken Sie auf die Schaltfläche **Erweitert** auf der Registerkarte **Bereitstellung** und stellen sicher, dass die Option **Diese 32-Bit-X86-Anwendung für Win64-Computer bereitstellen** deaktiviert ist.



13. Wählen Sie die Registerkarte **Modifications** und klicken Sie auf **Add...**



14. Wählen Sie die Dateien für die Sprache der Benutzeroberfläche der gewünschten Sprache der Benutzeroberfläche von ABBYY FineReader PDF. Die Dateien für die Sprache der Benutzeroberfläche befinden sich im administrativen Installationsordner auf dem Server.

Dateinamen und zugehörige Sprachen:

1026.mst Bulgarisch

1028.mst Chinesisch (traditionell)

1029.mst Tschechisch

1030.mst Dänisch

1031.mst Deutsch

1032.mst Griechisch

1033.mst Englisch

1034.mst Spanisch

1036.mst Französisch

1038.mst Ungarisch

- 1040.mst Italienisch
- 1041.mst Japanisch
- 1042.mst Koreanisch
- 1043.mst Niederländisch
- 1045.mst Polnisch
- 1046.mst Portugiesisch (Brasilien)
- 1049.mst Russisch
- 1051.mst Slowakisch
- 1053.mst Schwedisch
- 1055.mst Türkisch
- 1058.mst Ukrainisch
- 1066.mst Vietnamesisch
- 2052.mst Chinesisch (vereinfacht)

**Z. B.:** Um ABBYY FineReader mit der russischen Benutzeroberfläche zu installieren, wählen Sie **1049.mst**.

## **Verwenden von Microsoft System Center Configuration Manager (SCCM)**

Der Microsoft System Center Configuration Manager ermöglicht eine möglichst automatisierte Bereitstellung von Remote-Software in einem Unternehmensnetzwerk.

Die Bereitstellung der Software mithilfe von SCCM erfolgt in drei Phasen:

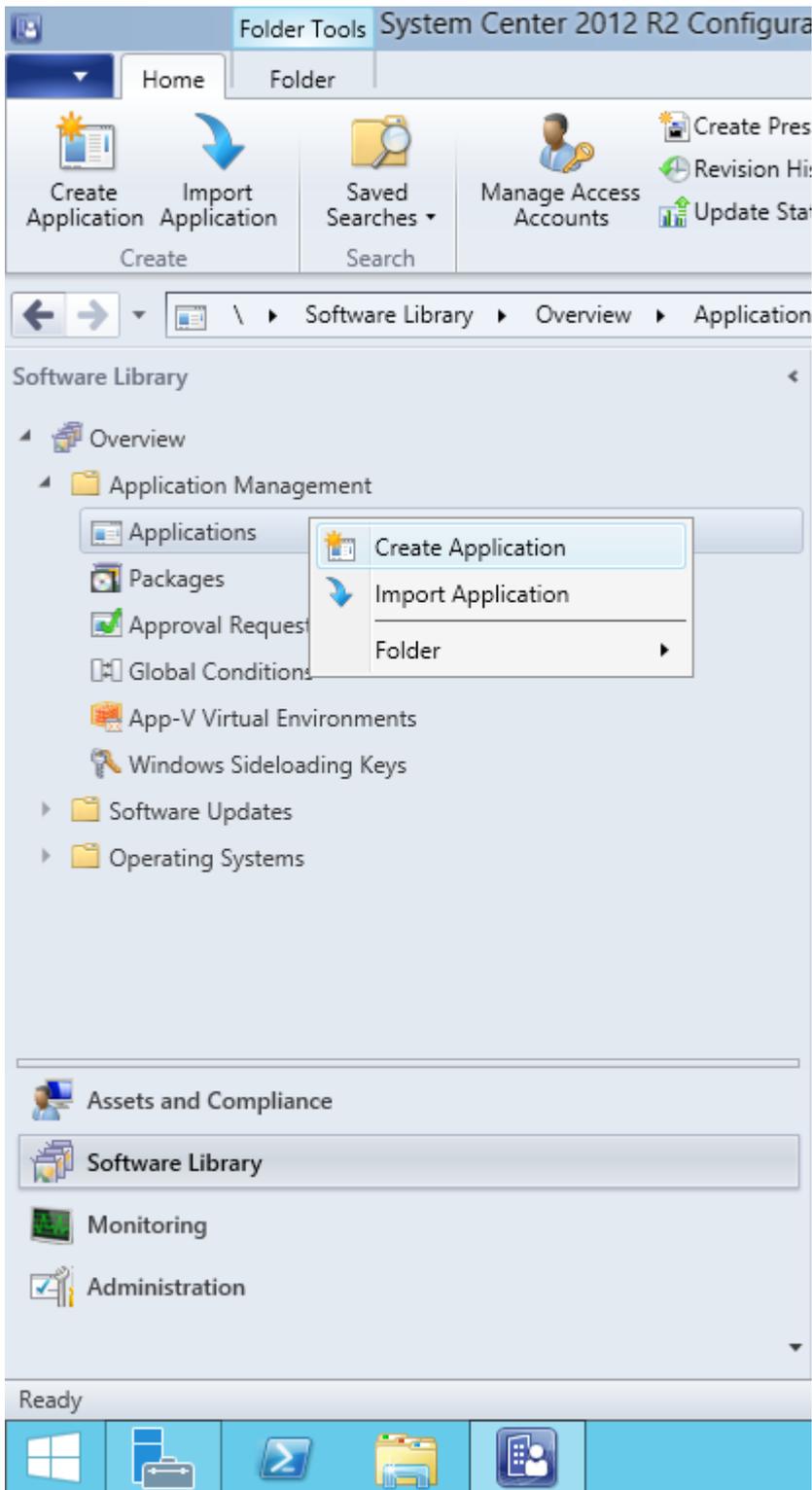
1. Vorbereiten von ABBYY FineReader PDF für die automatische Installation (Erstellen einer sogenannten "unbeaufsichtigten Installation").
2. Erstellen eines Bereitstellungsskripts, d. h. Auswählen der Installationsparameter:
  - Namen der Computer
  - Zeitpunkt der Installation
  - Installationsbedingungen
3. Installieren der Software auf den angegebenen Computern über SCCM entsprechend den im Skript festgelegten Installationsparametern.

## Beispiel: Bereitstellen von ABBYY FineReader PDF 16 mithilfe von SCCM

In diesem Beispiel wird die Bereitstellung unter Microsoft Windows Server 2012 R2 beschrieben.

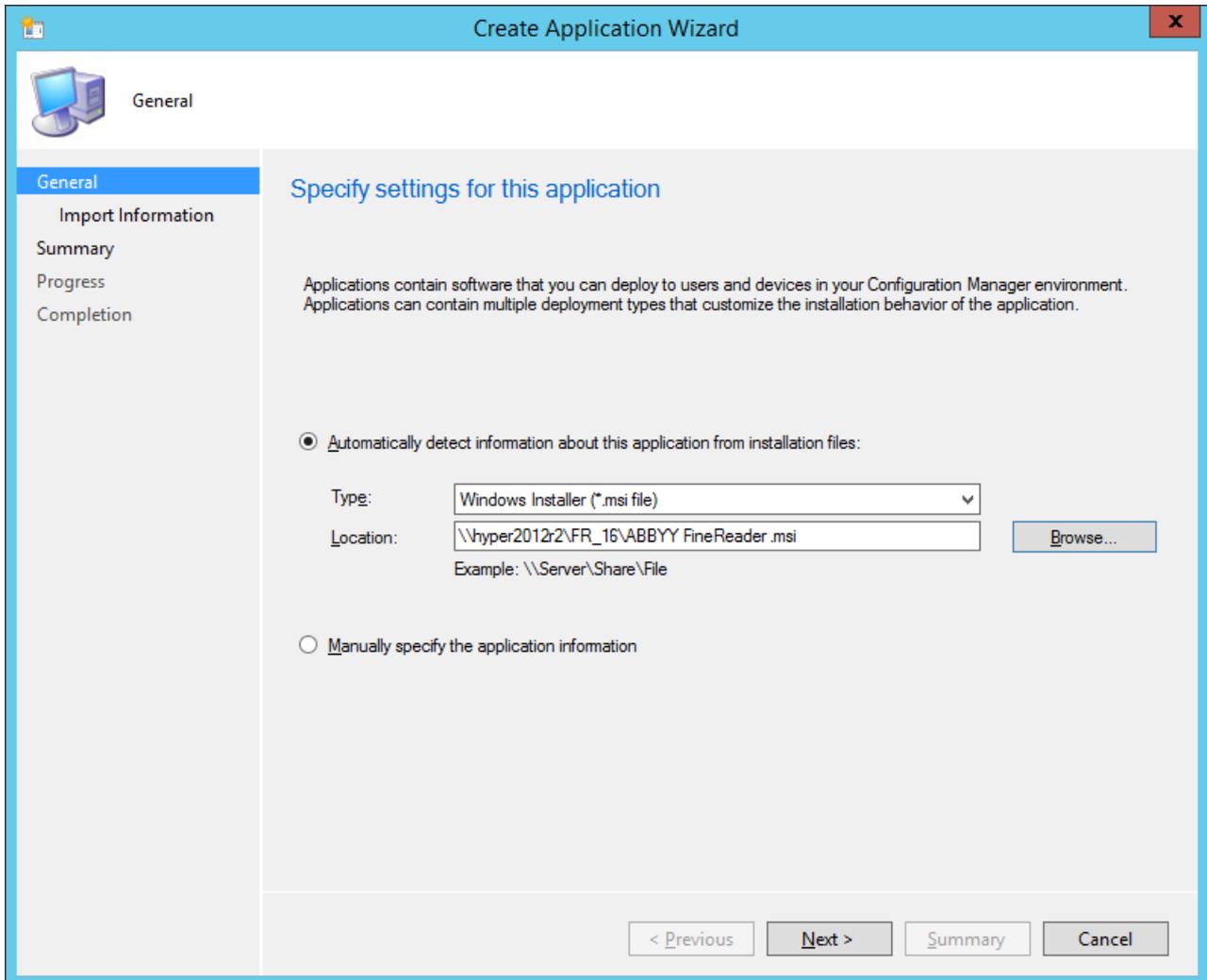
1. Erstellen Sie ein administratives Installationsverzeichnis (siehe [Administrative Installation mit Lizenz-Server und License Manager](#)<sup>[11]</sup>) oder ein administratives Installationsverzeichnis für mehrere Benutzer (siehe [Administratives Installationsverzeichnis für mehrere Benutzer erstellen](#)<sup>[19]</sup>).
2. Starten Sie die **SCCM Administrator Console** und wählen Sie den Abschnitt **Software Library**.
3. Wählen Sie die Option **Applications** in der Gruppe Application Management.

4. Klicken Sie mit der rechten Maustaste auf die Option **Applications** und klicken Sie auf **Create Application** im Kontextmenü.

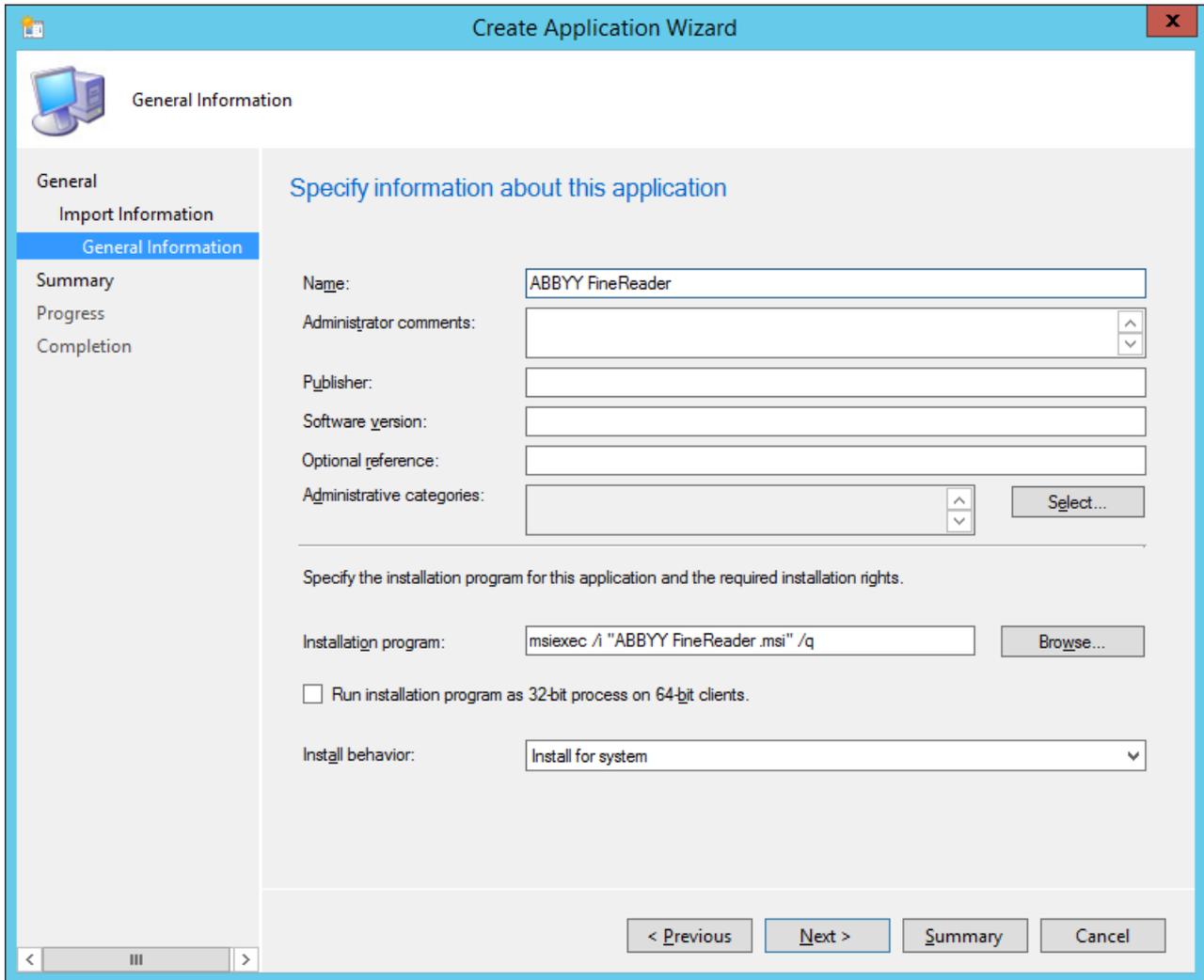


5. Wählen Sie im Dialogfeld **Create Application Wizard** die Option **Automatically Detect information about this application from installation files**. Wählen Sie **Windows Installer (\*.msi file)** aus der Dropdownliste **Type**. Geben Sie im Feld **Location** den Pfad zum administrativen Installationsverzeichnis an und klicken Sie auf **Next**.

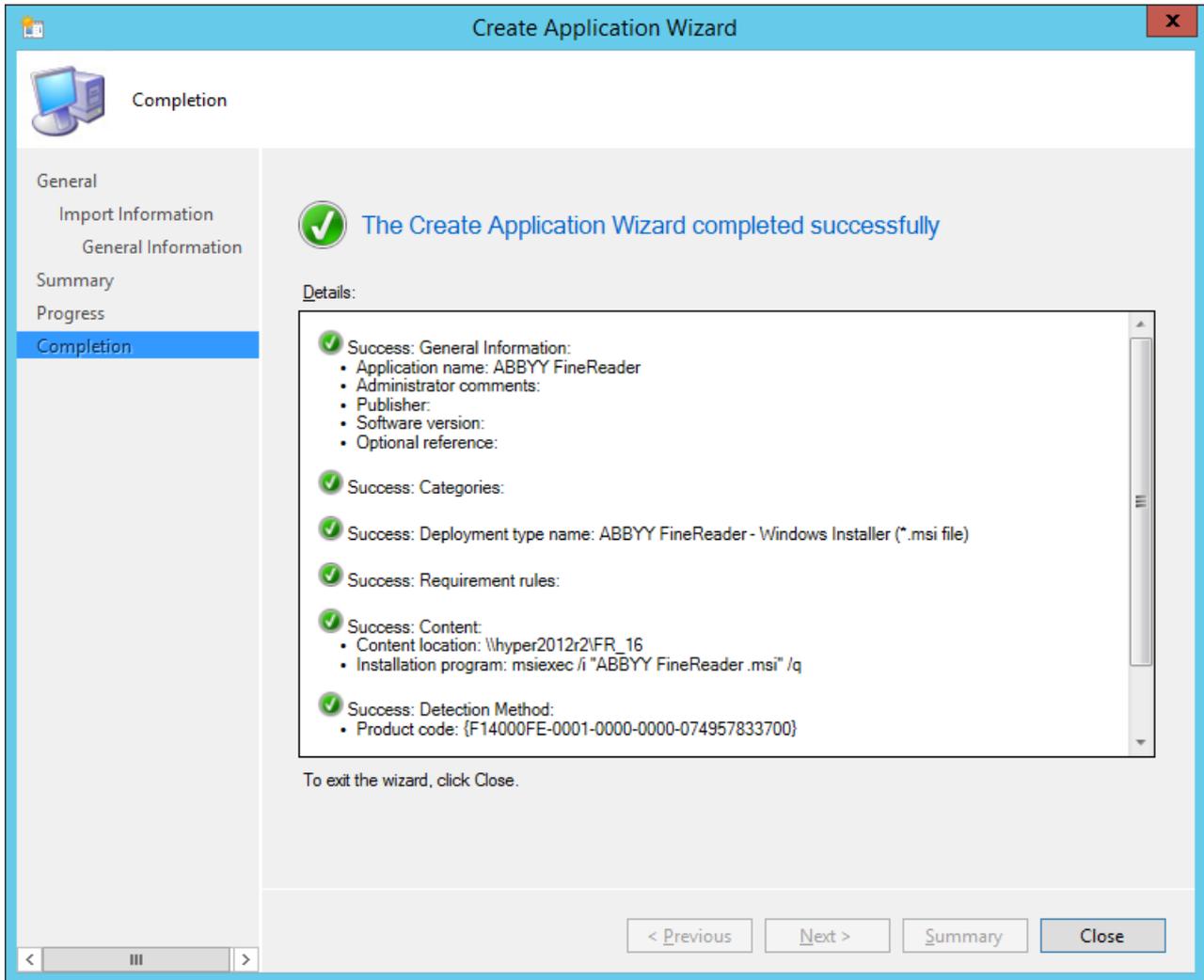
**Hinweis.** Die 32-Bit-Version von ABBYY FineReader PDF kann nicht auf einem 64-Bit-System installiert werden. Dasselbe gilt für die Installation einer 64-Bit-Version auf einem 32-Bit-System.

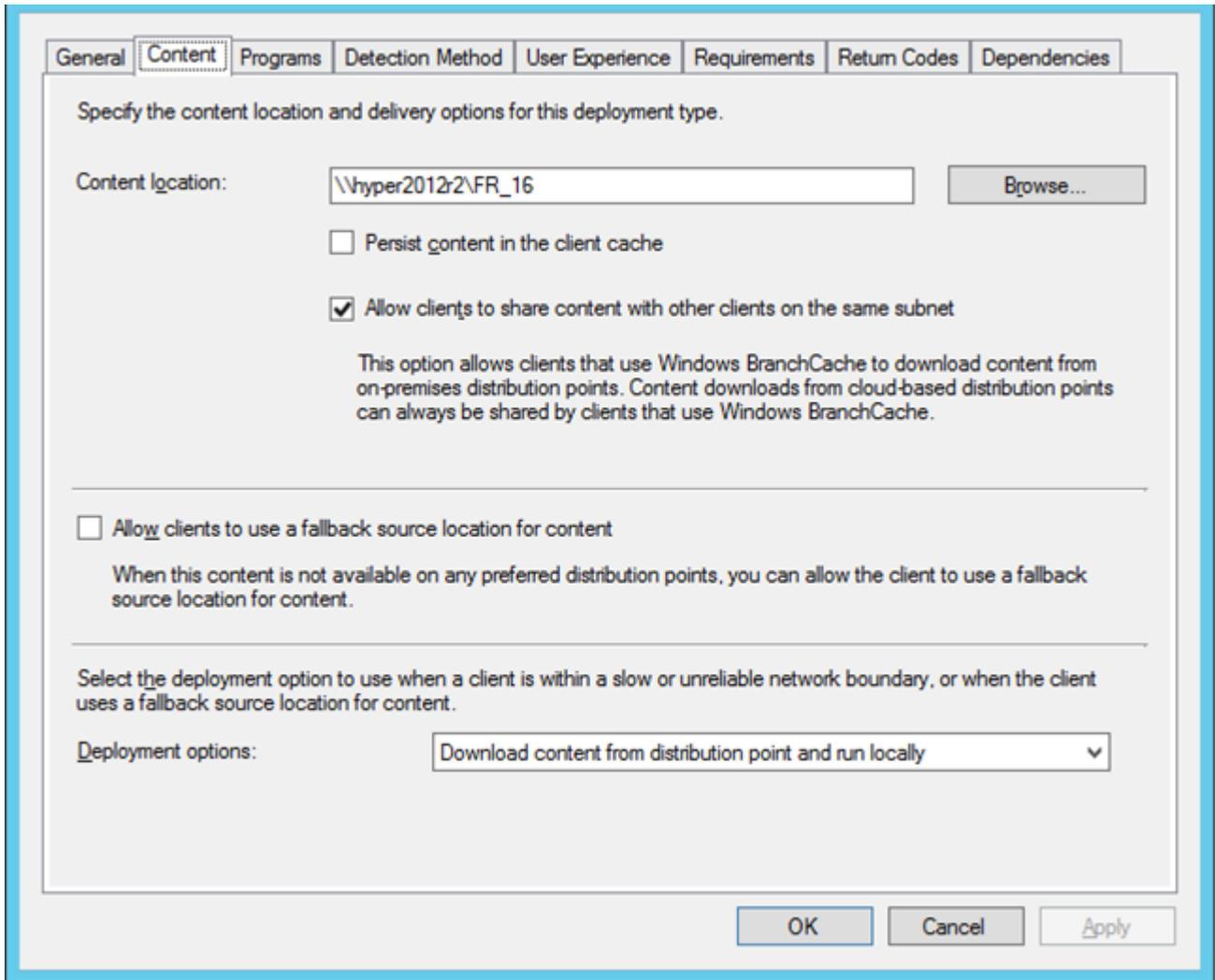


6. Geben Sie die erforderlichen Informationen über ABBYY FineReader PDF ein. Der Inhalt des Feldes **Installation Program** darf nicht verändert werden. Klicken Sie auf **Next**.



7. Prüfen Sie, ob die Anwendung erfolgreich erstellt wurde und schließen Sie den Dialog **Create Application Wizard**.

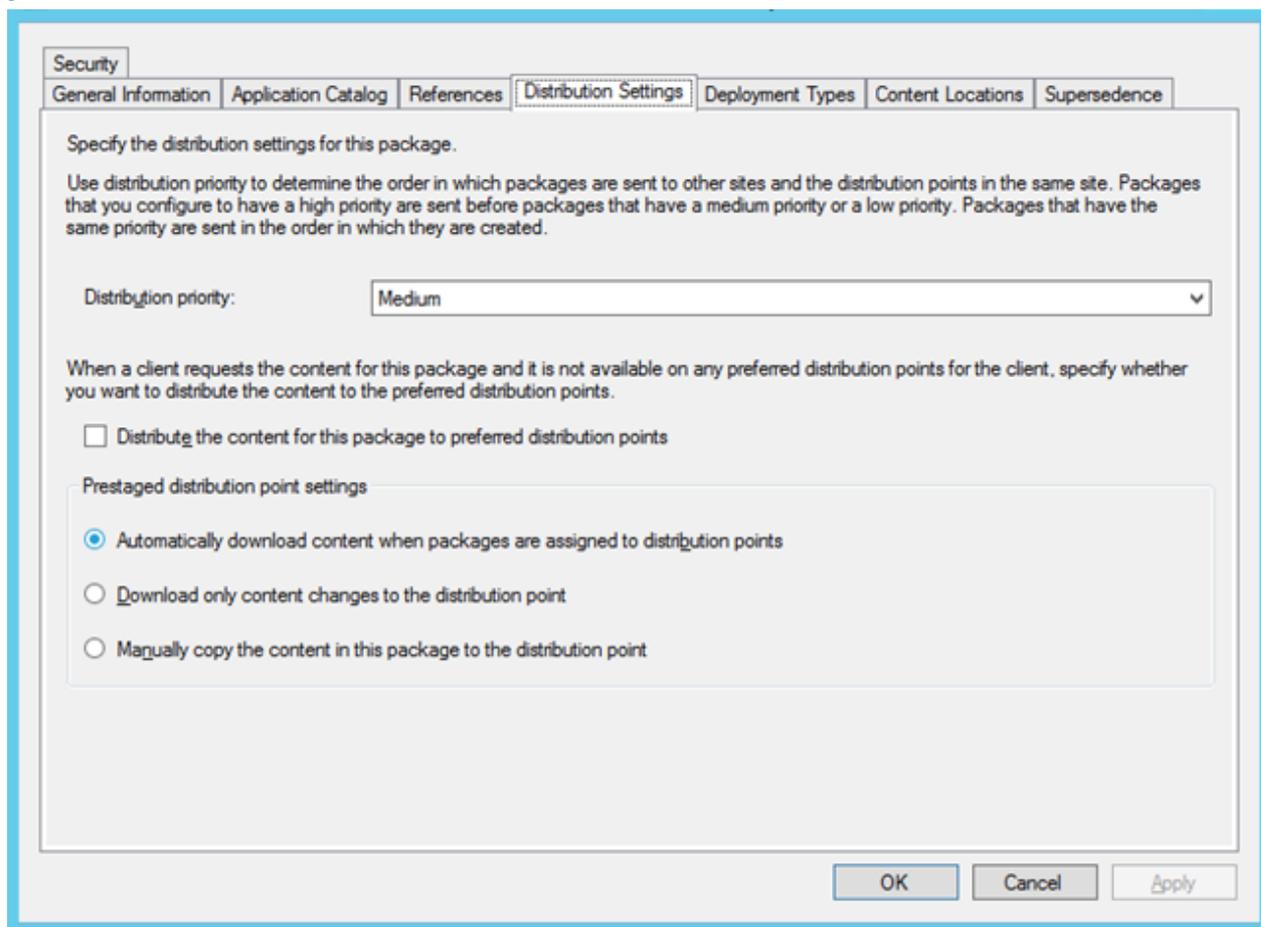




8. Automatisches Hochladen der Installationsdateien zum Server:

- a. Klicken Sie mit der rechten Maustaste auf die von Ihnen erstellte Anwendung und klicken Sie dann im Kontextmenü auf **Properties**.

- b. Wählen Sie im nächsten Dialogfeld die Registerkarte **Distribution Settings** und aktivieren Sie die Option **Automatically download content when packages are assigned to distribution points**.



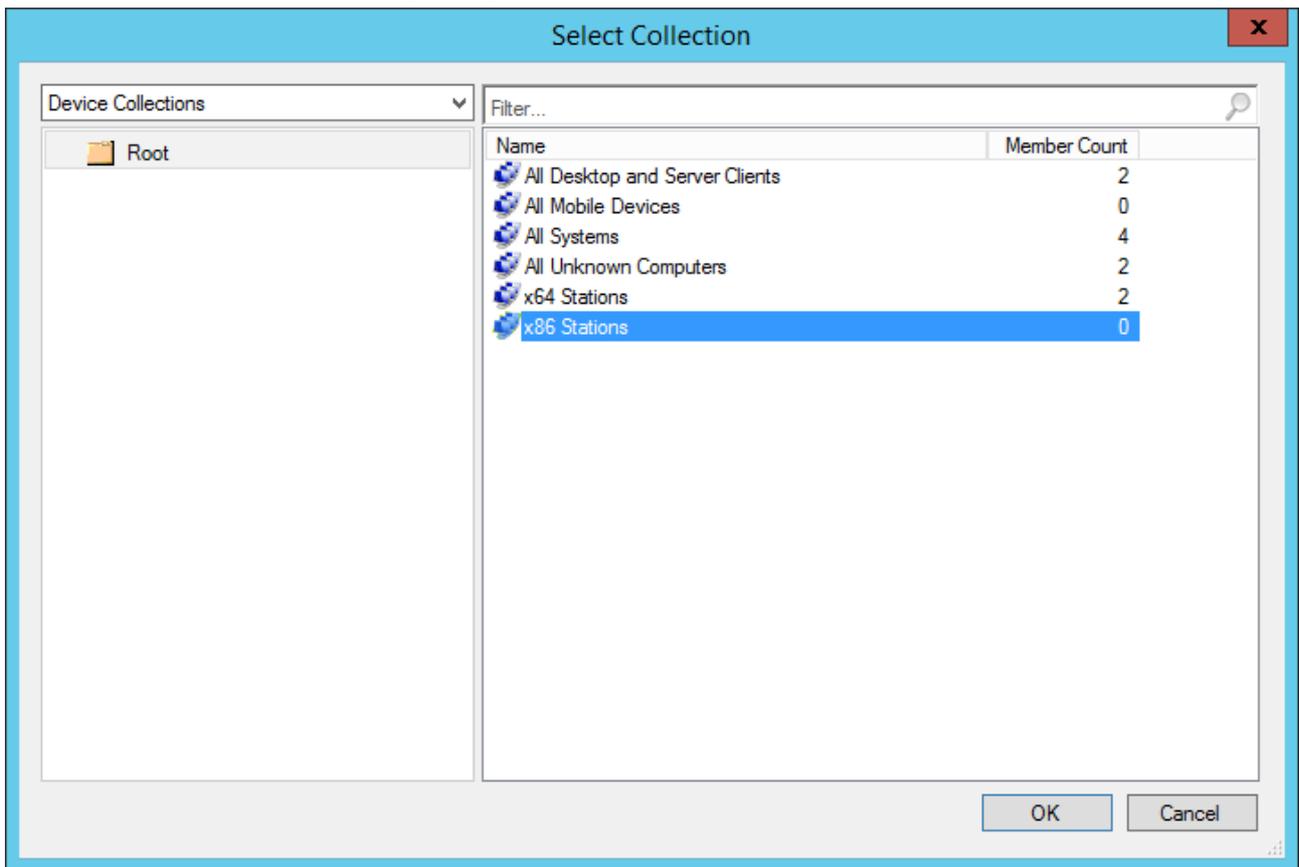
9. **Empfohlene Einstellungen:**

Wählen Sie auf der Registerkarte **Deployment Types** das ABBYY FineReader 16 Windows-Installationsprogramm und klicken Sie auf **Edit**. Wählen Sie im Dialogfeld Eigenschaften die Registerkarte **Content** legen Sie die **Deployment options** fest auf **Download content from distribution point and run locally**.

10. Um die Anwendung für die Workstations bereitzustellen, klicken Sie mit der rechten Maustaste darauf und klicken im Kontextmenü auf **Deploy**. Wählen Sie die gewünschte **Device Collection in Collection**.

**Hinweis:** **Benutzersammlung**-Installationen werden nicht **unterstützt**.

11. Schließen Sie die Bereitstellung wie gewohnt ab.



# Installieren von ABBYY FineReader PDF 16 auf einem Terminal Server

## Installation

Die Bereitstellung von ABBYY FineReader PDF wurde mit Citrix Workspace App 1808 und höher und mit Windows Server 2012 R2 und höher mit Windows Remote Desktop Services 7.0 getestet (die Installation wurde mithilfe von Windows RemoteApp und Citrix Workspace App durchgeführt). Beide dieser Lösungen können mit jeder Version von ABBYY FineReader PDF verwendet werden.

Application Streaming wird von ABBYY FineReader PDF nicht unterstützt.

Für **Gleitlizenz-** und **Remote-Benutzer-Lizenzen**:

1. Führen Sie eine administrative Installation durch.

License Server und License Manager können auf einem beliebigen Computer des lokalen Netzwerks installiert werden.

**Wichtig!** Ein Lizenzserver muss auf einem Rechner bereitgestellt werden, der auf allen lokalen Rechnern zugänglich ist und auf dem ABBYY FineReader PDF jederzeit ausgeführt wird.

**Hinweis.** Der Lizenzserver kann auf dem Terminal Server installiert werden.

Ausführliche Informationen finden Sie unter [Administrative Installation mit Lizenz-Server und License Manager](#)<sup>11</sup>.

2. Starten Sie License Manager.

3. Fügen Sie in License Manager alle Lizenzen hinzu, die Sie besitzen.

4. Installieren Sie ABBYY FineReader PDF aus dem administrativen Installationsordner auf dem Terminalserver.

ABBYY FineReader wird auf dem Terminalserver installiert, als ob es sich um eine Workstation handeln würde. Die Benutzer können eine Verbindung zum Server herstellen und FineReader über einen Client verwenden.

**Hinweis.** Ist ABBYY Screenshot Reader auf einem Terminalserver installiert und der Zugriff erfolgt über Windows RemoteApp oder Citrix Workspace App, können die Benutzer nur in den Anwendungen Screenshots erstellen, die auf dem Terminalserver ausgeführt werden.

## Spezifikationen für Gleitlizenzen und Remote-Benutzer-Lizenzen

Die Anzahl gleichzeitiger Verbindungen wird von den Lizenzparametern begrenzt.

**Hinweis.** Startet ein Benutzer ABBYY Hot Folder oder eine andere gebündelte Anwendung, ohne FineReader zu starten, wird dem Benutzer trotzdem eine **Gleitlizenz/Remote-Benutzer** zugeordnet. Das oben genannte gilt nicht für ABBYY Screenshot Reader, da für dessen Start keine **Gleitlizenz/Remote-Benutzer-Lizenz** benötigt wird.

## Systemvoraussetzungen für den Terminalserver

ABBYY FineReader PDF wurde mit den folgenden Terminalserver-Konfigurationen getestet:

1. Ein Computer, auf dem Microsoft Windows Server 2022, 2019, 2016, 2012 R2 (Remote Desktop, RemoteApp und Remote Desktop Web Access) ausgeführt wird
2. Citrix Workspace App 1808

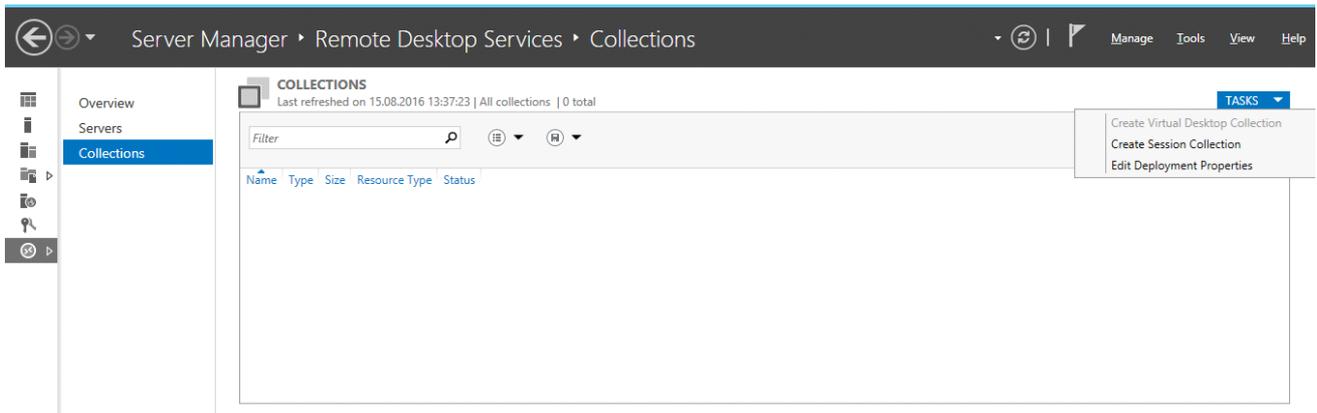
## Einrichten von Windows RemoteApp

ABBYY FineReader PDF kann mithilfe von RemoteApp bereitgestellt werden. Die folgenden Anweisungen erläutern die Einrichtung von RemoteApp unter Microsoft Windows Server 2012 R2.

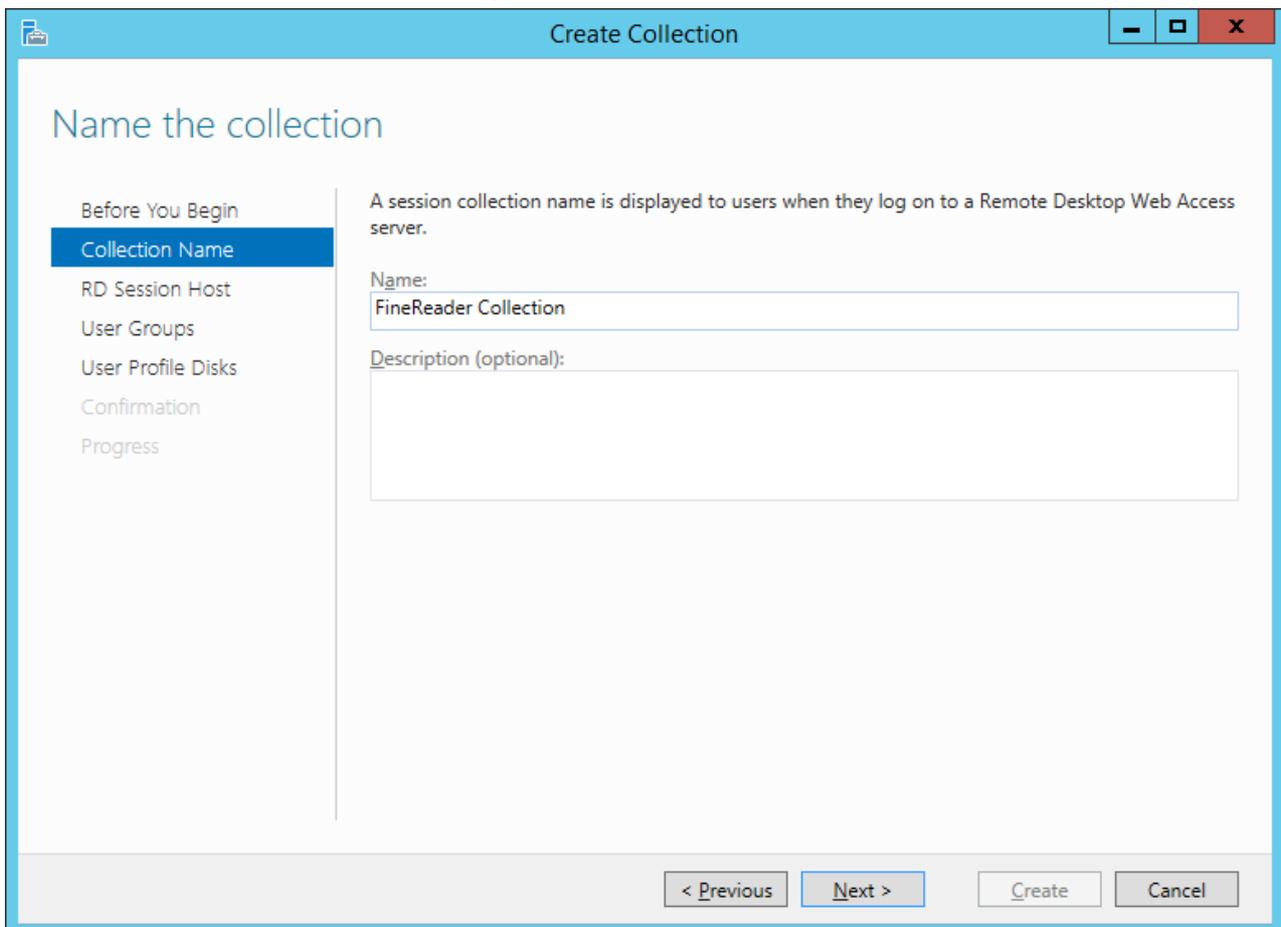
Installieren Sie ABBYY FineReader PDF auf dem Server.

Erstellen Sie eine Sitzungssammlung:

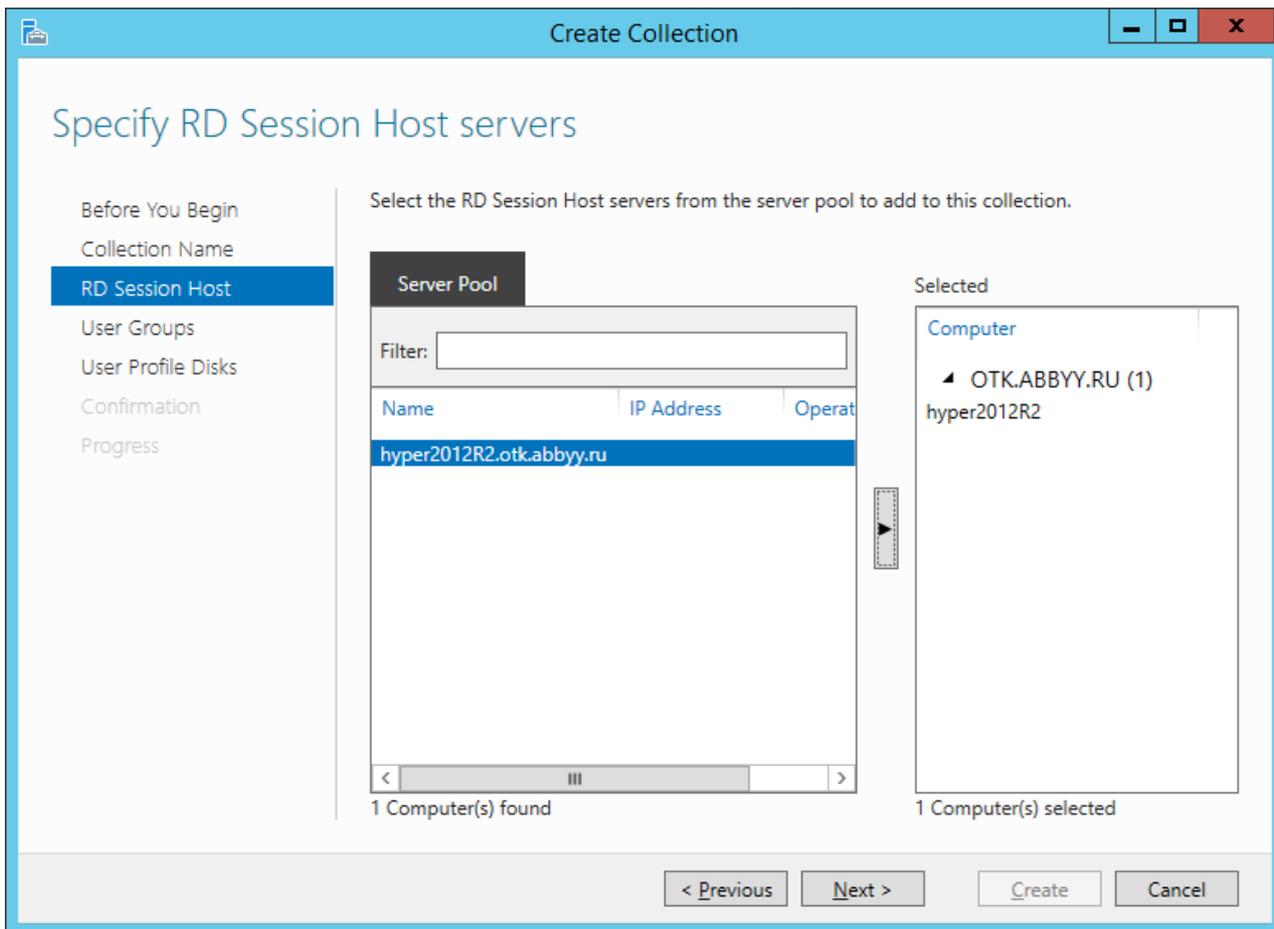
1. Öffnen Sie den **Server Manager** und klicken Sie auf **Remote Desktop Services > Collections**.
2. Klicken Sie auf **TASKS > Create Session Collection**.



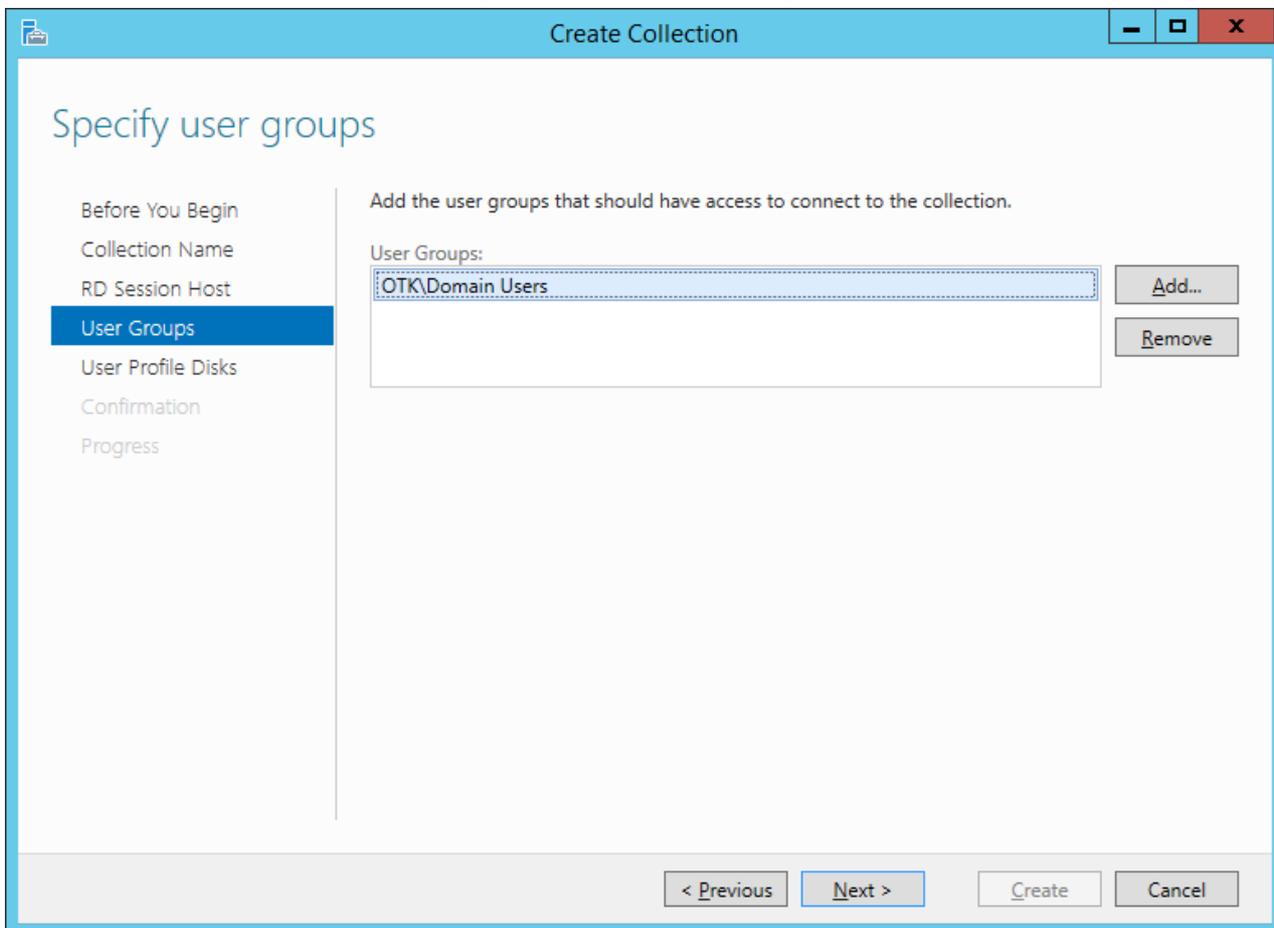
3. Geben Sie den Namen der Sammlung ein.



4. Wählen Sie die Server aus, auf denen die Anwendungen ausgeführt werden.



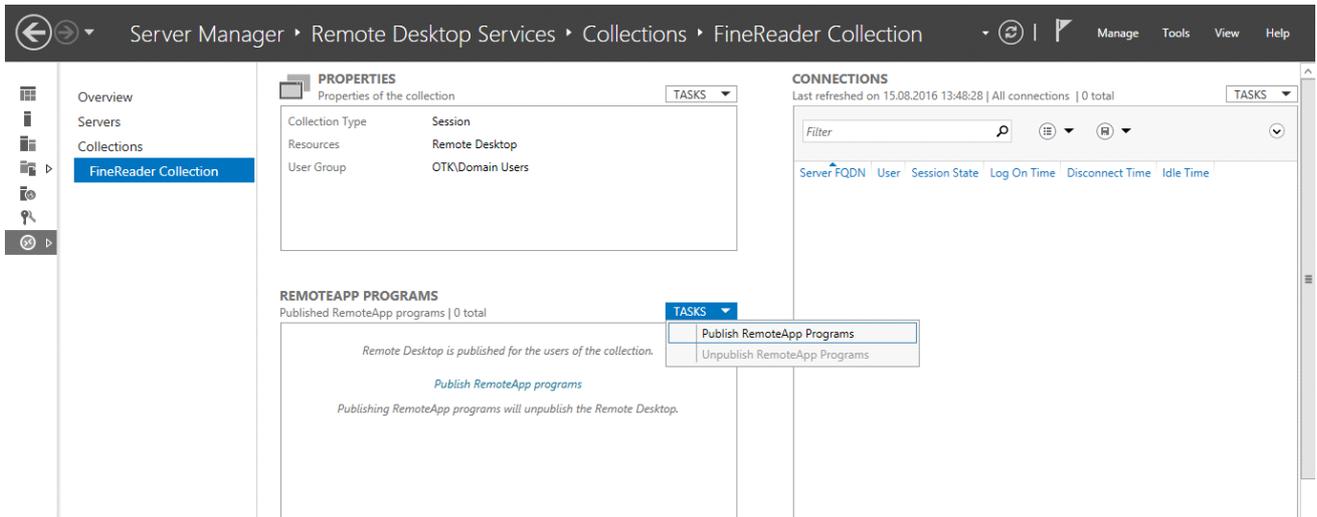
5. Wählen Sie die Gruppen aus, die Zugriff auf die Anwendung haben werden.



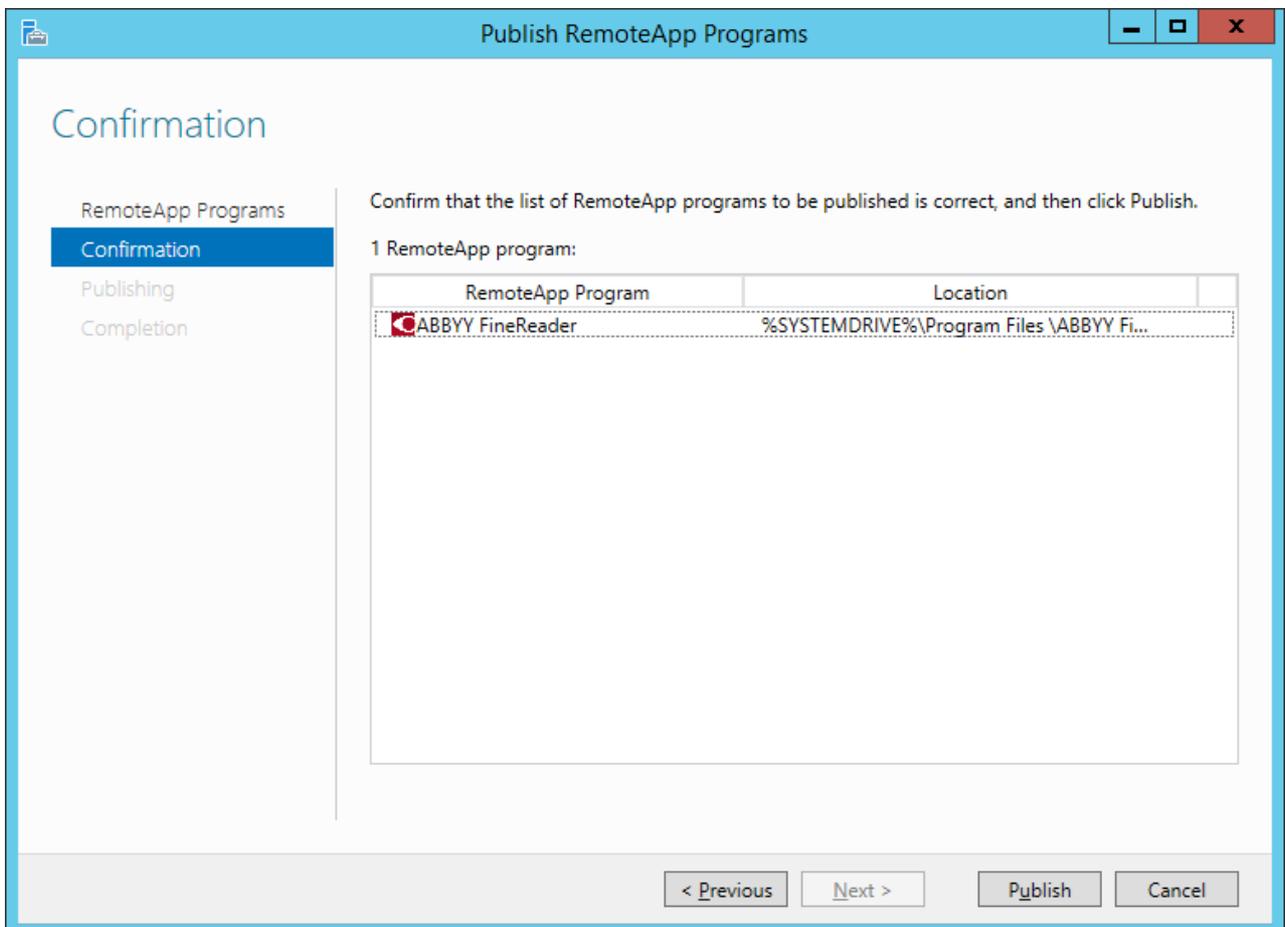
- Geben Sie an, ob Sie eine **User Profile Disc** hinzufügen möchten.
- Klicken Sie auf **Create**.

Fügen Sie ABBYY FineReader PDF der Sammlung hinzu:

- Öffnen Sie den **Server Manager** und klicken Sie auf Remote **Desktop Services** > **Collection** > **[name of collection]**.
- Klicken Sie auf **TASKS** > **Publish RemoteApp Programs**



- Wählen Sie ABBYY FineReader PDF und klicken Sie auf **Next**.



- Klicken Sie auf **Publish**.

## Einrichtung von Citrix Workspace App

Bei der Bereitstellung von ABBYY FineReader PDF mithilfe von Citrix Workspace App verwenden Sie das Szenario **Installed application accessed from a server**.

Bereitstellung von ABBYY FineReader PDF Corporate:

1. Installieren Sie FineReader auf allen Servern der Zustellungsgruppe der Citrix-Farm\*.
2. Erstellen Sie einen Lizenzierungsserver und fügen Sie eine ausreichende Anzahl Lizenzen hinzu.

**Hinweis.** Startet ein Benutzer ABBYY Hot Folder oder eine andere gebündelte Anwendung, ohne FineReader zu starten, wird dem Benutzer trotzdem eine **Gleitlizenz/Remote-Benutzer** zugeordnet. Das oben genannte gilt nicht für ABBYY Screenshot Reader, da für dessen Start keine **Gleitlizenz/Remote-Benutzer-Lizenz** benötigt wird.

\* Eine Farm besteht aus mehreren Citrix-Servern, die für zentrale Administration, Lastverteilung und Fehlertoleranz miteinander verbunden sind.

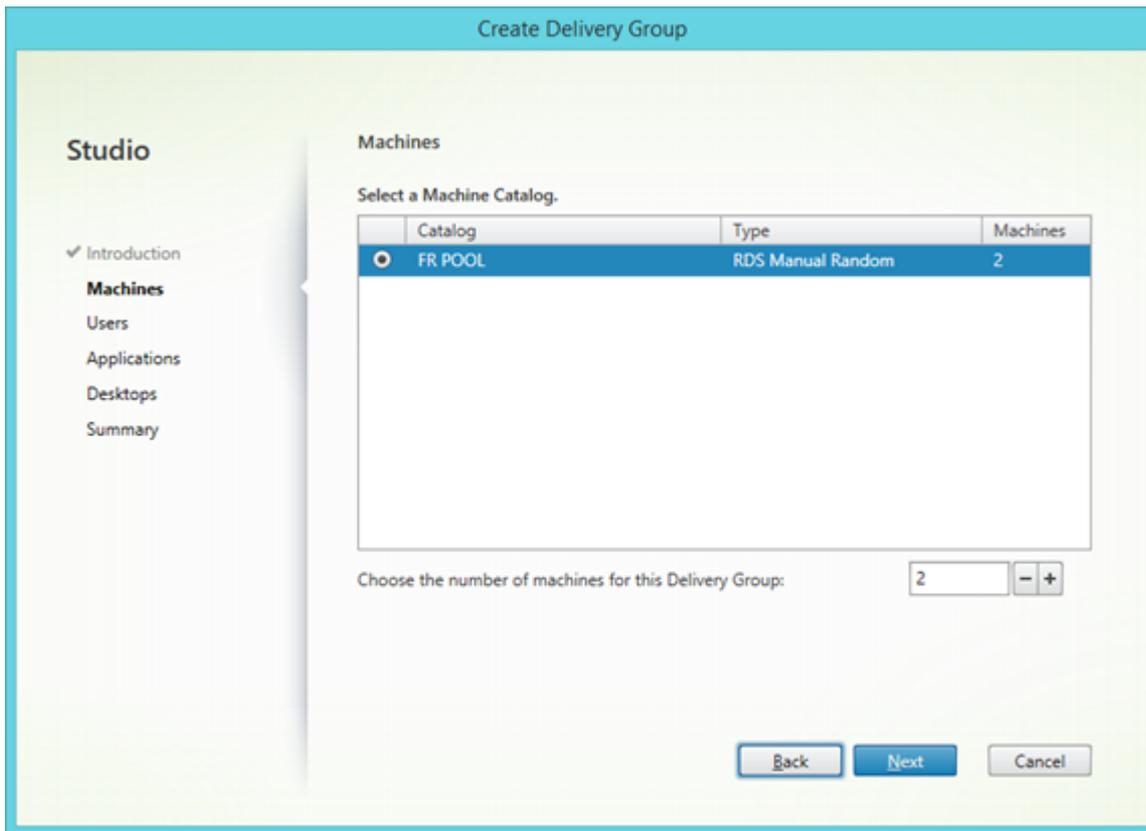
### Beispiel: Einrichtung von Citrix Workspace App 1808

1. Öffnen Sie Citrix Studio.
2. Wählen Sie die Farm aus, wo ABBYY FineReader PDF bereitgestellt werden soll.
3. Erstellen Sie eine Zustellungsgruppe für FineReader oder fügen Sie FineReader einer vorhandenen Gruppe hinzu.

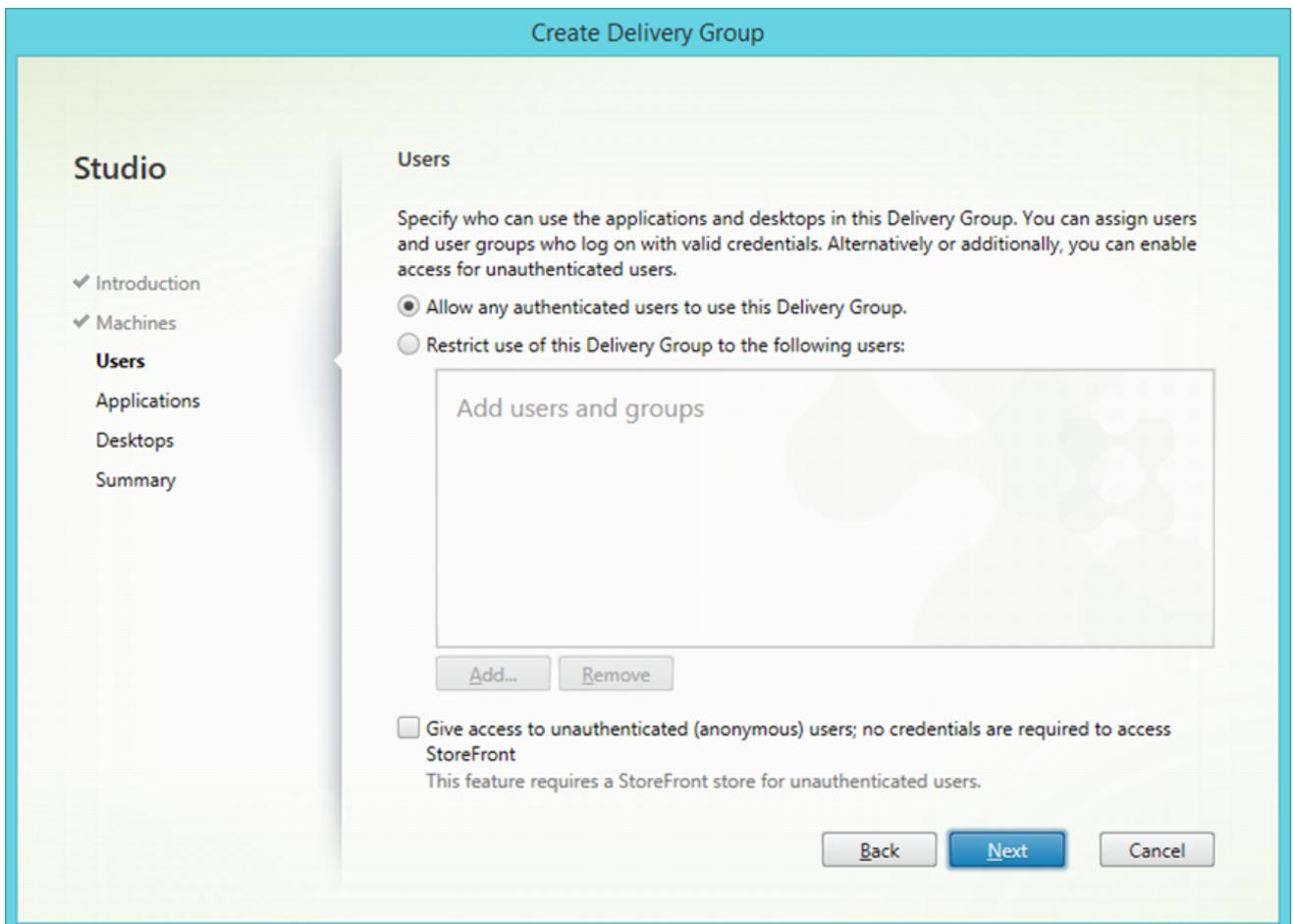
#### So erstellen Sie eine neue Zustellungsgruppe:

1. Klicken Sie auf **Delivery Groups > Create Delivery group**.

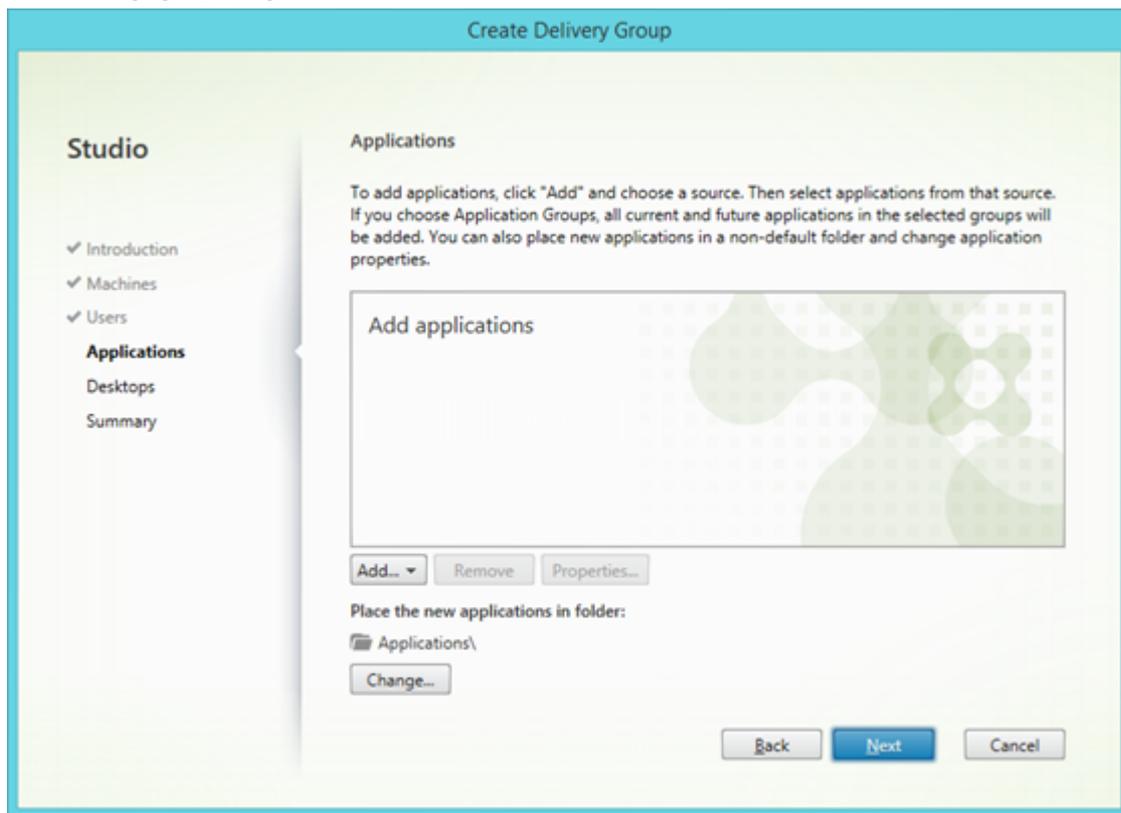
- Wählen Sie im Schritt **Machines** einen Rechnerkatalog aus der Liste und geben Sie die Anzahl der Server ein, die Sie verwenden möchten.



- Geben Sie auf der Registerkarte **Users** an, welche Benutzer Zugriff auf die Zustellungsgruppe haben oder beschränken Sie die Zustellungsgruppe auf bestimmte Benutzer.

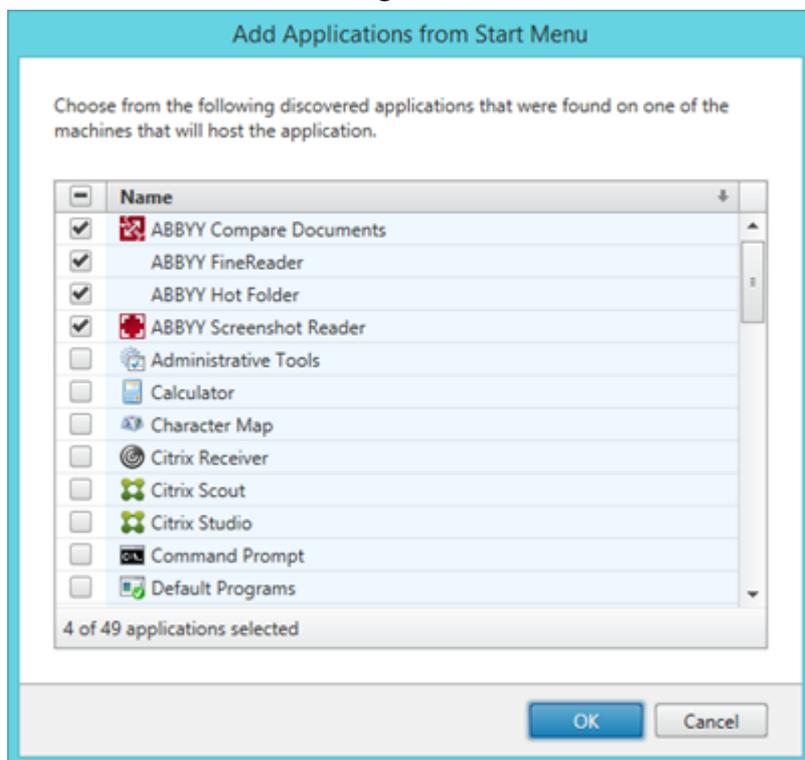


4. Klicken Sie im Schritt **Applications** auf **Add...** und wählen Sie die Anwendungen aus, die in der Zustellungsgruppe gestartet werden können.



4.1. From start menu...

Wählen Sie ABBYY FineReader PDF aus der Liste. Wenn Sie möchten, dass die Benutzer Zugriff auf die gebündelten Anwendungen haben sollen, ohne zuerst FineReader starten zu müssen, wählen Sie diese Anwendungen aus. Klicken Sie auf **OK**.



#### 4.2. Manually...

Sind auf den ausgewählten Servern mehrere Anwendungsverzeichnisse verfügbar, wählen Sie mit ABBYY FineReader PDF im Feld **Working directory** das Verzeichnis aus. Geben Sie unter **Path to the executable file**, den Pfad zu FineReader.exe an und geben Sie dann jeweils für Benutzer und Administratoren einen Namen für die Anwendung ein. Klicken Sie auf **OK**.

**Add Applications Manually**

**Add an Application Manually**

You can add applications from the virtual machine in this Delivery Group or from a different network location.

**Path to the executable file:**

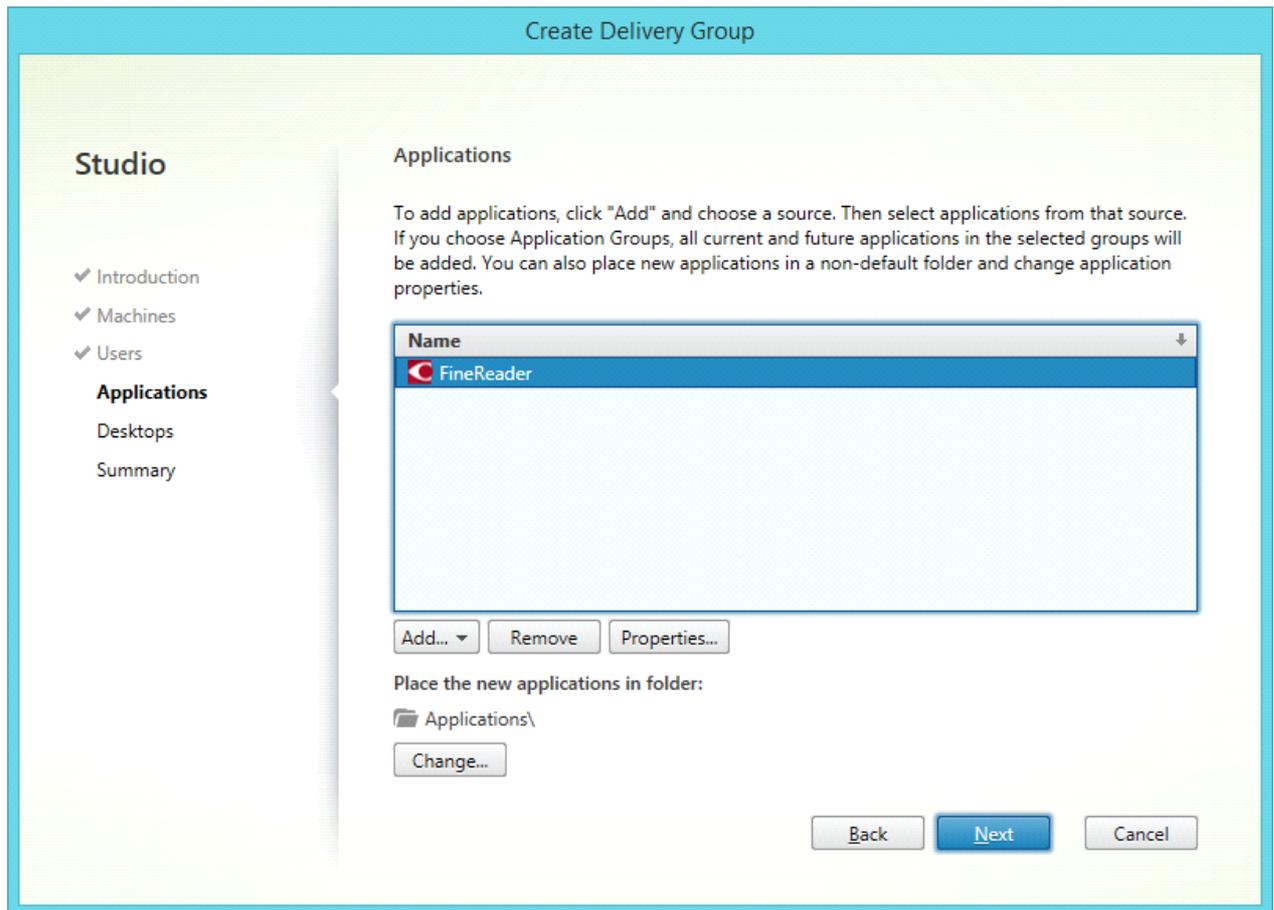
**Command line argument (optional):**

**Working directory:**

**Application name (for user):**

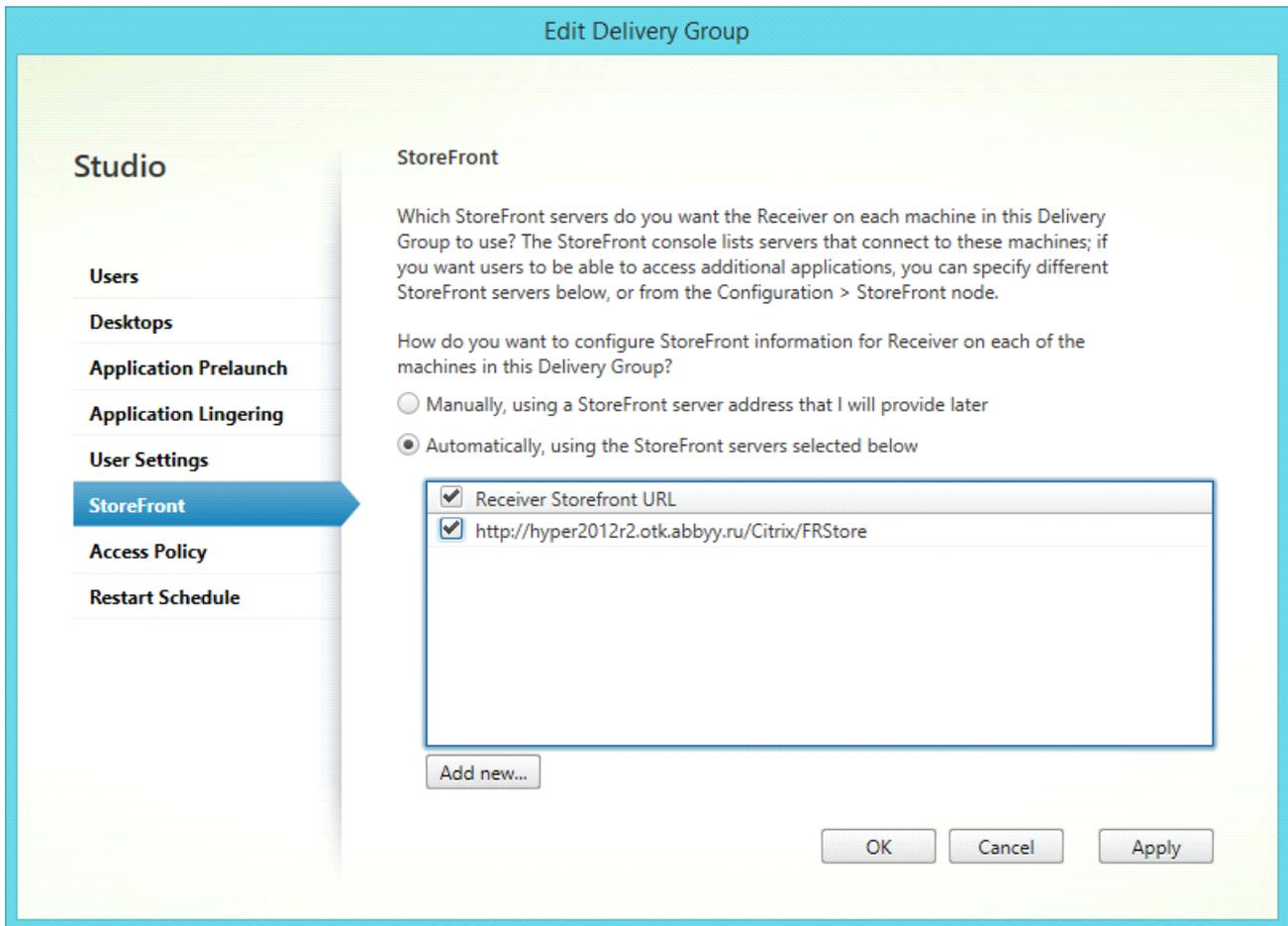
**Application name (for administrator):**

4.3. Fügen Sie alle Anwendungen hinzu, die in derselben Zustellungsgruppe wie ABBYY FineReader PDF angezeigt werden sollen und klicken Sie auf **Next**.



5. Fügen Sie im Schritt **Desktops** die Desktops hinzu, die von der Zustellungsgruppe bereitgestellt werden. Wenn Sie für Desktops keinen Zugriff bereitstellen möchten, überspringen Sie diesen Schritt.
6. Geben Sie im Schritt **Summary** unter **Delivery Group name** einen Namen für die Zustellungsgruppe und unter **Delivery Group description, used as label in Receiver (optional)** eine Bezeichnung ein. Schließen Sie die Erstellung der Zustellungsgruppe ab.

- Wählen Sie die soeben erstellte Zustellungsgruppe aus und klicken Sie auf **Edit Delivery Group**. Wählen Sie im nächsten Dialogfeld die Registerkarte **StoreFront**, aktivieren Sie die Option **Automatically, using the StoreFront servers selected below** legen Sie die **StoreFront**-Server der Zustellungsgruppe fest.



So fügen Sie ABBYY FineReader PDF einer vorhandenen Zustellungsgruppe hinzu:

- Wählen Sie die Zustellungsgruppe aus, der Sie FineReader hinzufügen möchten und klicken Sie auf **Add Applications**.
- Fügen Sie ABBYY FineReader PDF auf die gleiche Weise hinzu, wie in Schritt 4 für eine neue Zustellungsgruppe beschrieben.

# Verwenden einer Gruppenrichtlinie zur Konfiguration von ABBYY FineReader PDF 16

Der Administrator kann Menüelemente und Optionen zum Senden oder Herunterladen von Daten über das Internet deaktivieren. Der Administrator kann auch das Verhalten von ABBYY FineReader PDF verändern. Die folgenden Optionen stehen zur Verfügung:

**Enable 'FineReader PDF Blog' menu item** – Zeigt das Menüelement **Hilfe > FineReader PDF Blog** an

**Enable 'Check for Updates' menu item** – Zeigt das Menüelement **Hilfe > Auf Updates überprüfen** an

**Enable 'Send Feedback' menu item** – Zeigt das Menüelement **Hilfe > Feedback senden** an

**Enable Usage Statistics** – Ermöglicht dem Programm das Senden anonymer Daten über die Einstellungen in ABBYY FineReader PDF und von Nutzungsstatistiken an ABBYY zum Zweck der Softwareverbesserung

**Enable activation by user** – Zeigt das Menüelement **Hilfe > Aktivieren...** und das Dialogfeld **Lizenzen** an (**Hilfe > Über... > Lizenzinformationen**)

**Enable 'Register...' menu item** – Zeigt das Menüelement **Hilfe > Registrieren...** an

**Enable 'Buy Full Version'** – Zeigt die Schaltfläche **Vollversion kaufen** oben rechts im Programm an

**Enable loading marketing tips from the ABBYY servers** – Ermöglicht den Download von Tipps und ABBYY Marketing-Nachrichten von den ABBYY-Servern

**Automatically check for updates** – Überprüft automatisch auf ABBYY FineReader PDF-Updates

**Enable online help** – Öffnet die Online-Hilfe (die Offline-Hilfe ist nur für einige Versionen von ABBYY FineReader verfügbar)

**Enable working with FTP** – Ermöglicht die Verarbeitung von Dateien aus Ordnern, die sich auf dem FTP-Server befinden, in der Anwendung ABBYY Hot Folder

**Accept EULA and Privacy Policy on behalf of all group users** – Fordern Sie die Benutzer nicht auf, die EULA und die Datenschutzrichtlinien zu akzeptieren.

Durch die Verwendung dieser Gruppenrichtlinie akzeptiert der Administrator den EULA und die Datenschutzrichtlinien im Namen der Benutzer der Gruppe.

**Achtung:** Sie werden nicht erneut aufgefordert, Änderungen des EULA und der Datenschutzrichtlinien zu akzeptieren. Der Gruppenadministrator ist dafür verantwortlich, bei der Installation alle Änderungen zu überwachen, die sich aus Produktaktualisierungen ergeben. Durch die Verwendung des aktualisierten Produkts akzeptieren Sie die neuesten Versionen der EULA und der Datenschutzrichtlinien. Der Gruppenadministrator kann die Zustimmung nach der Installation der neuesten Aktualisierungen innerhalb von 10 Tagen widerrufen, indem er sie deinstalliert.

**Prompt to make ABBYY FineReader the default PDF application** – Aktiviert ein Dialogfenster, das Sie auffordert, ABBYY FineReader PDF als Standard-PDF-Betrachter auszuwählen.

**Enable 'Quick Start Guide' menu item** – Zeigt das Menüelement **Hilfe** > **Schnellstarthandbuch** an

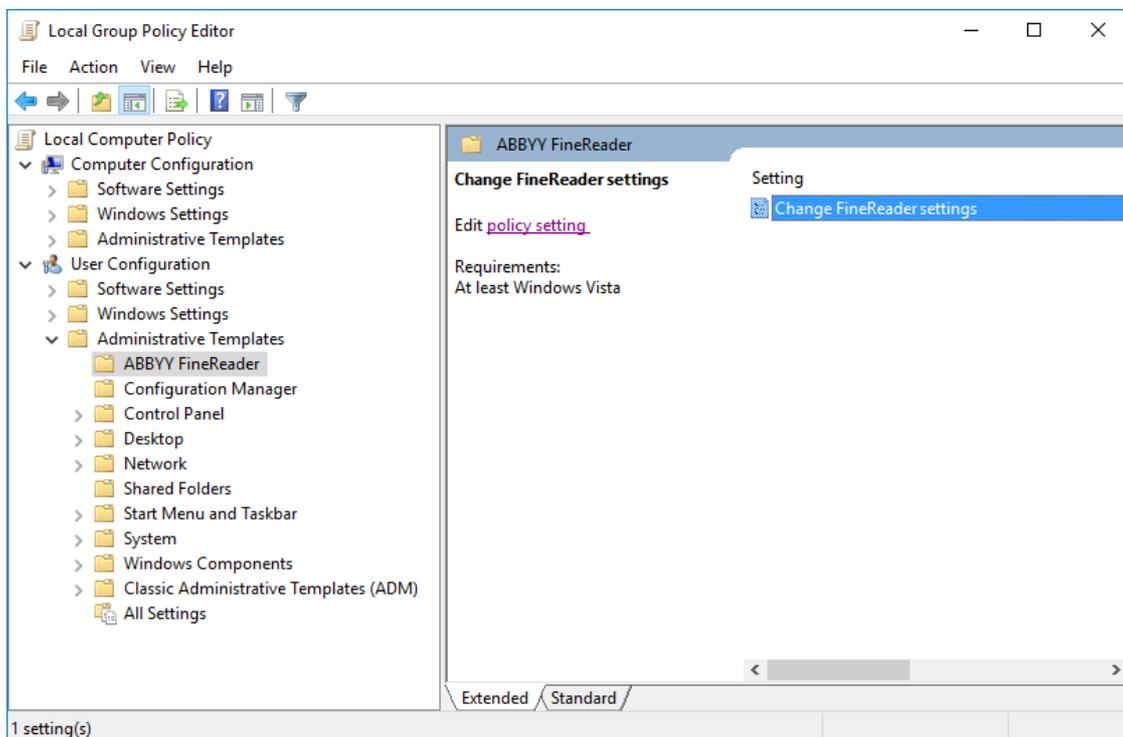
**Max number of CPU cores: N** – Legt eine maximale Anzahl von Prozessoren fest, die von ABBYY FineReader PDF verwendet werden können (Einstellung N=0 entfernt diese Beschränkung)

**Period of inactivity (hrs) after which license will be lost: M** – Gibt die **Gleitlizenz- / Remote-Benutzer-Lizenz** nach M Stunden der Benutzerinaktivität frei (die Einstellung M=0 deaktiviert diese Option)

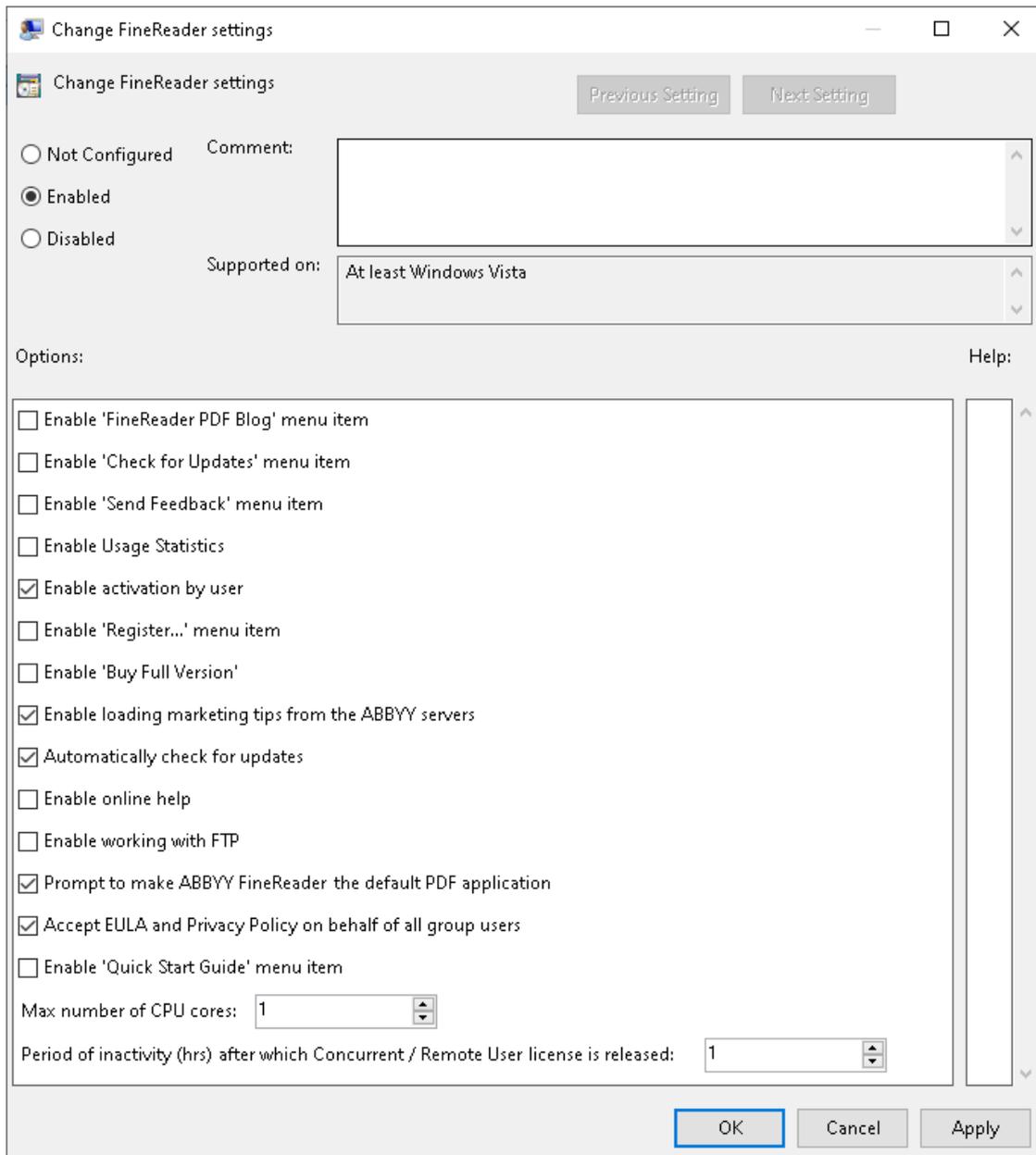
**Hinweis:** Um die oben genannten Parameter zu ändern, laden Sie die Dateien [FineReader16.admx](#) und [FineReader16.adml](#) herunter.

# Einrichten von ABBYY FineReader PDF 16 auf einem lokalen Computer

1. Laden Sie die Dateien [FineReader16.admx](#) und [FineReader16.adml](#) herunter.
2. Legen Sie die Datei **FineReader.admx** im Ordner `%systemroot%\policyDefinitions` und die Datei **FineReader16.adml** im Ordner `%systemroot%\policyDefinitions\en-US` ab.
3. Öffnen Sie das Dialogfeld **Ausführen** (Win + R) und führen Sie **gpedit.msc** aus. Dadurch wird das Fenster **Lokaler Gruppenrichtlinien-Editor** geöffnet.
4. Um Ihre Gruppenrichtlinie zu bearbeiten, wählen Sie **Benutzerkonfiguration** > **Administrative Vorlagen** > **ABBYY FineReader PDF** und öffnen Sie die Richtlinie **FineReader 16-Einstellungen ändern**.



5. Markieren Sie die entsprechenden Parameter und klicken Sie auf **OK**.

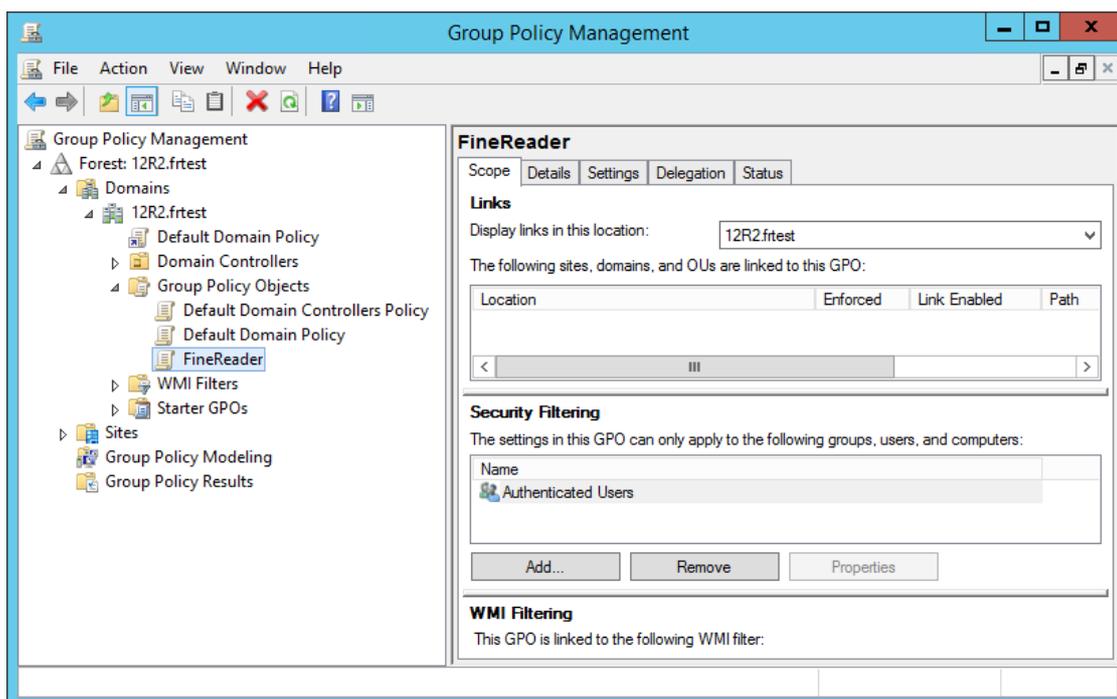


6. Um Ihre Änderungen zu speichern, aktualisieren Sie die Gruppenrichtlinien und starten Sie ABBYY FineReader PDF auf der Workstation neu.

**Hinweis.** Mithilfe der Gruppenrichtlinie konfigurierte Parameter werden global für alle Anwendungen übernommen, die Teil von ABBYY FineReader PDF sind.

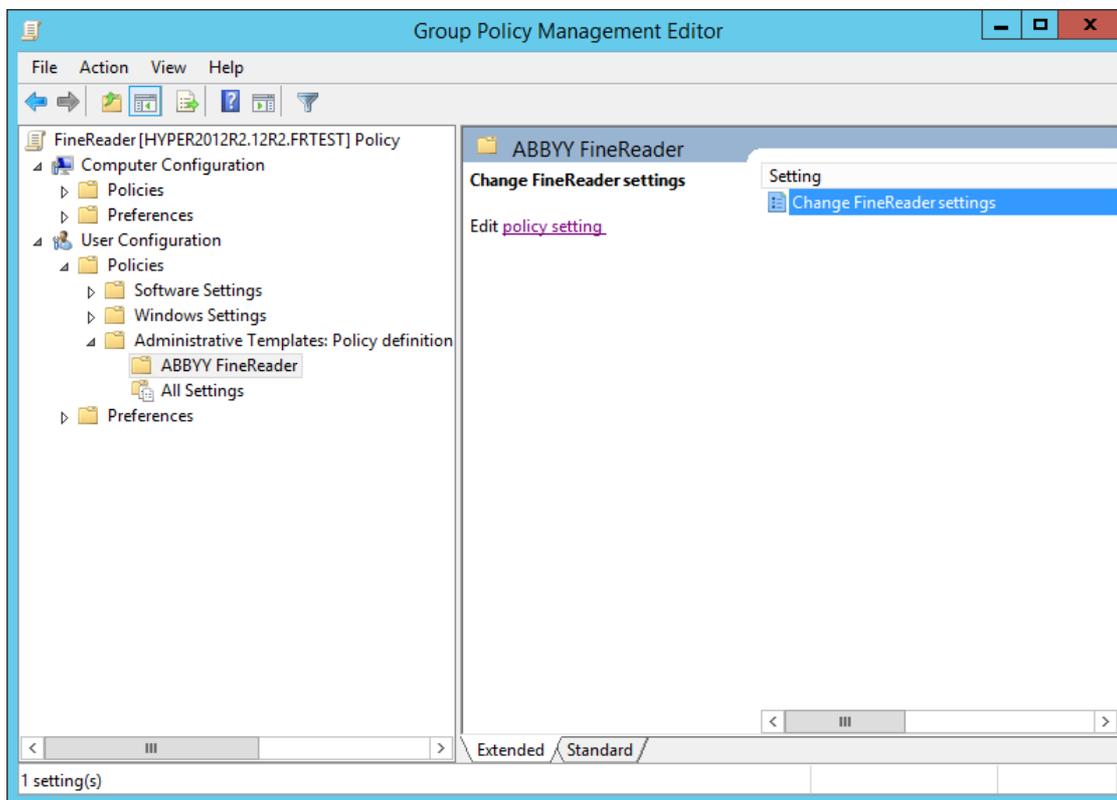
## Einrichten von ABBYY FineReader PDF 16 auf allen Rechnern der Domäne gleichzeitig

1. Laden Sie die Dateien [FineReader16.admx](#) und [FineReader16.adml](#) herunter.
2. Legen Sie die Datei **FineReader.admx** in den Ordner **%systemroot%\sysvol\domain\*\policies\PolicyDefinitions** und die Datei **FineReader16.adml** in den Ordner **%systemroot%\sysvol\domain\*\policies\PolicyDefinitions\en-us**.  
\* domainname
3. Öffnen Sie das Dialogfeld **Ausführen** (Win + R) und führen Sie **gpmc.msc** aus. Dadurch wird die Konsole **Gruppenrichtlinienverwaltung** geöffnet.
4. Ein neues Gruppenrichtlinienobjekt erstellen. Dazu öffnen Sie das Kontextmenü für den Knoten **Gruppenrichtlinienobjekte** und wählen **Neu**.
5. Geben Sie einen Namen für Ihre Gruppenrichtlinie ein und klicken Sie auf **OK**.
6. Erweitern Sie den Knoten **Gruppenrichtlinienobjekte**.

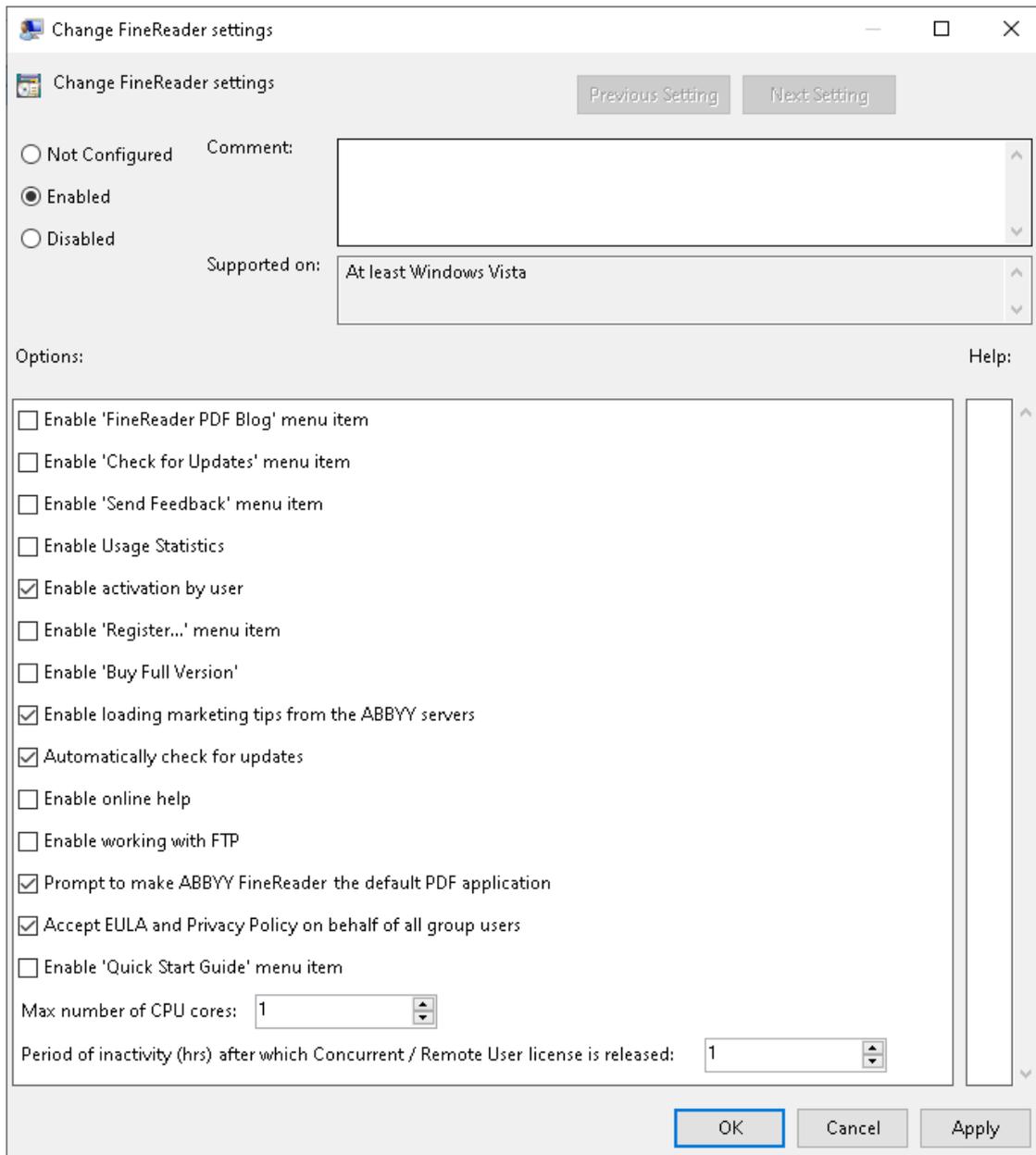


7. Öffnen Sie das Kontextmenü des in Schritt 4 erstellten Gruppenrichtlinienobjekts und wählen Sie **Bearbeiten**. Dadurch wird das Fenster **Gruppenrichtlinie Management Editor** geöffnet.

- Um eine Gruppenrichtlinie zu bearbeiten, wählen Sie **Benutzerkonfiguration > Richtlinien > Administrative Vorlagen: Richtliniendefinitionen (vom zentralen Speicher abgerufene ADMX-Dateien) > ABBYY FineReader PDF** und öffnen Sie die Richtlinie **FineReader 16-Einstellungen ändern**.



9. Markieren Sie die entsprechenden Parameter und klicken Sie auf **OK**.



10. Um die durchgeführten Änderungen zu speichern, aktualisieren Sie die Gruppenrichtlinien auf dem Server und starten ABBYY FineReader PDF auf der Workstation neu.

**Hinweis.** Mithilfe der Gruppenrichtlinie konfigurierte Parameter werden global für alle Anwendungen übernommen, die Teil von ABBYY FineReader PDF sind.

# Installationsupdates

Gehen Sie wie folgt vor, um ABBYY FineReader PDF auf Workstations zu aktualisieren:

1. Laden Sie die Installationsdateien der neuesten Version von ABBYY FineReader PDF herunter.
2. Installieren Sie ABBYY FineReader PDF auf den Workstations, ohne ein administratives Installationsverzeichnis zu erstellen. Sie können jede beliebige Installationsmethode nutzen. Siehe [Installation von ABBYY FineReader 16 auf Workstations](#)<sup>22</sup>.

**Hinweis.** Das Deinstallieren der Vorgängerversion von ABBYY FineReader PDF ist für die Installation eines Updates nicht erforderlich.

## Häufig gestellte Fragen

### Kann ich ein Betriebssystem mit installiertem ABBYY FineReader PDF 16 klonen?

Um ABBYY FineReader PDF bereitzustellen, können Sie Ihr Microsoft Windows 10/11-Betriebssystem klonen. Nach dem Klonen Ihres Betriebssystems müssen Sie ABBYY FineReader PDF aktivieren. Je nach Produktversion kann eine nicht aktivierte Kopie von ABBYY FineReader PDF nicht oder nur im Testmodus ausgeführt werden. Manche Versionen des Produkts werden eventuell ohne Bestätigung durch den Benutzer automatisch über das Internet aktiviert. Ausführliche Informationen finden Sie unter [Administratives Installationsverzeichnis für mehrere Benutzer erstellen](#)<sup>19</sup>.

#### Wichtig!

1. Ein Klonen ist nur möglich, wenn ABBYY FineReader PDF noch nicht auf einem geklonten Computer ausgeführt wurde.  
Ansonsten muss ABBYY FineReader PDF auf diesem Computer repariert werden. Siehe [Wie kann ich ABBYY FineReader PDF 16 auf Workstations reparieren](#)<sup>65</sup>?
2. Nachdem Sie Ihr Betriebssystem geklont haben, müssen **Sie dessen Namen und Security Identifier (SID) ändern.**
3. Testversionen von ABBYY FineReader PDF können geklont werden.

## Wie kann ich die Netzwerkverbindungseinstellungen ändern?

Sie haben die Möglichkeit, die für die Kommunikation mit License Server, License Manager und mit den Workstations verwendeten Verbindungseinstellungen zu ändern.

1. Ändern Sie die folgenden Parameter in der Datei **NetworkLicenseServer.ini**, die sich auf dem Computer befindet, auf dem (%programfiles%\Common Files\ABBYY\FineReader\16\Licensing\) installiert wurde.

- Verbindungsprotokoll

Weitere Informationen erhalten Sie unter [Einrichten des Verbindungsprotokolls](#)<sup>64</sup>.

- Verbindungsport

Weitere Informationen erhalten Sie unter [Einrichten des Verbindungsports](#)<sup>65</sup>.

Beispiel:

[Licensing]

NetworkServer=yes

ConnectionProtocolType=TCP\IP

ConnectionEndpointName=81

**Hinweis:** Stellen Sie sicher, dass Ihre Firewall %programfiles%\Common Files\ABBYY\FineReader\16\Licensing\NetworkLicenseServer.exe den Zugriff auf den angegebenen Port nicht verhindert.

2. Nehmen Sie ähnliche Änderungen an der Datei **Licensing.ini** in %programfiles%\Common Files\ABBYY\FineReader\16\Licensing\ vor.
3. Kopieren Sie die Datei **Licensing.ini** in den Ordner License Manager aller Computer, auf denen License Manager installiert wurde (standardmäßig wird der License Manager in %programfiles%\ABBYY FineReader PDF License Server) installiert.

**Wichtig!** Die geänderten Einstellungen werden erst nach einem Neustart des ABBYY FineReader PDF-Lizenzierungsdiensts wirksam.

4. Starten Sie den Dienst ABBYY FineReader PDF-Lizenzierungsdienst neu. Vergewissern Sie sich nach dem Neustart, dass der License Manager ordnungsgemäß funktioniert.
5. Erstellen Sie ein [administratives Installationsverzeichnis](#)<sup>14</sup>.

6. Kopieren Sie die aktualisierte Datei **Licensing.ini** in **%programfiles%\Common Files\ABBYY\FineReader\16\Licensing\** in das administrative Installationsverzeichnis, das Sie soeben erstellt haben.

Beispiel:

D:\Temp\Adm16\Bin\ABBYY FineReader 16

Adm16 ist der administrative Installationsordner.

ABBYY FineReader 16 ist der Unterordner, der die EXE-Datei FineReader.exe enthält.

Die Datei **Licensing.ini** muss in den Unterordner ABBYY FineReader PDF kopiert werden.

7. Stellen Sie sicher, dass der entsprechende Port auf dem Server geöffnet ist.
8. Installieren Sie ABBYY FineReader PDF mithilfe des in Schritt 5 erstellten administrativen Installationsverzeichnisses auf den Workstations.

## Einrichten des Verbindungsprotokolls

Um das Serverprotokoll einzurichten, verwenden Sie den Parameter **ConnectionProtocolType** in der Datei **NetworkLicenseServer.ini** in **%programfiles%\Common Files\ABBYY\FineReader\16\Licensing**.

[Licensing]

ConnectionProtocolType=[TCP\IP | NAMED PIPES]

Über diesen Parameter können Sie das zu verwendende Protokoll (TCP\IP) oder Named Pipes angeben. Diese Informationen werden verwendet:

- von License Manager für den Zugriff auf License Server
- von den Workstations für den Zugriff auf License Server, wenn ABBYY FineReader PDF auf diesen installiert oder repariert wird

Standardmäßig wird das **Named Pipes**-Protokoll verwendet.

## Einrichten des Verbindungsports

Um den Verbindungsport einzurichten, verwenden Sie den Parameter **ConnectionEndpointName** in der Datei **NetworkLicenseServer.ini** in **%programfiles%\Common Files\ABBYY\FineReader\16\Licensing**.

[Licensing]

ConnectionEndpointName=[port number for TCP/IP | channel name for Named Pipes]

Der Parameter muss im folgenden Format angegeben werden: **ConnectionEndpointName=\pipe\**

Über diesen Parameter können Sie für das Verbindungsprotokoll den Port bzw. für Named Pipes den Namen des Kanals angeben. Diese Informationen werden verwendet:

- von License Manager für den Zugriff auf License Server
- von den Workstations für den Zugriff auf License Server, wenn ABBYY FineReader PDF auf diesen Workstations installiert oder repariert wird

**Hinweis:** Vermeiden Sie es, beim Installieren von License Server den programmseitig für Named Pipes festgelegten Namen zu ändern. Standardmäßig verwendet Named Pipes den folgenden Namen: **\pipe\ABBYY\FineReader Windows 16.0 Licensing Service**.

## Wie kann ich ABBYY FineReader PDF 16 auf den Workstations reparieren?

Für die Programmwiederherstellung kann der Zugriff auf die Installationsdistribution erforderlich sein.

### Reparieren von ABBYY FineReader PDF 16 im interaktiven Modus

Auf der jeweiligen Workstation gehen Sie folgendermaßen vor:

1. Wählen Sie unter **Start > Control Panel (Start > Systemsteuerung)** die Option **Programs and Features (Programme und Funktionen)**.
2. Wählen Sie in der Liste der installierten Programme **ABBYY FineReader PDF** und klicken Sie dann auf **Change (Ändern)**.
3. Wählen Sie im daraufhin angezeigten Dialogfenster **Program Maintenance (Programmwartung)** die Option **Repair (Reparieren)** aus und klicken Sie auf **Next (Weiter)**.
4. Folgen Sie den Anweisungen des Assistenten.

## Reparieren von ABBYY FineReader PDF 16 mithilfe der Befehlszeile

Führen Sie auf der Workstation den folgenden Befehl aus:

**msiexec /f {Produktcode},**

und geben sie abhängig von Installationstyp und Windows-Architektur eine der folgenden Eingaben ein, anstelle von **{Produktcode}**:

	<b>x86</b>	<b>x64</b>
<b>Basis-/Vollinstallation</b>	{F15000FE-0001-0000-0000-074957833700}	{F15000FE-0001-6400-0000-074957833700}
<b>SLE-Installation</b>	{F15000BE-0001-0000-0000-074957833700}	{F15000BE-0001-6400-0000-074957833700}

z. B.:

**msiexec /f {F15000FE-0001-0000-0000-074957833700}**

## Wie kann ich den für License Server als Host fungierenden Computer umbenennen, bzw. wie kann ich License Server auf einen anderen Computer verschieben?

Wenn Sie ABBYY FineReader im lokalen Netzwerk bereitgestellt und dann den Namen des für License Server als Host fungierenden Computers geändert haben bzw. wenn auf dem License Server-Computer ein unerwarteter Fehler aufgetreten ist, gehen Sie folgendermaßen vor:

1. Entfernen Sie License Server von dem entsprechenden Computer.

**Hinweis:** Wenn Sie auf diesen Computer nicht zugreifen können, gehen Sie zu Schritt 2 über.

1.1. Wählen Sie unter **Start > Control Panel (Start > Systemsteuerung)** die Option **Programs and Features (Programme und Funktionen)**.

1.2. Wählen Sie in der Liste der installierten Programme **ABBYY FineReader PDF License Server** aus und klicken Sie dann auf **Remove (Entfernen)**.

2. Installieren Sie License Server auf einem anderen Computer, beispielsweise auf **\\NewServer**.

3. Auf allen Computern, auf denen License Manager installiert wurde, bearbeiten Sie den Parameter **[Licensing]**

NetworkServerName=<COMPUTER NAME> in der Datei

%Program Files%\ABBYY FineReader PDF License Server\LicenseManager.ini oder fügen ihn zur Datei hinzu.

Mithilfe des Parameters können Sie den Namen des Servers festlegen, auf den License Manager zugreifen soll. Geben Sie beispielsweise

**[Licensing]**

**NetworkServerName=MyComputerName** an

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 ./Include/vulkan/vulkan\_win32.h,vulkan\_win32.h,Apache-2.0,,  
 ./Include/vulkan/vulkan\_xcb.h,vulkan\_xcb.h,Apache-2.0,,  
 ./Include/vulkan/vulkan\_xlib.h,vulkan\_xlib.h,Apache-2.0,,  
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./x86\_64/include/vulkan/vk\_icd.h,vk\_icd.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vk\_layer.h,vk\_layer.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vk\_platform.h,vk\_platform.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vk\_sdk\_platform.h,vk\_sdk\_platform.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vulkan.h,vulkan.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vulkan.hpp,vulkan.hpp,Apache-2.0,,  
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 ./x86\_64/include/vulkan/vulkan\_xcb.h,vulkan\_xcb.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vulkan\_xlib.h,vulkan\_xlib.h,Apache-2.0,,  
 ./x86\_64/include/vulkan/vulkan\_xlib\_xrandr.h,vulkan\_xlib\_xrandr.h,Apache-2.0,,

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./macOS/include/vulkan/vk\_icd.h,vk\_icd.h,Apache-2.0,,  
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### ***zlib-1.2.7***

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.7, May 2nd, 2012

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\*/

### ***Part of OpenCV - Zlib 1.2.8***

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library  
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### ***zlib (for Pdium) 1.2.13***

zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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