

# AI Powered Auto-curation

## Introduction

Describes the AI Powered Auto-curation feature that improves software inventory results.

Using the AI Powered [Auto-curation](#) feature you'll be able to increase the total amount of [normalized](#) software in your Inventory repositories. This is done using AI that integrates with the inventory consolidation process. By using AI your organization will benefit from significant numbers of normalized software and a reduced manual effort needed to normalize software.



The Inventory app captures data from different sources, then consolidates, normalizes and stores it in Inventory repositories.

Inventory uses connectors to capture software, hardware and other data from sources such as Configuration Manager, Big Fix and vCenter where it is consolidated, de-duplicated and normalized. Normalization uses software and hardware entries in the 1E Catalog.

Inventory repositories are used by the following applications:

- [Patch Success](#) - reports on and ensures successful patching of your enterprise
- [Application Migration](#) - automates the migration of applications during a Configuration Manager OS deployment
- [AppClarity](#) - manages entitlements, compliance and reclaiming unused software.

The [Inventory app](#) is used to view and export inventory, and manage associations.

To find out more about 1E Catalog please refer to [1E Catalog](#).

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In previous versions of Tachyon and SLA Platform, 1E Catalog handled normalization. This used rules that map source Programs and Features data into an accurate standardized form of Vendor, Title, Version and Edition (VTVE) fields. These normalized records can then be referred to with the same signature. Although the rules in the 1E Catalog cover most common software, there's always new software that needs to be manually mapped.

AI Powered Auto-curation first extracts the VTVE from varied raw Programs and Features data by removing excess data and extracting the relevant strings. The AI then standardizes the VTVE fields to a single, accurate form of representation. It also produces a numeric value called the confidence score. This score represents how confident the AI is in its prediction. This score is set to a high threshold through testing and validation across a large data set. This can be calibrated according to the variety of software data at a customer site to optimize the normalization rate, this is controlled by 1E through collaboration with customers.

You can enable AI Powered Auto-curation either during or after installation of Tachyon.



AI Powered Auto-curation is used by all Inventory connectors. Please refer to the [Connectors page](#) for more information about how Connectors are used to connect to other 1E and third party systems.

## Preparation

Before starting, ensure you've met the [Tachyon 5.0 - Requirements](#) and completed the [Tachyon 5.0 - Preparation](#) steps.



The minimum total disk space required for the downloaded AI Package ZIP is approximately 12.5 GB at installation. This includes:

- Binary and support files for AI and the directory structure is 8 GB
- AI Package ZIP file is 4 GB

While the downloaded AI Package is 5 GB, the unzipped contents are approximately 12.5 GB and are extracted to C:\ProgramData\1E\SLA Platform\AI\

Please note, the required disk space reduces to 8.2 GB after the first Catalog sync with the cloud. During the sync a check is made for any newer AI packages. If there is one, it's downloaded and a hash check of the ZIP file is made to make sure it's not corrupted. Once all checks are complete, the AI Package ZIP is deleted from C:\ProgramData\1E\SLA Platform\AI\ leaving an 8 GB disk space requirement.



1E Catalog 2.0 or later is required for the AI to work. 1E Catalog is included in the [Tachyon Platform zip](#), and installed by Tachyon Setup.

## Memory requirements

Distinct Software Titles	Extra GB RAM for AI engine
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1 to 5000	15
10000	17
20000	20
30000	24
40000	28
50000	33
60000	38
70000	43
80000	49
90000	55
100000	61
110000	67
120000	74
130000	82
140000	89
150000	97
160000	106
170000	114

If you're only using a [System Center Configuration Manager \(SCCM\) connector](#) then use the SCCM database as a guide for how much extra RAM you need before installation. We recommend using the SLA-Data database query after installation to double-check memory requirements. However, additional RAM will be required if you're going to use a [Tachyon connector](#) (for Inventory or Patch Success) either on its own, or with other connectors including SCCM. In this case, use the SLA-Data database query after installation and when the connectors are collecting data.

Physical memory for AI Powered Auto-curation is calculated on the basis of the number of records the AI has to process. Use the accompanying table as a quick reference for the memory requirements needed by the AI.



For virtual machines, the AI Engine action will not work if you're using a dynamic memory configuration. You'll need to allocate dedicated memory.

You can also run the following query on your SCCM database to calculate your memory requirements. This is primarily aimed at people who have not already installed Tachyon and want to estimate the required RAM:

#### SCCM database query

```
/*SCCM database query to get number of distinct software titles from SCCM database*/
USE [YourSCCMDBName]
GO
SELECT COUNT(*) AS 'Distinct Software Titles'
FROM (
    SELECT DISTINCT DisplayName0 AS Title FROM [v_ADD_REMOVE_PROGRAMS] WITH (NOLOCK)
    UNION
    SELECT DISTINCT [Caption0] AS Title FROM [v_GS_OPERATING_SYSTEM] WITH (NOLOCK)
) AS Titles
```

Run this query on SLA-Data if you already have Tachyon installed and are considering enabling AI:

## SLA-Data database query

```
/*SLA query to get number of distinct software titles from SLA-Data database*/
USE [SLA-Data]
CREATE TABLE #Software
(
    [SoftwareID] INT IDENTITY(1,1) PRIMARY KEY,
    [DataSource] NVARCHAR(255) COLLATE DATABASE_DEFAULT,
    [SoftwareIdent] NVARCHAR(MAX) COLLATE DATABASE_DEFAULT,
    [SoftwareIdent_Hash] VARBINARY(128),
    [Vendor] NVARCHAR(MAX) COLLATE DATABASE_DEFAULT,
    [Vendor_Hash] VARBINARY(128),
    [Title] NVARCHAR(MAX) COLLATE DATABASE_DEFAULT,
    [Title_Hash] VARBINARY(128),
    [Version] NVARCHAR(MAX) COLLATE DATABASE_DEFAULT,
    [Version_Hash] VARBINARY(128),
    [ColloquialVersion] NVARCHAR(MAX) COLLATE DATABASE_DEFAULT,
    [ColloquialVersion_Hash] VARBINARY(128),
    [Edition] NVARCHAR(MAX) COLLATE DATABASE_DEFAULT,
    [Edition_Hash] VARBINARY(128),
    [NormalizedProductID] INT
);
SELECT * FROM #Software
EXEC [usp_ReportDataEx_se] 1, N'Software', N'#Software';

SELECT count(*) AS 'Distinct Software Titles'
FROM
(
    SELECT DISTINCT [Title] FROM #Software
) a

DROP TABLE #Software
```

## Enabling AI Powered Auto-curation

You can enable AI Powered Auto-curation either during or after installation of Tachyon.

### Enabling AI Powered Auto-curation during installation of Tachyon

AI is switched off by default in the Tachyon Setup, this is because the feature requires additional memory to run correctly. For more details please refer to the AI [Installation](#) requirements on this page.

During Tachyon setup you'll need to check the **Enable AI-based auto-curation** checkbox on the **SLA and Catalog** screen of the Tachyon Setup wizard. For more details please refer to the [Tachyon Setup](#) and [Tachyon Setup: SLA and 1E Catalog](#).



The minimum total disk space required for the downloaded AI Package ZIP is 12.5 GB at installation.

While the downloaded AI Package is approximately 5 GB, the unzipped contents are approximately 12.5 GB and are extracted to C:\ProgramData\1E\SLA Platform\AI\

Please note, the required disk space reduces to 8.2 GB after the first Catalog sync.

### Enabling AI Powered Auto-curation after installation of Tachyon

You can enable AI Powered Auto-curation after you've installed Tachyon, to do this you'll need to enable it in both 1E Catalog and Tachyon.

#### Reconfiguring 1E Catalog

The following script can be used to modify the **EnableAIPackageSync** setting in the **Settings** table of the **1ECatalog** database. You can set the new value to be one of the following:

Value	Description
True	Download will be enabled.

False	Download will be disabled.
-------	----------------------------

After changing the value you will need to restart the **1E Catalog Update Service** for your changes to take effect.

#### SQL script to configure EnableAIPackageSync setting

```

/* Script to change 1ECatalog setting */
USE [1ECatalog]
GO
DECLARE @setting nvarchar(max), @oldvalue nvarchar(max), @newvalue nvarchar
(max);;
SET @setting = 'EnableAIPackageSync'
SET @newvalue = 'True'

SET @oldvalue = (SELECT [Value] FROM [dbo].[Settings] WHERE [Key]=
@setting)

UPDATE [dbo].[Settings] SET [Value]=@newvalue WHERE [Key]=@setting

SELECT @setting AS 'Setting', @oldvalue AS 'Before', [Value] AS 'After'
FROM [dbo].[Settings]
WHERE [Key]=@setting
GO

```

### Reconfiguring Tachyon

The following scripts can be used to modify the **DisableAIPProductPrediction** setting in both:

- **ProjectSetting** table of the **SLA-Shared** database - the settings template for new inventory repositories
- **InstanceSetting** table of the **SLA-Data** database - the settings for *each* of the existing inventory repositories.

You can set the new value to be one of the following:

Value	Description
0	AI will be enabled.
1	AI will be disabled.

## SQL script to configure DisableAIProductPrediction setting

```
/* Script to change SLA setting */
DECLARE @setting nvarchar(max), @oldvalue1 nvarchar(max), @oldvalue2
nvarchar(max), @newvalue nvarchar(max)
SET @setting = 'DisableAIProductPrediction'
SET @newvalue = 0

SET @oldvalue1 = (SELECT [Value] FROM [SLA-Data].[dbo].[InstanceSetting]
WHERE [Name]= @setting)
SET @oldvalue2 = (SELECT [Value] FROM [SLA-Shared].[dbo].[ProjectSetting]
WHERE [Name]= @setting)

UPDATE [SLA-Data].[dbo].[InstanceSetting] SET [Value]=@newvalue WHERE
[Name]=@setting
UPDATE [SLA-Shared].[dbo].[ProjectSetting] SET [Value]=@newvalue WHERE
[Name]=@setting

SELECT '[SLA-Data].[dbo].[InstanceSetting]' AS 'Database', @setting AS
'Setting', @oldvalue1 AS 'Before', [Value] AS 'After'
FROM [SLA-Data].[dbo].[InstanceSetting]
WHERE [Name]=@setting
UNION
SELECT '[SLA-Shared].[dbo].[ProjectSetting]' AS 'Database', @setting AS
'Setting', @oldvalue2 AS 'Before', [Value] AS 'After'
FROM [SLA-Shared].[dbo].[ProjectSetting]
WHERE [Name]=@setting
```

## Verifying AI Auto-curation is working

The AI feature consists of an **1E-AIEngine.exe** and AI model files contained in an **AIPackage\_<version>.zip**. The **1E-AIEngine.exe** uses the associated AI package files to run the AI. Because of the size of the package, it initially resides on the Catalog cloud to reduce the installer size.

When the AI feature is enabled:

- 1E Catalog checks that it has the latest AI package synced from the 1E Catalog cloud. This is downloaded and saved in: **C:\ProgramData\1E\Catalog\CatalogSynchronization\PredictionModel**
- Tachyon Inventory checks with 1E Catalog that it has the latest AI package ZIP which is then unzipped to: **C:\ProgramData\1E\SLA Platform\AI**

The minimum total disk space required for the downloaded AI Package ZIP is approximately 12.5 GB at installation. This includes:

- Binary and support files for AI and the directory structure is 8 GB
- AIPackage ZIP file is 4 GB

While the downloaded AI Package is 5 GB, the unzipped contents are approximately 12.5 GB and are extracted to C:\ProgramData\1E\SLA Platform\AI\

Please note, the required disk space reduces to 8.2 GB after the first Catalog sync with the cloud. During the sync a check is made for any newer AI packages. If there is one, it's downloaded and a hash check of the ZIP file is made to make sure it's not corrupted. Once all checks are complete, the AI Package ZIP is deleted from C:\ProgramData\1E\SLA Platform\AI\ leaving an 8 GB disk space requirement.

You can review the Catalog sync progress in the following logs located at: **C:\ProgramData\1E\Catalog\**

- Catalog.Integration.UI.log
- Catalog.UpdateService.log

A successful sync should be similar to the example **Catalog.UpdateService.log** opposite.

### Catalog.UpdateService.log

```
[Info] T11 2020-01-31 15:45:48.567: Syncing AI Package with cloud
[Info] T11 2020-01-31 15:45:48.756: Downloading AI Package version 1.3.0.700 with cloud of size 4804685823 from url api/sync/aiengine?Version=1.3.0.700
[Info] T11 2020-01-31 15:45:48.772: Indexes re-creation started after Sync.
[Info] T12 2020-01-31 15:58:25.929: Indexes are created successfully after Sync.
[Info] T5 2020-01-31 16:30:47.930: Download complete. Comparing file hash..
[Info] T5 2020-01-31 16:31:07.120: Successfully synced AI Package version 1.3.0.700 with cloud
```

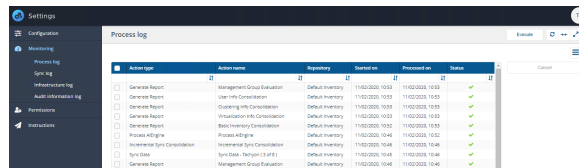
When enabled, a new action called **Process AIEngine** is created. This is automatically run after the **Sync Data** action for a supported connector. The sync time for the **Process AIEngine** action depends on the number of distinct software records being processed, hardware and environment configuration.

AI Powered Auto-curation is used by all Inventory connectors. Please refer to the [Connectors page](#) for more information about how Connectors are used to connect to other 1E and third party systems.

You can see the **Process AIEngine** action in **SettingsMonitoringProcess log**.

You can review its progress using the **Engine.log** located at **C:\ProgramData\1E\SLA Platform\**

In the log you should see something similar to the opposite example.



Action type	Action name	Summary	Started on	Processed on	Status
General Report	Management Group Evaluation	Default Inventory	11/02/2020 10:51	11/02/2020 10:51	✓
General Report	Open-URL Consolidation	Default Inventory	11/02/2020 10:51	11/02/2020 10:51	✓
General Report	Clearing URL Consolidation	Default Inventory	11/02/2020 10:51	11/02/2020 10:51	✓
General Report	Virtualization URL Consolidation	Default Inventory	11/02/2020 10:51	11/02/2020 10:51	✓
General Report	Basic Inventory Consolidation	Default Inventory	11/02/2020 10:52	11/02/2020 10:52	✓
Process AIEngine	Process AIEngine	Default Inventory	11/02/2020 10:46	11/02/2020 10:52	✓
General Report	Inventory Sync Consolidation	Default Inventory	11/02/2020 10:46	11/02/2020 10:46	✓
Sync Data	Sync Data: Netgen 1.0.0.1	Default Inventory	11/02/2020 10:48	11/02/2020 10:48	✓
General Report	Management Group Evaluation	Default Inventory	11/02/2020 10:46	11/02/2020 10:46	✓

## Engine.log

```
2020-03-31 08:46:25.0274 INFO Action Process
AIEngine starting! Jobs: 1/5
2020-03-31 08:46:25.0274 INFO ID=612d1b08-7eb7-
4bf1-9c23-46dea29d9b6d Starting action: 11065
2020-03-31 08:46:25.0274 DEBUG [HubConnection]
Adding notification '11065' to queue. Queue count:
3.
2020-03-31 08:46:25.0274 INFO Folder's available
in PreProcessAsync: output- True, input- True,
tempDir- True, training- True
2020-03-31 08:46:25.0500 INFO Catalog web
address: http://LAB.LAB.local/CatalogWeb/
2020-03-31 08:46:25.0704 INFO Is higher version
False, localVersion 1.3.0.700, serverVersion
1.3.0.700
2020-03-31 08:46:25.0704 INFO serverFileDetails.
Base64filehash
0x853E29401B209301C9F9C4D381202C931816C871,
modelFileDetails.Base64filehash
0x853E29401B209301C9F9C4D381202C931816C871
2020-03-31 08:46:25.0724 INFO Condition for
download before checking: False
2020-03-31 08:46:25.0724 INFO Saving Model file
hash (0x853E29401B209301C9F9C4D381202C931816C871)
and version (1.3.0.700)
2020-03-31 08:46:25.1124 DEBUG [HubConnection]
Notification sent '11064'
2020-03-31 08:46:25.1484 DEBUG [HubConnection]
Adding notification '0' to queue. Queue count:2.
2020-03-31 08:46:25.1484 INFO Folder's available
in ProcessAsync: output- True, input- True,
tempDir- True, training- True
2020-03-31 08:46:25.1504 INFO Folder's available
in Before Invoking AI EXE: output- True, input-
True, tempDir- True, training- True
2020-03-31 08:46:25.1504 DEBUG [HubConnection]
Notification sent '0'
2020-03-31 08:46:25.1504 INFO process started -
9636process name is 1E-AIEngine
2020-03-31 08:46:25.1504 INFO in wait for exit
async
2020-03-31 08:46:25.1504 INFO In Read Async
2020-03-31 08:46:25.1724 DEBUG [HubConnection]
Notification sent '11065'
2020-03-31 08:46:25.1967 DEBUG [HubConnection]
Notification sent '0'
2020-03-31 08:51:05.5709 INFO Folder's available
in After Invoking AI EXE: output- True, input-
True, tempDir- True, training- True
2020-03-31 08:51:05.5709 INFO AI process
completed with exit code: 0
```

If you see a red warning triangle in the Process log, this indicates a problem.

The most common reason for the Process AIEngine to fail is due to insufficient memory when it runs, refer to [Increase in memory requirements](#) on this page for details.

In this example, clicking on the red warning triangle displays an error message explaining that the Process AIEngine has failed.

<input type="checkbox"/>	Generate Report	Virtualization Info Consolidation	Default Inventory	11/02/2020, 10:46	11/02/2020, 10:46	✓
<input type="checkbox"/>	Generate Report	Basic Inventory Consolidation	Default Inventory	11/02/2020, 10:45	11/02/2020, 10:46	✓
<input type="checkbox"/>	Process AIEngine	Process AIEngine	Default Inventory	11/02/2020, 10:44	11/02/2020, 10:45	⚠
<input type="checkbox"/>	Incremental Sync Consolidation	Incremental Sync Consolidation	Default Inventory	07/02/2020, 18:08	07/02/2020, 18:08	✓

## Process AIEngine

### Process AIEngine

Error code [1684095c-8132-4cdf-b4e3-07933d4f2104]. Message:Process AI Engine failed

Close

You can review the AI logs at: **C:\ProgramData\1E\SLA Platform\AI\Log\_\*.txt**

The picture opposite shows an example of a failure logged due to insufficient memory. **Log\_\*.txt**



If the AI processing step does fail, the overall inventory consolidation will not. In the event of a failure, the AI processing step is skipped, making sure the rest of the process takes place as expected.

```
Log_2019_12_18_15_56_32432076.txt - Notepad
File Edit Format View Help
Traceback (most recent call last):
File "src\main.py", line 91, in <module>
File "src\model\SimilarityModel\TitleClusterPredict.py", line 515, in PredictTitleSimilarity
File "src\model\SimilarityModel\TitleClusterPredict.py", line 301, in SecondLevelClusteringBasedOnM
File "site-packages\pandas\core\generic.py", line 3020, in to_csv
File "site-packages\pandas\io\formats\csvs.py", line 172, in save
File "site-packages\pandas\io\formats\csvs.py", line 288, in _save
File "site-packages\pandas\io\formats\csvs.py", line 302, in _save_chunk
File "site-packages\pandas\core\internals\blocks.py", line 1997, in to_native_types
MemoryError
```

## Differences in SLA Inventory screens when AI Powered Auto-curation is enabled

There are some changes to the SLA Inventory UI screens compared with Tachyon 4.1 and SLA Platform 3.3. These screens also differ if AI Powered Auto-curation is enabled or disabled.

The process of setting up connectors, creating inventory repositories and running the basic inventory consolidation remains the same as previous versions of Tachyon.

### Basic Summary screen

You can access the Basic Summary screen using the **Inventory** app and by choosing **SLA Inventory** from the left-hand menu. The data in this screen is updated by the Basic Inventory Consolidation process.

The **Summary** table now includes software records curated by AI. The first column in the table shows the total **Records Collected**. The next three columns are:

- **Normalized Records-Direct Catalog Matches (Distinct Products)** - corresponds to software records identified using existing rules in the 1E Catalog. Exploring these will show you the normalized entries with enriched data regarding licensability, end-of-support date etc.
- **Normalized Records-AI Assisted Matches (Distinct Products)** - the software records which AI has automatically matched and normalized. The AI recognizes the vendor, title, version and edition and normalizes them. Over time, the 1E Catalog reviews records identified by AI and enriches them with data regarding licensability, end-of-support date etc. for inclusion in future downloads.
- **Non-Normalized Records (With AI Suggestions)** - software records which AI has low confidence in automatically matching. AI makes predictions for all source data, but predictions with a low confidence score should be manually reviewed by drilling down to the **Unidentified Software Records** screen.

The numbered links in brackets allow you to drill down to more detailed screens.

### Unidentified Software Records screen

You can access this screen by clicking on the number link in the **Non-Normalized Records (With AI Suggestions)** column of the **Basic Summary** screen. This screen shows AI predictions that have a low confidence score preventing them being automatically matched and normalized. These predictions should still be close to accurate, therefore making the task of manually adding rules to the Catalog much easier.

This screen has the following elements:

Category	Records Collected	Normalized Records-Direct Catalog Matches (Distinct Products)	Normalized Records-AI Assisted Matches (Distinct Products)	Non-Normalized Records (With AI Suggestions)
Software Installations	70,04	71,761 (8,240)	2,071 (1,974)	1,021 (86)
Drivers	366	65		5
Processors	1,322	78		4

Data Source	Record Type	Software Record Count
1E Catalog	Software Products	15,073
1E Catalog	Software Installations	115,189
1E Catalog	Drivers	360
1E Catalog	Processors	1,327
1E Catalog	OS/IS	38
1E Catalog	Devices mapped to OS/IS	127



## Overview

Shows a count of distinct software records to be identified, so you can keep track of progress.

- Software Products left to identify - show all records
- **AI predicted** - records the AI was unable to identify, but was able to provide suggestions
- **AI predicted and partially matched** - where the vendor or title was identified through previous knowledge from the 1E Catalog, these records have a default high confidence score
- **Cannot be identified** - these records have insufficient information to recognize the software or make a prediction.

Install Count	Source Data	AI Prediction	Actions	Confidence
1	Vendor: Microsoft Corporation Title: Microsoft Corporation Version: 12.1.4232.0 Edition: No Colloquial Version: No Licensable: No	Microsoft Corporation	ADD BRI	High
1	Vendor: Microsoft Corporation Title: Microsoft System Center Virtual Machine Manager 1607 Ad... Version: Microsoft Corporation Edition: System Center Virtual Machine Manager Administrator Cont... Colloquial Version: No Licensable: No	Microsoft Corporation	ADD BRI	Low
1	Vendor: Python Software Foundation Title: Python 3.7.2 Standard Library (32-bit) Version: Python Software Foundation Edition: Library	Python Software Foundation	ADD BRI	Low

## Application Type

Filters by application type.

- **Show only Secondary Applications** - filters to only secondary applications (for example, updates, hotfixes or language packs)
- **Newly discovered (Last 30 days)** - filters to applications discovered within the last 30 days
- **New to Catalog** - filters to applications that are either new vendors or titles previously unknown to the 1E Catalog
- **Exclude Secondary Apps** - removes any applications considered secondary, like updates, hot fixes or language packs.

## AI Prediction Confidence

Confidence scores for predictions are divided into three equal parts below the threshold. **High**, **Medium** and **Low** confidence relate to the ease at which the AI engine suggestions can be manually reviewed and added as rules.

## FILTER BY

Use this to add conditional filters for various fields on the **Unidentified Software Records Table**, for example you could filter on "Vendor Contains Micro" to return results based on Microsoft as a software vendor.

FILTER BY  x +



If the AI feature is disabled the **Basic Summary** screen will differ to when AI is enabled, note the difference in the **Overview** element.

Install Count	Source Data	AI Prediction	Actions	Confidence
2	Vendor: Microsoft Corporation Title: Microsoft Corporation Version: 12.1.4232.0 Edition: No Colloquial Version: No Licensable: No	Microsoft Corporation	ADD BRI	High
2	Vendor: Microsoft Corporation Title: Microsoft System Center Virtual Machine Manager 1607 Ad... Version: Microsoft Corporation Edition: System Center Virtual Machine Manager Administrator Cont... Colloquial Version: No Licensable: No	Microsoft Corporation	ADD BRI	Low
1	Vendor: Python Software Foundation Title: Python 3.7.2 Standard Library (32-bit) Version: Python Software Foundation Edition: Library	Python Software Foundation	ADD BRI	Low

## Unidentified Software Records Table

Each row on this table corresponds to a distinct set of software records. There are four values **Install Count**, **Source Data**, **AI Prediction**, **Confidence** and a number of actions to perform for each distinct record. The values are:

Action	Explanation
<b>Install Count</b>	The total number of records found with the same source data across the estate.
<b>Source Data</b>	ARP data extracted into <b>Vendor</b> , <b>Title</b> , <b>Version</b> , <b>Edition</b> , <b>Colloquial Version</b> and <b>Licensable</b> fields.
<b>AI Prediction</b>	The AI suggestion after attempting to extract <b>Title</b> , <b>Version</b> , <b>Vendor</b> , <b>Edition</b> , <b>Colloquial Version</b> and <b>Licensable</b> fields from source data, Licensability is set to a default of <b>No</b> on the suggestions table, this can be edited before adding.

<b>Confidence</b>	Abstracted to high, medium or low based on the exact numeric value for prediction confidence, these confidences values will always be lower than the threshold required to automatically normalize records.
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For each record the **Actions** are:

<b>Action</b>	<b>Explanation</b>
<b>Add</b>	When clicked this will add records directly to 1E Catalog. This option is enabled if AI suggestions for a source Vendor, Title, Version and Edition (VTVE) are generated. In case the product is not Edition based then Vendor, Title and Version (VTV) suggestions are enough. After the record(s) is added to 1E Catalog then whenever you run the next <b>Basic Inventory Consolidation</b> then the same record(s) will be available in the <b>Catalog Matched</b> items.
<b>Edit</b>	Edit functionality is available for all unidentified records. When clicked, it opens a dialog where you can provide details for the selected software record. You also have the option to add this information to 1E Catalog.
<b>Exclude</b>	Exclude is available for all <b>Unidentified Software Records</b> except for <b>Partially Matched</b> and <b>Secondary Application</b> types of records. Once excluded, the items are moved to <b>Secondary Applications</b> . You can also <b>Include</b> it again until the next <b>Basic Inventory Consolidation</b> is run, afterwards the <b>Include</b> option will be unavailable and the item will become a part of <b>Secondary Applications</b> .

You can explore these records to see what the AI has curated by clicking on the related links in the **Basic Summary Report** .



We have also introduced a new screen for AI suggestions for any software records that remain non-normalized. This is a replacement for the **Best Match Screen** which allowed you to add rules.