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Integration with Data Platform v5

Data Platform version 5 (formerly from BDNA, and now from Flexera) combines Technopedia, a reference catalog with 120 million datapoints across more than 1.7m products, and Normalize, which provides a unified view of the data applicable to your environment.

To integrate this data for your use in license and asset management within FlexNet Manager Suite, release 2019 R2 includes a connector that imports normalized data from Normalize v5 into your compliance database. The imported data includes:

- Records of inventory devices (for both physical servers and virtual machines) found in your environment by the inventory tools (such as Microsoft SCCM or BMC ADDM) that are feeding into Normalize v5
- Details of applications recognized within your enterprise through those tools
- Installation records that link the found software to the inventory devices where it is installed
- Details of end-users who log onto the inventory devices
- Where available, records of application usage (how often, and for how long, an end-user utilized an application).

Application records are dealt with in the same way as inventory data from any other source. This means that the data representing applications within Normalize v5 is imported into FlexNet Manager Suite in the first place as inventory evidence (in this case, as installer evidence). What happens next depends on the details of the software:

- If the application is already known to the Application Recognition Library (ARL), and therefore has a Flexera ID included in the import from Data Platform, the evidence is recognized by the ARL and a matching installed application record is created (if it did not exist already) and displayed in the **Installed Applications** page. For such records, the inventory evidence type is set to `FlexeraID`, and the installer evidence record is linked to the application record.

  Tip: *It may happen that the application is only recognized by a later update of the ARL than is currently deployed in your enterprise. If this occurs, a widget on the* ***System Health Dashboard*** *highlights the need to refresh your local, downloaded ARL (or you can wait until the next automated download, which typically happens each weekend).*

- If the installer evidence is not [yet] recognized by the ARL, then following normal system processes, it cannot be linked to an application record, and it remains in the **Unrecognized Evidence** page, in the listing under the **Installer evidence** tab. For these cases, the inventory evidence type is displayed as `Data Platform`. (Future updates to Data Platform and the ARL may mean that the same installer evidence re-imported thereafter may be recognized, and an installed application record automatically created at that time. For this reason, it is best not to manually trigger

application creation from such records of *public* applications, but to wait for Flexera's continuing alignment work to automatically complete the links for you. If you find such a case that is needed in your enterprise with some urgency, you can ask Flexera to prioritize its delivery through a later release of the ARL.)

Tip: *A subset of these unrecognized cases may be application records that you created locally within your enterprise (records that in Data Platform are called "private applications", and in FlexNet Manager Suite are called "local applications"). As such records may never be matched by the ARL, you may wish to start from the unrecognized evidence record to re-create your local application record within FlexNet Manager Suite. In summary, best practice is to manually trigger the creation of application records only for locally-created, 'private' applications; and to await updates from Flexera for 'public' applications.*

Connector, not adapter

The integration with Data Platform v5 is not strictly an "adapter", for the following reasons:

- It does not require any custom XML file to be maintained through either the Inventory Adapter Studio or the Business Adapter Studio
- There is no need (nor purpose) for any staging database
- There is no separate download and installation required (with the possible exception of the initial release, where shipment of the connector is not synchronized with the product release; but in future it is embedded as a standard part of the product).

Instead, this integration is through a *connector* that is available on any up-to-date inventory beacon. You set up the import in exactly the same way as for any other inventory connection: specifying the details in the new inventory connection dialog on the **Inventory systems** page on your preferred inventory beacon; and nominating your preferred schedule for the regular imports. Full details are included below in Configuring the Data Platform Connector.

Inventory gaps and limitations

Following topics cover the mapping of data from within Data Platform to the import tables within the compliance database in FlexNet Manager Suite. (Hints are also given for tracking data from the import tables to the operational tables within the compliance database, with further information being available in the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.) Within those topics are specific comments about the impact of particular inventory gaps on tracking your license compliance.

At a high level, inventory gathered *only* from Normalize v5 is insufficient for:

- Oracle Processor license calculations (missing the partial number of processors)
- IBM PVU license calculations (missing the partial number of processors)
- Any licenses that rely on details about the host settings for virtual machines, such as *assigned* core or processor counts (for VMs, this connector can only import the virtual host, and no other details of the VM, including pools, clusters, capping and the like). Notice, however, that inventory is normally gathered separately both from the virtualization host and from available guest machines, so that records are available for each device's view of its *own* properties.

Validate your data processes

When there are inventory gaps, the best-practice work-around is to add a second inventory source that fills the gaps, and

allow FlexNet Manager Suite to merge the sources to produce a unified data set. The risk factor is that record merging may fail (because of different values in key fields), leading to duplicate records in your compliance database that cause over-counting.

Such a case is the possible merging of imports from Data Platform with another source, such as the FlexNet inventory agent. One of the key fields for merging inventory device records is the domain name that the device reports, and currently the values for domain are by default saved differently. Data Platform v5 typically saves a flat domain name (such as `flexera`); and while FlexNet Manager Suite can handle either format, by default is saves and uses the DNS domain name format (distinguished name) that includes the root domain (such as `flexera.com`). At first glance this difference looks high-risk; but there is a compliance database table that helps to resolve this issue, called the `Domain` table. Since this stores both the fully-qualified distinguished name for the domain, and also its flat name, it allows reliable matching between the two forms, *provided that* it has been populated with the appropriate records before a mapping is requested.

So, to prevent duplicate inventory device records, it is important to ensure that the `Domain` table is populated with all your domain names in both formats before importing from Data Platform (or indeed, any other inventory source that reports the flat name for domains). There are three ways to do this, of which the first is best practice:

- Run an import from Active Directory. This populates the `Domain` table appropriately with both domain name formats.
- Import FlexNet inventory, since the FlexNet inventory agent reports both name formats.
- Import inventory from Microsoft SCCM 2012 or later, since from that release, SCCM also reported the domain name in both formats.

The first option is clearly preferable since it gives the most complete coverage of all your domains. Therefore, before importing from Data Platform, ensure that your Active Directory imports are up-to-date.

Tip: *If you have domains that are outside the reach of your Active Directory implementation, you can create a spreadsheet and write a business adapter to populate the* `Domain` *table.*

A match between host name, domain, and serial number is sufficient for merging (de-duplicating) inventory device records. Where these high-priority values are not available, FlexNet Manager Suite continues checking lower-priority properties including:

- `HostIdentifyingNumber`
- `HostType`
- `ILMTAgentID`.

Since all these properties are unavailable from Data Platform v5 (see Imported Computers (Inventory Devices)), this makes correct mapping between the naming formats of your domains all the more important in avoiding duplicate device records.

Attention: *Even when you follow best practice and use the above techniques to populate the* `Domain` *table with both the flat name and the distinguished name for each domain, issues with domain reporting may still cause creation of duplicate records for computers or users. This is because some data sources (notably HP-UD and ADDM) report domain properties for users and computers in ambiguous ways, and where overlapping data comes from another source (including coming through Data Platform even from the same original source), duplicate records may result. You may both prevent and repair such duplication simply by setting your* ***Primary*** *inventory source to a known-good choice from the overlapping sources, such as SCCM, FlexNet inventory, or Data Platform. (To find this setting, navigate to the*

*system menu (▼ in the top right corner) and choose **Data Inputs > Inventory Data** tab). To clear duplicate records previously created through this issue, set your good source that's reporting the domain as primary, and wait for (or trigger) a full import and compliance calculation. By default, these full imports and calculations happen overnight, so you can check that your previous duplicates are cleaned up the day after adjusting your primary inventory source.*

If you are considering the use of two data paths for overlapping inventory records (such as having a common source imported directly into FlexNet Manager Suite on the one hand, and imported through Data Platform v5 on the other), one caveat to be aware of is the need for additional expertise. Suppose that you are trying to analyze a problem with recognition of a particular application. With two data paths, you must first determine which data path delivered the record, because the recognition logic differs between the paths:

- If the path was direct from the inventory source (such as SCCM) into FlexNet Manager Suite, then the evidence rules in the Application Recognition Library (ARL) must be assessed for effective matching.
- If that path from the inventory source led through Data Platform v5, you first need expertise to analyze the recognition process within that domain, because it is Data Platform (and in particular Normalize v5) that has recognized the application. In addition, you must validate that Data Platform v5 is supplying a Flexera ID for the application it recognizes, and that the same Flexera ID is listed as evidence in your installed ARL — otherwise, despite its initial recognition, the 'application' languishes in the **Unrecognized Evidence** page within FlexNet Manager Suite.

In summary, combining both data paths provides a growth opportunity.

Supported versions

The connector is validated for operations between Data Platform v5 and FlexNet Manager Suite 2018 R1. Within that framework, the following recommendations apply:

- **Data Platform:** The preferred release of Data Platform (and in particular, Normalize) is 5.5.4 (or later), as this release fixed a problem where, for virtual machines, imported data contained incorrect values for the count of **Cores** and **Threads** (or logical processors). Both these values are visible in FlexNet Manager Suite on the **Hardware** tab of the inventory device properties. In the same location, you may also manually override both these values when a correction is needed, and your overridden values are unaffected by future inventory imports (for more details, see the online help for the **Hardware** tab).
- **FlexNet Manager Suite:** While formal validation is limited to release 2018 R1 and later, informal spot testing suggests backward compatibility of the connector should extend back to at least release 2017 R1 of FlexNet Manager Suite.

***Important:** If you are testing with an earlier version of FlexNet Manager Suite, be sure that, on all relevant inventory beacons, you remove the superseded folder `C:\ProgramData\Flexera Software\Compliance\ImportProcedures\Inventory\Reader\BDNA` before distributing the new `Data Platform v5` folder as a replacement (full details about the new folder are included in Configuring the Data Platform Connector).*

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Configuring the Data Platform Connector

Configuring the Data Platform connector is a one-time task, and quite straight-forward. Thereafter, the imports continue at the intervals you schedule. Have ready your connection details for the Normalize v5 database.

To configure the Data Platform connector:

1. To minimize the risk of duplicate records when you have imports from multiple inventory sources, ensure you have completed Active Directory imports from all your domains.

   For more details, refer back to Integration with Data Platform v5. For guidance about Active Directory imports, see *FlexNet Manager Suite Help > Inventory Beacons > Active Directory Page*.

2. If necessary, apply for your updated Data Platform license to enable integration with FlexNet Manager Suite, by contacting your Flexera Support consultant.

   This updated license is available free of charge to existing customers who have implemented Data Platform. It authorizes additional functionality and a new data pack. If you are unsure whether you already have this updated license, there are two ways you may check:

   - You can send a question to Data Platform Support
   - You can run the following SQL statement against your Normalize v5 database:

     ```
     Select IS_SUBSCRIBED from BDNA_CP where CP_NAME = 'Technopedia Flexera Mapping'
     ```

     If the result returns `Y`, your Data Platform instance includes the license term, and you may skip ahead to step 4.
     If it returns `N`, you need to apply for the license update.

3. When you receive the updated activation key:

   a. In BDNA Admin, navigate to the **Preferences** page.

   b. Enure that the **Registration** tab is selected (top left).

   c. Delete the current contents of the **Activation Key** field.

   d. Copy the key in full from the email you received, and paste it into the **Activation Key** field.

e. Click **Register New Key**.

4. Download the new data pack:

   a. Navigate to the **Technopedia** page in BDNA Admin.

   b. Click **Start Catalog Sync**, and wait for the data pack to download.

5. Ensure that the Data Platform connector is in place in your FlexNet Manager Suite implementation.

   You can check whether the Data Platform connector is already in place by inspecting any inventory beacon, or (for an on-premises implementation) your central application server (in a multi-server implementation, check the batch server). In each case, open Windows Explorer and navigate to `C:\ProgramData\Flexera Software\Compliance\ImportProcedures\Inventory\Reader`. If you find a folder there called `Data Platform v5`, your connector is already in place, and you may skip ahead to the next major step. If not, switch to a web browser to obtain your copy:

   a. Access https://flexeracommunity.force.com/customer/articles/en_US/INFO/Adapter-Tools-for-FlexNet-Manager-Suite.

   Tip: *Access requires your Customer Community user name and password. If you do not have one, use the link on the login page to request one.*

   b. Click the link `Adapter Tools for FlexNet Manager Suite`.

   A new browser tab may appear temporarily, and the download of `Adapter Tools for FlexNet Manager Suite 2019 R2.zip` commences.

   c. In your browser dialog, choose to save the file, and if the browser allows it, direct the saved file to a convenient working location (such as `C:\temp` on a central, accessible server).

   If your browser saves the file to a default location (such as your `Downloads` folder), move or copy it to the appropriate working location when the download is finished.

   d. Right-click the downloaded zip archive, and choose **Extract All...**.

   e. Navigate through the unzipped archive to `Adapter Tools for FlexNet Manager Suite 2019 R2.zip` > `Data Platform v5`.

   f. Copy the `Data Platform v5` folder in its entirety to `C:\ProgramData\Flexera Software\Compliance\ImportProcedures\Inventory\Reader` on your chosen inventory beacon.

   Tip: *Copy the folder to the same location on your central batch server (or server hosting that functionality), and FlexNet Manager Suite automatically transmits it to all your inventory beacons as part of their regular policy update. Allow an hour or two (depending on how many inventory beacons you have) for this process to complete.*

6. Ensure that you have your preferred schedule for imports from Data Platform set on the appropriate inventory beacon:

   a. Log into the inventory beacon interface as an administrator (for example, in the Windows Start menu, search for **FlexNet Beacon**, right-click it, and select **Run as administrator**).

   Tip: *Remember that you must run the inventory beacon software with administrator privileges.*

b. From the **Data collection** group in the navigation bar, choose **Scheduling**.

c. If there is not already a suitable schedule in the list, click **New...** and complete the details (see the online help for that page for more information). Otherwise, identify the schedule you will use.

7. Define the connection to your Data Platform implementation:

   a. Select the **Inventory systems** page (in the same group), and then click **New...**.

      If you used the down arrow on the split button, use only the `SQL Server` option.

   b. Complete the details, using a name that is distinct within the first few characters so that it is recognizable in a narrow column.

      Important: *Take care that:*

      - *The **Source Type** is* `Data Platform v5`
      - *You provide the connection details for your Normalize database (not the Technopedia one).*

      See the help for this page for more details. When you are done, click **Save**.

8. Select your new connection from the displayed list, and click **Schedule...**.

9. In the dialog that appears, select the name of your chosen schedule for inventory collection through this connection, and click **OK**.

10. At the bottom of the **FlexNet Beacon** interface, click **Save**, and if you are done, also click **Exit**.

Tip: *Consider whether you want to select your connection, and click **Execute Now**, before you exit.*

The connection is now configured, and imports data from Data Platform on your chosen schedule. Shortly after each import is completed, the inventory beacon automatically uploads the resulting inventory to the central application server. After the next full import and compliance calculation (typically scheduled overnight), the inventory is visible in the web interface of FlexNet Manager Suite.

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Data Mappings, Gaps, and Impacts

The following topics provide a mapping between the source tables (and their columns) in the Normalize v5 database, and the corresponding destination tables and columns in the compliance database within FlexNet Manager Suite. This mapping covers only the first stage of the process, into the tables with names starting `Imported...`. These are effectively staging tables that hold the data between the upload from Data Platform, and the major transition (or import) into the operational tables in the compliance database, normally followed immediately by the license compliance calculations (the calculations of consumption against entitlements). The descriptions also identify the operational tables where the data eventually resides, and for a more detailed understanding of those tables and their columns, see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

The topics are separated by the target `Imported...` tables, each of which is aligned with a particular data object within FlexNet Manager Suite. Within each listing, the columns are in the same order that they appear in the *Schema Reference*, for your convenience if you are cross-referencing both documents.

As well as the list of imported data, a second list within each topic identifies the values that *cannot* be imported through Data Platform v5, together with notes on the impact that these gaps have on compliance calculations. Some gaps affect the suitability of this data source when you are managing certain types of licenses.

Each topic lists *every* column within the relevant `Imported...` table, so that if you are working across both this and the *Schema Reference*, there is no ambiguity about any column: it is either listed in the imports, or in the list of items missing from the import. Notice that this means some columns included for completeness appear in the list of "missing" items when in fact there is no expectation that they should be imported from any inventory source (or, to put it another way, they are *correctly* omitted from the import). These items are marked as "internally generated" by FlexNet Manager Suite.

Exempted kinds of data

The following kinds of data are *not* imported from Data Platform v5 to FlexNet Manager Suite:

- File evidence — this evidence type is not needed from Data Platform, as the import of installer evidence includes all required information
- WMI evidence — this evidence type is not needed from Data Platform, as the import of installer evidence includes all required information
- Client access evidence (used for Microsoft Client Access Licenses, or CALs) — this evidence is not available in Data Platform v5
- App-V evidence — this evidence is not available in Data Platform v5, and App-V application usage cannot be tracked if

Data Platform v5 is the single inventory source

- Oracle Database and Oracle option evidence, and Oracle LMS evidence — this evidence is not imported from Data Platform v5, so that recognition of Oracle Database version and edition, or of Oracle options, is not possible if Data Platform v5 is the single inventory source (but this information, along with detailed content to deliver to Oracle License Management Service, is fully available within FlexNet Manager Suite using the FlexNet inventory agent).

Comparison of Sources

This topic has two parts:

- A comparison of the inventory sources that are supported by FlexNet Manager Suite and Data Platform v5
- For data sources fully supported by both, a summary of the inventory gaps (some of which may affect compliance calculations) with data imported from each source either directly into FlexNet Manager Suite, or firstly into Data Platform and then imported from Data Platform v5 into FlexNet Manager Suite.

For additional detail, down to the level of individual data fields, refer to subsequent topics.

Supported inventory sources

For each of the data sources (listed alphabetically), this table displays:

- "Y" when either product offers out-of-the-box support for imports from that source
- A blank in either product's column when the data source is not supported
- "C" when either product has a *custom* extractor/adapter available to collect data from the source and import it into the connecting product.

Tip: *Support in FlexNet Manager Suite may be offered through a connector, requiring minimal configuration other than identifying the source; or an adapter, which may require a separate download and installation, and possibly setting up a staging database. In addition, FlexNet Manager Suite supports the development of custom adapters, for example, through the Inventory Adapter Studio. (For details, see the FlexNet Manager Suite System Reference PDF, available through the title page of the help.) For Data Platform, the equivalent terminology is extractor.*

Inventory source	FlexNet Manager Suite	Data Platform v5
Altiris	Y	C
App-V Standalone	Y	
BMC BladeLogic Client Automation (Marimba)	Y	C
BMC Discovery (previously ADDM)	Y	Y
EdgeSight for Citrix Virtual Apps (previously XenApp EdgeSight)	Y	
Citrix XenApp server agent (for Citrix Virtual Apps)	Y	
FlexNet Inventory Manager (previously ManageSoft)	Y	

Inventory source	FlexNet Manager Suite	Data Platform v5
FlexNet Manager for Engineering Applications	Y	
HP Discovery and Dependency Mapping Inventory (DDMI)	Y	C
HPE Universal Discovery (HP-UD)	Y	Y
IBM BigFix Platform (previously Tivoli Endpoint Manager)	Y	Y
IBM License Metric Tool (ILMT) or IBM BigFix Inventory (see note 1)	Y	
JAMF Pro (previously Casper)	C	Y
Microsoft Exchange ActiveSync	Y	
Microsoft Office 365	Y	
Microsoft SCCM (previously SMS)	Y	Y
Salesforce	Y	
SAP (through FlexNet Manager for SAP Applications)	Y	
ServiceNow	(see note 2)	Y
SolarWinds Orion	C	Y
Symantec IT Management Suite (Altiris)	Y	C
Tanium	C	Y

Note: *In the table above:*

1. *For imports from IBM BigFix Inventory, only applications with* `IBM` *as the* `Publisher` *are recognized by the Application Recognition Library.*
2. *FlexNet Manager Suite does provide for integration with ServiceNow, but in this case it is not importing raw inventory. ServiceNow is regarded as a source of business data rather than inventory data for FlexNet Manager Suite.*

Inventory gaps by import path

The following four inventory sources (column 1) are fully supported by both FlexNet Manager Suite and Data Platform v5. Based on the import path, there may be gaps in the imported inventory, and these gaps may be significant enough to prevent compliance calculations for related license types:

- The middle column identifies inventory gaps when FlexNet Manager Suite imports inventory data *directly* from each source
- The final column identifies inventory gaps if the inventory is first imported into Normalize v5 (within Data Platform), and subsequently imported from there into FlexNet Manager Suite.

Data source	Direct import to FNMS	Import through Data Platform
BMC Discovery (previously ADDM)	No inventory gaps.	All virtualization data is missing.
HPE Universal Discovery (HP-UD)	No inventory gaps.	Advanced virtualization data missing *(see note below)*. DNS domain name missing (domain flat name is available).
IBM BigFix (previously Tivoli Endpoint Manager)	All virtualization data is missing.	All virtualization data is missing.
Microsoft SCCM (previously SMS)	All virtualization data is missing.	Advanced virtualization data missing. DNS domain name missing (domain flat name is available).

Note: *This table distinguishes between:*

- *Simple virtualization calculations for technologies like VMware ESX and Hyper-V — these require only the host/guest relationships to be tracked*
- *Advanced virtualization calculations for hardware partitioning technologies like HP-UX vPar, IBM LPAR, and Solaris zones — these require tracking of greater detail, such as partial processors and processor pool information. Information about clusters and host affinity (and the like) is also included in the advanced class.*

And obviously, "all virtualization data" includes both of the above.

Imported Installer Evidence

The `ImportedInstallerEvidence` table is a staging table used for input of records about installation evidence. From here, de-duplicated and normalized records are merged into the `InstallerEvidence` table.

`InstallerEvidence` typically lists installer evidence left behind after a particular item of software has been installed on a computer. In the case of imports from Data Platform v5, applications identified there are first imported as installer evidence. As always, this installer evidence is tested against rules saved in the Application Recognition Library (ARL), and when matched, the appropriate application record is added to the `InstalledApplications` table (if it does not already exist there), and is linked to the installer evidence. This application record is then visible in the **Installed Applications** page of the web interface for FlexNet Manager Suite. A record of installer evidence that cannot be matched by the ARL appears in the web interface on the **Unrecognized Evidence** page.

This process means there are three cases to consider, any of which may produce inventory gaps that can impact compliance calculations:

1. For applications recognized within Data Platform, and for which the normalized installer evidence has been mapped to an entry in the Application Recognition Library (ARL): there is no inventory gap as such, since at a minimum all these items are recognized within FlexNet Manager Suite; but in a few cases, some application variants (such as interface language, hotfix number, or platform) may be recognized by either tool but not the other.
2. For applications recognized within Data Platform, for which there is as yet no mapping to the ARL: the

unrecognized evidence in FlexNet Manager Suite may mean that license consumption is under-counted because the applications have not been recognized within FlexNet Manager Suite, and therefore the licenses cannot measure consumption against the 'missing' applications.

3. For applications not recognized within Data Platform, but which could have been recognized by the ARL from other inventory sources: where Data Platform is your *only* data source, the unrecognized application may result in under-counting of license consumption.

There are two listings below. The first maps what is imported from Data Platform v5. The second lists values that FlexNet Manager Suite expects to load into the `ImportedInstallerEvidence` table, that are not available from Data Platform v5.

Data mapping for imported installer evidence

The following listing matches the source data from Data Platform v5 with the equivalent column in the `ImportedInstallerEvidence` table. Other columns from the `ImportedInstallerEvidence` table cannot be populated from Data Platform v5, and so are omitted here (and shown below). For more details on the database tables and columns within FlexNet Manager Suite, please see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(`MATCH_HOST_SW_PROD`) / `CAT_SW_UUID`	(`ImportedInstallerEvidence`) / `ExternalInstallerID`	The identifier used in Data Platform for the installer evidence.
(`MATCH_HOST_SW_PROD`) / `CAT_PRODUCT_NAME` *or* the Flexera ID for the application if available in `ARL_ID` ***Tip:** A prefix of `arl://` is prepended to the `ARL_ID` on import.*	(`ImportedInstallerEvidence`) / `DisplayName`	The display name of the software recorded in Data Platform, which is imported only when there is no Flexera ID available. When the Flexera ID is returned instead, this allows matching in the ARL, which then supplies its standard display name for the application instead.
(`MATCH_HOST_SW_PROD`) / `CAT_VERSION` *or* an empty string when the Flexera ID for the application is available	(`InstallerEvidence`) / `Version`	When the Flexera ID is known, the value is left empty for later supply from the ARL. For applications unknown in the ARL, the version value is imported from Data Platform.
(`MATCH_HOST_SW_PROD`) / `CAT_MANUFACTURER` *or* an empty string when the Flexera ID for the application is available	(`ImportedInstallerEvidence`) / `Publisher`	When the Flexera ID is known, the value is left empty for later supply from the ARL. For applications unknown in the ARL, the publisher's name is imported from Data Platform.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
Hard-coded values: • FlexeraID when it is available in (CAT_FLEXERA_ARL) / ARL_ID • BDNA when the Flexera ID for the application is not available.	(ImportedInstallerEvidence) / Evidence	When the Flexera ID is known, the evidence type FlexeraID reflects this. Otherwise, when Data Platform is unaware of any matching entry in the ARL, it is identified as the evidence type. ***Tip:*** *The internal database value BDNA is replaced with Data Platform for presentation in the web interface.*
(CAT_FLEXERA_ARL) / ARL_ID when the Flexera ID is available, *or* an empty string	(ImportedInstallerEvidence) / ProductCode	The Flexera ID (without the arl:// prefix) is used when available. Otherwise an empty string.

Data not imported from Data Platform v5

These columns in the ImportedInstallerEvidence table cannot be populated by inventory imports from Data Platform v5. These missing data points do not impact license compliance calculations. For further details about these columns, please see the schema reference.

- ComplianceConnectionID — *internally generated*
- AccessModeID (relevant only to file evidence, whereas this import is of installer evidence).

Imported Computers (Inventory Devices)

The ImportedComputer table is a staging table used for input of inventory device records. From here, de-duplicated and normalized records are merged into the ComplianceComputer table.

There are two listings below. The first maps what is imported from Data Platform v5. The second lists values that FlexNet Manager Suite expects to load into the ImportedComputer table, that are not available from Data Platform v5, and the impact of these gaps on license reconciliation calculations where these rely on data from only this source.

Data mapping for imported inventory devices

The following listing matches the source data from Data Platform v5 with the equivalent column in the ImportedComputer table. Other columns from the ImportedComputer table cannot be populated from Data Platform v5, and so are omitted here (and shown below). For more details on the database tables and columns within FlexNet Manager Suite, please see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
Fabricated from: (MATCH_TASK_DET) / PROCESS_ID (MATCH_TASK_DET) / TASK_NAME *and the checksum for the same* (MATCH_HOST_OS) / HOST_ID	(ImportedComputer) / ExternalID The format is of this form (shown with nonsense values): `PID123|TheTask|654321:Host789`	An external ID is fabricated from the various details shown (truncated as required and joined with various separator characters). This is then mapped through the ImportedStringMapping table to convert string IDs to integer IDs.
(MATCH_HOST_OS) / HOSTNAME	(ImportedComputer) / ComputerName	The name of the computer. • In Windows, this is the NetBIOS name of the local computer, as returned by GetComputerName() • For UNIX-like platforms, it is the host name of the machine, as returned by gethostname(2).
(MATCH_HOST_OS) / DOMAIN	(ImportedComputer) / Domain	The domain reported by the computer. ***Note:*** *Data Platform exports a domain flat name, while the ImportedComputer table handles either a flat or DNS domain name, but the DNS domain name is preferred. Watch out for possible problems merging device records obtained from multiple inventory sources.*
(MATCH_HOST_OS) / DISOVERED_OS_NAME	(ImportedComputer) / OperatingSystem	The operating system of the computer.
(MATCH_HOST_OS) / DISOVERED_OS_PATCH_LEVEL	(ImportedComputer) / ServicePack	The service pack installed for the operating system.
(MATCH_HOST_OS) / CALC_NUM_OF_PHYSICAL_CPUS	(ImportedComputer) / NumberOfProcessors	The number of processors in the computer.
(MATCH_HOST_OS) / DISC_CPU_MODEL	(ImportedComputer) / ProcessorType	The type of processor in the computer.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_HOST_OS) / DISC_SPEED_MHZ	(ImportedComputer) / MaxClockSpeed	The maximum clock speed of the fastest processor in the computer.
(MATCH_HOST_OS) / CALC_NUM_OF_CORES	(ImportedComputer) / NumberOfCores	The number of cores in the computer. ***Note:*** *Currently Data Platform gets an incorrect result from virtual machines (defect repair estimate 1Q2018). This affects the consumption calculations for all license types that use cores as a metric (most of these assume 1 core per processor when the number of cores is not available):* • *Device (Core-Limited)* • *Core Points* • *IBM PVU* • *Microsoft Server Core* • *Microsoft Server/ Management Core* • *Oracle Processor.*
(DISC_ALL_OS) / TOTALMEMORY	(ImportedComputer) / TotalMemory	The total RAM in the computer, in bytes.

<table>
<tr><th>Data Platform (Table)/Column</th><th>FNMS (Table)/Column</th><th>Notes</th></tr>
<tr><td>(MATCH_HOST_HW_PROD_MODEL) / CAT_TAXONOMY_CATEGORY2</td><td>(ImportedComputer) / ChassisType</td><td>The type of case of the computer. Some license types use this information to optimize the licensing position, particularly with desktop and laptop computers. Types used in Data Platform are mapped to types in FlexNet Manager Suite as follows:
<table><tr><th>Data Platform</th><th>FNMS</th></tr><tr><td>Empty</td><td>Unknown</td></tr><tr><td>Handhelds</td><td>Tablet</td></tr><tr><td>Notebooks</td><td>Laptop</td></tr><tr><td>Mainframes</td><td>Main System Chassis</td></tr><tr><td>Servers</td><td>Rack Mount Chassis</td></tr><tr><td>All others</td><td>Desktop</td></tr></table></td></tr>
<tr><td>(DISC_HDDS) / The count of entries for this device</td><td>(ImportedComputer) / NumberOfHardDrives</td><td>The number of hard drives in the computer.
  Note: Collected into Data Platform only by a legacy extractor or custom extractor. FlexNet Manager Suite imports it where it is available.</td></tr>
</table>

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(DISC_ALL_OS) / LOCALFILESYSTEMSPACETOTAL	(ImportedComputer) / TotalDiskSpace	The total size of all hard drives in the computer. The results differ for inventory collected from SCCM directly by FlexNet Manager Suite, or indirectly through Data Platform v5: • The FlexNet connection imports the *physical* disk space (DISK_DATA) • Data Platform imports the *logical* hard drive space (v_GS_Logical_DISK).
(DISC_NICs) / The count of entries for this device	(ImportedComputer) / NumberOfNetworkCards	The number of network cards in the computer.
(DISC_MONITORS) / The count of entries for this device	(ImportedComputer) / NumberOfDisplayAdapters	The number of graphics cards in the computer. ***Note:*** *Collected into Data Platform only by a legacy extractor or custom extractor. FlexNet Manager Suite imports it where it is available.*
(DISC_NICs) / IP_ADDRESS	(ImportedComputer) / IPAddress	The IP address of the computer.
(DISC_NICs) / MACADDRESS	(ImportedComputer) / MACAddress	The MAC address of the computer.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_HOST_HW_PROD_MODEL) / CAT_MANUFACTURER *Failover to* (DISC_COMPUTERSYSTEM) / MANUFACTURER	(ImportedComputer) / Manufacturer	The manufacturer of the computer hardware. Some examples include: • On Windows, the SMBios manufacturer (the WMI Manufacturer property of the 'Win32_ComputerSystem' class). • On Linux, 'Manufacturer' in the 'System Information' section resulting from the 'dmidecode' command. Sample command: 'dmidecode -s system-manufacturer' • On Solaris x86, as for Linux, with failovers first to 'sysinfo SI_HW_PROVIDER' and then to 'ModelNo'. • On Solaris SPARC, the 'sysinfo SI_HW_PROVIDER'. Typically this value is 'Sun_Microsystems' or, more recently, 'Oracle Corporation'. Failover to the 'ModelNo'. • On HP-UX, the string literal 'HP'. • On AIX, the 'modelname' system attribute preceding the comma character. For example, if the 'modelname' system attribute is 'IBM,8202-E4B', then use 'IBM'. This value is typically 'IBM'.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_HOST_HW_PROD_MODEL) / CAT_HARDWARE_PRODUCT *and* CAT_HW_MODEL*, joined with a space* *Failover to* (DISC_COMPUTERSYSTEM) / MODEL	(ImportedComputer) / ModelNo	The model of the computer hardware or the virtual machine. This value is defined for the context of the current execution environment, rather than the physical server that may be hosting a virtual machine or partition. For examples across operating systems, see the schema documentation.
(MATCH_HOST_OS) / SERIALNUMBER *Failover to* (DISC_ALL_OS) / SERIALNUMBER	(ImportedComputer) / SerialNo	The hardware serial number of the computer. The goal of this value is to be tied to the physical hardware, partition or virtual machine and to be as unique as possible across all computers in the organization. This is due to its use in tracking computers, particularly after an operating system rebuild. This value is also used to socialize computer inventory from different inventory sources, and is used to map virtual machine guest operating system inventory to the VM host on which the virtual machine is running.
(DISC_HOSTS_USERLOGON) / DOMAIN_USERNAME	(ImportedComputer) / LastLoggedOnUser	The DOMAIN\SAMAccountName of the user last logged onto the computer. Data Platform uses the flat domain name.
(DISC_ALL_OS) / ScanDate	(ImportedComputer) / InventoryDate	The date the computer last had inventory reported.
Hard-coded value Data Platform	(ImportedComputer) / InventoryAgent	The name of the person or tool that performed the last inventory.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_HOST_CPU) / DISC_NUM_OF_SOCKETS	(ImportedComputer) / NumberOfSockets	The number of sockets in the computer. ***Tip:*** *Data Platform supplies this value from Technopedia. Other inventory sources supported by FlexNet Manager Suite cannot gather this value from inventory; and in general, for compliance calculations where the number of sockets is not available in inventory, the value is approximated by using the number of processors (which is satisfactory when there are no empty sockets in the inventory device). In devices that have any empty sockets, non-blank information from Technopedia is superior. Notice that certain Oracle license types (such as Oracle Database Standard Edition) have a restriction on the number of sockets on the host server.*

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_HOST_CPU) / CALC_NUM_OF_LOGICAL_CPUS	(ImportedComputer) / NumberOfLogicalProcessors	The number of logical processors in the computer. ***Note:*** *Currently Data Platform gets an incorrect result from virtual machines (defect repair estimate 1Q2018). This affects the consumption calculations for all license types that use processors as a metric:* • *Device (Processor-Limited)* • *Microsoft Server Processor* • *Processor* • *Processor Points.*

Data not imported from Data Platform v5

These columns in the ImportedComputer table cannot be populated by inventory imports from Data Platform v5. The majority of these missing data points do not impact license compliance calculations (these are listed here without comment). Those that do have an impact are noted below. For further details about these columns, please see the schema reference.

- HardwareInventoryDate
- ServicesInventoryDate
- ComplianceConnectionID — *internally generated*
- ComplianceComputerID — *internally generated*
- ComplianceDomainID — *internally generated*
- IncompleteRecord — This is always set to zero for imports from Data Platform (that is, the imported record is regarded as 'sufficient' for its normal use in license compliance calculations, subject to the known limitations described in these pages).
- PartialNumberOfProcessors — Absence of this value prevents subcapacity license consumption calculations for IBM PVU and Oracle Processor licenses.
- UntrustedSerialNo
- FullDetailsFromExternalID
- FullDetailsFromComplianceConnectionID
- ComplianceComputerTypeID — This is the foreign key to the ComplianceComputerType table, identifying

whether the device is a VM, a VM host, and so on. *Compliance impact:* Prevents (unrecognized) VDI templates consuming from a license. Prevents (unrecognized) VMs from observing license rules that require (or disallow) consumption by VMs.

- `ILMTAgentID` — For imports from ILMT, identifies the device as a candidate for subcapacity calculations on any related IBM PVU license(s). *Compliance impact:* Device consumption may be at full capacity, and calculated only when a full inventory import and compliance calculation is run (typically, once daily).
- `FNMPComputerUID`
- `HostIdentifyingNumber` — Useful for matching records from different sources, but no direct effect on compliance calculations.
- `HostType` — Useful for matching records from different sources, but no direct effect on compliance calculations.
- `IsRemoteACLDevice`
- `IsDuplicate`
- `LegacySerialNo`
- `UUID`
- `IMEI`
- `PhoneNumber` (for mobile devices)
- `EmailAddress` (for mobile devices)
- `CalculatedUser` — Typically, calculated by FlexNet Manager Suite as the most frequent user in the last ten log-on records. Data Platform v5 only reports this last logged on user name (`LastLoggedOnUser`); but this is sufficient.
- `LastSuccessfulInventoryDate`
- `MDScheduleGeneratedDate`
- `MDScheduleContainsPVUScan`
- `FirmwareSerialNumber`
- `MachineID`
- `IgnoredDueToLicense`.

Imported VMs and Hosts

The `ImportedVirtualMachine` table is a staging table used for input of virtual machine records, including their host server. From here, de-duplicated and normalized records of the VM properties are merged into the `VirtualMachine` table; and if not already present, records for both the VM and the host are added to the `ComplianceComputer` table.

Tip: *This data is in addition to the inventory imported for the virtual machine (and, separately, its host) and imported as part of the inventory device records. For details, see Imported Computers (Inventory Devices).*

There are two listings below. The first maps what is imported from Data Platform v5. The second lists values that FlexNet Manager Suite expects to load into the `ImportedVirtualMachine` table, that are not available from Data Platform v5, and the impact of these gaps on license reconciliation calculations where these rely on data from only this source.

Data mapping for imported virtualization records

The following listing matches the source data from Data Platform v5 with the equivalent column in the `ImportedVirtualMachine` table. Other columns from the `ImportedVirtualMachine` table cannot be populated from Data Platform v5, and so are omitted here (and shown below). For more details on the database tables and columns within FlexNet Manager Suite, please see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
Fabricated from: (MATCH_TASK_DET) / PROCESS_ID (MATCH_TASK_DET) / TASK_NAME *and the checksum for the same* (DISC_VIRTUAL_HOSTGUEST) / HOST_ID	(ImportedVirtualMachine) / HostComputerID The format is of this form (shown with nonsense values): `PID123|TheTask|654321:Host789`	A computer ID for the host is fabricated from the various details shown (truncated as required and joined with various separator characters). This is then mapped through the `ImportedStringMapping` table to convert string IDs to integer IDs.
(MATCH_HOST_HW_PROD_MODEL) / CAT_MANUFACTURER	(ImportedVirtualMachine) / VirtualMachineType	The type of virtual machine. Values from Data Platform are transformed as follows: • `Microsoft` becomes `VMType.HyperV` • `VMware` becomes `VMType.VMware` • Any other value becomes `VMType.Unknown`.
(DISC_ALL_OS) / OSCOMPUTERNAME	(ImportedVirtualMachine) / ComputerName	As Data Platform has only one name for the VM, the previous value is replicated here (again).
(MATCH_HOST_HW_PROD_MODEL) / CAT_HW_MODEL *Failover to* (MATCH_HOST_HW_PROD_MODEL) / DISCOVERED_MODEL	(ImportedVirtualMachine) / ModelNo	The model number reported for the VM.
(MATCH_HOST_HW_PROD_MODEL) / CAT_MANUFACTURER	(ImportedVirtualMachine) / Manufacturer	The manufacturer visible to the guest OS running on the VM.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
Fixed value Data Platform	(ImportedVirtualMachine) / InventoryAgent	The tool that provided this inventory record.
(DISC_ALL_OS) / OPERATINGSYSTEM_TYPE_LABEL	(ImportedVirtualMachine) / GuestFullName	The operating system configured for the guest.
Fabricated from: (MATCH_TASK_DET) / PROCESS_ID (MATCH_TASK_DET) / TASK_NAME *and the checksum for the same* (DISC_VIRTUAL_HOSTGUEST) / Guest_ID	(ImportedVirtualMachine) / VMComputerID The format is of this form (shown with nonsense values): `PID123|TheTask|654321:Host789`	A computer ID for the guest is fabricated from the various details shown (truncated as required and joined with various separator characters). This is then mapped through the ImportedStringMapping table to convert string IDs to integer IDs.

Data not imported from Data Platform v5

The following columns in the ImportedVirtualMachine table cannot be populated by inventory imports from Data Platform v5. Notice that several of them (such as NumberOfProcessors, NumberOfHardDrives, and IPAddress) have matching data points imported as part of the inventory device import for the same guest machine. While several of these missing data points do not impact license compliance calculations, the following gaps are significant:

- When the original input to Data Platform was from BMC Discovery (ADDM), information about virtual machines (and hosts) is *not* available. In contrast, when the data source for Data Platform was Microsoft SCCM, the identification of hosts and guests *is* available for supported platforms such as Hyper-V.

  Tip: *This is the inverse of the result obtained when FlexNet Manager Suite takes inventory from these sources directly (rather than through Data Platform). In the this unmediated case, inventory from SCCM does not include the host/guest, and the inventory from ADDM does include the host/guest relationship. Of course, if you have multiple inventory sources collecting from a common target device, the results are merged within FlexNet Manager Suite to provide the most complete record possible.*

- When data is available (from inventory sources such as Microsoft SCCM into Data Platform), the import from Data Platform to FlexNet Manager Suite is missing information about resource pools, vMotion, and partitions. This means that, when Data Platform v5 is the only inventory source for these machines, compliance calculations are impossible for consumption from some licenses such as IBM PVU, Microsoft, or Oracle server licenses.

For further details about these columns that are missing data, please see the schema reference.

- VMName
- VCObjectID
- FriendlyName
- UUID
- TotalMemory

- PoolName
- CPUUsage
- MemoryUsage
- MaxNumberOfLogicalProcessors
- VMEnabledStateID
- NumberOfProcessors
- ProcessorType
- NumberOfNetworkCards
- ComplianceConnectionID
- VMLocation
- PoolType
- ZoneResourceManagementMethodType
- AffinityEnabled
- CPUAffinity
- CoreAffinity
- PartitionID
- PartitionNumber
- FullComputerName
- IPAddress.

Imported Installation Records

The ImportedInstalledInstallerEvidence table is a staging table used to collect records of which installation evidence has been found on what inventory devices. From here, de-duplicated and normalized records are merged into the InstalledInstallerEvidence table.

InstalledInstallerEvidence is a simple table that mainly links installer evidence records with inventory device records. In the case of imports from Data Platform v5, only the two external IDs are needed, with other values supplied by FlexNet Manager Suite as and when required. The first listing below maps the two columns from Data Platform source to FlexNet Manager Suite destination. Below is a list of the remaining columns in the ImportedInstalledInstallerEvidence table that are not populated by this import (and do not need to be).

Data mapping for imported installed installer evidence

The following listing matches the source data from Data Platform v5 with the equivalent column in the

ImportedInstalledInstallerEvidence table. For more details on the database tables and columns within FlexNet Manager Suite, please see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_HOST_SW_PROD) / CAT_SW_UUID	(ImportedInstalledInstallerEvidence) / ExternalInstallerEvidenceID	The same value as the (ImportedInstallerEvidence) / ExternalInstallerID.
Fabricated from: (MATCH_TASK_DET) / PROCESS_ID (MATCH_TASK_DET) / TASK_NAME *and the checksum for the same* (MATCH_HOST_SW_PROD) / HOST_ID	(ImportedInstalledInstallerEvidence) / ExternalID The format is of this form (shown with nonsense values): `PID123|TheTask|654321:Host789`	An external ID for the inventory device is fabricated from the various details shown (truncated as required and joined with various separator characters). This is then mapped through the ImportedStringMapping table to convert string IDs to integer IDs. The same value as the (ImportedComputer) / ExternalID.
(MATCH_HOST_SW_PROD) / DISCOVERED_INSTALLDATE	(ImportedInstalledInstallerEvidence) / InstallDate	The installation date recorded for the installer evidence.

Data not imported from Data Platform v5

These columns in the ImportedInstalledInstallerEvidence table cannot be populated by inventory imports from Data Platform v5. These missing data points do not impact license compliance calculations. For further details about these columns, please see the schema reference.

- ComplianceConnectionID — *internally generated*
- ExternalInstanceID
- DiscoveryDate (will be set to the date of first import from this connection).

Imported Users

The ImportedUser table is a staging table used for input of records about users. From here, de-duplicated and normalized records are merged into the ComplianceUser table.

ComplianceUser stores information about end-users in the enterprise, including contact details, login details, and inventory source details (if applicable). End-users are the people using computers within your enterprise (as distinct from operators, who are people permitted to use FlexNet Manager Suite).

There are two listings below. The first maps what is imported from Data Platform v5. The second lists values that FlexNet Manager Suite expects to load into the ImportedUser table, that are not available from Data Platform v5.

Data mapping for imported users

The following listing matches the source data from Data Platform v5 with the equivalent column in the `ImportedUser` table. Other columns from the `ImportedUser` table cannot be populated from Data Platform v5, and so are omitted here (and shown below). For more details on the database tables and columns within FlexNet Manager Suite, please see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(`DISC_HOSTS_USERLOGON`) / `USERDOMAIN` and `USERLOGON` combined	(`ImportedUser`) / `ExternalID`	Mapped through the `ImportedStringMapping` table to convert string IDs to integer IDs.
(`DISC_HOSTS_USERLOGON`) / `USERDOMAIN`	(`ImportedUser`) / `Domain`	The domain of the end-user. Data Platform exports the flat domain name.
(`DISC_HOSTS_USERLOGON`) / `USERLOGON`	(`ImportedUser`) / `SAMAccountName`	The login name (SAM account name) of the end-user.
Hard-coded value `Data Platform`	(`ImportedUser`) / `InventoryAgent`	The name of the person or tool that performed the last inventory.

Data not imported from Data Platform v5

These columns in the `ImportedUser` table cannot be populated by inventory imports from Data Platform v5. These missing data points do not impact license compliance calculations. For further details about these columns, please see the schema reference.

- `ComplianceConnectionID` — *internally generated*
- `UserName`
- `ComplianceDomainID`
- `LocationID`
- `FirstName`
- `LastName`
- `Email`
- `EmployeeNumber`
- `CostCenter` (as reported in SAP)
- `ComplianceUserID` — *internally generated*
- `ComplianceDomainID` — *internally generated*
- `IsBlacklisted` — *internally generated*
- `MapUsingEmailAddress`.

Imported Software Usage

The ImportedInstalledInstallerEvidenceUsage table is a staging table used to collect records of actual use of applications related to installation evidence found on inventory devices. From here, de-duplicated and normalized records are merged into the InstalledSoftwareUsageData table.

There are two listings below. The first maps what is imported from Data Platform v5. The second lists values that FlexNet Manager Suite expects to load into the ImportedInstalledInstallerEvidenceUsage table, that are not available from Data Platform v5, and the impact of these gaps on license reconciliation calculations where these rely on data from only this source.

Data mapping for imported usage related to installer evidence

The following listing matches the source data from Data Platform v5 with the equivalent column in the ImportedInstalledInstallerEvidenceUsage table. Other columns from the ImportedInstalledInstallerEvidenceUsage table cannot be populated from Data Platform v5, and so are omitted here (and shown below). For more details on the database tables and columns within FlexNet Manager Suite, please see the *FlexNet Manager Suite Schema Reference* PDF, available through the title page of online help.

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_SOFTWARE_METERING) / USAGE_YEAR *and* USAGE_MONTH_N Failover to (MATCH_SW_RECENTLY_USED_APPS) / LASTUSEDDATE	(ImportedInstalledInstallerEvidenceUsage) / StartDate	The start date is set to a string formatted similarly to ISO 8601 (except for the slash separator: 2019/04/01) by conjoining the year and month-number from Data Platform, and adding an assumed day for the first of the month. Only if there is no value available by this path, we use the date available from the alternate table shown.
Fabricated from: (MATCH_TASK_DET) / PROCESS_ID (MATCH_TASK_DET) / TASK_NAME *and the checksum for the same* (MATCH_SOFTWARE_METERING) / HOST_ID	(ImportedInstalledInstallerEvidenceUsage) / ExternalID The format is of this form (shown with nonsense values): `PID123|TheTask|654321:Host789`	An external ID is fabricated from the various details shown (truncated as required and joined with various separator characters). This is then mapped through the ImportedStringMapping table to convert string IDs to integer IDs. ***Tip:*** *If the MATCH_SOFTWARE_METERING table cannot provide a host ID, it is taken from MATCH_SW_RECENTLY_USED_APPS.*

Data Platform (Table)/Column	FNMS (Table)/Column	Notes
(MATCH_SOFTWARE_METERING) / CAT_SW_UUID	(ImportedInstalledInstallerEvidenceUsage) / ExternalInstallerID	The identifier used in Data Platform for the installer evidence. ***Tip:*** *If the MATCH_SOFTWARE_METERING table cannot provide an external ID, it is taken from MATCH_SW_RECENTLY_USED_APPS.*
(MATCH_SOFTWARE_METERING) / USAGECOUNT *plus* TSUSAGECOUNT	(ImportedInstalledInstallerEvidenceUsage) / NumberOfSessions	If the number of sessions in which the evidence was in use cannot be calculated by this method, the default value 1 is inserted.
(MATCH_SOFTWARE_METERING) / LASTUSEDDATE Failover to (MATCH_SW_RECENTLY_USED_APPS) / LASTUSEDDATE	(ImportedInstalledInstallerEvidenceUsage) / LastUsedDate	The last known date when usage of the application is recorded (in one table or the other).
(MATCH_SW_RECENTLY_USED_APPS) / LASTUSERDOMAIN, *then a backslash* \, *then* LASTUSERLOGON	(ImportedInstalledInstallerEvidenceUsage) / ExternalUserID	The end-user identified in the source as using the software. The identifier is fabricated by conjoining the flat domain name and logon name (separated by a backslash).

Data not imported from Data Platform v5

These columns in the ImportedInstalledInstallerEvidenceUsage table cannot be populated by inventory imports from Data Platform v5. These missing data points do not impact license compliance calculations. For further details about these columns, please see the schema reference.

- ComplianceConnectionID — *internally generated*
- ExternalInstanceID (used only for Oracle).