

# Bundled and Supporting Programs

## User Guide

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# Overview

Bundled and Supporting Programs are very common across the IBM software portfolio and are an area of IBM licensing which clients find complex. A lack of understanding of the limitations regarding the use of these programs can lead to compliance issues. This guide explains the difference between Supporting and Bundled Programs, the limitations regarding their use and provides guidance on how these programs should be managed.

This guide is intended as a general licensing knowledge resource. While it may explore scenarios and discuss the licensing implications of hardware configurations, it is not intended to provide advice for specific client circumstances. Always consult your IBM representative should you have any questions or concerns about Supporting and Bundled Programs in your IBM estate.

# Key Terms

The following terms are used throughout this document and are fundamental to understanding its contents. This is not an exhaustive list, and some concepts may be discussed in other licensing guides or rely on assumed knowledge.

## **Bundled Program**

An IBM program which forms part of a Principal Program.

## **IBM License Metric Tool (“ILMT”)**

An IBM tool used to measure consumption of certain IBM software metrics. Use of ILMT or HCL BigFix Inventory is one of the eligibility requirements for Sub-Capacity licensing.

## **License Information (“LI”) document**

A document which sets out detailed licensing information about an IBM program. Each document relates to a specific release (version). LI documents are defined in the [IPLA](#), Part 1 (General Terms), clause 1 and in the [IPAA](#), sections 3 and 3.2.

## **Principal Program**

The IBM offering for which a license has been purchased.

## **Supporting Program**

An IBM program which is deployed in support of a Principal Program.

# Introduction

The concept of Supporting Programs is defined in the [IPLA v14](#) in clause 3(f) and in [IPLA v15](#) in clause 1(f), and further detailed definition of what this means for each IBM program is set out in the corresponding License Information document.

About a third of IBM offerings have at least one Bundled or Supporting Program. The terms “Supporting Program” and “Bundled Program” are often mistakenly used interchangeably, and it is common for Supporting Programs to be described as being “bundled with” the Principal Program, which further conflates the two concepts.

A Supporting Program is an IBM program deployed in support of a Principal Program, whereas a Bundled Program is an IBM program which forms part of the Principal Program for which a license is purchased. There can be more than one Supporting Program and more than one Bundled Program. IBM offerings can include both Bundled and Supporting Programs.

Supporting Programs provide functionality or capability to the Principal Program; using existing programs’ capabilities rather than recreating them each time reduces the complexity of the Principal Program. Bundled Programs allow a single part number to be purchased which covers the installation of multiple IBM programs.

Both Bundled and Supporting Programs create additional licensing and software asset management (SAM) considerations:

- there are restrictions relating to their use. Failure to adhere to these restrictions causes these programs to become separately licensable;
- Bundled and Supporting Programs may in turn include further Bundled or Supporting Programs; and
- Keeping track of the relationships between software installations is an important aspect of maintaining control of the licensing implications of their use.

# About Bundled and Supporting Programs

## Supporting Programs

IBM has a large catalog of products which provide the functionality that clients need to support their business. Some of these products offer functionality which is common to a lot of software use cases. Rather than recreate this functionality for every new IBM offering, IBM will grant you limited access to these existing IBM programs at no additional charge on the condition that these programs are used only in conjunction with (and only to the extent necessary to support) the Principal Program.

For example, an IBM program used to run an online store might need an application server to serve the web pages and a database to store, process and retrieve information about products, prices and customer accounts. To accomplish these tasks IBM might include Supporting Programs, for instance IBM WebSphere Application Server to take the role of the application server and IBM DB2 Enterprise Server Edition to take the role of the database. Using these existing IBM programs allows IBM’s developers to concentrate on adding value to the primary function of the Principal Program.

## Bundled Programs

Bundled Programs form part of the Principal Programs in their own right. The deployment of all the Bundled Programs comprises the license requirement for the Principal Program. Each Bundled Program may contribute equally to the number of licenses required for the Principal Program, or there may be a ratio defined in the License Information document which specifies the number of licenses to the Principal Program required for the deployment of each Bundled Program.

## Compliance Considerations

Often, the Bundled Programs or the Supporting Programs are full versions which, once installed, do not distinguish themselves as being a bundled or supporting program.

If the relationship between a Bundled or Supporting program and its Principal Program is not documented, license requirements may be

over-estimated due to an assumption that every installation requires a separate license. This is particularly the case if you already have separately licensed deployments of these programs as well as those used as part, or in support, of a Principal Program.

It is also common for Bundled or Supporting Programs that are not earmarked as such to be treated as part of a wider deployment and used for purposes outside the context of the Principal Program. Doing so requires these installations to be separately licensed.

### *Where to find the list of Bundled and Supporting Programs*

The License Information document for your licensed Program will specify any Bundled or Supporting Programs. Often the version number of each Program is specified.

The sections are typically headed with the following:

- Supporting Programs
- Bundled Programs
- Other IBM Programs (in older LI documents)

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The image below is an example of an entry for Supporting Programs:

[Click the image to be taken to the LI document](#)

#### Supporting Programs

Licensee is authorized to install and use the Supporting Programs identified below only to support Licensee's use of the Principal Program under this Agreement. The phrase "to support Licensee's use" would only include those uses that are necessary or otherwise directly related to a licensed use of the Principal Program or another Supporting Program. The Supporting Programs may not be used for any other purpose. A Supporting Program may be accompanied by license terms, and those terms, if any, apply to Licensee's use of that Supporting Program. In the event of conflict, the terms in this License Information document supersede the Supporting Program's terms. Licensee must obtain sufficient entitlements to the Program, as a whole, to cover Licensee's installation and use of all of the Supporting Programs, unless separate entitlements are provided within this License Information document. For example, if this Program were licensed on a VPC (Virtual Processor Core) basis and Licensee were to install the Principal Program or a Supporting Program on a 10 VPC machine and another Supporting Program on a second 10 VPC machine, Licensee would be required to obtain 20 VPC entitlements to the Program.

#### Supporting Programs:

IBM Cloud Pak for Data Enterprise Edition 3.0.1

IBM Cloud Pak for Data Enterprise Edition 3.5

Watson Knowledge Studio 1.2

IBM Watson Explorer Deep Analytics Edition V12.0.3.4

## *Restrictions on the use of Bundled and Supporting Programs*

In addition to the requirement that Bundled and Supporting Programs are only used for the purposes of supporting the Principal Program, there are often additional restrictions placed on clients when deploying these programs.

These can include the following (which is a non-exhaustive list):

- The version or edition of the Supporting or Bundled Program;
- A restriction on the components of the Supporting or Bundled Program that can be used – either a list of ‘Permitted’ or ‘Prohibited’ Components;
- Where the Supporting or Bundled Program can be installed;
- Technical Limitations applied to the Supporting or Bundled Program; and
- Production and Non-Production Use.

The restrictions vary by program and can also vary between versions of the program. It is therefore important to pay close attention to the License Information document relevant to the specific version of the Principal Program being deployed.

The restrictions listed above are discussed in more detail below:

### *Program Version*

The section within the License Information Document relating to Supporting or Bundled Programs will specify the programs that the client is authorized to use in support of the Principal Program. Often, the License Information Document will specify the version of the supporting software that can be deployed.

This means that these supporting programs may only be deployed **up to** the version numbers specified (see illustration to left), in support of the version of the Principal Program to which the License Information Document relates.

Note: In the event a more recent version of the Bundled or Supporting Program is deployed, the deployment would require a separate license.

### *Edition*

The LI Document may specify the edition of the Bundled or Supporting Programs that can be deployed in support of the Principal Program – see the picture below.

Many IBM programs are available in multiple editions that offer varying levels of functionality at different license price points.

<b>Supporting Programs:</b>
IBM Db2 Standard Edition
IBM HTTP Server for WebSphere Application Server
IBM Installation Manager
IBM Packaging Utility

In the event a higher edition of a Supporting or Bundled Program is deployed, for example, ‘Enterprise Edition’ as opposed to the permitted ‘Standard Edition’ in the example above, the deployment of IBM DB2 Enterprise Edition would be separately licensable.

Not adhering to this restriction may not only result in an unplanned license requirement, but there can be a significant difference in cost between editions.

<b>Supporting Programs:</b>
IBM Cloud Pak for Data Enterprise Edition 3.0.1
IBM Cloud Pak for Data Enterprise Edition 3.5
Watson Knowledge Studio 1.2
IBM Watson Explorer Deep Analytics Edition V12.0.3.4

### *Permitted and Prohibited Components*

There are many IBM programs that are comprised of multiple components or provide varying levels of functionality.

In some instances, only certain components of the Supporting or Bundled Programs listed in the LI document are permitted for use in support of the Principal Program – see the picture below.

#### Permitted Components

Licensee is permitted to use only the following components or functions of the identified Bundled or Supporting Programs:

Control Plane (of IBM Cloud Pak for Data Enterprise Edition)

Common Services (of IBM Cloud Pak for Data Enterprise Edition)

Portworx storage (of IBM Cloud Pak for Data Enterprise Edition)

Watson Explorer Content Analytics Studio (of IBM Watson Explorer Deep Analytics Edition)

Similarly, there are instances where the use of elements of a program are expressly prohibited when deployed in support of a Principal Program – see an example below.

#### Prohibited Components

Licensee is not authorized to use any of the following components or functions of the Program:

IBM Security Directory Server Proxy server (of IBM Security Directory Server)

Whitepages Application (of IBM Security Directory Server)

IBM Connections Profiles (of IBM Security Directory Server)

pureScale clustering technology (of IBM Db2 Standard Edition)

In the event a Supporting or Bundled Program is deployed and components or features are used outside the permitted components, or one of the prohibited components is used, the Program (or those features or components where separate licenses for these exist) will be separately licensable. This is the case even if the use of those features is still in support of the Principal Program.

## Install Location

Unless the LI document explicitly says you must install the bundled or supporting programs on the same machine, you can split installations across multiple machines. This may be beneficial for performance purposes.

Programs installed on the same machine are easier to identify as Supporting or Bundled, as the relationship between the programs is more evident. Programs installed on separate machines are more difficult to track.

Pay close attention to the LI document if installing components across multiple machines. In some cases, you may need to license all the machines where the components are installed, regardless of whether they are only hosting supporting or bundled programs. This is discussed in more detail below.

## *Supporting or Bundled Program installations may increase your license requirement for the Principal Program*

The LI document may require you to “*obtain sufficient entitlements to the Program, as a whole, to cover [your] installation and use of all the Supporting [or Bundled] Programs, unless separate entitlements are provided*”.

This means that you must have enough entitlements to the Principal Program to cover both the deployment of the Principal Program **and** any additional machines that Bundled or Supporting Programs are installed upon.

The LI document typically provides an illustration of this:

*Licensee must obtain sufficient entitlements to the Program, as a whole, to cover Licensee's installation and use of all of the Supporting Programs, unless separate entitlements are provided within this License Information document. For example, if this Program were licensed on a PVU (Processor Value Unit) basis and Licensee were to install the Principal Program or a Supporting Program on a 100 PVU machine (physical or virtual) and another Supporting Program on a second 100 PVU machine, Licensee would be required to obtain 200 PVU entitlements to the Program.*

If the LI document provides entitlement to the Bundled or Supporting Programs, you must ensure that you do not exceed those entitlements. How these entitlements are presented differs, although it is common for them to be calculated on a ratio basis:

*“Additional Entitlement Ratio n/m” means that Licensee receives some number ('n') entitlements of the indicated metric for the identified program for every specified number ('m') entitlements of the specified metric for the Program as a whole. The specified ratio does not apply to any entitlements for the Program that are not of the required metric type. The number of entitlements for the identified program is rounded up to a multiple of 'n'. For example, if a Program includes 100 PVUs for an identified program for every 500 PVUs obtained of the Principal Program and Licensee acquires 1,200 PVUs of the Program, Licensee may install the identified program and have processor cores available to or managed by it of up to 300 PVUs. Those PVUs would not need to be counted as part of the total PVU requirement for Licensee's installation of the Program on account of the installation of the identified program (although those PVUs might need to be counted for other reasons, such as the processor cores being made available to other components of the Program, as well).*

If the LI document is silent on whether installations on separate machines increases the license requirement to the Principal Program, these installations do not require additional licenses so long as the installations are within any limits or restrictions specified in the LI document.

## Technical Limitations

The LI document may specify restrictions on the technical specifications of the server on which the Bundled or Supporting Program is installed. If these restrictions are exceeded then the installation requires a full license.

### Supporting Program Details

#### *IBM Db2 Standard Edition*

- *Entitlement: No Metric*
- *Use Limitations: Use by Principal Program*
- *The Supporting Program may use a maximum of 16 processor cores and 128 GB of memory on each physical or virtual server; however, if the Supporting Program is used on a cluster of servers configured to work together using either database partitioning or other permitted clustering technology, the Supporting Program may use a maximum of 16 processor cores and 128 GB of memory across all virtual or physical servers in that cluster.*

## Permitted Environments

The LI document may specify the environment(s) that the Bundled or Supporting Programs can be used within. For example, the license for the Principal Program may only permit Bundled or Supporting Programs to be used in a non-production environment; any use in a production environment would require a separate license.

*“Non-Production” means that the Supporting Program can only be deployed as part of Licensee’s internal development and test environment for internal non-production activities, including but not limited to testing, performance tuning, fault diagnosis, internal benchmarking, staging, quality assurance activity and/or developing internally used additions or extensions to the Program using published application programming interfaces. Licensee is not authorized to use any part of the Supporting Program for any other purposes without acquiring the appropriate production entitlements.*

## Situations where Bundled or Supporting status is particularly important

<b>During an IBM Audit</b>	<p>The Bundled and Supporting Programs will be identified through SAM tool outputs or software scans. They will present as though they are licensable installations, and it is your responsibility to inform the auditor that they are Bundled or Supporting instances, and to demonstrate that they are only used in support of the Principal Program.</p> <p>Failure to identify Bundled or Supporting Programs or being unable to provide evidence that they are not used for other purposes may result in you purchasing licenses, or renewing S&amp;S, for more licenses than necessary.</p>
<b>Business as Usual Use</b>	<p>It is important that these Bundled and Supporting Programs are ringfenced from other, fully licensed copies of the same IBM Programs to prevent their use for any purpose other than supporting their Principal Program.</p>
<b>ILMT or HCL BigFix Inventory Configuration</b>	<p>ILMT and HCL BigFix Inventory also cannot consistently distinguish between a Bundled or Supporting Program and a fully licensable copy.</p> <p>By default, installations are reported as licensable. Where ILMT or HCL BigFix Inventory has attempted to assign a Supporting or Bundled Program status, this needs to be validated as the Principal Program can be incorrectly assigned.</p> <p>If you want to reflect these as non-licensable you must manually exclude installations of Bundled and Supporting Programs, providing a reason within ILMT or BigFix Inventory, so that they are removed from the license count. Future reports will reflect these adjustments; they do not need to be repeated unless your installations change between reports.</p> <p>See Scenarios below for more important details regarding ILMT.</p>

## *IBM Software Embedded in Third-Party Solutions*

It is common for IBM software to be embedded in third-party solutions to provide functionality or capability. This is sometimes referred to as “OEM” software.

OEM software is licensed from IBM by a third-party and by the client from the third-party. As with Bundled or Supporting Programs, OEM software comes with restrictions for its use and may only be used in support of the third-party solution and not for any other purpose. IBM requires that the details of the license be included with the solution; the restrictions should be made available to you by the third-party.

This is another example where installations of IBM software may be found that do not require a license so long as restrictions relating to their use are adhered to.

# Checklist

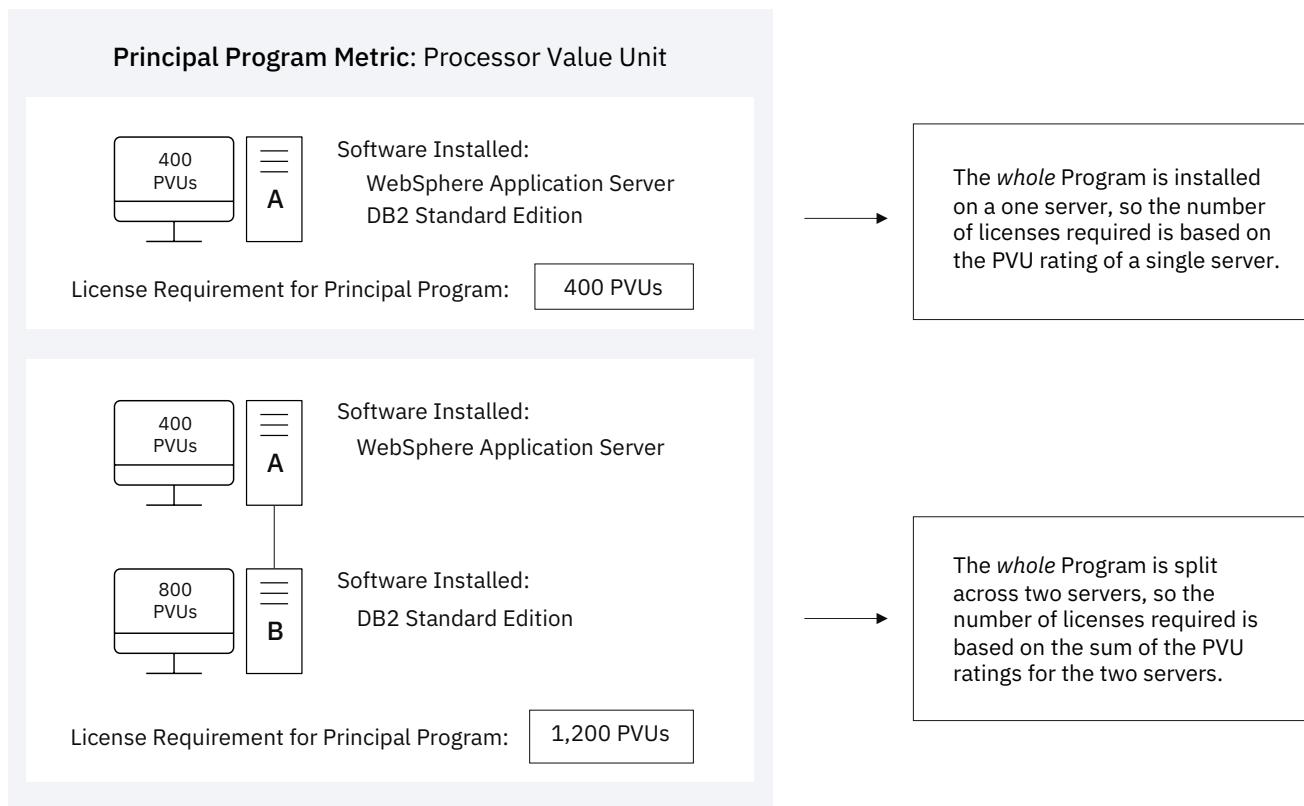
The list below summarizes the key considerations relating to Bundled or Supporting Programs to help you understand, track and manage your installations of IBM software.

Step	✓
1. Have a documented process for the deployment of Bundled and Supporting Programs, ideally including architecture diagrams showing the relationship between Principal Programs and Bundled or Supporting Program instances.	
2. Carefully read and understand the specific License Information Document for the version and edition of the Principal Program to understand the conditions for deploying Bundled or Supporting Programs, taking into consideration that the terms vary from Program to Program	
3. Maintain an up-to-date record of Bundled or Supporting Program instances, either manually or as part of an asset management solution.	
4. Where practical, consider using naming conventions that indicate the relationships between a Principal Program and its Bundled or Supporting Programs.	
5. Where possible, record the licensable status of Bundled or Supporting Program instances in Software Asset Management (SAM) tools.	
6. If IBM License Metric Tool (ILMT) is deployed in your estate, ensure you configure, and regularly update, the rules to exclude Bundled or Supporting Program instances.	

# Scenarios

## *Scenario 1: Installation location: Same server versus different server*

Where specified in the LI document, installation of Bundled or Supporting Programs on separate machines increases the number of licenses required for the Principal Program.

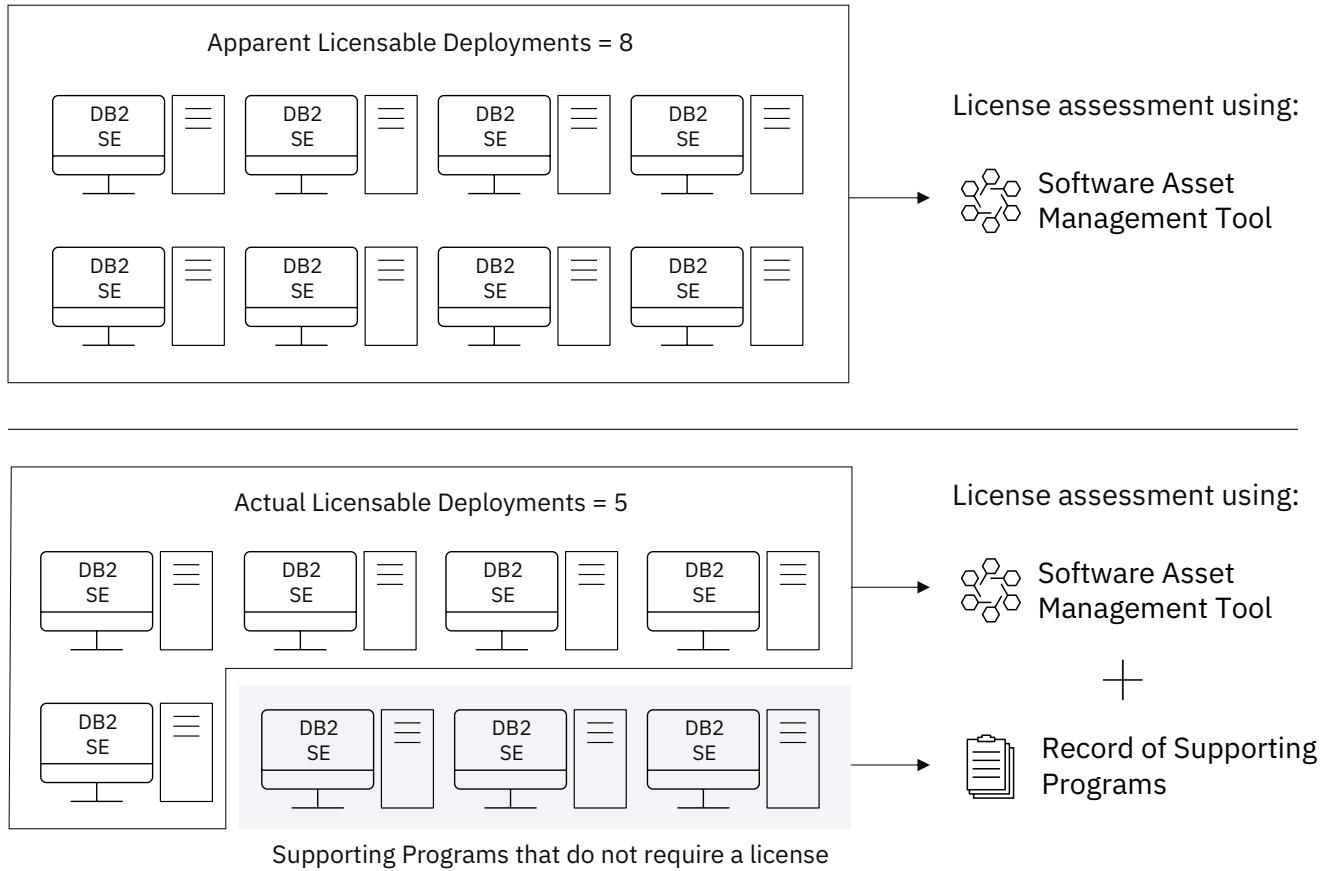


The diagram above illustrates that by installing DB2 on another machine the license requirement for WebSphere Application Server increases from 400 PVUs to 1,200 PVUs.

## *Scenario 2: Mixing Bundled or Supporting and Fully Licensed Programs*

Programs commonly used as Bundled or Supporting Programs are often already deployed as primary programs elsewhere in clients' estates for which clients will have their own separate entitlements. Without clear separation it can be easy to lose track of which installations are fully licensed and which are subject to use restrictions.

**Scenario:** A mixed deployment of DB2 installations, some as standalone and some as Supporting Programs



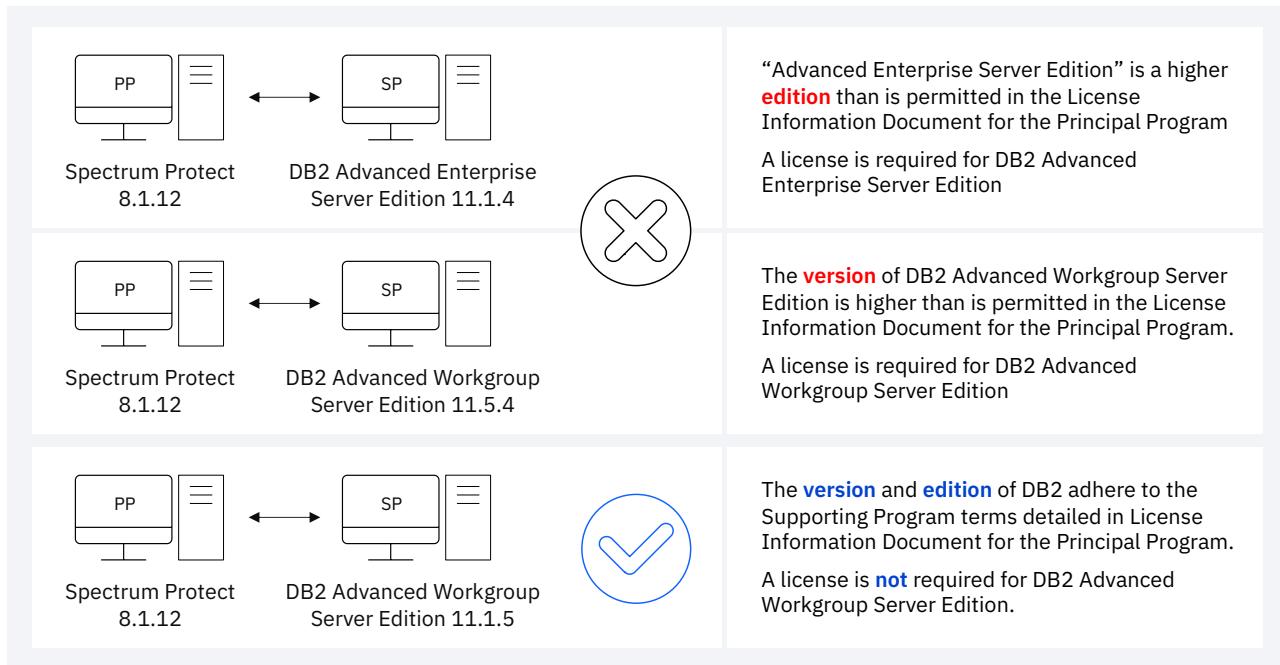
Without a good understanding of the nature and use of installations, it might be assumed that all installations require a license. Knowing that three of the installations are Supporting Programs and ensuring that their use is solely in support of their Principal Program(s), helps avoid buying licenses that are not required.

### Scenario 3: Supporting or Bundled Programs Edition and Version Violations

The LI document sometimes specifies the version or edition of the Bundled or Supporting Program. If you install a version or edition that is not specified, these installations require separate licenses.

Principal Program (“PP”): IBM Spectrum Protect 8.1.12

Supporting Program (“SP”): DB2 Advanced Workgroup Server Edition v11.1.x



### *Scenario 4: Reflecting Bundled and Supporting Programs in IBM License Metric Tool*

IBM License Metric Tool (ILMT) discovers components, not IBM programs. ILMT will display the list of discovered components. How you treat Bundled or Supporting Programs within ILMT depends upon:

1. Whether you have installed the program(s) across multiple environments or a single environment; and
2. Whether the relevant LI document specifies that you must obtain sufficient entitlements to cover your installation and use of the Program as a whole.

The table below sets out the various possibilities:

<b>Your Bundled or Supporting Programs are installed on the same environment</b>	You should assign each discovered Bundled or Supporting program as the Principal Program. As multiple components are installed on the same environment ILMT will automatically cap the number of licenses required at the capacity of the environment.
<b>Your Bundled or Supporting Programs are installed across multiple environments</b>	<p>If the LI document specifies that you must “<i>obtain sufficient entitlements to the Program, as a whole, to cover [your] installation and use of all the Supporting [or Bundled] Programs</i>”:</p> <ul style="list-style-type: none"> <li>– You must assign each component as the Principal Program. For example, setting DB2 (the Supporting Program) to be recognized as WebSphere Application Server Network Deployment (the Principal Program).</li> <li>– This will allow ILMT to aggregate the license requirement for all the discovered Bundled or Supporting Programs so that your audit report reflects your entire installation and use.</li> <li>– You must not mark any of the discovered Bundled or Supporting Programs as non-licensable. Doing so will cause ILMT to report fewer licenses than you require and may cause license compliance findings to arise in a subsequent license verification activity.</li> <li>– If you have separate entitlements to any of the Supporting or Bundled Programs, then you may assign components to use these entitlements if assigning them to the Principal Program would cause you to have insufficient licenses to the Principal Program.</li> </ul> <p>If the LI document does not specify that you must obtain sufficient entitlements to the Program, as a whole, to cover your installation and use of all the Supporting or Bundled Programs, then you should exclude these discovered components as non-licensable and add a narrative to explain that they are a Bundled or Supporting Program of the Principal Program (identifying the Principal Program).</p>

## *Scenario 5: Reflecting Bundled and Supporting Programs in IBM License Service*

Unlike with ILMT, IBM License Service does not require you to perform any software classification because it makes use of Kubernetes Annotations to identify which Pods belong to which IBM programs. These annotations (which are conceptually similar to the software tags used by ILMT) identify a program as being either standalone or as part of a solution such as a Cloud Pak. They also allow IBM License Service to apply the relevant licensing rules per the Container Licensing policy and to identify the appropriate metric and license ratios (in the case of Cloud Paks).

The Kubernetes Annotations are applied to Pods automatically via the provided IBM Operators for the related IBM programs. In the case of IBM Certified Containers used in a custom application or deployment, the appropriate annotations are provided by IBM in the program documentation. These must be carefully reflected in your deployment.

Examples of what the Kubernetes Annotations for two products might look like is below:

<b>IBM WebSphere Application Server Liberty Core (PVU) - standalone install</b>	productID: "87f3487c22f34742a799164f3f3ffa78" productName: "IBM WebSphere Application Server Liberty Core" productMetric: "PROCESSOR_VALUE_UNIT" productChargedContainers: "All"
<b>IBM WebSphere Application Server Liberty Core licensed as part of an IBM Cloud Pak</b>	cloudpakName: "IBM WebSphere Hybrid Edition" cloudpakId: "6358611af04743f99f42dadcd6e39d52" productCloudpakRatio: "8:1" productID: "87f3487c22f34742a799164f3f3ffa78" productName: "IBM WebSphere Application Server Liberty Core" productMetric: "VIRTUAL_PROCESSOR_CORE" productChargedContainers: "All"

The “productChargedContainers” annotation is relied upon by IBM License Service to identify containers which should, or should not, be licensed. The possible values for this annotation are:

<b>All</b>	All container images included in the Pod require a license
<b>None</b>	None of the container images in the Pod require a license. If a Bundled or Supporting Program comprises an entire Pod, this would be the simplest way to discount the entire Pod from the license requirement.
<b>[A list of container names]</b>	Only the containers in the Pod which correspond to the provided list require a license. If components of Supporting Programs that are used by the Principal Program reside in a Pod but do not represent all the containers in the Pod, those which are part of the Supporting Program can be identified and excluded from the license requirement using this approach.

You must still ensure that you do not use the Bundled or Supporting Program containers and Pods for any purpose which is not permitted per the relevant License Information document.

### *Scenario 6: Spectrum Protect and DB2*

IBM Spectrum Protect includes IBM DB2 Enterprise Server Edition (“DB2”) as a Supporting Program. However, DB2 is only included to support the functioning of the Spectrum Protect Managing Server, not every endpoint. Use of the DB2 installation in support of any other nodes managed by the Managing Server will require additional licenses for DB2.

In addition, there are restrictions on the features that can be used in the supporting installation of DB2; for example, [version 7.1.8.11](#) only permits you to use the Storage Optimization Feature free of charge when used as a Supporting Program. Use of other DB2 features would require separate licenses for those features.

# FAQs

## Do I have to install the Bundled or Supporting Program on the same server as the principal program?

No, unless specifically included as a requirement in the License Information Document for the Principal Program. However, there may be licensing implications associated with deploying Bundled or Supporting Programs on different servers and clients should refer to the specific License Information Document for the Principal Program for full details.

## Can existing instances of Bundled or Supporting Program be used for other purposes to save me installing another instance of the same product?

No. Unless the License Information Document for the Principal Program expressly permits “Unrestricted Use” of the supporting program, any supporting programs must be used only in conjunction with the Principal Program.

## Can I deploy any edition of a Program listed as a Bundled or Supporting Program in the License Information Document?

No. You must deploy the edition specified in the License Information document for it to be considered a Bundled or Supporting Program.

## Can I deploy any version of a program listed as a Bundled or Supporting Program in the License Information Document?

No. You can only deploy the version of the Bundled or Supporting Program specified in the License Information Document.

## Is there a way to identify Supporting / Bundled Program instances in my IT estate?

Supporting / Bundled Program instances are indistinguishable from licensable instances of the software. They do not display any attributes that define them as supporting instances. Each instance must therefore be identified and documented based on a review of the IT architecture.

# Further Reading

## **LI Document Repository**

*A searchable repository of License Information documents*

<http://www-40.ibm.com/software/sla/sladb.nsf/sla/home?OpenDocument>

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