Component Registration FAQs

vmware®

Table of Contents

1 What is component registration?

Component registration is a process to validate the component metadata meets VMware certification and vLCM (vSphere Lifecycle Manager) requirements. It is required to ensure the following conditions are met:

Serial Number	Validation Scenarios	Is Applicable?	
		IOVP	Other Programs
1	Component and VIB name(s) are not the same.	YES	YES
2	Component name is unique (except where a corresponding inbox component exists).	YES	YES
3	Component name or VIB name does not exceed 35 characters.	YES	YES
4	Async component name is the same as its corresponding inbox component (where a corresponding inbox component exists).	YES	NO
5	Async component version includes the **1OEM** string.	YES	NO
6	VIB(s) version contains the **1OEM** string.	YES	NO
7	Async component VIB(s) versions are in the recommended range.	YES	NO
8	Async component can have additional or fewer VIB(s) to that of its corresponding inbox component (where a corresponding inbox component exists).	YES	NO
9	VIB(s) are not present in multiple components.	YES	YES
10	VCG listing option is valid.	YES	YES
11	Component and VIB(s) names are alpha-numeric.	YES	YES

1.1 Component Guidelines - Rules and Recommendations

The following tables describe the set of rules and recommendations that must be considered for component registration.

Serial Number	Rules
1	Any inbox VIB (with same or different version) can only be part of one inbox component. Similarly, any async VIB (with same or different version) can only be part of one async component.
2	Inbox VIBs cannot be part of async component and async VIBs cannot be part of inbox component.
3	You can add or remove VIBs from a component, if the added VIB is not part of any other component.

Serial Number	Rules
4	Like VIBs, the component full version and component short version numbers must include 'OEM' for async, and 'vmw' for inbox to uniquely identify the component async and the component inbox. Ensure that 'OEM' is present in **Async <componentVersionSpec uiString="shortComponentVersion" version="fullComponentVersion">** entries in the SCons (*.sc*) file, in *metadata/bulletin/*.xml* and *metadata/vmware.xml*. For example: *componentVersionSpec uiString="1.0.0.0-1OEM" version="1.0.0.0-1OEM.700.1.0.15525992*
5	You must not reuse the same component name when there is a complete replacement of VIB contents.
6	The component name must be finalized before releasing it. Once the component is released, the name cannot be changed for the life of that vSphere release. For example: If the finalized component name is **ComponentName** and is released with vSphere 7.0 GA, that name must be the same for all subsequent 7.0 releases – 7.0U1, 7.0U2, 7.0U3, and all the 7.0 patch releases.

7	The inbox and async component names must match for the counterpart components for the following two cases ('a' and 'b'). For the third case ('c'), it is recommended to have the same component name (preferably a common generic name). Any exceptions for the third case ('c') must undergo the next level review and approval from VMware.
	a) Inbox/Async single-VIB components with same functionality driver VIB.
	b) Inbox/Async multi-VIB components with same set of functionality driver VIBs and additional relevant VIBs for these drivers (example: driver plugins, tools) in Async.
	c) Inbox/Async multi-VIB components with:
	    i) Common set of functional driver VIBs.
	    ii) Additional functionality driver/VIBs in Async.
	    iii) Additional relevant VIBs (e.g. driver plugins, tools) in Async.
	
	Component examples for the preceding categories are as follows:
	a) Broadcom-lsi-mr3; Intel-i40en; Broadcom-ELX-lpfc; Cisco-nenic; MRVL-E3-Ethernet; MRVL-QLogic-FC; Solarflare-NIC.
	b) Broadcom-bnxt-Net-RoCE; Mellanox-nmlx4; Mellanox-nmlx5; MRVL-E3-Ethernet-iSCSI-FCoE.
	c) MRVL-E4-CAN-Driver-Bundle (drivers/VIBs in inbox component: qedentv, qedrntv; drivers/VIBs in async component: qedentv, qedrntv, qedf, qedi).

Serial Number	Recommendations
1	The component bulletin ID in XML includes the component name and full component version in the following format: **<id>componentName_fullcomponentVersion</id>** This ID is auto-generated by dev-kits (Use 7.0 RC3 refresh dev-kits). For multi-VIB components, as the creation procedure involves manual steps, edit the component *metadata/bulletin/*.xml* and *metadata/vmware.xml* files as: **<id>** entry must be in the **<id>componentName_fullcomponentVersion</id>** format. Example: For componentName=VendorB-net-storage-drivers, fullcomponentVersion=1.0.0.0-1OEM.700.1.0.15525992 ID must be <id>VendorB-net-storage-drivers_1.0.0.0-1OEM.700.1.0.15525992</id>
2	The *componentName_fullcomponentVersion* must reflect in the driver component offline bundle name/ZIP filename. Example: For componentName=VendorA-driverX, fullComponentVersion=1.0.0.0-1OEM.700.1.0.15525992 file name recommendation is VendorA-driverX_1.0.0.0-1OEM.700.1.0.15525992.zip
3	It is recommended that the component name contains the vendor name or vendor ID, and the driver name or driver category or common generic name represents the component group.
4	Partners are encouraged to use a generic name for the multi-VIB components (or single-VIB components becoming multi-VIB component later), where: a) There is a driver/VIB content delta between inbox and async components. b) If there is a potential addition of extra functionality drivers/VIBs later.

2   Why is component registration required?

Component registration is required for the following reasons:

- Registering the component with VMware is mandatory, as the registration records the component name and its version, VIB(s) name and its versions, including the artifacts selected during the registration process.
- Component registration ensures that the same component goes through the certification process and is signed.
- If there is any change in the component metadata after the component is registered, signing of the component will be rejected.

3 Unregister a component?

To unregister a component, you must raise a DCPN case with VMware, and share the component file and details.