



Third-Party NFV Ecosystem VNF Submission

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Document Control

This is version 1.1 published Dec 2017. Address any questions to nfv-ecosystem@cisco.com

1 Overview

1.1 Introduction

This document describes the procedure to submit a VNF to Cisco for certification as part of the third-party NFV program described here: cs.co/3nfv. Also provided is a checklist of items/activities that should be completed as part of the submission.

To make a submission, simply follow this document step-by-step. Each step is summarized in the checklist below for your convenience, with an expanded explanation for each forming the body of this document. Note your ability to complete a step may be predicated on an earlier step – order is important.

1.2 Checklist / Summary

Task	Complete
Review program description and associated material here: cs.co/3nfv	
Establish contact with Cisco's NFV program team via nfv-ecosystem@cisco.com	
Agree to legal terms and conditions	
Pre-Test your VNF before submission	
Complete technical onboarding questionnaire	
Upload image(s) and documentation pack to Cisco	
Test stage	
Post-Test	

2.1 First two steps

Having reviewed the program material at cs.co/3nfv, it's likely you will have questions. You can establish contact with our team by simply emailing nfv-ecosystem@cisco.com We will then setup a meeting to resolve your queries and discuss current timelines for onboarding.

2.2 Legal Terms and Conditions

The legal T&Cs reflect the content described on our website in a formal way. To accept the terms and conditions, please download the legal document from here. Review, sign, and return by email to nfv-ecosystem@cisco.com.

2.3 Pre-Test prior to submission

Ideally, we want your VNF to pass testing quickly and easily. Please ensure you have reviewed and complied with the packaging requirements as specified for the environment you wish to test with, defined here: developer.cisco.com/site/nfv/#nfvis-csp-2100-vnf-spec

You are expected pre-test your VNF against our test plan (see resources section, cs.co/3nfv). You may need Cisco software to achieve this. You can obtain software by requesting it via nfv-ecosystem@cisco.com. It will be made available via Cisco's software download tool. To use this tool, you will need a Cisco 'CCO ID'. If you do not already have one, you can create one by following this link – create CCO ID it takes just a moment. Note: Select account type 'Guest'. We will, in any case, ask for your CCO ID during our initial conversation.

2.4 On boarding Questionnaire

Please provide the information requested below for **each** VNF submitted. Please associate each answer with the paragraph number below, for ease of reading.

2.4.1 General Info

Please provide:

- Product Name
- Software version to be tested
- Brief description of functionality

2.4.2 Typical Use Case

Briefly describe the use case or the network service in which this VNF will be deployed.

2.4.3 Licensing

Describe how licensing works, with specific detail on how the VNF will be licensed for testing purposes.

- If access to an external license server is needed, specify IP address(es) and port numbers needed.
- If the license is bound to UUID, or MAC address, or similar, please specify.

2.4.4 Management Access

Provide details as to how the VNF is to be managed.

- Does it have a dedicated management interface?
- Does the Management Interface support DHCP?
- Protocols supported for management access, i.e. SSH, telnet, HTTP, HTTPS?
- Is there shell access?
- Default credentials?

Does the VNF require a specific [element] management platform?

If yes, please supply details.

2.4.5 Initial Configuration

How does the VNF support:

- Day 0 config
- Day 1 config

2.4.6 Initial Resource Requirement

Please describe:

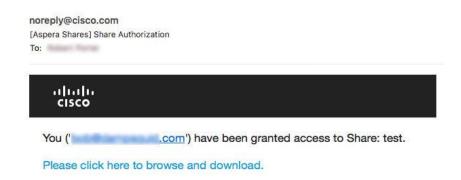
- Number of vCPU required?
- Memory required?
- Disk space requirements?
- IO Requirements
 - Number of interfaces
 - o Type (pass-through, SR-IOV, e100, etc.)
- Any particular network requirements
 - o i.e. access to the Internet

2.5 Upload Submission to Cisco

Your documentation and images should be sent to Cisco via our secure file sharing facility, the URL is shares.cisco.com. Use of this facility requires a CCO ID. If you do not already

have one, you can create one by following this link – <u>create CCO ID</u> it takes just a moment. **Note**: Select account type 'Guest'.

Following step 2.1 we will have created a shared folder private to yourselves and Cisco for this purpose. The file share system will send an automated email once this is provisioned:



If you do not have this mail, ping us. The file share system will ask to install a plugin. Installing it is **optional** but recommended. It enables high-speed transfer of large files without TCP constraints. Without it, the system will revert to standard SSL.

Please submit the following information:

- VNF image(s).
 - o NOTE: If this is your first submission, we require the to-be-tested version and an appropriate earlier release to facilitate upgrade/downgrade testing.
- Any management platform image(s) needed
- Any license information needed: activation keys, activation files, etc.
- A completed copy of the onboarding questionnaire found in this document (i.e. answers to the questions posed in section 2.4)
- Documentation, which *might* include, (for example):
 - Quick start type guide
 - Configuration Guide
 - o Management Guide
 - o API Guide
 - Command Guide
- Support Information
 - For the purposes of testing, we need a technical contact our engineers can communicate with. Please note our engineers may be on US PST, EST or IST.
 - Post-test, as part of the program requirements, we require a contact for the
 purposes of coordinating support as may be needed by our customers. Please
 provide that information, or a contact our support people can work with to put
 this in place. We expect this information to include both contact details and
 escalation procedures.

- Billing Information If this upload requires a test fee be paid, please include pertinent billing info such as:
 - o A contact name and 'phone number
 - o Address (postal or email)
 - o Any reference such as PO# our invoice should include.
- A basic readme.txt file listing each filename submitted and its purpose/content.

2.6 Testing

Following submission, we will communicate the expected test timeline. We will also keep you up to date as testing proceeds. Should any issue arise, we'll contact your nominated support representative to resolve.

2.7 Post-Test

We will of course tell you when testing is complete! We will also work to quickly add your VNF details to both external customer facing collateral, and Cisco field collateral. As part of this we will need the URL you would like your logo to be hyperlinked to.

Thereafter, let's stay in touch. Should you revise your VNF in a significant way, it may be appropriate to re-test to ensure continued compatibility. You need to request this.

Should Cisco revise our underlying infrastructure in a way that necessitates re-test, we will let you know, and perform that re-test.

Twelve months after completion of the initial testing, your VNF will require a re-test to ensure continued compatibility. We will contact you to see if you wish to remain part of the program, and to update any information requested herein as may be needed.

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Please direct any queries relating to this document, or the third-party ecosystem, to nfv-ecosystem@cisco.com