

Scale out VMware VNF Using VNF-LCM

Call Session Control Function

OPERATING INSTRUCTIONS

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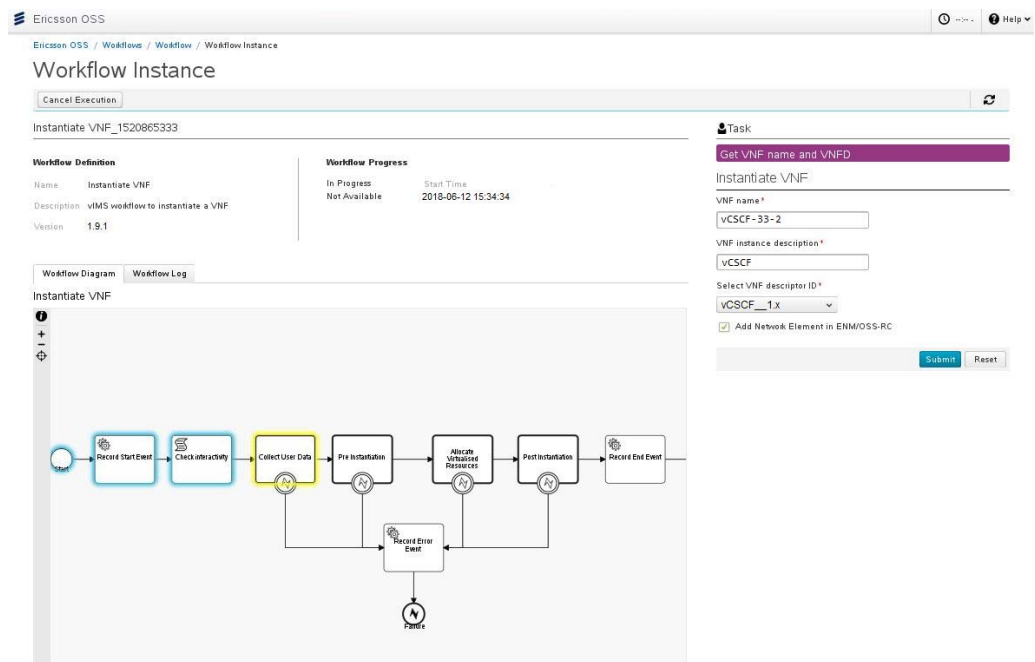


1 Description

This instruction describes how to scale out a Virtual Network Function (VNF) in the Virtual Network Function Life Cycle Management (VNF-LCM).

The Call Session Control Function (CSCF) workflow software package contains more files than are described in this instruction. These unmentioned files are only used in special deployment scenarios that are outside the scope of this instruction. Only use the files that are explicitly mentioned in the instruction.

The VNF-LCM procedures use workflow instances. The following figure shows an example of a workflow instance, where workflow progress can be tracked in the **Workflow Diagram** view. The boxes in the **Workflow Diagram** only represent the stages of the various procedures; operations are performed in the **Task** view.





2 Procedure

2.1 Scale out a VNF

Prerequisites

— The following virtual and physical hardware and software are required:

- The VNF is instantiated using the VNF-LCM.
- VNF-LCM is available using either Operations Support System for Radio and Core (OSS-RC) or Ericsson Network Manager (ENM).
- The VIM is configured in VNF-LCM:

The VIM configuration in VNF-LCM can be checked with the `vnflcm vim list` command. For more information on VIM configuration, see VNF Lifecycle Manager System Administrator Guide, 1543-APR 901 0578 Uen.

— This instruction references the following documents:

- CSCF Troubleshooting Guideline
- VNF Lifecycle Manager System Administrator Guide, 1543-APR 901 0578 Uen

— No tools are required.

— The following condition must apply:

- The VNF-LCM is available using either the Operations Support System for Radio and Core (OSS-RC) or the Ericsson Network Manager (ENM).

Steps

1. In the VNF-LCM **Workflows** view, select **Scale VNF**, and then click **Start a New Instance**.

Ericsson OSS / Workflows			
VNF LifeCycle Management			
Workflows 5 Table Settings			
Name	Instances with User Tasks	Active Instances	Description
Heal VNF			vIMS workflow to heal a VNF instance
Instantiate VNF			vIMS workflow to instantiate a VNF
NR-Upgrade VNF			vIMS workflow to upgrade a VNF with a redundant network
Scale VNF			vIMS workflow to scale a VNF instance
Terminate VNF			vIMS workflow to terminate a VNF instance

2. In the **Start a Workflow** view, fill out the **Instance Name** field, and then click **Submit**.



3. Select the newly created workflow from the **Instance Activity** panel.
4. In the **Workflow Instance** view, select **Scale Out** for scaling type, select the VNF to be scaled out, specify the number of Virtual Machines (VMs) to be added to the VNF, and then click **Submit**.

The VNF instance is scaled out, new VMs are added to the cluster.

Task

Collect user data for Scale

Scale VNF instance

Scale Data

Select VNF instance*

vCSCF__1.8.0

Select scaling type*

Scale Out

Number of VMs to scale*

1

Submit

Reset



Attention!

Risk of system malfunction or traffic disturbance.

During the scaling, the optional user input **Cancel LCM Hook** is available. Do not click **Submit**. This is not supported in the current release.



Task

OPTIONAL: Override User Input

OPTIONAL: Cancel LCM hook

This user form is a possibility to gracefully or forcefully cancel LCM hook in case of unexpectedly long execution time, faulty initial inputs or other cases. It is not mandatory, and the execution may complete without it being submitted. To keep track of progress, please use the refresh button occasionally.

Select cancellation method:

Gracefully cancel executi... ▼

Submit

Reset

2.2 Troubleshooting

If the workflow execution fails, inspect the relevant logs to identify the cause of the failure.

Steps

1. Increase the log level from INFO to DEBUG. For information on how to change log level, see VNF Lifecycle Manager System Administrator Guide, 1543-APR 901 0578.
2. Inspect the following logs to identify the cause of the failure:
 - Jboss Server log: /ericsson/3pp/jboss/standalone/log/server.log
 - System log: /var/log/messages
 - Workflow log: the **Workflow Log** view in the VNF-LCM
3. If the **Workflow Log** view reports Authentication failed, repair the Secure Shell (SSH) key between the VNF-LCM and the CSCF. For more information, see Section Check SSH Key for Authentication in CSCF Troubleshooting Guideline.
4. If a problem cannot be solved, consult the next level of maintenance support and provide the logs. Further actions are outside the scope of this instruction.