

Scale Out VNF

MTAS

OPERATING INSTRUCTIONS

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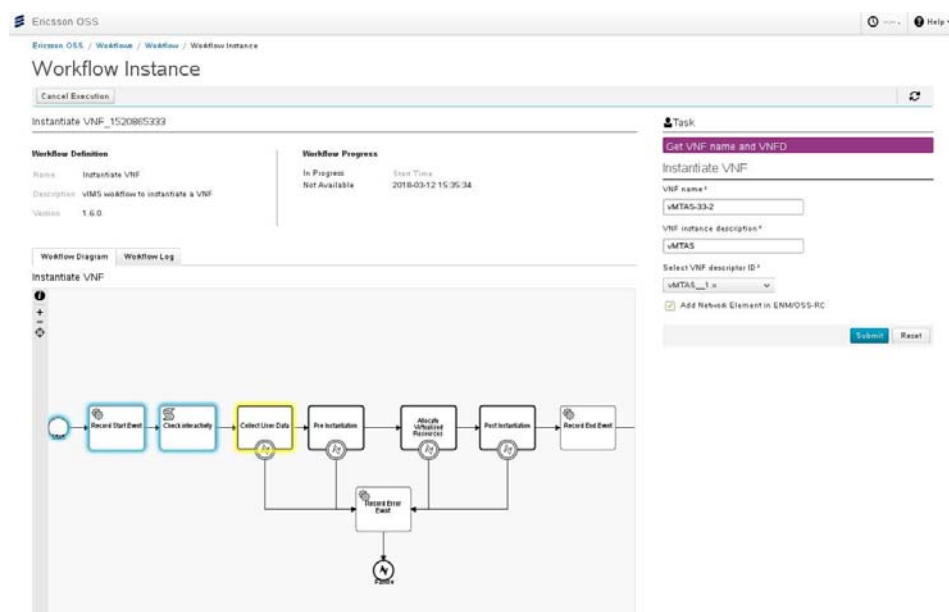




1 Description

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

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.



For more information about the VNF-LCM, see MTAS VNF Lifecycle Management.

2 Procedure

2.1 Scale Out a VNF

Prerequisites

- No documents are required.
- No tools are required.
- The following conditions must apply:

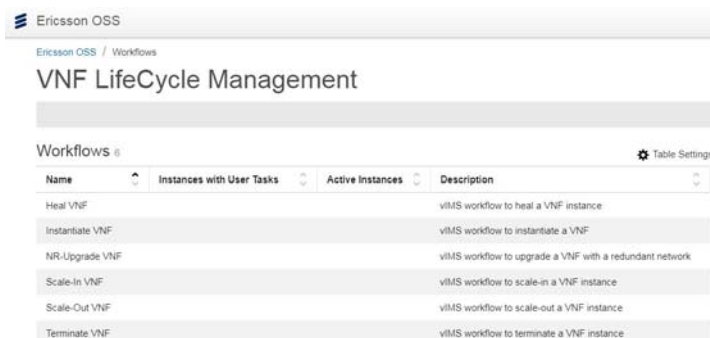


- The VNF is instantiated using the VNF-LCM.
- VNF-LCM is available using either Operations Support System for Radio and Core (OSS-RC) or Ericsson Network Manager (ENM).
- One of the following Virtual Infrastructure Managers (VIMs) is used:
 - OpenStack Mitaka or newer
 - CEE R6 or newer
- The VIM is 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.

Steps

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



The screenshot shows the Ericsson OSS VNF LifeCycle Management interface. It features a table of workflows with columns for Name, Instances with User Tasks, Active Instances, and Description. The workflows listed are: Heal VNF, Instantiate VNF, NR-Upgrade VNF, Scale-In VNF, Scale-Out VNF, and Terminate VNF.

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-In VNF			vims workflow to scale-in a VNF instance
Scale-Out VNF			vims workflow to scale-out 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 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 PLs are added to the cluster.

Note: If the EO and the VNF-LCM are in a mutually granting connection, the number of scaled PLs appears in the EO after a successful scale-out from the VNF-LCM.



Task

Collect user data for Scale-Out

Scale-Out VNF instance

Scale-Out Data

Select VNF instance ^{*}

vMTAS-33-2

Number of additional VMs ^{*}

1

Submit Reset

5. Do a SmallRestart:

- a. Start the ECLI (for example on SC-1):

SC-1: ~>**cliss**

- b. Do the SmallRestart command:

```
>ManagedElement=1,MtasFunction=MtasFunction,\
mtasFunctionSmallRestart
```

- c. Exit from the ECLI:

```
>exit
```



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 Administration 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 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.