

Terminate VNF Using VNF-LCM

MTAS

OPERATING INSTRUCTIONS

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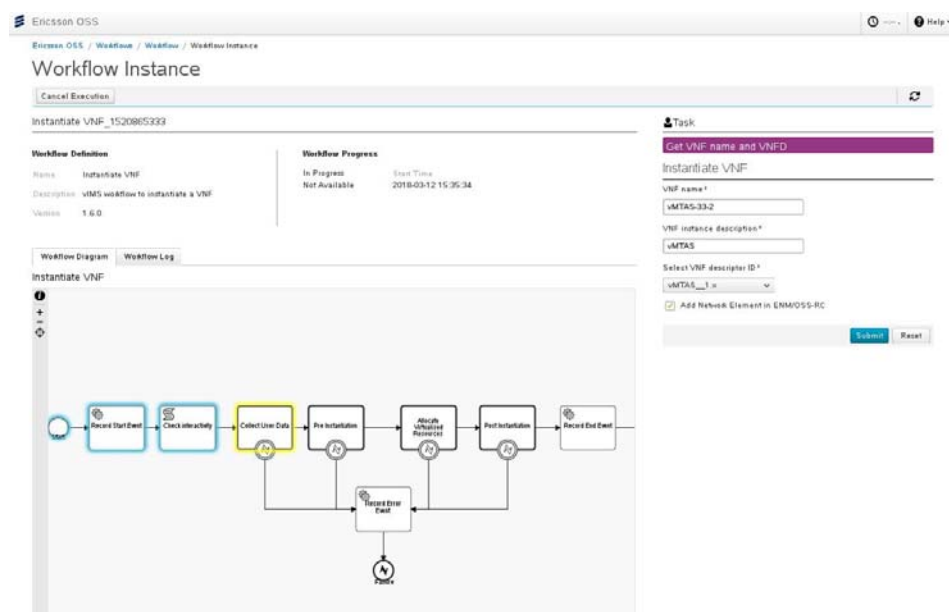




1 Description

This instruction describes how to terminate a Virtualized Network Function (VNF) in the VNF Lifecycle 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 Terminate a VNF

Prerequisites

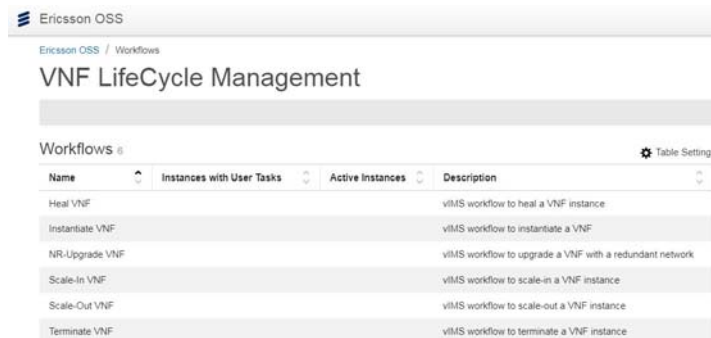
- No documents are required.
- No tools are required.
- The following condition must apply:



- The VNF is instantiated using the VNF-LCM or the EO.

Steps

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



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, click **Submit**.
3. Select the newly created workflow from the **Instance Activity** panel.
4. In the **Workflow Instance** view, select the VNF to terminate.
5. Select the termination type (**Graceful** or **Forceful**).

Termination options:

Graceful The VNF instance is gracefully locked (by setting the `mtasFunctionAdministrativeState` attribute to `SHUTTING DOWN(2)`), it gradually stops processing traffic. The VNF is terminated after the expiration of the graceful termination period, or even earlier, when all ongoing sessions have stopped on the node.

Forceful The VNF terminates immediately. All ongoing traffic is lost. This option must be confirmed on the next screen, as it stops all traffic.

Graceful termination timeout (sec)

Defines after how many seconds the VNF terminates when graceful termination has been applied. Traffic is still ongoing until the VNF terminates. Defaults to -1, which means that no graceful termination period exists, that is, the VNF terminates only after all VMs stopped processing traffic.

6. Is the **Graceful** termination type selected?

Yes: Continue with the next step.



No: Proceed with Step 8.

7. Specify the **Graceful termination timeout (sec)**.
8. Click **Submit**.

The VNF instance terminates. For graceful termination, the VNF instance stops processing traffic gracefully and then terminates.

Note: If the EO and the VNF-LCM are in a mutually granting connection, the terminated instance disappears from the EO after a successful termination from the VNF-LCM if the instantiation was made from the EO.

The screenshot shows a web form titled 'Task' with a sub-header 'Collect user data for Terminate'. The main heading is 'Terminate VNF instance'. Under 'Termination Data', there is a dropdown menu for 'Select VNF instance' with 'vMTAS-33-2' selected. Below that, 'Termination type:' has a 'Graceful' button selected. A text input field for 'Graceful termination timeout (sec)' contains '-1'. At the bottom right are 'Submit' and 'Reset' buttons.



Attention!

Risk of system malfunction or traffic disturbance.

During the termination, 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.