

# Instantiate VNF Using VNF-LCM

MTAS

OPERATING INSTRUCTIONS

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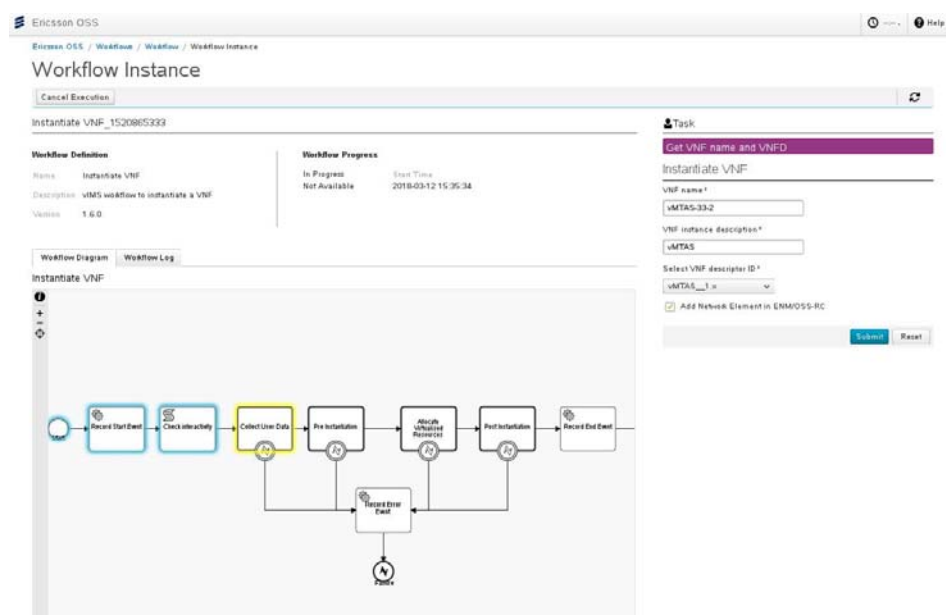




# 1 Description

This instruction describes how to instantiate 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 Instantiate a VNF

#### Prerequisites

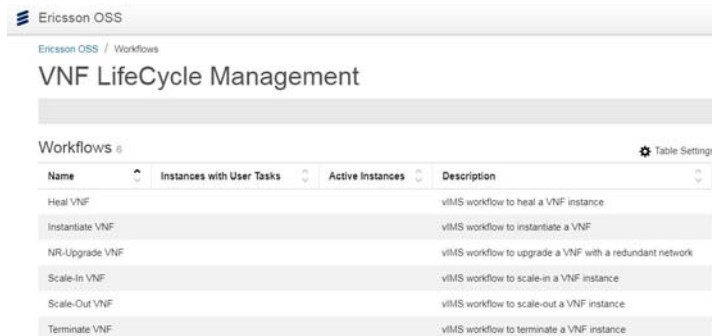
- No tools are required.
- The following condition must apply:



- The Onboard procedure is completed. For more information, see [Onboard VNF Package on VNF-LCM](#).

## Steps

1. In the VNF-LCM **Workflows** view, select **Instantiate VNF** and then 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 then click **Submit**.
3. Select the newly created workflow from the **Instance Activity** panel.
4. In the **Workflow Instance** view:
  - a. Add **VNF name**.
  - b. Add **VNF instance description**.
  - c. Select the VNF to instantiate.
  - d. (Optional) Select the **Add Network Element in ENM/OSS-RC** check box to add the new VNF in the network management application.
  - e. Click **Submit**.



Task

---

Get VNF name and VNFD

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### Instantiate VNF

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VNF name\*

VNF instance description\*

Select VNF descriptor ID\*

☒ Add Network Element in ENMWOSS-RC

**Note:** The **VNF name** is also used as the Heat stack name. It is not recommended to add version information in this field, as the name is unchanged after VNF upgrades.

The **Select VNF descriptor Id** drop-down list displays VNF releases available for VNF instantiation in the /vnflcm-ext/backups/workflows/vnfd/ directory.

5. In the **Select VIM** view, select the VIM to be used and then click **Submit**.

Task

---

Select VIM

---

Select VIM:

6. In the **Select Tenant** view, select the tenant to be used and then click **Submit**.



Task

---

Select Tenant

Select Tenant

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Submit Reset

The following step is optional. If none of these parameters are needed, leave the fields blank.

7. In the **Get Instance Configuration** view, choose **Select Configuration for the VNF instance\***, and click **Submit**.

Task

---

Get Instance Configuration Data

Get Instance Configuration

Select Configuration for the VNF instance \*

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Submit Reset

**Note:** The **Select Configuration for the VNF instance** field displays VNF configurations available for instantiation in the `/vnflcm-ext/current/vnf_package_repo/<VNF package>/configurations` folder.

The following step is optional. It is only required if the **Add Network Element in ENM/OSS-RC** check box was selected in Step 4.

8. Set the VNF-related parameters for ENM and then click **Submit**.

The VNF is instantiated, it starts handling traffic after all configuration data is provided.



**Note:**

- If the instantiation fails, remove the VNF instance using the Terminate VNF workflow (FORCEFUL), see [Terminate VNF Using VNF-LCM](#). If the VNF instance cannot be selected in the Terminate VNF workflow, then the VNF instance must be deleted manually from the Cloud environment.
- If the EO and the VNF-LCM are in a mutually granting connection, the new instance appears in the EO after a successful instantiation from the VNF-LCM.

Task

Get OSS/ ENM parameters

Enter the parameters required by OSS/ENM

VNF username \*

VNF password \*

Network element type in OSS/ENM \*

Network element version supported by OSS/ENM \*

Node IP address \*

SNMP port used \*

Netconf port used \*

The Src type of network element \*

The associated site. \*


**Note:** To check the supported VNF version in ENM and OSS-RC, see ENM and OSS-RC documentation respectively.



## Attention!

Risk of system malfunction or traffic disturbance.

During the instantiation, 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... ▼

## 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.