

# Flexible Engine User Guide

## **Direct Connect through Business VPN Galerie**

The present document will guide you through the steps to implement the Flexible Engine Direct Connect option through Orange Business VPN Galerie. It also documents the change management processes that you may need during the lifecycle of your service.

Its usage is restricted to Flexible Engine customers.

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**Orange Cloud for Business**

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# 1 Pre-requisites

## 1.1 pre-requisites

To implement the Flexible Engine Direct Connect option through Business VPN Galerie, you must have the following:

- a subscription to Orange Business VPN
- a subscription to Flexible Engine (with an access to the console)

If not, please contact our sales support or Service Desk for assistance.

## 1.2 initial connectivity set-up

In this paragraph, we will guide you step by step to establish the first connectivity between your Business VPN and your Flexible Engine domain. It is basically composed of two parts:

part 1: subscribe to Business VPN Galerie for Flexible Engine

part 2: submit the Flexible Engine form to declare your VPC and subnets

## 1.3 lifecycle management

In this paragraph, you will find the processes to request for a change (eg. addition/removal of a VPC, change the bandwidth) and to terminate the service.

## 1.4 assistance

Should you face any difficulties in the implementation of the service or in its maintenance, do not hesitate to contact our Flexible Engine Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>).

## 2 initial connectivity set-up

### 2.1 Subscribe to Business VPN Galerie

Your Business VPN owner should contact Orange Business Services to subscribe to Business VPN Galerie for Flexible Engine.

Orange Business (your network provider) will ask for the below information:

**cloud service:** Flexible Engine

**region:** the region where the connectivity should be established

**bandwidth:** bandwidth of the connection with Flexible Engine

Upon reception of the order, Orange Business will extend the reach of your Orange Business VPN to Flexible engine and will inform our cloud operations with all necessary technical details.

You will also receive a notification from Orange Business when your order has been processed.

*note: Orange Business VPN Galerie can be ordered through your Orange Business sales contact or through your Orange Business web portal <https://espaceclient.orange-business.com> (for customers based in France only).*

### 2.2 Submit your Flexible Engine Direct Connect form

Once your subscription to Business VPN Galerie with Flexible Engine is processed, you can start connecting your VPC and subnets.

For the initial configuration (the first VPC and subnet), please submit the form described hereafter.

*note: if you want to connect several VPC, please submit one form per VPC: use the below form for the initial VPC, then submit one change per additional VPC as described in paragraph '3 – Lifecycle management'.*

To set-up the initial VPC configuration, please fill-in the below form with your configuration and send it back to our Service Desk (<mailto:z3.servicedesk@orange.com>) by email.

Flexible Engine Direct Connect – Connection through Business VPN Galerie (version 5.4)	
request type	initial VPC configuration
connection name	name of the connection
Business VPN owner	(optional) name of the company which owns the Orange Business VPN (in case it is different from your company)
Business VPN service reference	(optional) the service reference of your Orange Business VPN that appears on your invoice
Region	Region where the connectivity is requested: France, Singapore, Atlanta, Amsterdam
domain name	your Flexible Engine domain name (format: OCB0009999)
domain ID	your Flexible Engine domain ID (format: 548d609d1df000e780abfc38000a0332)
VPC ID	ID of the VPC to be connected (format: 18086997-e37b-4c8e-88b8-4c8b577dc5c0)
local subnet(s)	the CIDR block(s) of the Flexible Engine subnets to be connected (eg. 192.168.0.0/16) If you have several subnets, use a comma separator (eg. 192.168.1.0/24, 192.168.2.0/24)
remote subnet(s)	Recommended default values are: 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16 (RFC1918).
local test ECS	Private IP address of the local test ECS Public IP address of the local test ECS
Local test ECS Id	Local test ECS Id (format: 8047e5ab-dee1-411d-a3d9-99a999a92240)
remote test machine	Private IP of a remote machine in one of the remote subnets
primary contact	technical contact for our operations if needed: name, email, phone number
secondary contact	(optional) alternate technical contact for our operations if needed: name, email, phone number

unless otherwise stated, all fields are mandatory

#### Notes about:

- **connection name:** Give a name to your Direct Connect connection. It will be used later as the identifier of your connection to process change requests.
- **remote subnet(s):** OCB will configure static routes in Flexible Engine to route packet with a destination private address included in one of those remote subnet(s) to your Business VPN Galerie connection. Only those subnets will be reachable from your Flexible Engine VPC. **If your addressing plan is compliant with the RFC 1918 (private IP addresses), we do recommend to configure 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16 (RFC1918) as default remote routes.** If your Flexible Engine VPC need to reach public IP subnets though your Business

VPN Galerie connection, please specify those IP subnets in that field or 0.0.0.0/0 as the default route

- **remote subnet(s): 100 routes maximum allowed.**
- **local test ECS, remote test machine:** OCB/OBS operations will perform an ICMP test with those test private IP to verify the configuration.
- **primary contact, secondary contact:** if our test fails at the end of the configuration, we might need to contact you to check the data and identify the root cause of the failure

Important notes:

- Before submitting your request, please make sure the Security Group which is protecting your test ECS enables the ICMP traffic between the local test ECS and the remote machine. Otherwise, our operations will not be able to test the connectivity.

Example:

The screenshot shows the Orange Business Services Network Console interface. The left sidebar contains a 'Network Console' menu with options: Dashboard, Virtual Private Cloud, Security Group (highlighted), Network ACL, Elastic IP, VPC Peering, VPN, and NAT Gateway. The main content area displays the configuration for a Security Group named 'sg-ping'. The ID is '77954012-48e8-4c5b-9f0dbd'. The description is 'Security Group to allow ping'. Below this, there are tabs for 'Rules' and 'Servers', with 'Rules' selected. It shows 'Add Rule' and 'Fast-Add Rule' buttons, and counts of 'Outbound Rules: 1' and 'Inbound Rules: 1'. A table lists the rules:

Transfer...	Type	Protocol	Port Ran...	Remote End	Description	Operation
Outbound	IPv4	Any	Any	Any ?		Clone...
Inbound	IPv4	Any	Any	0.0.0.0/0 ?		Clone...

The footer of the console shows 'English' on the left and '©Orange Business Services 2018 | Legal Notice | Privacy Statement' on the right.

- Our BGP peer will accept up to 100 routes from your network connection (maximum number of routes that you can advertise towards Flexible Engine)

## 3 Lifecycle management

### 3.1 Addition or removal of a VPC

To add a VPC to your Direct Connect connection, please submit the below form to our Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>):

Flexible Engine Direct Connect – Connection through Business VPN Galerie (version 5.4)	
request type	Addition of a VPC
connection name	the name of the Direct Connect connection to be modified
domain name	your Flexible Engine domain name (format: OCB0009999)
domain ID	your Flexible Engine domain ID (format: 548d609d1df000e780abfc38000a0332)
VPC ID	ID of the VPC to be connected (format: 18086997-e37b-4c8e-88b8-4c8b577dc5c0)
local subnet(s)	the CIDR block(s) of the Flexible Engine subnets to be connected (eg. 192.168.0.0/16) If you have several subnets, use a comma separator (eg. 192.168.1.0/24, 192.168.2.0/24)
remote subnet(s)	Recommended default values are: 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16 (RFC1918).
primary contact	technical contact for our operations if needed: name, email, phone number
secondary contact	(optional) alternate technical contact for our operations if needed: name, email, phone number

To remove a VPC from your Direct Connect connection, please submit the below form to our Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>):

Flexible Engine Direct Connect – Connection through Business VPN Galerie (version 5.4)	
request type	Removal of a VPC
connection name	the name of the Direct Connect connection to be modified
domain name	your Flexible Engine domain name (format: OCB0009999)
domain ID	your Flexible Engine domain ID (format: 548d609d1df000e780abfc38000a0332)
VPC ID	ID of the VPC to be disconnected (format: 18086997-e37b-4c8e-88b8-4c8b577dc5c0)
primary contact	technical contact for our operations if needed: name, email, phone number
secondary contact	(optional) alternate technical contact for our operations if needed: name, email, phone number

## 3.2 Change of local subnets

To add or delete local subnet(s) for VPC, please submit the below form to our Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>):

Flexible Engine Direct Connect – Connection through Business VPN Galerie (version 5.4)	
request type	Addition of subnet(s)
connection name	the name of the Direct Connect connection to be modified
domain name	your Flexible Engine domain name (format: OCB0009999)
domain ID	your Flexible Engine domain ID (format: 548d609d1df000e780abfc38000a0332)
VPC ID	ID of the VPC the subnet belongs to (format: 18086997-e37b-4c8e-88b8-4c8b577dc5c0)
local subnet(s) to be added	the CIDR block(s) of the Flexible Engine subnets to be connected (eg. 192.168.0.0/16) If you have several subnets, use a comma separator (eg. 192.168.1.0/24, 192.168.2.0/24)
primary contact	technical contact for our operations if needed: name, email, phone number
secondary contact	(optional) alternate technical contact for our operations if needed: name, email, phone number

To remove subnet(s) from your Direct Connect connection, please submit the below form to our Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>):

Flexible Engine Direct Connect – Connection through Business VPN Galerie (version 5.4)	
request type	Removal of subnet(s)
connection name	the name of the Direct Connect connection to be modified
domain name	your Flexible Engine domain name (format: OCB0009999)
domain ID	your Flexible Engine domain ID (format: 548d609d1df000e780abfc38000a0332)
VPC ID	ID of the VPC the subnet belongs to (format: 18086997-e37b-4c8e-88b8-4c8b577dc5c0)
local subnet(s) to be removed	the CIDR block(s) of the Flexible Engine subnets to be disconnected (eg. 192.168.0.0/16) If you have several subnets, use a comma separator (eg. 192.168.1.0/24, 192.168.2.0/24)
remote subnet(s)	Recommended default values are: 10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16 (RFC1918).
primary contact	technical contact for our operations if needed: name, email, phone number
secondary contact	(optional) alternate technical contact for our operations if needed: name, email, phone number



### 3.3 Modification of the bandwidth

Flexible Engine automatically applies the same bandwidth as Orange Business VPN Galerie to your connection.

If you want to change the bandwidth of your connection, you should contact Orange Business to perform the change on your Business VPN Galerie to Flexible Engine.

Your Flexible Engine environment will apply the same bandwidth automatically.

If the required bandwidth is not standard, please contact our Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>) and our technical support will help you to find the most suitable solution for you.

### 3.4 Termination of the Direct Connect

To terminate a Direct Connect connection, please send us a termination form to our Service Desk (<mailto:obs-cloud-z3.servicedesk@orange.com>) as follows:

Flexible Engine Direct Connect – Connection through Business VPN Galerie (version 5.4)	
request type	termination request
connection name	name of the connection to be terminated
domain name	your Flexible Engine domain name (format: OCB0009999)
domain ID	your Flexible Engine domain ID (format: 548d609d1df000e780abfc38000a0332)

Upon reception of your request, our operations will contact you back to confirm the termination and will process the cessation.