

OpenEdge Command Center

Date: May 2025



You will be familiar with the basic and flagship product for monitoring systems – OpenEdge Management (OEM) and its smaller version OpenEdge Explorer (OEE).

This product was first introduced many years ago under the name Fathom Management in version V9. It is still being developed and works very well in small and medium networks.

This time we would like to introduce a new product, **OpenEdge Command Center (OECC)**, which is used to manage multiple OpenEdge resources and installations on different computers and different OpenEdge versions.

The first version of OpenEdge Command Center was created with the aim of efficiently managing PASOE and, in the future, databases. The current version 1.0 supports **OE 12.2.5 and higher**. There is no backward support.

OECC is free for OE license holders, similar to OEE, and aims to simplify the overall management of the OpenEdge platform.

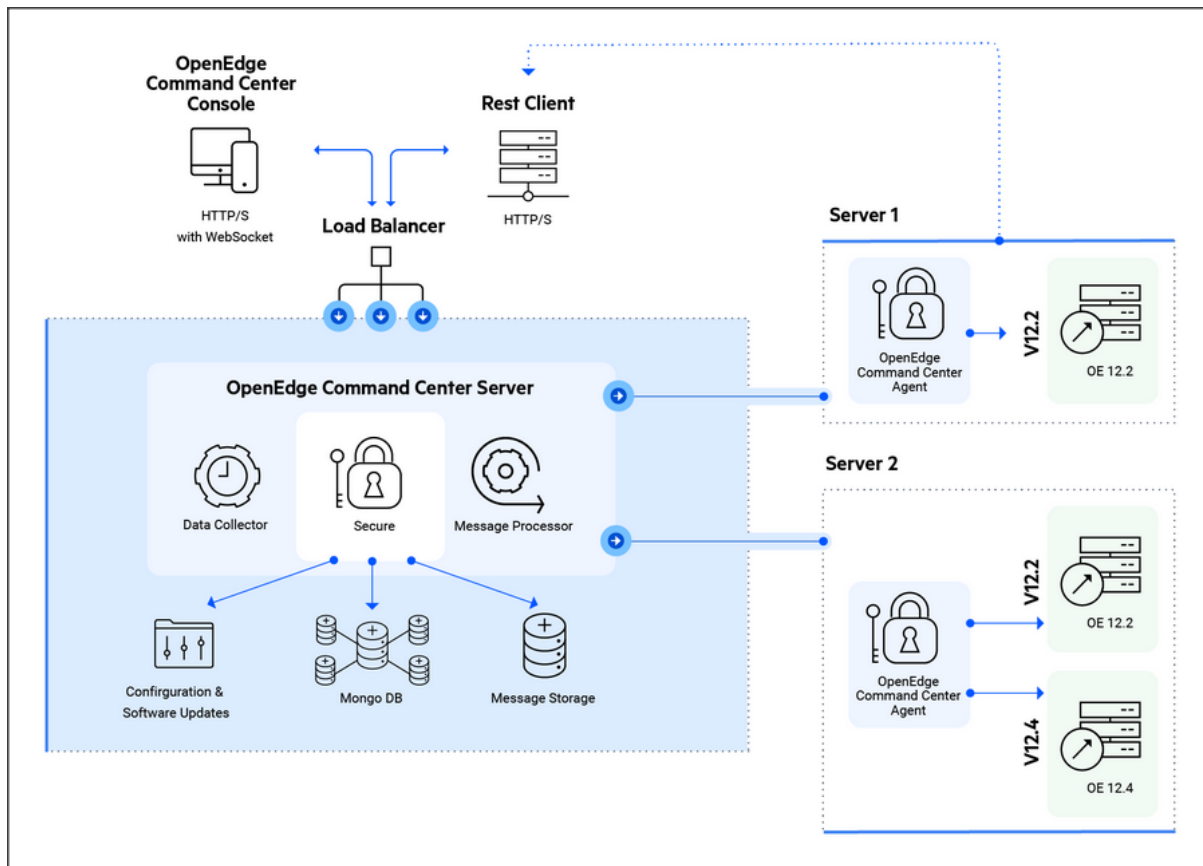
The OpenEdge Command Center server is supported on the following platforms:

- Ubuntu 18.04 LTS
- Oracle Linux 8
- Red Hat Enterprise Linux 8
- SUSE Linux Enterprise Server 15
- CentOS Linux 8
- Windows 64

You can also run OpenEdge Command Center Server on a 64-bit cloud-enabled Linux server that is configured with MongoDB ATLAS.

One of the goals of OECC is to replace the OEE product, due to some issues that were reported by users such as the outdated interface, the “heavy” remote AdminServer process requiring 4 ports to be open, and the fact that APIs must be exposed in the OpenAPI standard.

The OECC server can be deployed as a single node or, for high availability, as a multi-node cluster. To ensure high availability, the server works with all *load balancers* supporting HTTP/HTTPS transports and websocket protocols, such as Nginx, Apache HTTP Server, AWS, ELB/ALB, etc. OECC uses a **MongoDB** database and file storage to store data (see figure).



MongoDB is a non-relational database that stores data in the form of documents in a JSON-like format. It contains all the details about the detected OE components such as PASOE (in the future also OE databases) and OECC configuration settings. MongoDB installation is required before installing the OECC server, which supports the following versions (www.mongodb.com):

- MongoDB Community Server
- MongoDB Atlas running on AWS, Azure, and Google Cloud Platform (GCP)
- MongoDB Enterprise Edition

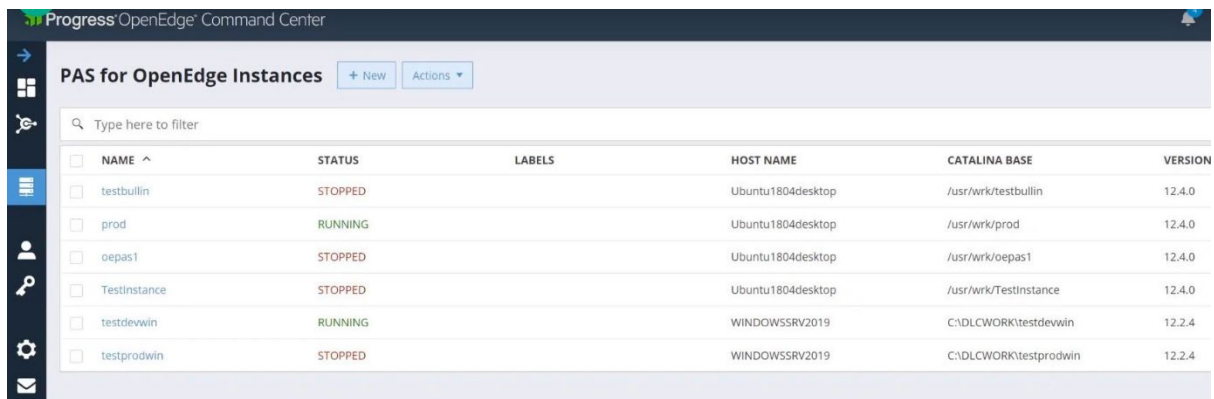
In addition to the database, some data is stored in a file repository. This includes information about the database connection, security and login configuration, etc.

The client must take care of installing MongoDB (as well as Java JDK) on their own.

To retrieve data from different environments, the OECC agent must be installed on each machine. This is a lightweight process that installs together with OE. Regardless of whether you have one or more OpenEdge installations on a machine, you will only need to install one agent (OE 12.2.5 and above).

The agent process runs autonomously; you just need to make sure it is started correctly. For a secure connection to the OECC server, you need to generate a unique key for each agent from the console.

The entire configuration and monitoring process is carried out from a console accessible from web browsers (HTTP/HTTPS). See the example below.



Progress OpenEdge Command Center

PAS for OpenEdge Instances [+ New](#) [Actions](#)

Type here to filter

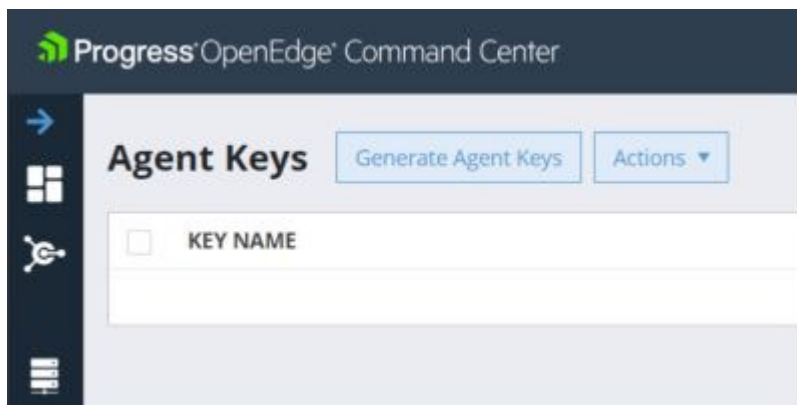
☐	NAME ^	STATUS	LABELS	HOST NAME	CATALINA BASE	VERSION
☐	testbullin	STOPPED		Ubuntu1804desktop	/usr/wrk/testbullin	12.4.0
☐	prod	RUNNING		Ubuntu1804desktop	/usr/wrk/prod	12.4.0
☐	oepas1	STOPPED		Ubuntu1804desktop	/usr/wrk/oepas1	12.4.0
☐	TestInstance	STOPPED		Ubuntu1804desktop	/usr/wrk/TestInstance	12.4.0
☐	testdevwin	RUNNING		WINDOWS5SRV2019	C:\DLCWORK\testdevwin	12.2.4
☐	testprodwin	STOPPED		WINDOWS5SRV2019	C:\DLCWORK\testprodwin	12.2.4

OpenEdge Command Center is a very interesting product that currently only monitors PASOE processes but is soon to be expanded to include database processes. It is worth installing and testing.

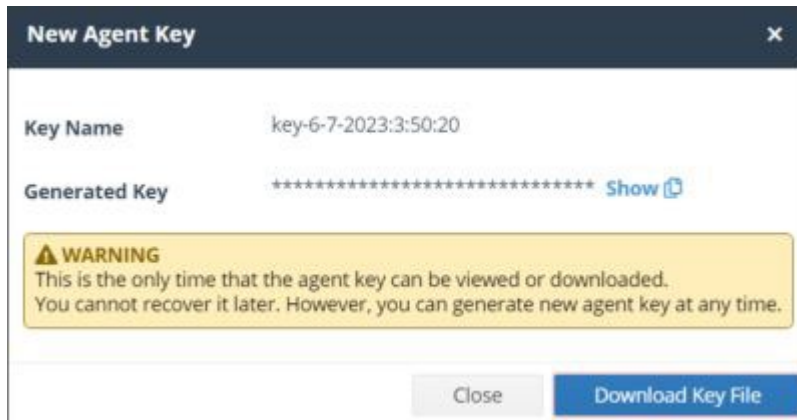
This product is enjoying increasing interest from customers due to its modern interface, high security, efficiency and ease of monitoring remote resources. These advantages are crucial compared to OEM/OEE, which is very convenient to use rather for local resources. It should be recalled that OECC technology starts from OE 12.2 – it is not possible to monitor earlier versions.

This time we will install an agent on a machine with the OpenEdge environment (PASOE, databases) installed, which will collect data and send it to the OECC Server.

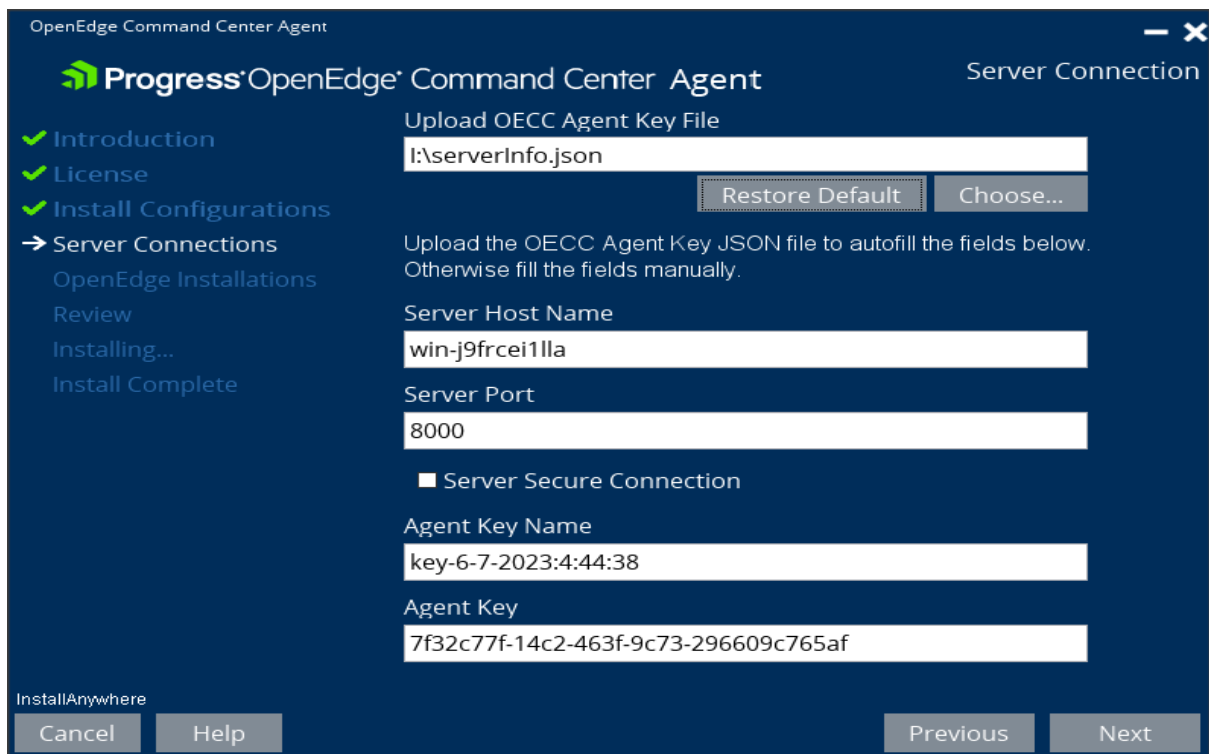
The first step is to generate a key on the server, which will be used to authenticate the connection to the agent. We select **Generate Agent Keys**.



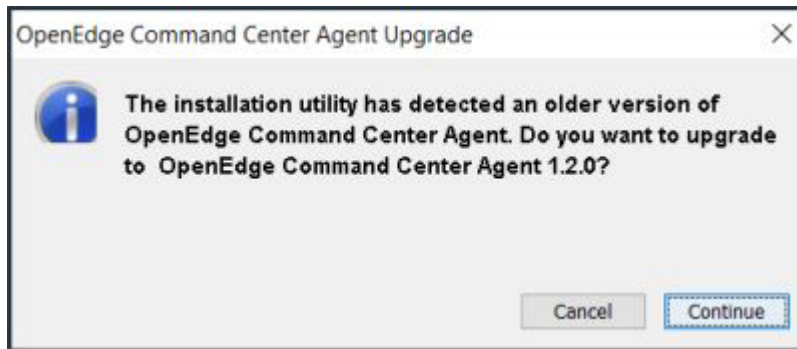
We save the generated new key to the disk. This is a file called **serverInfo.json**. It will be needed to install the agent (usually on another machine).



The installation itself is very simple. The only interesting step is when loading the data from the provided file, which will save us from manually entering the data.



If we install a newer version of the agent in place of the old one, the following message will appear (then there will be no need to provide data from the json file).



We have installed the agent and now we want to see if it is sending data to the monitoring center on the server. We still need to make sure that the port is open in the firewall (8000 by default), otherwise the data will be blocked. In my example, the OECC server was installed on a VM with Windows Server 2016, and the agent and OpenEdge 12 on Windows 10.

Clone PAS for OpenEdge Instance : mypasoe

WARNING
The cloned PAS for OpenEdge instance may not work as expected if the source PAS for OpenEdge instance refers to external files or folders.

Instance Name	mypasoeCLONE
Instance Size	8.65 MB
Labels	cloned_from_DELL-5520
OpenEdge Installation	Select upto 8 OpenEdge installations as clone destinations. DELL-5520 - 12.4.0 ☐ Overwrite if PAS for OpenEdge with same instance name exists at destination ☒ Start PAS for OpenEdge instance after it is cloned

From the OECC server console, we can select several actions for a given PASOE instance. The most interesting one is **Clone**, which is to create a copy of the instance in a new location. Let's

do it for **mypasoe**. New name (not very sophisticated) **mypasoeCLONE**.

Progress OpenEdge Command Center

PAS for OpenEdge Instances

[+ New](#) [Actions ▼](#)

🔍 Type here to filter

☐	NAME ^	STATUS	LABELS	HOST NAME
☒	mypasoe	RUNNING		DELL-5520
☐	oepas1	RUNNING		DELL-5520
☐	mypasoeCLONE	CLONING ●●	cloned_...	

Usually, you must wait a while for cloning, especially if the instance is online.

PAS for OpenEdge Instances

[+ New](#) [Actions ▼](#)

🔍 Type here to filter

☐	NAME ^	STATUS	LABELS	HOST NAME
☐	mypasoe	RUNNING		DELL-5520
☐	oepas1	RUNNING		DELL-5520
☐	mypasoeCLONE	STOPPED	cloned_...	DELL-5520

And after a while, we have a new clone. The instance is stopped and usually requires some

adjustment in the configuration to be fully operational.

The screenshot shows the 'PAS for OpenEdge Instances' page in the Progress OpenEdge Command Center. It features a search bar, a table with columns for NAME, STATUS, LABELS, and HOST NAME, and a sidebar with navigation icons.

NAME	STATUS	LABELS	HOST NAME
☒ mypasoe	RUNNING		DELL-5520
☐ oepas1	RUNNING		DELL-5520
☐ mypasoeCLONE	CLONING	cloned_...	

Some other interesting information for mypasoe includes, for example, information about implemented web applications, services, their parameters and current status.

The screenshot shows three panels in the Progress OpenEdge Command Center. The left panel shows 'ABL Applications' with a table of instances. The middle panel shows 'mypasoe' details, including 'Web Applications' and 'UNDEPLOY' buttons. The right panel shows 'CustProj' details, including 'Services' and 'UNDEPLOY' buttons.

NAME	PASOE INSTANCE
mypasoe v12.4.0 (2021-07-22)	● mypasoe
mypasoe	● mypasoeCLONE
oepas1 v12.4.0 (2021-07-22)	● oepas1

NAME	STATUS	Path
CustProj	●	/CustProj
Services Count	2	
URI	http://172.18.16.1:8813/CustProj	
Secure URI	https://172.18.16.1:8814/CustProj	
UNDEPLOY		
ROOT	●	/
Services Count	1	
URI	http://172.18.16.1:8813	
Secure URI	https://172.18.16.1:8814	
UNDEPLOY		

NAME	STATUS	Path
_oeepingService	●	/_oeepingService
URI	http://172.18.16.1:8813/CustProj/rest/_oeepingService	
Secure URI	https://172.18.16.1:8814/CustProj/rest/_oeepingService	
Service Version	v12.4.0 (2021-07-22)	
Service Descriptor	_oeepingService.paar	
Service Location	WEB-INF/adapters/rest/_oeepingService/_oeepingService.pa	
UNDEPLOY		
CustProjServ	●	/CustProjServ
URI	http://172.18.16.1:8813/CustProj/rest/CustProjServ	
Secure URI	https://172.18.16.1:8814/CustProj/rest/CustProjServ	

One element that has not yet been discussed, and which has been there since the first version of OECC – labels. The image below shows such labels that represent the machine name, instance mode and its name. Additionally, I have removed some columns, leaving the most important ones, from the point of view of readability. Labels are an important element,

especially when there are many instances and there are problems with identification.

PAS for OpenEdge Instances

+ New

Actions ▾

🔍 Type here to filter

☐	NAME	STATUS	LABELS	VERSION
☐	mypasoe	RUNNING	DELL DEV	12.4.0
☐	mypasoeCLONE	STOPPED	DELL DEV CLONE	12.4.0
☒	oepas1	STOPPED	DELL DEV CUSTO...	12.4.0
☐	testpasoe	STOPPED	DELL PROD TEST	12.4.0
☐	oepas1	RUNNING	ACER DEV	12.7.0

Add/Remove Columns

Status

Labels

Host Name

Catalina Base

Version

Security Model

☒

☒

☐

☐

☒

☒

Let's move on to installing the new version of OECC 1.3. We can find a description of the entire process in the documentation. However, as some important information is omitted, I recommend [the online documentation](#) instead of the pdf instructions.

The new version of OECC also requires a newer version of MongoDB: 4.4, 5.0, or 6.0. I installed version 6.0 on Windows Server 2019. This time I am not installing MongoDB as a Windows service.

After installing MongoDB when the database and OECC are installed on the same machine, you need to bind the IP address 0.0.0.0.

In the configuration file `...\conf\db-config.json`

I set the value:

```
"dbHostNameAndPort": "0.0.0.0:27017"
```

In addition, starting from MongoDB 6.x, in the file `...\bin\mongod.cfg` we set

I add a directory, e.g. `c:\mongodata` and start MongoDB as administrator with the command:

mongod.exe -dbpath c:\mongodata -bind_ip 0.0.0.0

(I do not close this window as long as the MongoDB process is to run).

I add a user to the admin database.

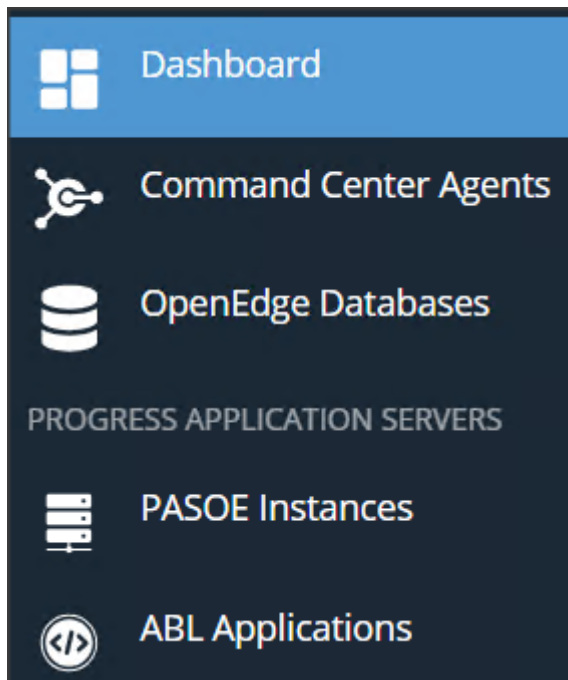
Now we restart MongoDB with authorization enabled:

mongod.exe -dbpath c:\mongodata -bind_ip 0.0.0.0 --auth

And we can proceed to install OECC 1.3, as described earlier.

After installing the OECC Agent on one or more systems, we can finally see what information is being passed to the console on the server.

We can see that a new icon has been added on the left, representing databases.



By clicking the icon, we have access to the following data:

- Database name.
- Labels assigned to the database.
- Full path to the database.
- OECC agent name.
- Database launch status.
- Port/service name.
- Database version.
- The name of the host on which the database is running.
- The OpenEdge installation where the database resides.

Similarly to PASOE, it is convenient to set labels identifying database instances.

OpenEdge Databases					
			+ Add New Connection	Actions ▾	
Type here to filter					
☐	NAME	LABELS ▾	VERSION	STATUS	PORT / S
☐	sports2000	DELL CUSTO...	12.4.0	RUNNING	10009
☐	sports2000		12.7.0	OFFLINE	10001
☐	fathom		12.7.0	OFFLINE	12345
☐	localdb	LOCAL TEST	12.7.0	RUNNING	10009

If the agent did not catch an instance, we must add it manually. In the **OpenEdge Installation** field, we select the OE version. We add the full path, port number/service name, and login data. We can also optionally add additional startup parameters.

New Database Connection

OpenEdge Installation *

DELL-5520 - 12.4.0

✕ ▾

Database Folder Path *

C:\WrkOpenEdge124\db\testdb.db

Database Name *

testdb

Labels

DELL ✕ TEST ✕

✕

Port / Service Name *

10009

User Id *

Password

Confirm Password

Other Parameters

As you can see, there is no detailed database performance data known from OE Management. Such data can be obtained using OpenTelemetry technology and an APM (*Application Performance Monitor*) type application.