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Executive summary

This document briefly summarizes the main information related to the software release of the final 5GEx prototype (P3) of the Multi-domain Orchestrator (MdO).

Moreover, the document provides the hardware/software requirements and the procedure for downloading the final 5GEx MdO P3 artefact.

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1 5GEx MdO P3 repositories of the components

This section refers to the software repositories of the components that are part of the final 5GEx MdO P3. The architecture of P3 in terms of the sub-components and their individual working are explained in D3.7 [1]. D3.7 [1] also explains how to run the Robot experiment in Section 5.

Before an open source release of the final 5GEx MdO P3, we would like to extensively debug and test it in the project sandbox. This is the reason why the final 5GEx MdO P3 software is stored in the project repository, with restricted access.

As soon as the final 5GEx MdO P3 will be considered stable enough, it will be released to the public. Some of the components are already released in the public github page of the project <https://github.com/5GExchange>.

Component name		Current license	Planned License	Current Repo	Public
TADS: netphony-topology		Apache v2.0	Apache v2.0	https://5gexgit.tmit.bme.hu/ogd/netphony-topology	No
TADS: netphony-network-protocols		Apache v2.0	Apache v2.0	https://5gexgit.tmit.bme.hu/ogd/netphony-network-protocols	No
Dashboard/ GUI	accounting	Apache v2.0	Apache v2.0	https://github.com/5GExchange/Marketplace	Yes
	Dashboard	EUPL	EUPL		
	Service-catalogue	Apache v2.0	Apache v2.0		
	Service-selection	Apache v2.0	Apache v2.0		
	SLA-core	Apache v2.0	Apache v2.0		
	Umaa	EUPL	EUPL		
	Vnfs	EUPL	EUPL		

VNF Store		Apache v2.0	Apache v2.0		
NFVO: SV2R Translator		Apache v2.0	Apache v2.0	https://5gexgit.tmit.bme.hu/unify/tnova_connector	No
NFVO: Resource orchestrator (RO)	ESCAPE	Apache v2.0	Apache v2.0	https://github.com/5GExchange/escape	Yes
	Mapping	Apache v2.0	Apache v2.0	https://github.com/5GExchange/mapping	Yes
	NFFG	Apache v2.0	Apache v2.0	https://github.com/5GExchange/nffg	Yes
	Virtualizer	Apache v2.0	Apache v2.0	https://github.com/5GExchange/virtualizer	Yes

Table 1. List of the components in 5GEx MdO P3.

2 The 5GEx MdO P3

2.1 Hardware requirements

The final 5GEx MdO P3 can be run in a virtual machine or in a physical host.

The suggested environment requires:

- **Ubuntu Server 16.04** (also other Linux distributions supported by Docker can be used)
- At least **2 GB of RAM**
- At least **16 GB of disk space**

2.2 Software requirements

The required software to be installed in the machine hosting the final 5GEx MdO P3 are:

- **Docker Engine version 1.13.1 or newer:** install it on the test machine following instructions at <https://docs.docker.com/engine/installation/>
- **Docker Compose version 1.11.1 or newer:** install it on the test machine following instructions at <https://docs.docker.com/compose/install/>

2.3 Download the MdO P3

The download of final 5GEx MdO P1 can be performed starting from the mdo project available on git-LAB. More specifically, by running the command:

```
git clone https://5gexgit.tmit.bme.hu/5gex/mdo
```

the files of the project will be downloaded.

An “mdo” folder will be created in the local machine, containing all the required files. More specifically:

- the docker-compose file
- the deployment script,
- the set of configuration files related to the reference experiment described in Section 5.1 of D3.7 [1] and
- the VNF descriptors required for the VNF onboarding at the bootstrap of the 5GEx MdO.

Before running the deployment of the MdO, specific configuration steps are required, as presented in the Section 5.1 of D3.7 [1] and in the repository’s README.

References

[1] 5GEx, "D3.7," [Online]. Available: <http://www.5gex.eu/>.