



A modular solution for mobile data storage

ENGIE Mobile Data Center

Powered by
 **legrand**[®]



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In today's digital economy the availability of digital systems is of paramount importance. A good infrastructure is the essential backbone for permanent availability. Data centers are fundamental for services like cloud, mobile apps and other digital applications.



More and more organizations are coming to the conclusion that digital facilities are crucial for their daily operations and reflect on issues like 'business continuity' and 'disaster recovery'. Existing (cloud-) datacenters offer data storage but in order to meet present needs for storage there is a growing demand for additional data center capacity on short notice. Companies show preference for modular solutions and will not accept any disturbances to their primary processes.

A complete mobile data center solution

In order to meet these demands ENGIE, in cooperation with Legrand, developed a completely integrated modular mobile data center: the 'ENGIE Mobile Data Center – powered by Legrand' (EMDC). In this prefab mobile data center cooling solutions by ENGIE Refrigeration are combined with energy-efficient data center solutions by Legrand for optimal

yield and continuous performance. This unique, flexible infrastructure solution for data storage is available for you when you are in need of extra capacity on short notice or if you want to keep privacy-sensitive information out of the cloud. The EMDC is a great (temporary) alternative for a traditional data center whenever you are in the process of renovating, expanding or modernizing your facilities.

Advantages of the ENGIE Mobile Data Center – powered by Legrand

- Sustainable technology, energy-efficiency and cost reduction
- Plug-and-play, all-in-one data center solution
- Movable and can be placed at the location that you prefer: the parking lot or even the roof
- In contrast to traditional construction this solution will not disturb your primary processes
- A temporary, permanent or back-up facility
- Fast delivery thanks to the standardization of the modules
- Easy to configure through our online web configurator



ICT-neutral overall concept

The EMDC is an ICT-neutral overall concept, designed for the industry sector, infrastructure- and utility market and covers the total process of design, realization, service and, if needed, logistical service provision.

Our mobile data center comes in two sizes (8m x 3m and 13m x 3m) with all necessary data center components integrated in this single enclosure.

Thanks to the prefabrication, lead time can be reduced by up to 40% as compared to traditional data centers. Reliability and availability of the EMDC are equal to those of a traditional data center or server room. ENGIE can of



course offer you more than just the delivery of your EMDC. We will be happy to perform all necessary (infrastructural) tasks like realizing the power supply or setting up communication links.

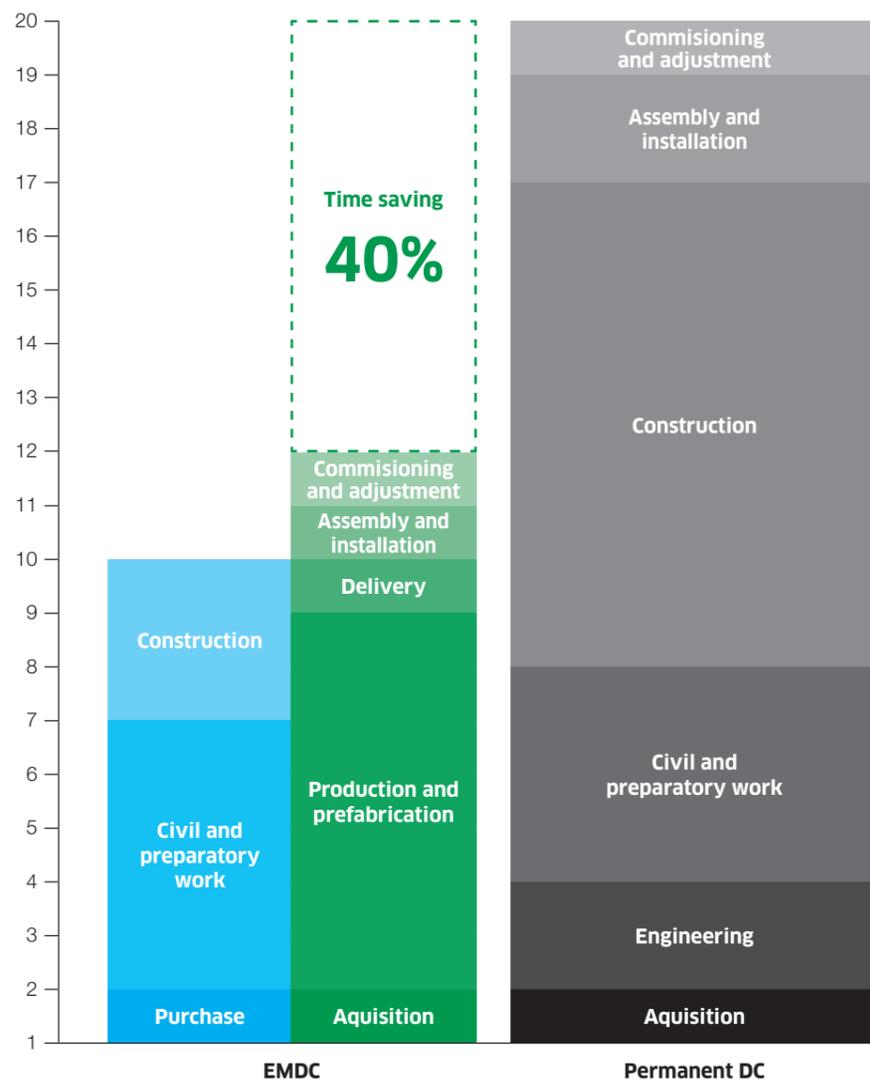
Modularity in size, capacity and redundancy

The most unique aspect of the ENGIE Mobile Data Center – powered by Legrand is the modularity of the solution in size, capacity and redundancy. You can configure your own data center based on predefined modules. Apart from the necessary components within the basic functionality of the data center, we also offer a number of options that will give you maximum convenience or will increase operational reliability, like fire suppression, CCTV or Performance Monitoring. You will find these and more building blocks on our website: www.engie-services.nl/emdc.

The integrated modular data center is an enclosure that will be assembled, commissioned and delivered in a perfect working condition. When the data center arrives at your location it is only a matter of plug-and-play. All you have to add are the ICT facilities. You can do this yourself or you can ask ENGIE to take care of this with powerful micro servers for example. The concept is suitable for High-density ICT.

■ By purchaser
■ By ENGIE / Legrand

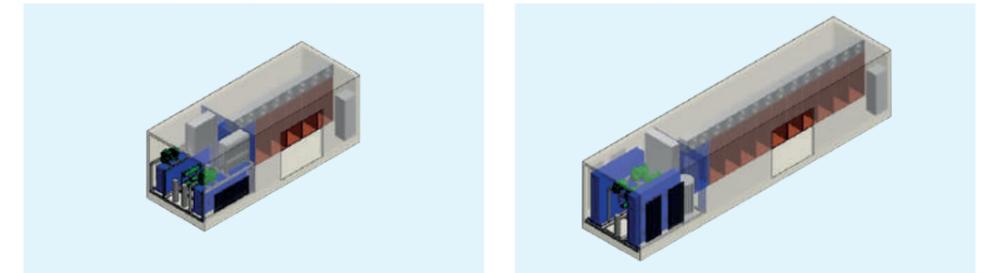
Realization time (in weeks)



The make-up of the EMDC

In every ENGIE Mobile Data Center – powered by Legrand you will find as a minimum all the basic components that are needed for your data center applications:

- Protective and completely insulated enclosure
- Cooling installation specifically designed to cool your precious IT equipment
- High-end racks perfectly fit to build in all your equipment
- Redundant power supply in the equipment-racks, including a UPS system



EMDC dimensions	8 x 3 Mtr			13 Mtr							
Rack consumption	4kVA/rack	8kVA/rack	11kVA/rack	4kVA/rack	8kVA/rack	11kVA/rack					
No. of racks	3	4	5	3	4	5	6	7	8	9	10
Redundancy	Yes		No		Yes			No			

Extension modules

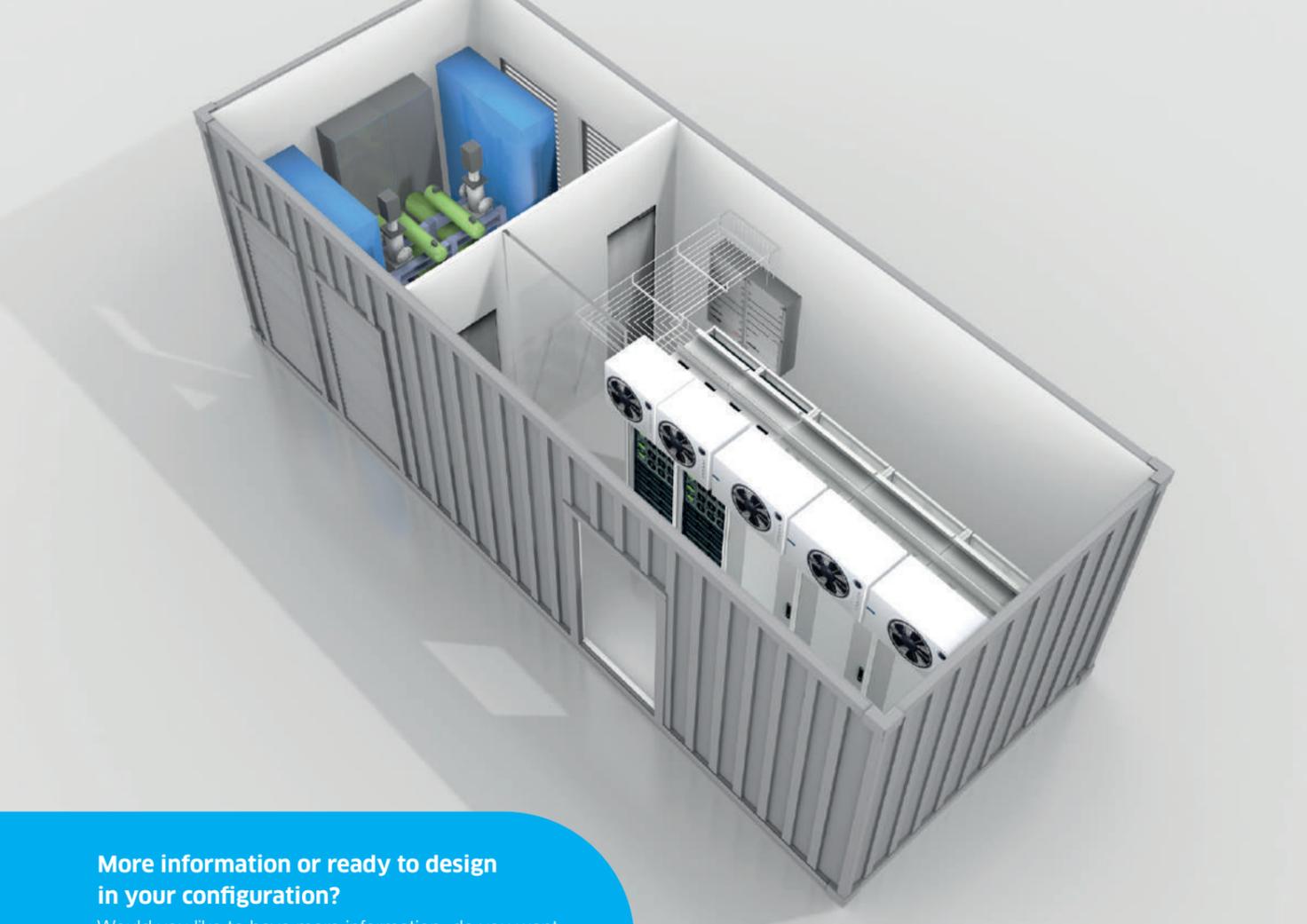
After you have designed your basic mobile data center, you can choose from a variety of extension modules. These extra modules increase availability, user friendliness or the security arrangement and they complement the configuration to match your specific wishes and demands.

Options	Access control	CCTV	Fire suppression	Burglary protection	GPS tracker	Indirect free cooling
	Performance monitoring	Smart PDU	Extra smart PDU	Rack doors	Integrated ATS	

The correct SLA for the highest possible availability

A data center is crucial for the continuity of your company. You will therefore be able to rely on our 24/7 services when it comes to maintenance and monitoring. In order to guarantee longstanding operational reliability we designed a number of service packages for the EMDC. These service packages are all aimed at guaranteeing availability. What makes them special, is that you will always be able to count on highly qualified staff thanks to ENGIE's level of presence both locally and worldwide. We look forward to informing you about our different service levels and will advise you on the package that meets your specific needs best.

Service level
Gold
Silver
Bronze



More information or ready to design in your configuration?

Would you like to have more information, do you want to design your own mobile data center or do you want insight in the pricing options? Take a look at our configuration tool www.engie-services.nl/emdc.

Smart Tech solutions by ENGIE

In our constantly expanding digital world, it is more and more important that digital systems are available at all times for both companies and consumers. ENGIE focusses on digitalization and especially on innovative 'Smart Tech' solutions that help our customers to become smarter, innovative and more economic in their use of energy. ENGIE offers extensive experience when it comes to designing, building

and maintaining data centers. With our EMDC, which was designed and developed in-company, ENGIE allows its customers to add extra data center capacity within short timeframes and with a minimal disturbance of the primary operational process. In this way ENGIE combines operational reliability with sustainable technology, energy-efficiency and cost savings.

Powered by Legrand

Legrand is a worldwide specialist in electrical solutions and digital infrastructure that offers complete installations for the utility market, data centers, residential builds and industry. Legrand offers high-end solutions together with Minkels and Raritan for data center infrastructure, energy distribution, communication networks and building automation.

Legrand data solutions



Patch and Server racks

The Minkels patch- and server racks by Legrand are made especially to integrate your (blade) servers, switches, patch panels, routers and storage equipment. The racks are available in many different sizes.



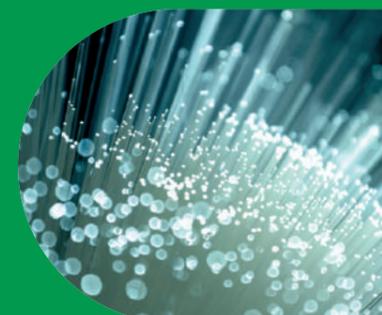
Power & Connectivity

Legrand offers a product range that is completely in line with the demands of today's PDU market but certainly with those of the future as well. The Legrand Power & Connectivity portfolio includes a comprehensive range of power distribution solutions for data centers.



UPS

The modular UPS-systems of Legrand offer the perfect UPS solution for an un-interrupted power supply with uptime guarantee, at 20 to 480 kVA of electrical power. The UPS-system is a very energy-efficient solution that can offer 2N power supply; an optimal security against power outages. It is a strong modular system with power and battery modules which can be exchanged separately as well as a power supply structure that can be adapted in phases.



Optical fiber

Fiber-optic technology ensures a fast and reliable connection. Legrand delivers all separate fiber-optic components, but also specific DC pre-assembled fiber-optic connections between two server cabinets. For example Fan-out - Fan-out micro-cables OM3 & OS2 with 12 or 24 optic fibers and LC Duplex connectors or with MTP - MTP micro-cable OM3 & OS1/OS2.



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