

The Nexperia logo is displayed in a white rectangular box. The word "nexperia" is written in a lowercase, sans-serif font. The "n" is teal, "e" is orange, "x" is teal, "p" is teal, "e" is teal, "r" is teal, "i" is teal, and "a" is teal. The background of the slide features a tall, modern building with a facade of small, square, reflective panels, set against a clear blue sky. A street lamp and a green field are visible in the foreground.

Global expert in essential semiconductors

SEMICONDUCTOR COMPANY WITH HQ IN THE NETHERLANDS

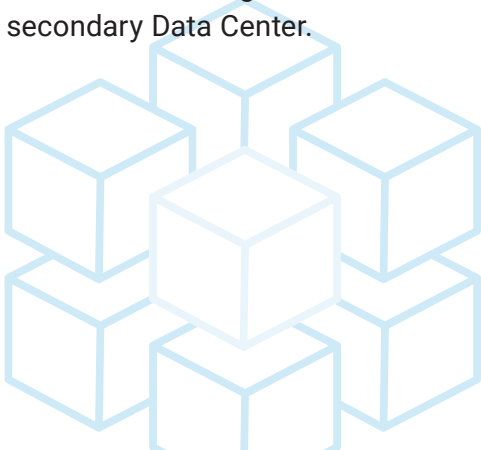
Initial situation

Without them, almost no car would drive, no television would turn on, and no airplane door would open: Almost every electronic product we pick up or use in everyday modern life contains basic electronic components from the global semiconductor expert Nexperia, headquartered in the Netherlands. Nexperia has shipped more than 100 billion products worldwide in 2022, meeting the stringent standards set by the Automotive industry.

With the start of Nexperia in 2017, it became clear that their manufacturing sites inherited legacy equipment, was no longer supported. The manufacturing sites also did not have a secondary Data Center.

Requirements

1. Reducing priority 1 incidents which influence the downtime of Nexperia's production.
2. Provide an environment to ensure continuity on all Nexperia production locations.
3. Find a financial model which does not affect the Nexperia cashflow in a negative way, avoiding one-time cash-out.
4. Select a vendor who can provide the global solution to every country where Nexperia has production facilities.



Requirements

Nexperia wanted to find a highly standardized solution that would not only satisfy the four main requirements but also enable a global “in control” situation. The initial discussion happened with HPE directly who pointed out that HPE Synergy could foresee technical needs and that HPE Greenlake could support Nexperia with the financial side of the solution.

After approval on the proposed solution, next step was to find an IT partner, who could provide the technical as well as the financial solution to all countries where Nexperia has production facilities. In scope were five production sites: Manchester (UK), Hamburg (Germany), Dongguan (China), Cabuyao (Philippines), Seremban (Malaysia) and four Regional Data Centers: AMEC – Dallas, EMEA – Hamburg, China – Dongguan, APAC – Cyberjaya.

It quickly became clear that Concat AG could best meet these requirements. As a subsidiary of the US-based Meridian Group International, the IT service provider has access to local markets. The parent company acts as a contractual partner for HPE. Other important criteria for Nexperia were a good basis of trust with the partner, and a reliable service desk team for providing support.

“For me, it was clear from the start that the collaboration with the service provider would last more than five years. So, the relationship with the partner had to be good,” explains Andre Jongejan, Head of Global IT Infrastructure. “Concat up to now has not disappointed me.”

Solution

Due to the growth, the high demand for flexible computing and storage capacity, Concat designed a five-year GreenLake 3.0 project together with Andre Jongejan and his team and HPE.

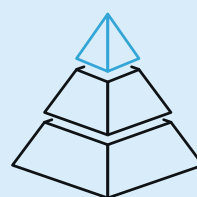
The solution design included HPE Synergy and HPE storage systems for all sites, each with two data centers in a highly available and mirrored setup. Within a short time, the first environment in Manchester was implemented by Concat. The Corona pandemic slowed down the further project steps. The solution to continue the roll-out: HPE technicians prepared the systems to be installed on site in Asia to such an extent that Concat was able to complete the configuration remotely.

Since the start of the project in February 2020, a total of five manufacturing sites with dual Datacenters and four regional datacenters across six countries on three continents have been equipped with state-of-the-art HPE hardware. Since 2020, more than 200 Synergy nodes distributed across 40 frames, over 20 storage systems from the 3Par, Primera and Alletra series, several SimpliVity HCI instances and over 100 SAN and Ethernet switches have been implemented. All environments are virtualized with VMware vSphere. Additional extensions to the existing environment are planned and are already being implemented in some cases.

In order to accelerate the commissioning of servers during the constant expansions, Concat technicians developed procedures to reduce the time required from one week to one or two days.

EVERYTHING-AS-A-SERVICE
SIMPLE. SECURE. FLEXIBLE.

HPE 
GreenLake



**Flexible
scalability**



**Pay-per-use
consumption-based**



**High level
of control**

“HPE’s GreenLake pay-per-use model is a great financial concept and convinced our CFO to go ahead. Instead of having to do a one-time CAPEX cash-out we were able to start with low monthly cost and gradually build up the IT capacity we needed.”

Andre Jongejan, Head of global IT infrastructure, Nexperia



Advantages

The most important benefit of choosing HPE Synergy in the HPE GreenLake concept is the reduction in so-called Prio 1 incidents. “Since 2019, this number has dropped from double digits to close to six per year,” according to Andre Jongejan. “This is a real success story.”

By unifying the hardware, IT teams are always in control of the entire infrastructure at all locations around the globe. Concat’s service desk is responsible for the entire GreenLake infrastructure. Concat’s service technicians can connect to on-site systems and provide support with just a few clicks. To ensure high availability, Nexperia extended the managed service contract with Concat to include second-level support. This enables the specialists to act quickly in the event of a fault.

To prevent failures, Concat performs weekly health checks of the environment, checks the utilization, reports the result and makes recommendations regarding updates. A more in-depth analysis of the infrastructure is performed four times a year.

Andre Jongejan’s summary is consistently positive: “For me, the most important thing is that I can trust our partner Concat in solving our issues (P1/P2’s) together with HPE.”

SHORT SUMMARY

Challenge:

- Obsolete inherited infrastructure in all data centers
- Minimize production downtime
- Rapid growth worldwide

Solution:

- A standardized high available solution, globally monitored
- Global service provider with local presence
- Monthly lump sum instead of one-time high investments

Advantages:

- Number of Prio 1 incidents reduced to a minimum
- High reliability due to redundant systems
- Single point of contract for all HPE Greenlake topics
- Flexible scalability for growth





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www.concat.de

nexperia

**Semiconductor company
with HQ in the Netherlands**

Nexperia is a leading expert in the high-volume production of essential semiconductors, components that are required by every electronic design in the world. The company's extensive portfolio includes diodes, bipolar transistors, ESD protection devices,

MOSFETs, GaN FETs and analog & logic ICs. Headquartered in Nijmegen, Netherlands, Nexperia annually ships more than 100 billion products, meeting the stringent standards set by the Automotive industry. These products are recognized as benchmarks in efficiency – in process, size, power, and performance – with industry-leading small packages that save valuable energy and space.

With decades of experience, supplying to the world's biggest companies, Nexperia has over 15,000 employees across Asia, Europe, and the U.S., offering global support.

HPE GreenLake

Concat AG IT Solutions

Seit 1990 realisieren wir maßgeschneiderte IT-Infrastrukturen. Auf Wunsch erbringt unsere Managed-Service-Organisation dafür Support- und Betriebsleistungen (24x7). Darüber hinaus bieten wir Private-Cloud-Enterprise-Lösungen und schlanke, voll gemanagte Dienste im Hybrid- und Public-Cloud-Bereich. Alle Daten liegen verschlüsselt in deutschen Rechenzentren (zertifiziert nach ISO 9001 und ISO 27001).

 **concat AG**
IT SOLUTIONS

A Meridian Group International Company

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