

CASE STUDY

Bodet

The time server, a time management solution



CUSTOMER

Oceanet Technology



ACTIVITY

IT outsourcing
Hosting company



LOCATION

Saint-Herblain - France



FIGURES

6 data centres
800 clients / 650 employees



PRODUCT

Netsilon 11



APPLICATIONS

Synchronisation of IT equipments
Timestamping of events



IT NETWORK



Background

Oceanet Technology (Céleste group) has been operating as a data hosting company, IT operator and security specialist for more than 25 years.

Historically located in Nantes and Paris, OT supports companies in the design, migration and securing of their IT infrastructure in the private and public cloud computing (AWS and Azure). The company also manages the outsourcing of its clients' data 24/7. It ensures that all data are kept secure and protected in different sectors such as food industry, banking, retail, e-commerce, manufacturing, software development and healthcare.

Everyday, billions of data items are organised, processed, registered and stored in traditional data centres or in cloud systems. Whether for professional or personal purposes, making a purchase online or sharing digital working documents with a colleague would be impossible without these data centres. They are crucial for all types of companies: in the event of network malfunction, the companies' activities are paralysed.

Worldwide, the data centre market is booming due to several reasons: the digitisation of many services, the globalization, the rise of connected devices, 5G, remote working, ... In the age of big data, **it is therefore important that active devices operating on a network are all set to the same and correct time, whether for outsourcing companies or a company which subcontracts the hosting of its data.**



The need

The task of an IT operator such as Oceanet Technology is to provide optimal service to its customers. The main expectation was therefore to be able **to synchronise in a reliable way all IT equipment.**

The Oceanet Technology site based in Saint-Herblain is equipped with numerous devices such as mainframes, routers, switches, computer servers, storage bays, and so on. It is important to be able to synchronise all this equipment **to benefit from reliable and accurate data sources with a continuous time signal.**

The second expectation was to be able **to synchronise logs (synchronisation logs) to make it easier to analyse and group them.** A server set to the wrong time can lead to numerous problems when performing these various analyses. Logs are text files containing debugging information which can help technical support teams analyse various problems on the system. **Having access to a time server's event logs provides a better overview of the chronology due to coherent and accurate timestamping.**





The solution

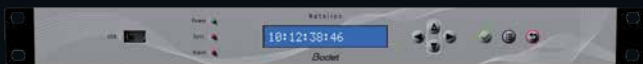
The Netsilon 11 was installed in June 2021 in the server room of the Saint-Herblain site. It retrieves the GNSS

signal (GPS, Galileo, GLONASS, BeiDou) via a multi-constellation Bodet antenna, which was installed at the same time outside the buildings.

Upon Oceanet's request, the Netsilon was customised to meet their own specific needs:

- **It was fitted with a dual power** supply to ensure continuous operation in the event of a fault with the primary power supply
- **Fibre connectors were added** to provide network redundancy

The advantages of the NETSILON 11



- + **Reliability through multi-source synchronisation:**
 - GNSS antenna for accuracy
 - ALS Antenna for French Legal Time
- + **A very low time drift in case of loss of reference signals** (ALS and GNSS) thanks to a high-performance internal OCXO oscillator
- + **A large number of requests supported:** more than 7000 NTP requests per second
- + **A wide range of supported network protocols :** NTP / PTP / HTTPS / SSH / SNMP / SYSLOG
- + **An alert notification system** of status change via email, SNMP or via a connected external display



Customer testimonial

"Oceanet Technology has been working on various projects with the Bodet group since 2011.

As projects are developed, a strong relationship has been created between our two companies. That's why we decided to work with Bodet company for this type of project.

We have been using Bodet products for several years and have a complete confidence in the quality of its products and services. This ensures a quality of service that we can provide to our clients.

Today, all our client servers and infrastructures (HPE, for example) are synchronised with the Netsilon time source. The NTP (Network Time Protocol) can be used to create networks made up of entities with multiple levels of redundancy so as to ensure the machines connected are synchronised continuously with a high level of accuracy. The NTP available on a time server is the best solution to get traceability that is required for an infrastructure to operate properly. **Since the Netsilon time server was installed, we have seen a significant improvement in the reliability of the data source.**

Regarding the project follow-up, **we were very satisfied with the quick response of the technical support during the installation and the easy setting up of the solution.**"



A testimonial from **Mr Guillaume SACHOT**
Infrastructure architect - Oceanet Technology



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