

# OneNet

## What we know so far

**Webinar and Q&A**

# Today's Session

- What is OneNet
- What are the benefits of OneNet
- Can you use OneNet with NMEA 0183?
- Is OneNet secure?
- What is the future for OneNet?
- Q&A





**“For the last 10 years, Actisense has been working on the OneNet steering committee, ensuring that the new network standard benefits both technical installers and boat users around the globe. We are committed to seeing the new standard be successfully integrated alongside the other NMEA protocols. You can be sure that Actisense has some exciting planned updates and OneNet products on our roadmap. Watch this space!”**

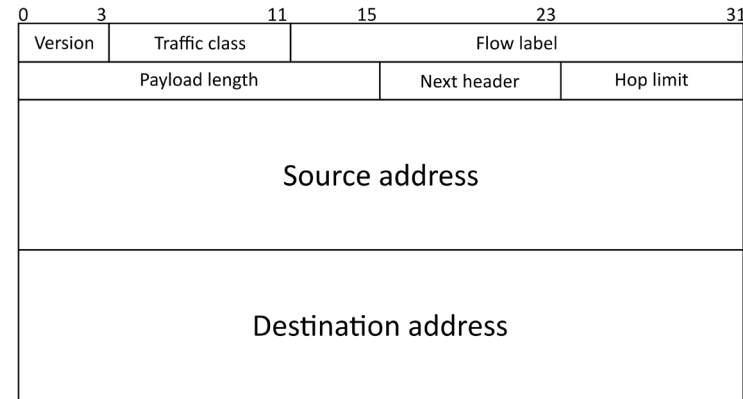
**– Phil Whitehurst, CEO of Actisense**



# What is OneNet?



**Third generation  
NMEA Standard**



**IPv6**



**‘OneNet provides a common network infrastructure for marine devices and/or services on IPv6. All OneNet application protocols, such as PGN Messages, are designed to use a standard IPv6 network protocol stack. This allows OneNet to coexist with other protocols and services that operate parallel on the same network (including other marine standards such as IEC 61162-450). The standard also specifies mechanisms for connecting OneNet networks, NMEA 2000 networks, and other networks via gateway devices. Like NMEA 2000, all OneNet products will need to be certified by the manufacturer and verified by NMEA.’**

**- NMEA**



**What are the benefits of OneNet?**



**Provides a common network  
infrastructure for marine devices and  
their services using IPv6**





**All OneNet products will require  
testing using the NMEA OneNet  
Certification Tool**



**Whilst NMEA 2000 operates at 250Kbits/sec, OneNet can range from 10Mbits/sec to 10Gbits/sec, making it 40 – 40,000 times faster**



**Increase in the number of physical devices that can be on the network**



**Join multiple NMEA 2000 networks  
together using its OneNet Gateway  
technology**



**OneNet realistically has no PGN limit**

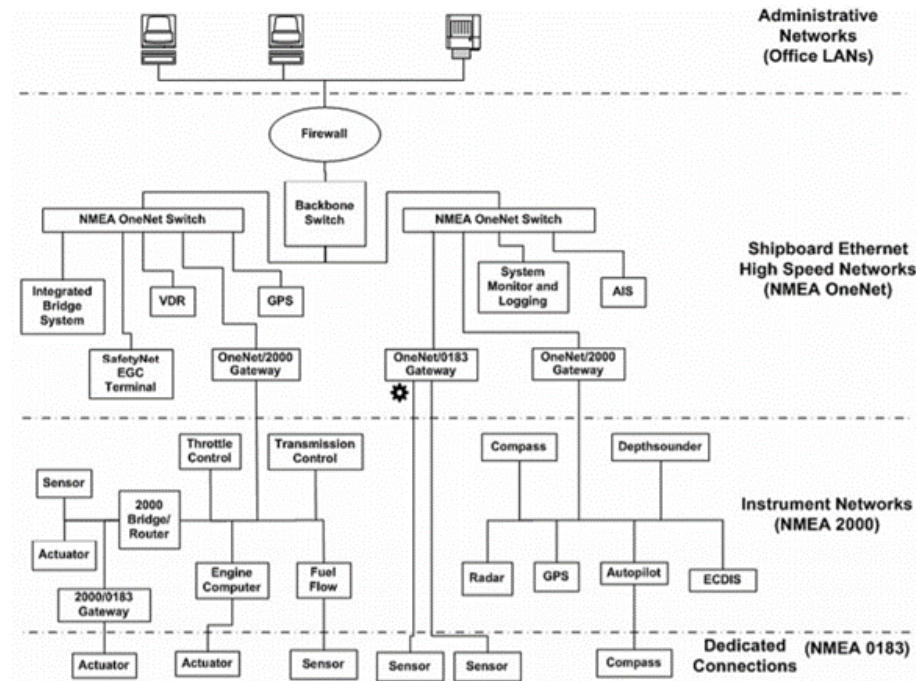


**OneNet devices can be powered directly from the OneNet switch using PoE (Power over Ethernet)**



**Can you use OneNet with  
NMEA 0183?**

# NMEA OneNet is designed to work transparently with NMEA 2000



**Provided courtesy of the NMEA**

<https://www.nmea.org/Assets/nmea%20introduces%20onenet.pdf>





**Is OneNet secure?**



**NMEA OneNet uses a security model where the user creates a OneNet Secure Network and then adds OneNet Applications to that network using a process called 'pairing'.**



**What is the future for OneNet?**



# Q&A WITH CHIEF ENGINEER ANDY CAMPBELL

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