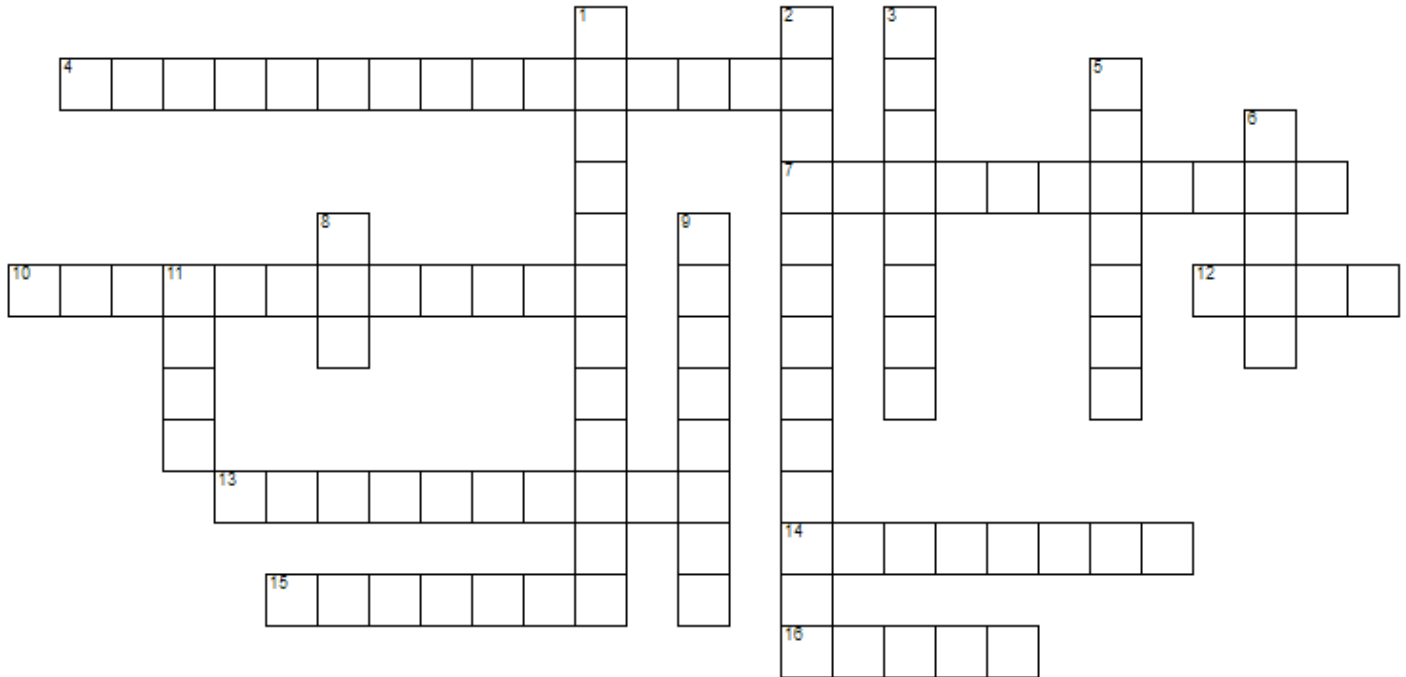


## LoRa Basics Station



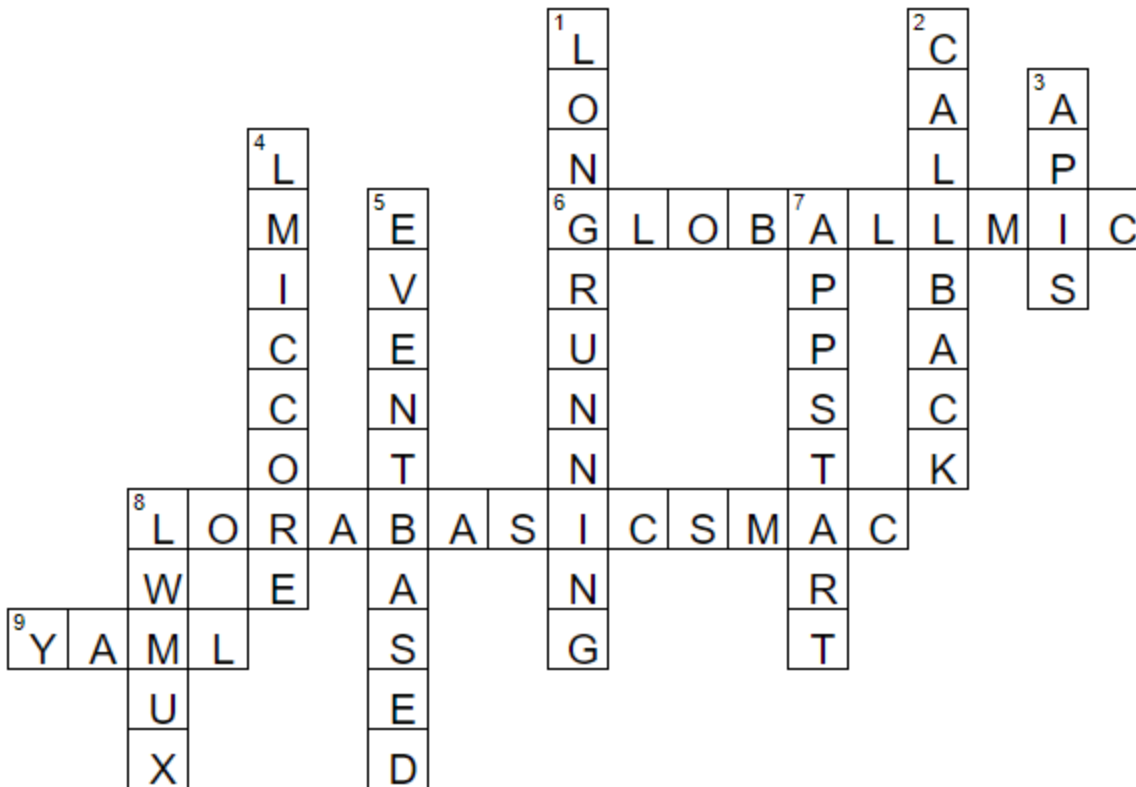
### Across

- 4 An API lets the LNS control \_\_\_\_\_ of the concentrator clock
- 7 The fields \_\_\_\_\_ and \_\_\_\_\_ are used to filter LoRa frames received by a Station
- 10 Managed centrally by the LNS
- 12 Station regularly contacts a \_\_\_\_\_ to check for updates
- 13 The `freq_range` field defines the \_\_\_\_\_ of the available spectrum
- 14 Station acknowledges \_\_\_\_\_ requests from the LNS
- 15 The first message sent by Station is a \_\_\_\_\_ message
- 16 Some fields are only available in \_\_\_\_\_ builds

### Down

- 1 Implementation of a LoRa packet forwarder
- 2 Frames marked as proprietary are passed along \_\_\_\_\_
- 3 Supports \_\_\_\_\_ type(s) LoRaWAN device communication patterns
- 5 Connecting a Station to an LNS is a \_\_\_\_\_ process
- 6 Station can be easily ported to \_\_\_\_\_-based gateways
- 8 Authentication method used by LNS and CUPS
- 9 There is no need for a \_\_\_\_\_ local clock
- 11 If present, any \_\_\_\_\_-based interface is used to augment health information

## LoRa Basics MAC



### Across

- Information about the protocol state can be accessed via a \_\_\_\_\_ structure
- Portable implementation of the LoRa™ Alliance's LoRaWAN™ specification
- Service descriptions are contained in a \_\_\_\_\_ file

### Down

- Jobs must not be \_\_\_\_\_
- The LMiC core requires the implementation of a few \_\_\_\_\_ functions
- The LMiC library offers a set of \_\_\_\_\_ to control the MAC state
- Central component of LoRa Basics MAC
- The LMiC core uses a(n) \_\_\_\_\_ programming model
- The \_\_\_\_\_ module provides the default initialization code
- Arbitrates access to the LoRaWAN uplink layer