

Nomenclature LoRa – Jardins du Coteau

In order to coordinate sending and receiving of data thanks to the LoRa protocol in Jardins du Coteau farm, we decided to design and observe a nomenclature. It will allow to filter our data (on the whole pool of data circulating on the LoRa network), but also recognize which kind of data is sent.

Each packet of data related to Jardins du Coteau farm will be sent under this format in order to be read and processed by the gateway:

0xPIMD XXXX XXXX XXXX XXXX XXXX XXXX

Where P, N and M are:

	Connected Greenhouses	Gestion de l'eau	Meaning
P	0	1	Project's identifier (0 to F)
I	0 to F	0 to F	Numéro de carte STM32 du projet (0 à F)
M	0 : Temperature of the ground 1 : Temperature of air 2 : Air moisture 3 : Ground moisture		Data's identifier. Useful for some project to distinguish sent data.
D	0 to F	0 to F	Number of sent data
X			Data

This nomenclature will permit to meet our current needs as part of Connected Greenhouses and Water Management projects, but will also be adaptable to other potential projects based at Jardins du Coteau Farm.