

INTRODUCTION

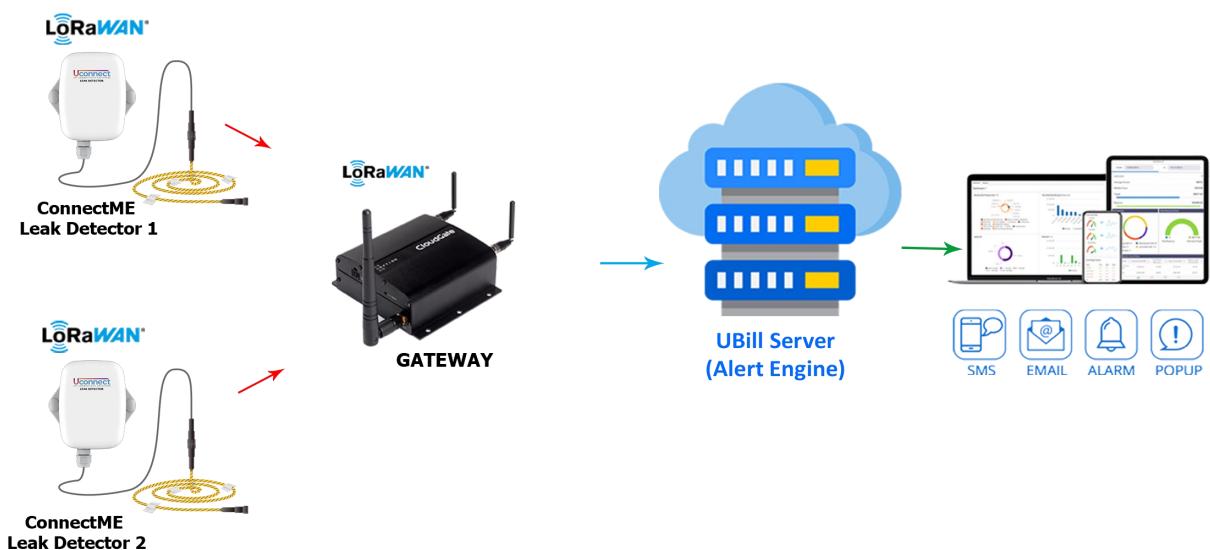
LoRa Sensors: Uconnect Sensors capable of detecting leaks and communicating over LoRa and also send the periodic data with battery percentage, Humidity and temperature.

LoRa Gateway: Receives data from LoRa sensors and forwards it to the Uconnect Cloud platform.

Server/Cloud Platform: Receives the data from LoRa Gateway using 4G / Wi-Fi and handle alert generation using WhatsApp API with hierarchy levels of maximum 3.

WhatsApp API: To send messages/alerts to WhatsApp.

ARCHITECTURE



TECHNICAL SPECIFICATION

SPECIFICATION	DESCRIPTION
POWER SUPPLY	Gateway : 24V 2A DC, Sensors : Battery Powered
SENSOR WIRE LENGTH	2 meters (Default) Extendable up to 10 meters
COMMUNICATION	LoRa WAN (Wireless Low power)
MONITORING PARAMETERS	Leak, Temperature, Humidity & Battery Percentage
BATTERY TYPE	A Type Battery (2 Nos)
BATTERY LIFE	Up to 5 Years (24 Leaks per day with 24 scheduled data transmit)
IP RATING	Sensors : IP65
OPERATING TEMPERATURE	-15 to 40°C (5 to 104°F)