

## INTRODUCTION

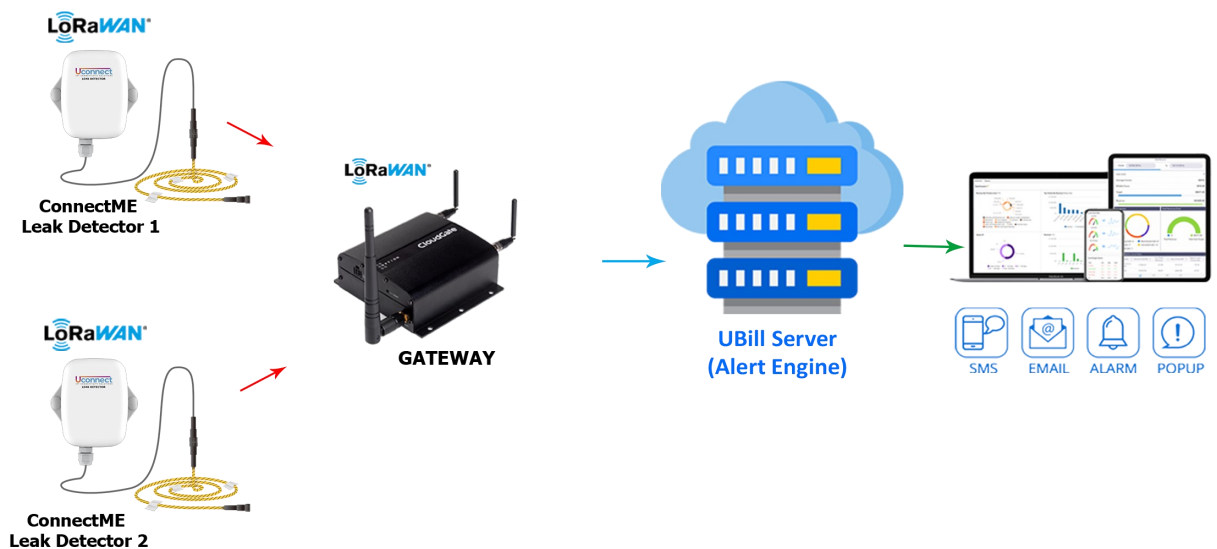
**LoRa Sensors:** Uconnect Sensors capable of detecting leaks and communicating over LoRa and also send the periodic data with battery percentage, Humidity and temperature.

**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	<b>Gateway</b> : 24V 2A DC, <b>Sensors</b> : 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	<b>Sensors</b> : IP65
OPERATING TEMPERATURE	-15 to 40°C (5 to 104°F)