

Milesight D2D featuring LoRaWAN®

Fast Response in ONE Second





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Company Overview

Milesight IoT is a fast-growing and innovationdriven technology company with a focus on 5G, AI, IoT and LoRaWAN. With advanced IoT insights, the company is committed to driving next-level technology innovation and business efficiencies in an actionable and locally adapted way.

Better Inside, More in Sight

Milesight 700+ employees 2011 **Milesight Technology** Video Surveillance 2013 Yeastar **Business Communications** 2017 **Milesight IoT** Internet of Things 4G, 5G, LoRaWAN, AI 200+ employees 56% of employees are from R&D team 15% revenue in R&D 20K device units per month Defect rate≤ 0.7%

200% CAGR during 2019 to 2021

Over 100 countries

Ch. H. Wine

We Are Trusted by Global Partners



Sales Reach

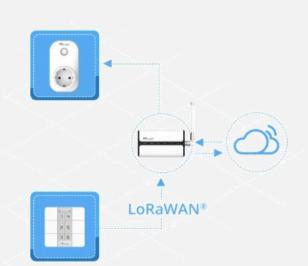
• 120+ countries and regions in the world







Structure of a typical LoRaWAN network



- A LoRaWAN network assumes a star topology;
- LoRaWAN characteristic is the central role of the gateways;
- Star-of-stars topology is less complex and cost efficient;

Structure of Milesight D2D Milesight

Milesight D20 LoRal/AN



 Milesight D2D featuring LoRaWAN technolog is a device to device communications link which does not use the LoRaWAN network infrastructure, but enables LoRa based devices to communicate directly with one another when they are in the same group.

Why Milesight D2D

· Wireless · Fast · User Friendly

How does Milesight D2D benefit?

- Low latency (less than 1 second in the same room)
- Low power for battery operation of both sides
- Long range and better user experience
- As secure as the standard LoRaWAN[®] network
- No added hardware, only firmware upgrade operations
- No useless beaconing & difficult sync

Applications





Building

Hospital



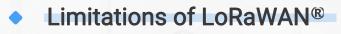
Apartment







Office



- Not for real-time & lower latency applications
- Higher power consumption for multiple nodes linkage
- Not support nodes to nodes communication
- Each end device must join the LoRaWAN[®] network for secuirty concerns



Shopping Mall

Compare to Discover

	Class A	Class B	Class C	Milesight D2D
Real-time	Bad	Better	Good	Very good
Power Consumption	Low	Medium	High	Low
Peer 2 Peer	Not support	Not support	Not support	Support
Deployment	Easy	GPS-supported outdoor gateway	Easy	Easy
Security Key	Standard	Standard	Standard	Customizable

*Remark: Milesight D2D Protocol only works in Milesight brand end nodes.



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How Do Products Work?

Products Overview Examples of Usage

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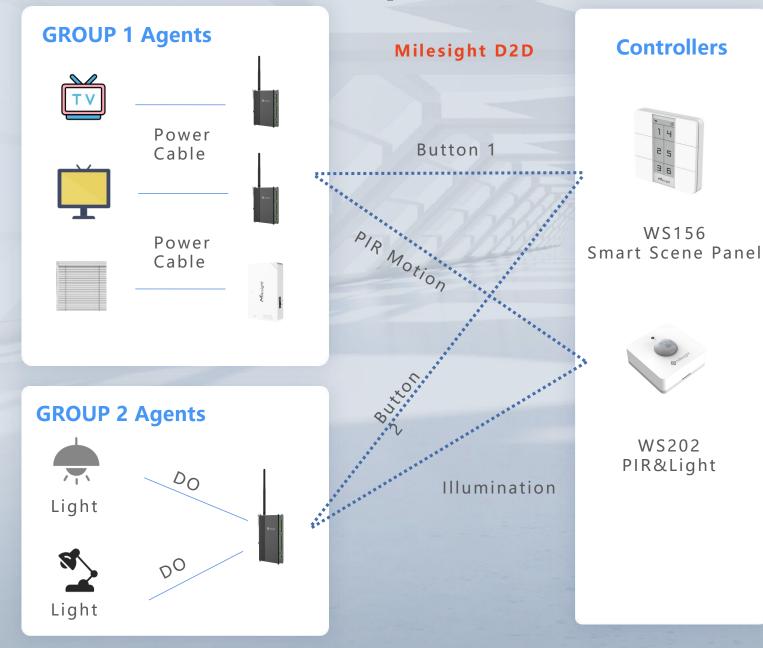
Milesight D2D Devices





How to set them up?





Settings on ToolBox

Trigger Conditions in Controllers

WS156: Button 1 for Holiday; Button 2 for Business Day; WS202: PIR Motion Detection or Illumination Detection

Output Signal in Agents

WS52x: Control electric equipments UC300: Control various lights

Encryption Keys Assignment

Agent Group1+ Button 1+ WS202: Key 123456 Agent Group2+ Button 2+ WS202: Key 456789

Commands

1. Press button 1 of the panel to power on/ off all the connected units in Group 1

2. Press button 2 on the panel to turn on / off all the lights in Group 2

3. Motion Detectionn by WS202 triggers the equipments in Group1 to power on/ off

4. Illumination lux level triggers the lights in Group2 to turn on or off



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Milesight D2D FAQ



Q1: Do the Milesight D2D compliant end nodes support standard LoRaWAN[®] protocol?

A1: Yes. They all support LoRaWAN[®] by default. When the D2D is enabled, device will stop the data transmission in the standard LoRaWAN[®] network, and prior the Milesight D2D protocol.

Q2: Can I work some of them in D2D and the rest in LoRaWAN[®] in WS156?

A2: Yes. Each button works individually.

Q3: Can I control the lights on the 8th floor through the panel on the ground floor?

A3: For the goodness of user experience, it's better to make the D2D communication among the end nodes located on the same floor, i.e. line of sight area.





Milesight D2D FAQ

Q4: Is it a ONE-TO-Many relationship between Controllers and Agents in Milesight D2D network?

A4: A controller device can control multiple agent devices, vice versa an agent device can be triggered by multiple controllers.

Q5: It seems delayed in response after clicking the button hundreds of times continuously.

A5: In smart scene panel WS136/WS156, for the sake of battery life, the initial 6 times of operation will get an immediately treatment. After that, the command will be sent with a latency of 4 seconds.

Q6: Can I convert the Controller to Agent freely according to the needs of project?

A6: Only these four end nodes can be worked as either Controller or Agent in Milesight D2D, including the UC100 and UC300 IoT Controllers, WS52x Smart Portable Socket and WS50x Wall Switch.











Milesight - Next-generation AloT Solution Provider <u>AloT Solution Provider</u>



Join us and let's grow for success together!





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