



# How can I connect low-power IoT devices to the cloud securely and easily?

## IoT Cloud Connect makes it easy to connect your IoT devices to AWS IoT Core or Azure IoT Central.

Internet of Things (IoT) devices have been gaining in popularity, in part due to their low power consumption and energy efficiency. It can be difficult, however, to connect such low-power IoT devices to cloud-based IoT endpoints like AWS IoT Core and Azure IoT.

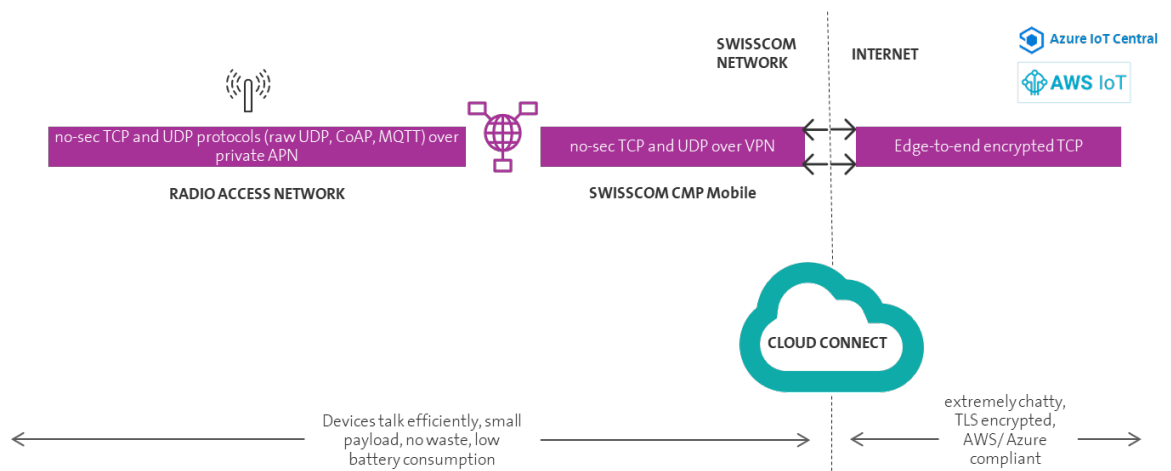
IoT devices often have limited network resources, making it more difficult to transfer data to the cloud. At the same time, the secure transmission of sensitive data from IoT devices is necessary to prevent data leaks and attacks. What's more, IoT devices are often battery-powered, and therefore need to work as efficiently as possible to maximise battery life.

## Your benefits with IoT Cloud Connect

<b>Simplified rollout of your IoT devices</b> There's no need to install a CA certificate on your devices.	✓
<b>Easier payload data transfer</b> With IoT Cloud Connect, you can securely transfer the payload data using standard non-TLS protocols (COAP, MQTT).	✓
<b>High energy efficiency</b> Dispensing with the TLS handshake and TLS encryption significantly increases your IoT device's battery life.	✓

We provide you with a secure UDP endpoint. Your devices use this endpoint to transfer the payload data. A software component (Cloud Connect) then encapsulates the binary payload data into a JSON format. Finally, IoT Cloud Connect securely transfers the payload data to your AWS or Azure account.

## How IoT Cloud Connect works





## IoT Connector Starter Package

---

This package guarantees a straightforward, secure start to your energy-efficient IoT journey to the cloud.

### Basic services

- 10 SIMs
  - 3 months' access to the Connectivity Management Platform Mobile including Cloud Connector
  - Low Power to the Cloud starter workshop (3 hours)
  - Support & consulting based on your needs (8 hours)
- 

### Focus areas for consulting

### Low Power IoT expertise

#### IoT devices

- Best practice energy efficiency
- Best practice data efficiency
- Connectivity parameters and settings in the technologies NB-IOT, LTE-CATM1, (LoRaWAN)
- Protocols (UDP, COAP, MQTT, LWM2M, LoRaWAN)
- Device security

#### Connectivity

- Training connectivity management platform
- Training Cloud Connect settings

#### Cloud

- Cloud gateway configuration
  - IoT device communication via Cloud Connector
  - E2E security by design
  - Solution design
  - Optimised costs
  - Application integration
- 

Are you planning to implement an IoT use case with a large number of devices? We will be happy to help you.

Complete the [contact form](#) to contact our experts.

The details in this document do not constitute a binding offer. Subject to modification without notice.

Enterprise Customers, P.O.

Swisscom (Switzerland) Ltd

Box,

CH-3050 Bern, Telephone 0800 800 900, [\*\*swisscom\*\*](http://www.swisscom.ch/enter-</a></p></div><div data-bbox=)