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Choosing the right gateway for industrial monitoring success

January 25, 2022, Tuesday,

SGT 4.30pm – 5.00pm

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Your Hosts

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Marketing Manager,
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Q&A Support

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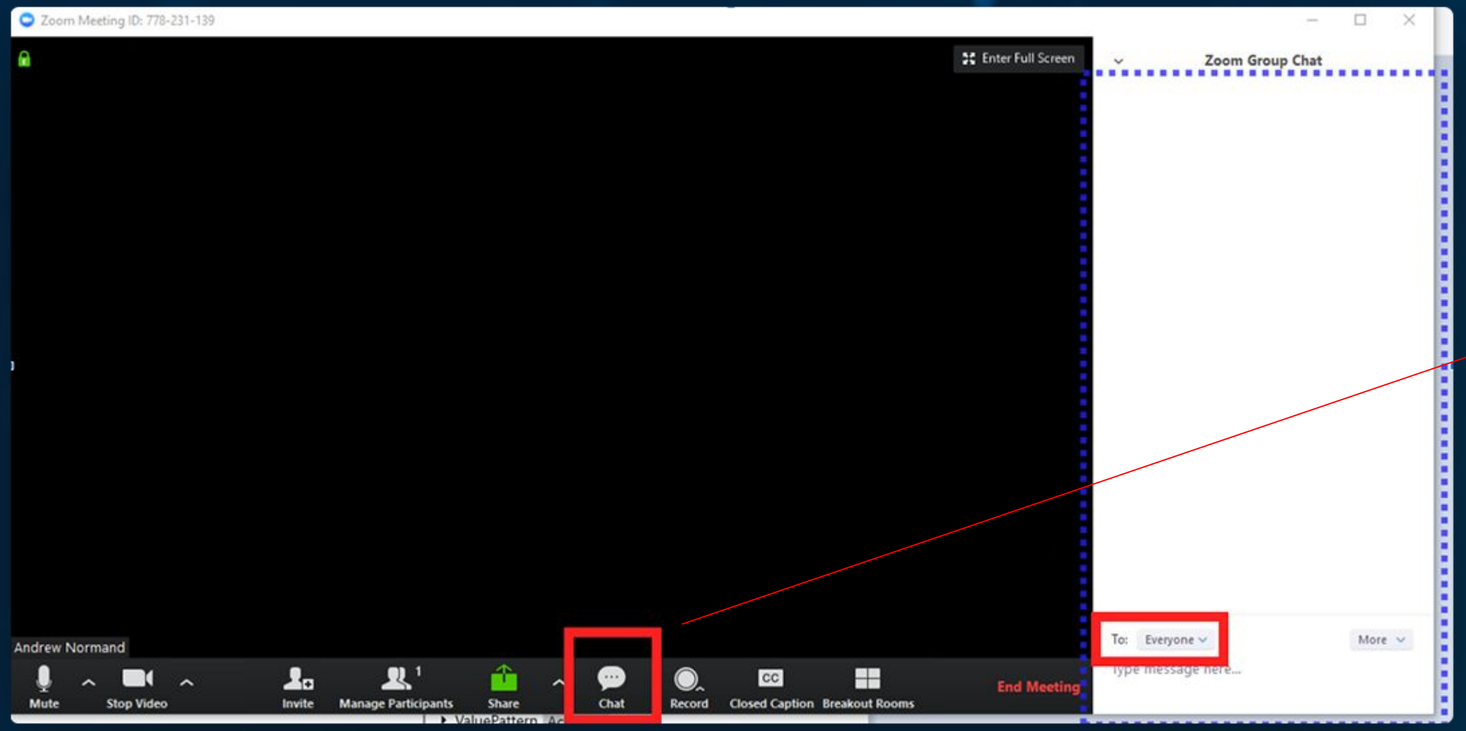
Housekeeping Rules



We are live! Please do not unmute your mic.

Pose questions to the speakers here. We'll get to these at the end.

Recording of the webinar will be sent out in the next few days after the webinar.

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AGENDA

1. Gateway, a central point of failure
2. Capabilities of Ackcio’s central receiver, Ackcio Gateway
3. Capabilities of Ackcio Snape software which runs on the Gateway
4. Live demonstration of Ackcio Snape software
5. Q&A session
6. Closing

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IIoT paving digital transformation of many traditional industries

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Benefits of real-time monitoring

WORKFORCE SAFETY

No more manual readings in dangerous and remote areas requiring minimal workforce requirement on-site.

RISK MANAGEMENT

Reactive to proactive using real-time data and analysis and move towards preventive maintenance

REDUCE COST

Reduce manpower dependency and expenses due to vandalism and extensive maintenance routines

INCREASE EFFICIENCY

Frequent and real-time data collection leads to deeper insights, quick actions and allows us to capture long-term trends

DATA INTEGRITY AND SECURITY

High quality and secure data availability through reduced manual interventions and end-to-end data encryption

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Gateway is the central point of failure

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Gateway is the central point of failure

1 HARDWARE FAILURE

- Power outage
- Internet outage
- Physical damages

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Gateway is the central point of failure

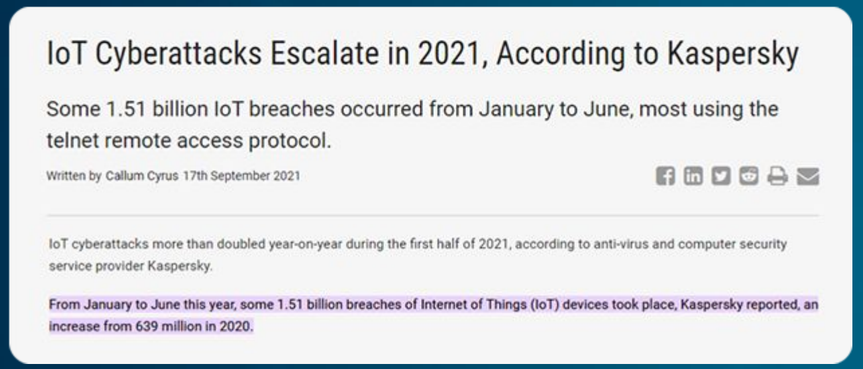
2 SECURITY LAPSES

- DOS attack
- Data encryption
- Data leakage

Advantech Suffered Conti Ransomware Attack – Hackers Demand 750 BTC Ransom

written by Abeerah Hashim | November 29, 2020

The IoT giant Advantech has become the latest victim of a severe cyber attack. Reportedly, Advantech has fallen prey to the infamous Conti ransomware attack where the hackers have demanded a whopping 750 BTC as ransom.



IoT Cyberattacks Escalate in 2021, According to Kaspersky

Some 1.51 billion IoT breaches occurred from January to June, most using the telnet remote access protocol.

Written by Callum Cyrus 17th September 2021

IoT cyberattacks more than doubled year-on-year during the first half of 2021, according to anti-virus and computer security service provider Kaspersky.

From January to June this year, some 1.51 billion breaches of Internet of Things (IoT) devices took place, Kaspersky reported, an increase from 639 million in 2020.

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Gateway is the central point of failure

3 ENVIRONMENTAL FACTORS

- Physical obstructions
- Signal interferences
- Weather conditions

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Industrial Gateway Requirements

- 24/7 availability
- Easy to configure and troubleshoot
- Global compliance
- High performance
- Open standards

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ACKCIO GATEWAY

An industrial centralised data aggregation device

Ackcio Gateway acts as a central receiver that collects data from Ackcio Nodes. It has been designed in a way that it is robust enough to deploy in the harsh climate and tough terrain.

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ACKCIO GATEWAY BENEFITS

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ACKCIO GATEWAY BENEFITS

Industrial design

- Rugged die-cast aluminium build
- IP67 rating for outdoor deployment
- Backup power supply for 24x7 availability during a power outage
- 16GB internal memory to store data for large projects

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ACKCIO GATEWAY BENEFITS

Multiple access points

LAN
- High-speed p2p connection

CELLULAR
- 3G/4G connectivity
- Global compatibility

WIFI (Hotspot)
- WPA enabled secured connection

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ACKCIO GATEWAY BENEFITS

Global compliance

- Configurable to any region & frequency
- Ackcio Mesh
  ISM Band 863 - 870MHz, 902 - 928MHz
- Cellular Model
  LTE, WCDMA, and GSM

CE FC IC

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ACKCIO GATEWAY BENEFITS

Advanced communication

REDUNDANCY
Multi-gateway support

RELIABLE
Frequency hopping

SECURE
AES 128-bit encryption

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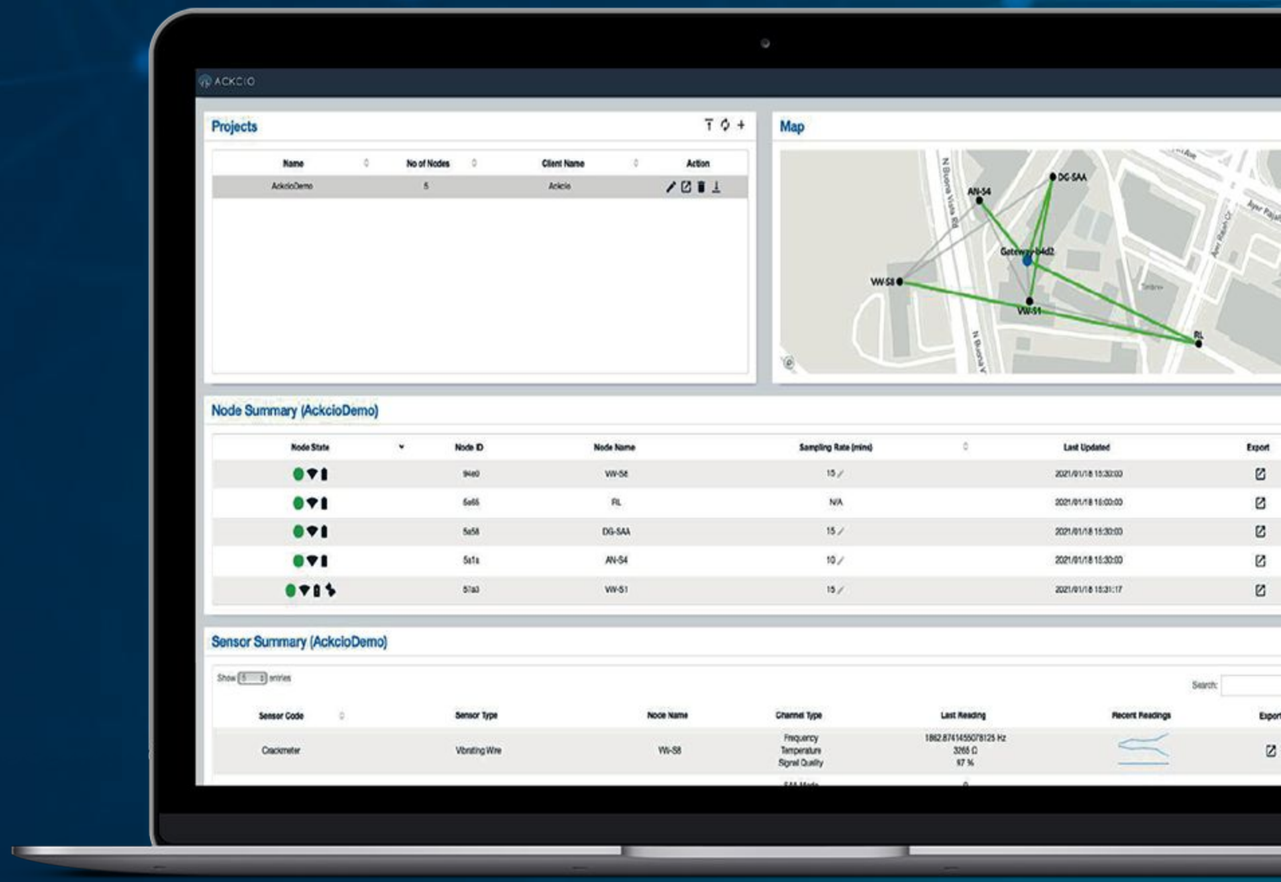
ACKCIO SNAPE SOFTWARE

Secure and private on-Gateway data and device management software

Ackcio’s Snape software, which runs on the Ackcio Gateway, helps to configure deployments and manages sensor data collected by our monitoring system securely and conveniently.



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ACKCIO SNAPE SOFTWARE BENEFITS

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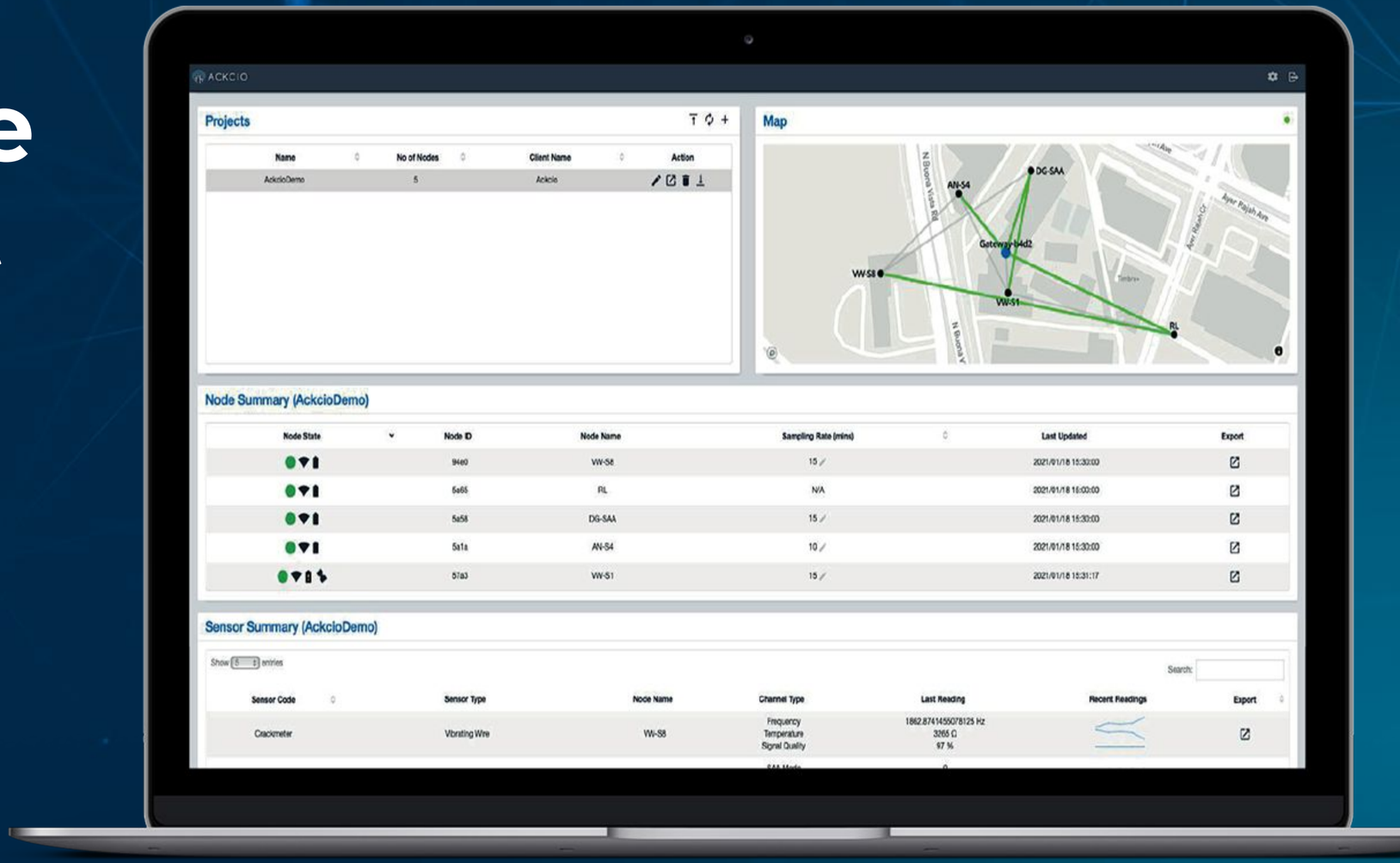
ACKCIO SNAPE BENEFITS

Data & Device Management

- Modern dashboard for easy management
- Companion Android application for easy setup
- Remote troubleshooting
  - Device activity status
  - Device health metrics
  - CSV data export



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ACKCIO SNAPE BENEFITS

Private & Secure Edge OS

Runs completely on the edge, providing 100% data privacy

Secure data push

- API integration with JWT and API key authentications
- FTP integration with implicit and explicit authorization

Authenticated remote access

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ACKCIO SNAPE BENEFITS

Compatible with leading data analytics platforms

Supported Data Analytics Software Platforms

sensemetrics

VISTA DATA VISION

BEEMETRY

Drishti

ENCARDIO RITE

iotailor

Geodaisy®

& more

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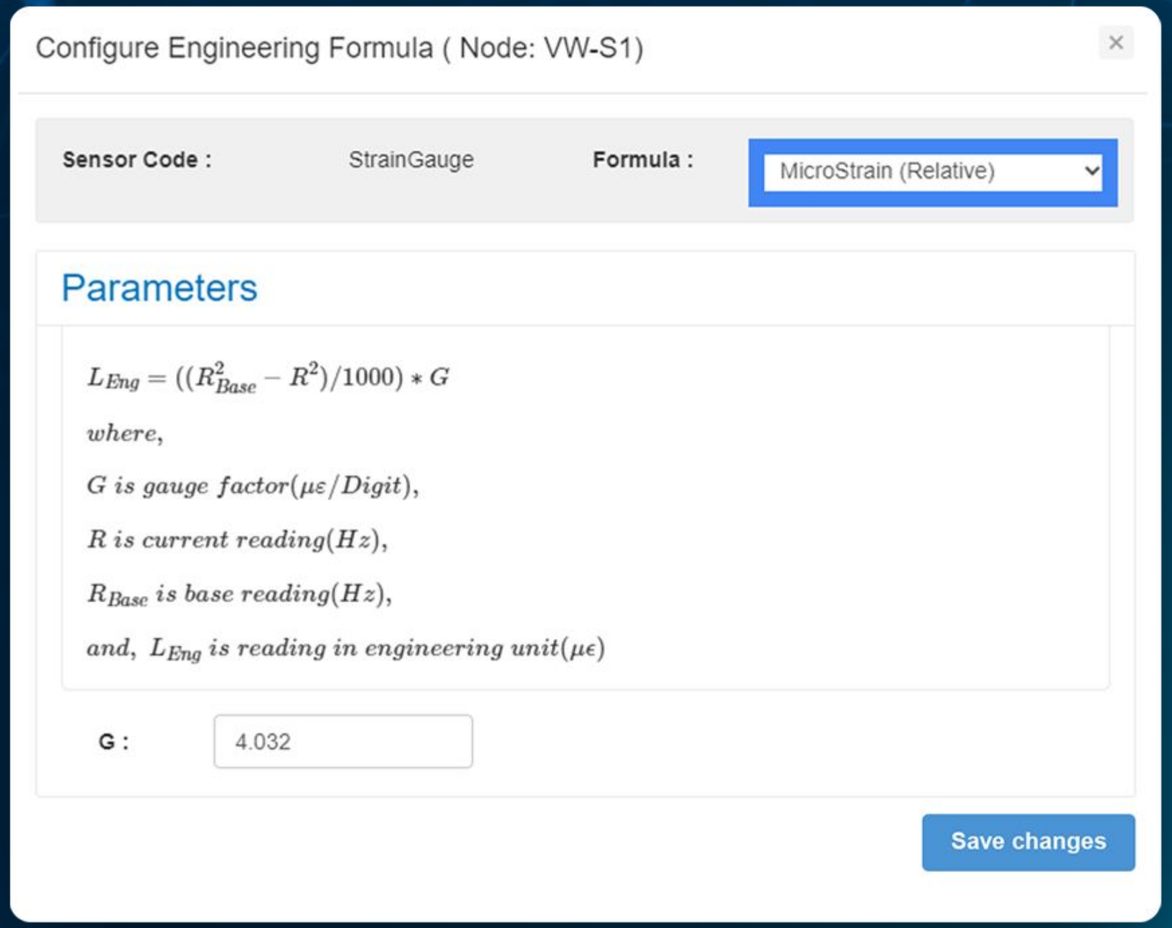
ACKCIO SNAPE BENEFITS

Data Processing

Real-time data processing on the edge

- Duplicate data detection
- Dynamic data transformation using engineering formulas
- Add virtual sensors



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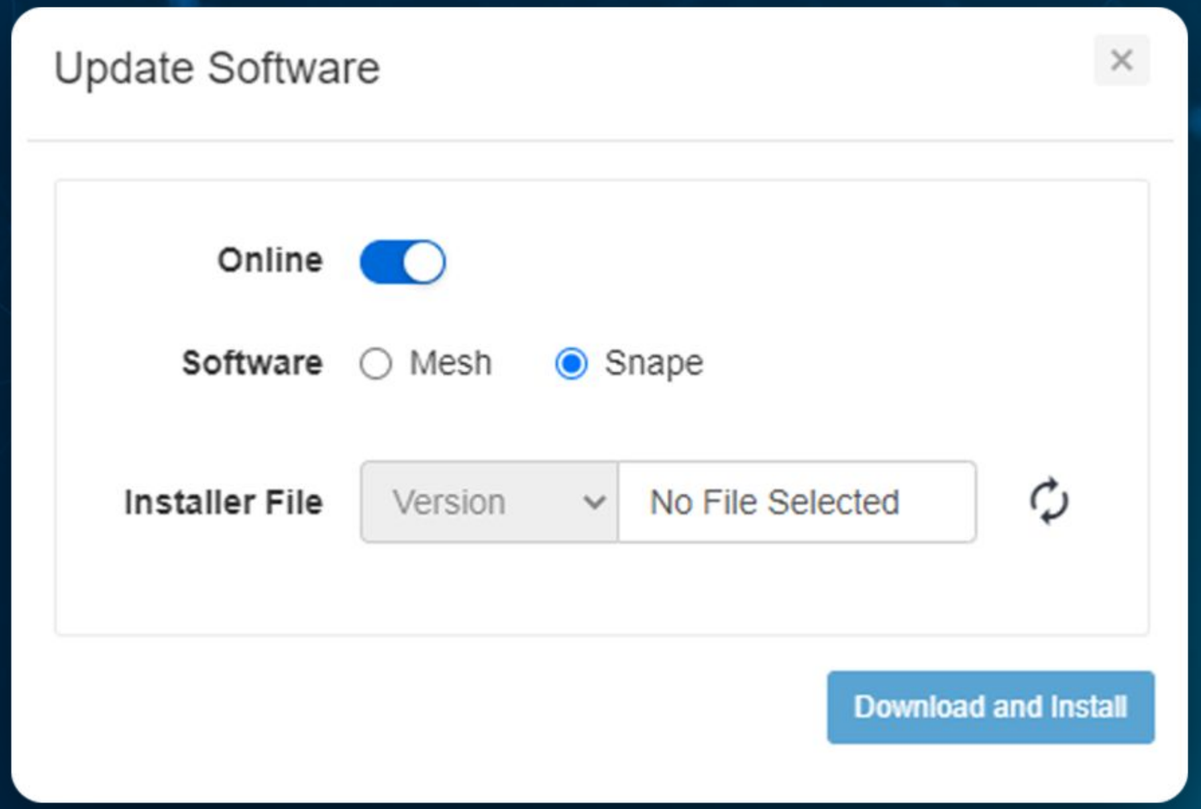
ACKCIO SNAPE BENEFITS

Over-the-air Updates

Keep software updated remotely by applying

- Patch bugs
- Apply optimizations
- Add new features



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DEMO

Ackcio’s Snape software provides you with real-time access to every data point collected from your projects, allowing you to make informed and collective decisions that manage risks and increase productivity and safety.

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Q&A

Mobashir Mohammad
Co-Founder
& Chief Technology Officer
ACKCIO

Arul Kumar
Software Technical Lead
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Minh Phung Quang
Software Architect
ACKCIO

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