



# Company Profile

**Thingslista Automation LLP**

Making IoT Simple

[www.thingslista.com/sales@thingslista.com](http://www.thingslista.com/sales@thingslista.com)

# Agenda

- About Us
- Meet our core team
- Service & Offerings
- About Thingslista Industrial IoT Platform
  - Architecture
  - Features
  - Components
  - Use cases
- Why us?
- Questions?



**Thingslista**  
Automation LLP

# About Us

Back in 2016, our founder had envisioned an unique IIoT platform to expedite IoT adoption in the industrial automation industry. Idea started flourishing within six months of brainstorming sessions with innovation team members. Soon after that, execution has been started with one mission in mind “Make IoT Simple, reliable and affordable to everyone”. Entire team have channelized founder's vision extremely well and implemented solid IACMM (Innovation around customers money making model) in short period of time.

## Meet our core team members

### Co-Founder(s)

- *Mrs. Dipti Panchani(B.E. E&C)* - Having 10+ years of experience in Software Industries
- *Mr. Nitin Hadiya (B.E.-EE)* - Having 6+ years of experience in the automation Industries

### Technology head

- *Mr. Nitin Khunt (B.E.-Electronics)* - Having 6+ years of experience in Automation Industries

### Sales & Marketing head

- *Mr. Dharmesh Panchani (MCA)* - Having 3+years of experience in Sales & Marketing.

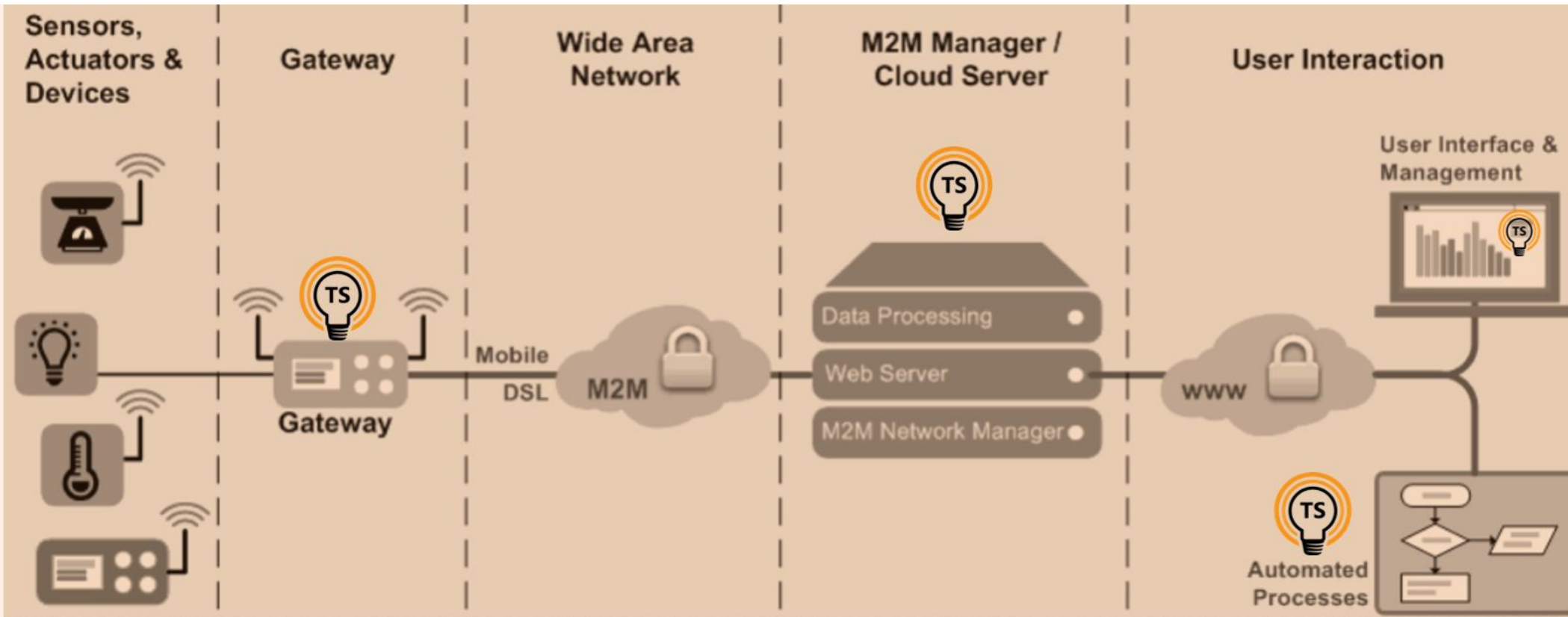
# Services and Offerings

01	Trading	<ul style="list-style-type: none"><li>• Industrial Automation Products like PLC, VFD, HMI</li><li>• IoT Gateways</li><li>• SCADA Systems</li></ul>
02	Panel Manufacturing	<ul style="list-style-type: none"><li>• VFD Panel</li><li>• Power Panel</li><li>• MCC Panel</li></ul>
03	PLC Programming	<ul style="list-style-type: none"><li>• Customization of existing PLC program</li><li>• SCADA/HMI designing</li><li>• PLC communication with external applications</li></ul>
04	Software Programming	<ul style="list-style-type: none"><li>• Industrial Protocol interface design and development</li><li>• Advanced report design and development</li><li>• Turn HMI into remote monitoring &amp; control application</li><li>• Complex dashboard design and development</li></ul>
05	IIoT Platform/ MIS	<ul style="list-style-type: none"><li>• Data Logging</li><li>• Edge analytics &amp; BI</li><li>• Alerts and Remote Control of your industrial setup</li></ul>

# Thingslista IIoT Platform - High Level Architecture

Thingslista IIoT Platform consists of mainly two component(s),

- **Gateway**
- **Server**



From data collection and processing, to storage and visualization, the Thingslista platform provides unlimited solutions in the industrial space. With advance Gateway you can apply the same powerful industrial-grade features at edge, whether you want to monitor energy, take control of instruments, manage a weather station, or simply track your device location from anywhere, We committed to help you turn great ideas into reality.

# Thingslista IIoT Platform - Features

## At Corporate/ Centralize server

- Remote monitoring and controlling of any machine/device
- Integration with any industrial IoT devices over MQTT protocol
- Secure data transfer
- Supports High/low-frequency data streaming
- Data persistence
  - Scheduled data Sync
  - Auto cleanup based on TTL policy
- Alarms & Alerts via email/SMS
- Advance report generator
- Realtime tracking of device position
- Customized PLC/Modbus IO connectors
- Cloud ready solution to handle any type of load
- Scalable cloud services for your data/IoT needs
- **Applications**
  - Energy, Vibration Monitoring
  - Home Automation
  - Remote HMI & SCADA
  - CFR compliant reporting

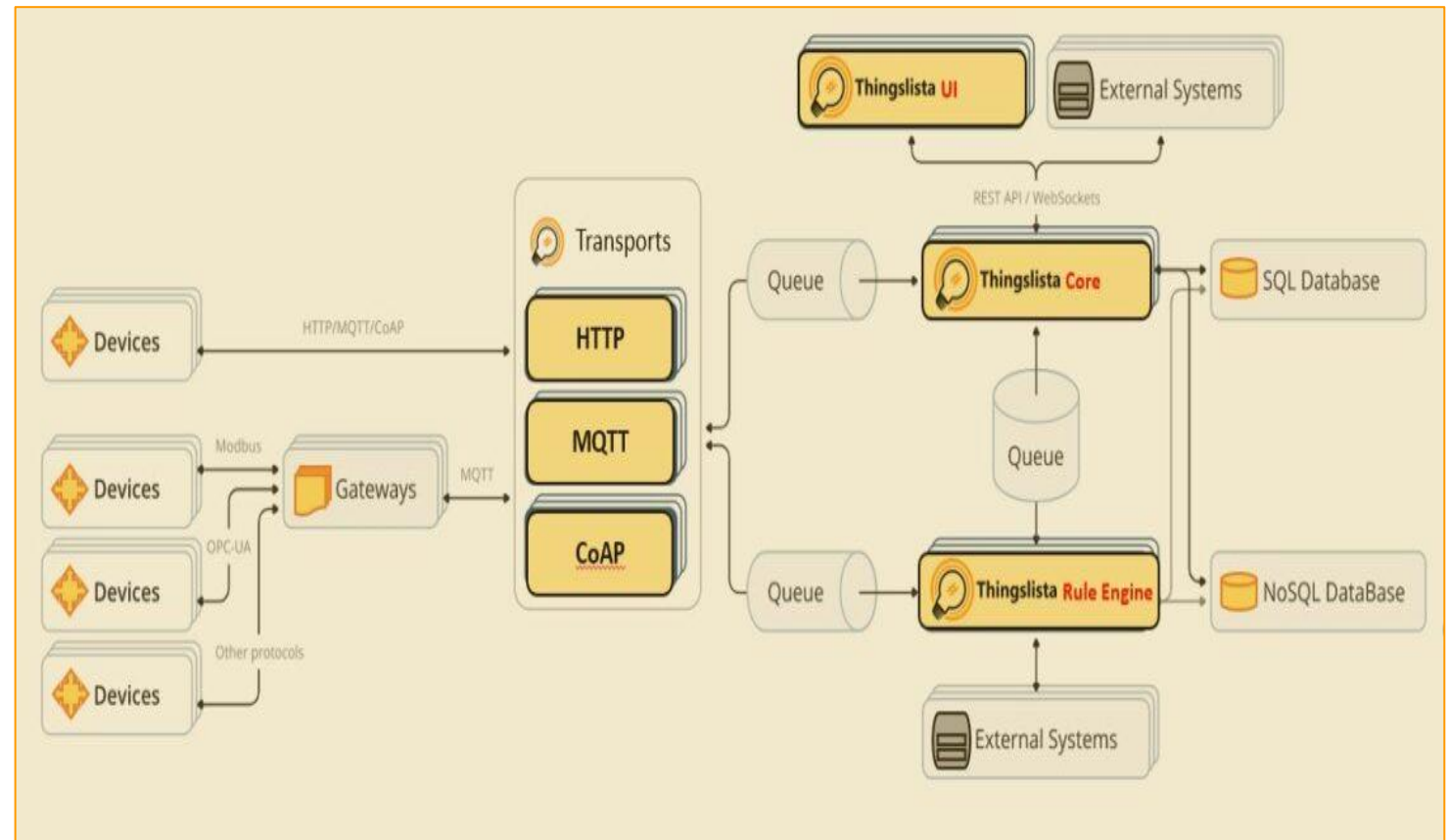
## At Edge

- Flexible firmware design and architecture
- Supports **parallel RS485** (Modbus Read/Write RTU) transactions
- Designed around Quectel EC25 is a series of LTE Cat 4 module
- 150Mbps downlink and 50Mbps uplink data rates
- GNSS receiver available for applications requiring fast and accurate GPS Positioning in any environment
- Standard JSON payload output
- Supports up to **800 tags** (Modbus registers) in total (over multiple transactions)
  - Supports up (Modbus Registers) per transaction (**Max Transaction 20**)
  - per transaction **40 tags**
- Limited data buffering on board to avoid data loss during failover
- Extensible data buffering using **micro SD card** for larger data buffering capabilities
- Robust failover handling.
- Auto reboot if required (no signal or connection fails repeatedly).
- Externalized configuration parameters
  - MQTT Broker URL/IP, Port no, Username & Password,
  - RS485 Baud rate for serial port (2400, 4800, 9600, 19200, 38400, 57600, 115200)
- Secure data transmission over SSL/TLS

# Thingslista IIoT Platform - Components

## Server Side Component

- Cloud ready
  - Scalable
  - Secure
- HTTP/MQTT enabled secure data transfer
- Device Management
- Dashboard Management
- Dashboard designer
- Analytics pipeline designer
- Advance Report Generation



# Thingslista IIoT Platform - Gateway Side Components

## Advance Gateway

- Secure Data Transport
- Data Logging (upto 32-GB | Extensible to 1-TB)
- Advance Report generation
- Email Alerts
- Offline Data Sync
- Web Interface
- Parallel data processing
- High frequency Data processing and handling
- Edge computing
- Robust data persistence store(0 data loss)
- Enabled with
  - Modbus-TCP/RS485/Basic IO

## Basic Gateway

- Low frequency data streaming
- Input Type
  - RS485
  - Modbus I/O
  - I/O With Relay
- Output Types
  - 2G/4G
  - WIFI


The screenshot displays the Thingslista web interface. At the top left is the Thingslista logo. On the right, there are notification, globe, and user icons, with the user identified as 'Thingslista admin'. A left sidebar contains navigation options: Home, Generate Report, PLC Connectors, and Application Logs. The main content area shows a report titled 'BATCH DATA REPORT - UNSCRAMBLER' for 'ALEMBIC PHARMACEUTICALS LIMITED FORMULATION-2, PANELAV'. The report includes metadata such as Author (Nirav Patel), Approver Name (Nirav Patel), Created Date (June 10, 2021, 12:47 p.m.), and Approval Date (June 10, 2021, 2:19 p.m.). It also shows Report Type (Batch Report (BU)), Page 1 of 12, and Status (Approved). A 'Download' button is present. The report details include Equipment Name (Automatic Tablet/Capsule Counting Line With Labeling Machine), Equipment ID (TO/PK/ACM-001), Product Name (qwertyuiop), Batch No. (Batch003), Batch Size (Nos.): 456789, and Machine Name (Unscrambler). It also lists Report Generated By (NiravPatel), Report Generated Date & Time (10/06/21 12:47:50), Batch Start Date & Time (16/12/20 15:38:01), Batch Start By (Eng1), Batch Stop Date & Time (16/12/20 15:47:12), and Batch Stop By (Eng1). At the bottom, a table lists parameters and their set values.

Parameters	Ionizer air Filter Inlet pressure set point (Bar)	In feed belt motor VFD speed (Hz)	Hopper Motor VFD speed (Hz)	Main Belt motor VFD Speed (Hz)	Rejection solenoid ON time (mSec)	Fallen Bottle rejection count (Nos.)
Set Value	6	15	15	40	300	180




# Thingslista IIoT Platform - Use Cases


## Energy Monitoring & Control



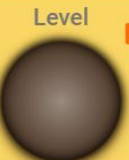
Motor 1




Motor 2



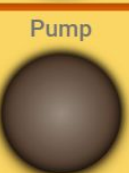
Door




Level



Genset



Pump

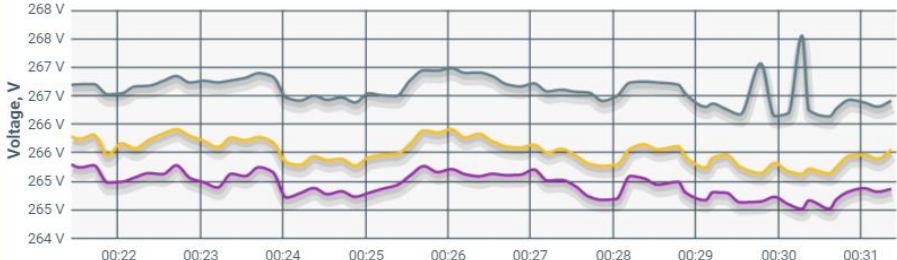


### Energy Monitoring & Control

#### Voltage (Avg)

Realtime - last 10 minutes


avg	Voltage A-N	Voltage B-N	Voltage C-N
	265.53 V	266.61 V	264.94 V




#### Current (Amp)

Realtime - last 15 minutes

avg	Current A	Current B 2	Current C
	0 A	0 A	0 A




#### Temperature




0 1528

#### Pressure



09069

#### Speed



05939

#### Power

ACTIVE  
0.00

WATT

#### Power

APPARENT  
49.00

VA

#### NEUTRAL VOLTAGE

265.61

v

#### VOLTAGE

460.80

V

#### FREQUENCY

49.97

HZ

#### ACTIVE ENERGY

450.00

WH

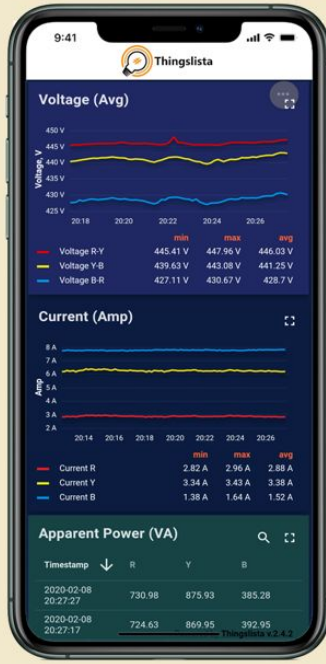
#### Factor (AVG)

0.00

#### CURRENT

0.00

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# Thingslista IIoT Platform - Use Cases

## Water Treatment Plant Monitoring & Control

**Water Treatment Plant**
⌵

Wash Liquor Pump

HCL Dosing Pump

Filtrate Transfer Pump

Filter Press Feed Pump

Transfer Pump

Auto Cycle Status

DC

EC Feed Pump

CIP Pump

Hydraulic Pump

**ACTIVE POWER**

18.82 WATT

**Power Factor**

0.97

**Freq(Hz)**

49.50

HOME ⚙
ALARMS ⚙
I/O Summary ⚙
SETTING ⚙
HISTORY ⚙
DateTime

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# Thingslista IIoT Platform - Use Cases

## Batching Monitoring & Control

Batching Monitoring & Control

BIN 1	BIN 2	BIN 3	BIN 4
SET 201.00	SET 202.00	SET 203.00	SET 204.00
ACT 205.00	ACT 206.00	ACT 207.00	ACT 208.00

HOPPER WEIGHT	144.10
---------------	--------

SET 209.00	SET 210.00
ACT 212.00	ACT 210.00

HOPPER BATCH	2.00
--------------	------

AGGREGATE CONV WEIGHT	745.66
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CONVEYOR BATCH	1.00
----------------	------

SET LTR	211.00
ACT LTR	5.09

WATER PUMP 1	
--------------	--

PAN_1_BATCH	3.00
-------------	------

Resettable Counter	
Bin1 Weight	203.00 kg
Bin2 Weight	203.20 kg
Bin3 Weight	203.40 kg
Bin4 Weight	204.00 kg
Cement Weight	208.00 kg
Water Weight	10.18 Ltr
Flyash Weight	210.00 kg

Lifetime Counters	
Bin1 Act Weight	205.00 kg
Bin2 Act Weight	206.00 kg
Bin3 Act Weight	207.00 kg
Bin4 Act Weight	208.00 kg
Cement Act Weight	213.00 kg
Water Act Weight	5.09 Ltr
Flyash Weight	210.00 kg

Hydraulic Power	
Flyash Charge Vibrator	
Bin1 Conveyor	
Air Compressor	
Bin2 Conveyor	

Water pump2	
Cement Charge PB	
Emergency Stop	
Weighing Conveyor PB	
Water Pump	

Date &Time

20/06/2021 13:15:51

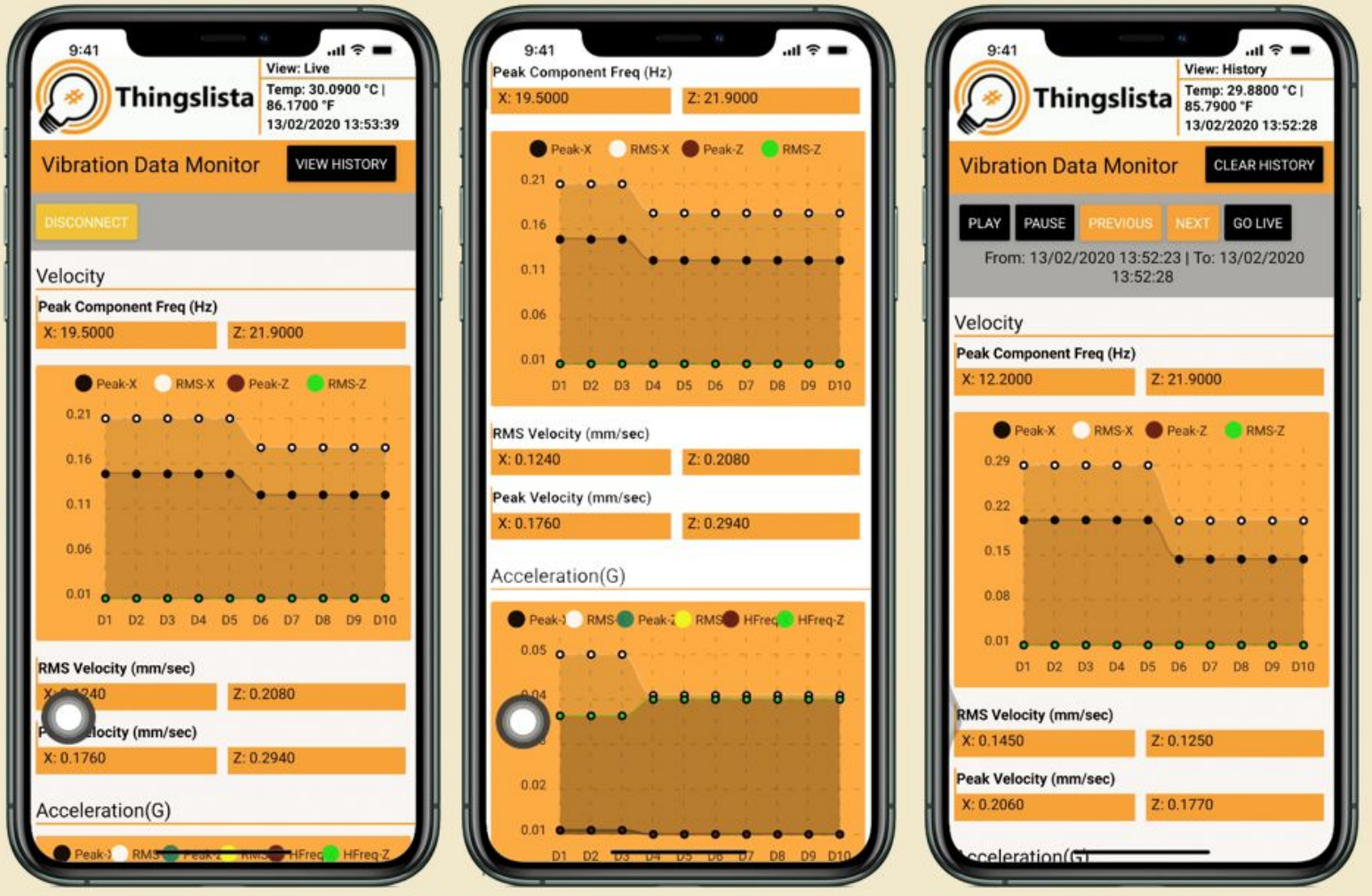
History

I/O Summary

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# Thingslista IIoT Platform - Use Cases

## Vibration Monitoring Toolkit



## Why Us?

- Vast experience in Industrial Automation
- Successfully implemented/executed more than 50 solutions in various industries
- Solid core team having 25+ years to consolidated experience in Industry Automation and Enterprise Software Development
- Well established process in both Automation and Software vertical
- Inhouse hardware, software and automation development teams
- Best in class, cost effective & reliable automation/IIoT solution provider
- Easy to maintain and customizable solution provider
- Great after sales supports
- Not a single unhappy customer till date

# Thank You For your Patience Question?

