

The logo for PowerSide, featuring the word "POWERSIDE" in a white, sans-serif font. The letter "O" is replaced by a circular icon with horizontal lines. A small "TM" trademark symbol is located to the right of the word.

POWERSIDE™

## Qubescan Premium

New features help users do even more with  
PQ Edge® and PQube® 3 power quality analyzers

QubeScan Monitoring Software

# Central, Secure Access to Your Powerside Power Analyzer Fleet

QubeScan maximizes the value of power quality monitoring across your enterprise. This intelligent, secure AWS cloud platform gives you immediate, remote visibility into comprehensive power quality data from all your PQ Edge® and PQube® 3 analyzers. Watch over your system 24/7 — even from your mobile device. Quickly share information between stakeholders without composing multiple emails and reports. Work more efficiently and make decisions with precision. We offer two plans to meet the level of functionality you need: Choose from a free version of QubeScan, or the enhanced QubeScan Premium for a nominal annual subscription.



# Choose the QubeScan That Meets Your Needs

We offer two options to accommodate enterprises of all sizes and requirements. Fleet owners looking for access to historical data as well as quick, customized report generation and fleet management capabilities will benefit from QubeScan Premium. See how the two plans compare.

## QubeScan

**The fleet visibility and reporting you need in a free version of the software:**

- ✓ Automatic data collection and analysis
- ✓ Three months of scrollable history
- ✓ Fleet overview and measurement point dashboards
- ✓ Data visualization of power quality and consumption trends
- ✓ Trend alerts
- ✓ Event logging via keynotes

## QubeScan Premium

**An enhanced, subscription-based version of QubeScan with additional features:**

- ✓ Unlimited data storage for historical analysis
- ✓ Automated reporting on user-defined schedules
- ✓ **New** IEEE 519 harmonic compliance reports
- ✓ **New** EN50160 power quality compliance reports
- ✓ **New** Customized event notifications routing by location, event type or recipient list
- ✓ Automated firmware upgrades fleetwide or for custom selections
- ✓ APIs for integration with existing business systems

# Fleet Management

Qubescan basic

The screenshot displays the Powerside Fleet Management interface. At the top, the Powerside logo is on the left, and the user's current selection, 'QubeScan Demo Fleet - Alameda, California | ACME Energy Site California | (PDT)', is shown in the center. A 'Change Selection' button is to the right. Below the header, there are two tabs: 'FLEET OVERVIEW' (selected) and 'MAP OVERVIEW'. A search bar and a 'State' dropdown menu are located below the tabs. The main content area is divided into three sections, each representing a different fleet or site:

- POWERSIDE\_lino\_cortese (2)**: Contains two rows of data for 'Lino Cortese - Office 1' and 'Lino Cortese - Office 3'.
- VFD Monitoring LLC (1)**: Contains one row of data for 'DriveScan Demo'.
- QubeScan Demo Fleet (4)**: Contains four rows of data for 'California', 'Montreal', 'Toronto', and 'Montreal Production'.

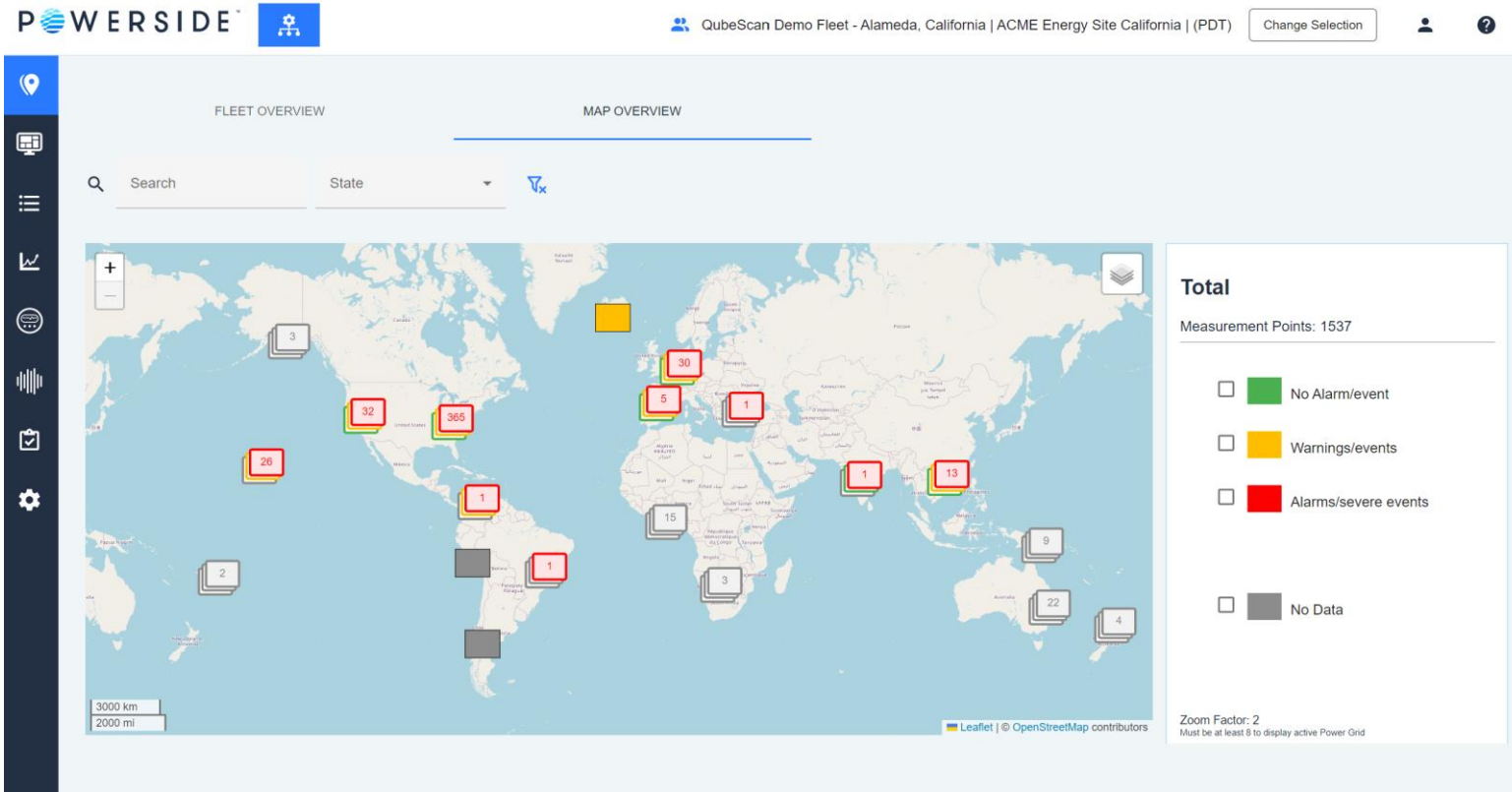
SITE	MEASUREMENT POINT	STATE	PENDING ALARMS	ONLINE	STATUS
<b>POWERSIDE_lino_cortese (2)</b>					
Lino Cortese - Office 1	PQube3_P3021318	Commissioned			
Lino Cortese - Office 3	PQ_Edge_P3400035	Pending Installation			
<b>VFD Monitoring LLC (1)</b>					
DriveScan Demo	DriveScan Demo	Commissioned			
<b>QubeScan Demo Fleet (4)</b>					
California	ACME Energy Site California	Commissioned			
Montreal	ACME Energy Site Montreal	Commissioned			
Toronto	ACME Energy Site Toronto	Commissioned			
Montreal Production	Main Service (Edge)	Commissioned			

Manage your fleet & measurement points.

Identify the devices that are currently active, their status, and any pending alarms.

# Fleet Management – map view

Qubescan basic




Manage your fleet & measurement points.

Your plants, critical infrastructures, and machines are accessible at a glance.

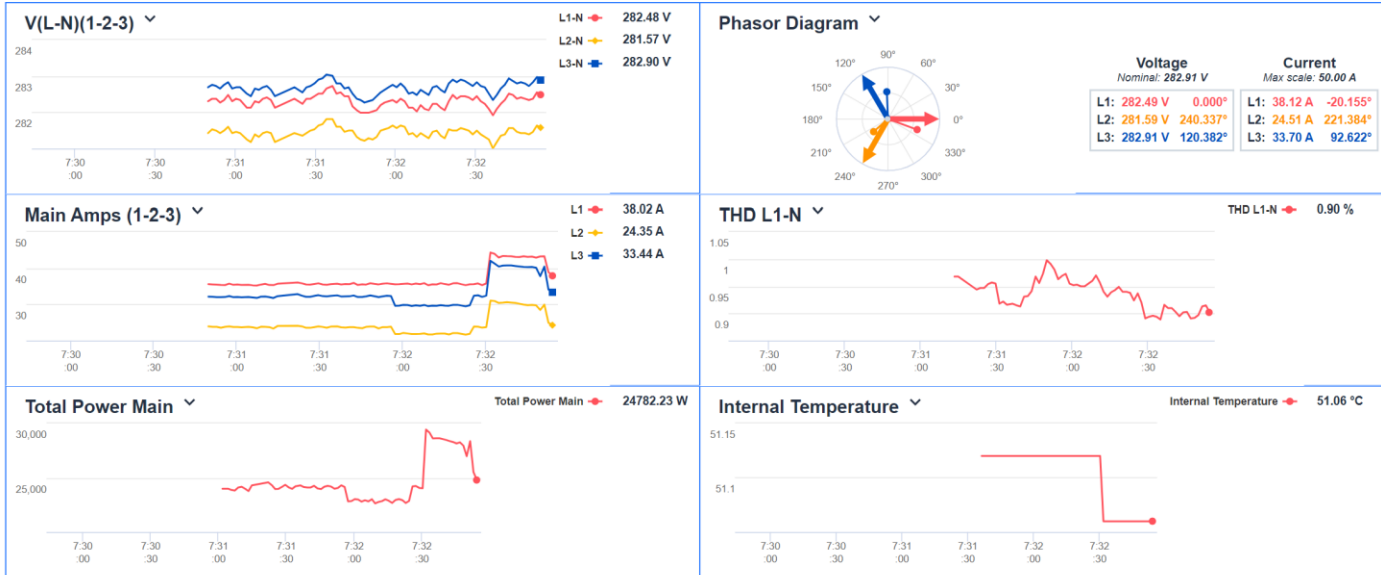
# Live Meters

Qubescan basic

Live Meters 9 April 2024 07:32 :56 PDT

Layout 

QubeScan Demo Fleet - Alameda, California | ACME Energy Site California | (PDT)




Adjust all the parameters and customize your live view with up to 6 screens.

- Voltages, currents, powers
- Harmonics / interharmonics
- Environment
- Phasors
















# Events list

Qubescan basic

## EVENTS LIST

Nature  Type  Severity  

April 2024  
< y m w d > 

Date ↓	Type	Description	Labels	Severity	Graph	Action
8 April 2024 12:00:27 .962	Snapshot					
8 April 2024 10:04:33 .085	Probe A Seismic					
7 April 2024 12:00:26 .577	Snapshot					
6 April 2024 12:00:25 .356	Snapshot					
5 April 2024 16:15:37 .205	Rapid Voltage Change	[Magnitude 8.68%] [Duration 58 ms]				
5 April 2024 12:00:24 .387	Snapshot					
5 April 2024 11:22:33 .342	Snapshot					
5 April 2024 11:20:00 .000	L1	> 5 A for >10 minutes - Alarm				
5 April 2024 11:19:45 .000	Restart	Firmware update				
4 April 2024 13:01:34 .446	Snapshot					
4 April 2024 12:07:44 .243	Probe A Seismic					
4 April 2024 12:02:48 .214	Probe A Seismic					

A list of events with improved filters and a summary of details.

# Event details

Qubescan basic

**POWERSIDE** QubeScan Demo Fleet - Alameda, California | ACME Energy Site California | (PDT) Change Selection

### EVENT GRAPH

**Voltage Sag**  
Alameda, California, United States  
ACME Energy Site California

**Event Magnitude**  
88.74%

**Event Duration**  
42 ms

**Trigger Date**  
12 March 2024

**Trigger Time**  
18:59:51.154

**Modify Event Origin:**  
 Source  
 Load

**Event Origin**  
Source  
Confidence High

**Event Labels**  
No labels added

**Comments**  
No comments added

Display as GIF

**L-L Voltage(V)**  
500 V  
250 V  
0 V  
18:59:51 +2.000s +4.000s +6.000s

**L-L Voltage**  
750 V  
0 V  
-750 V  
18:59:51 +0.050s +0.100s +0.150s +0.200s

**L-N Voltage(V)**  
500 V  
250 V  
0 V  
18:59:51 +2.000s +4.000s +6.000s

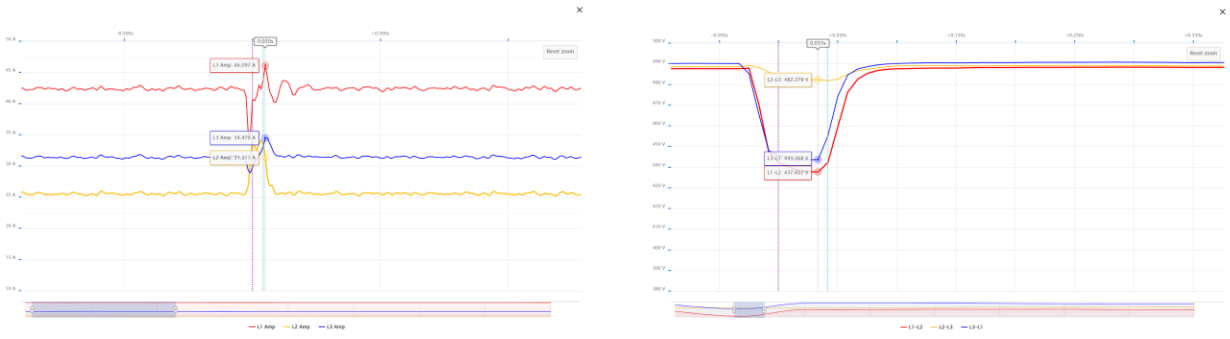
**L-N Voltage**  
500 V  
0 V  
-500 V  
18:59:51 +0.050s +0.100s +0.150s +0.200s

**Neutral Voltage(V)**  
1 V  
0.5 V  
0 V  
18:59:51 +2.000s +4.000s +6.000s

**Neutral Voltage**  
1 V  
0 V  
-1 V  
18:59:51 +0.050s +0.100s +0.150s +0.200s

RMS values and waveforms available in a click.

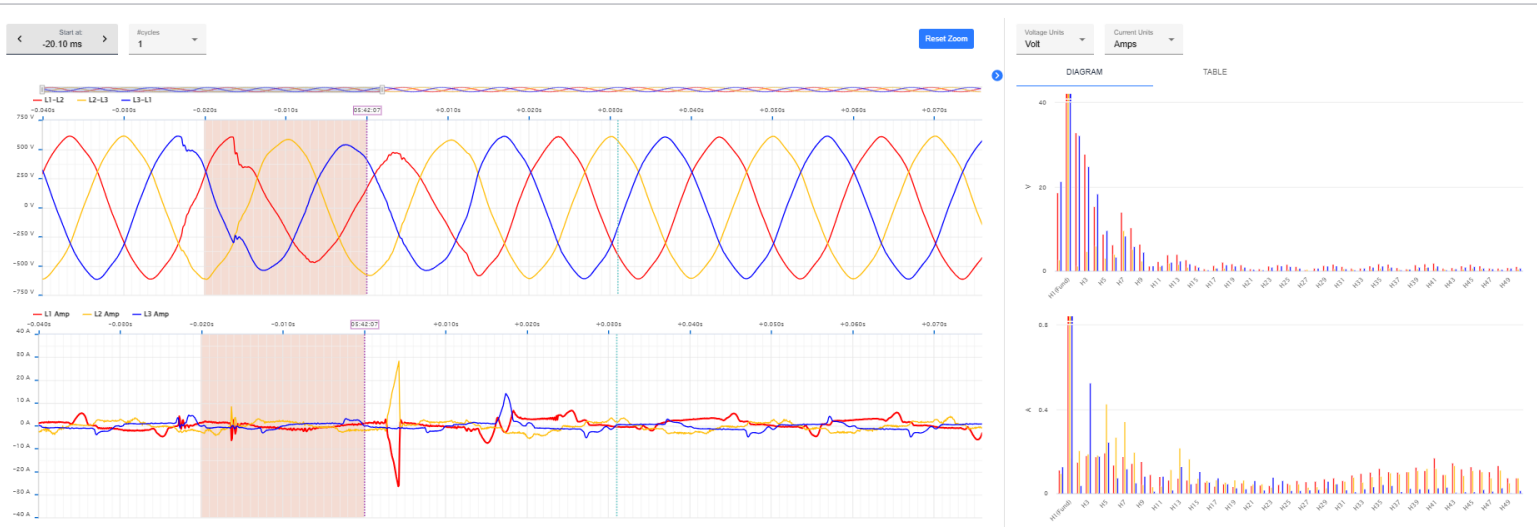
.csv and .gif files can be easily exported for a further post-analysis





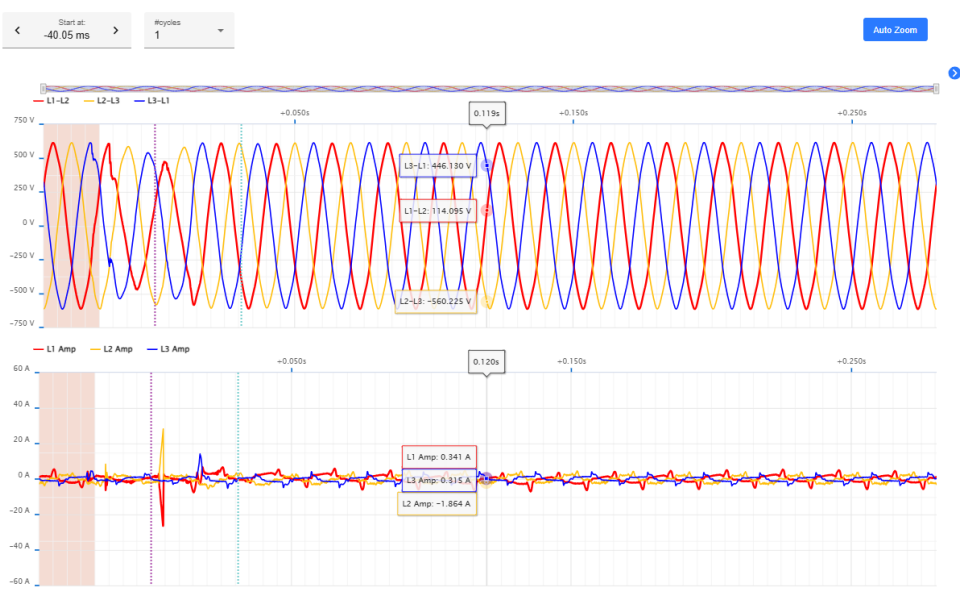
# Event details – new FFT feature

Premium



Waveshape Fft analysis on a customized time slot (1-2-4-8-16 cycles) and specific cycle.

Charts referred to Volt, %H1 or %Vnom (Amps or %IL).



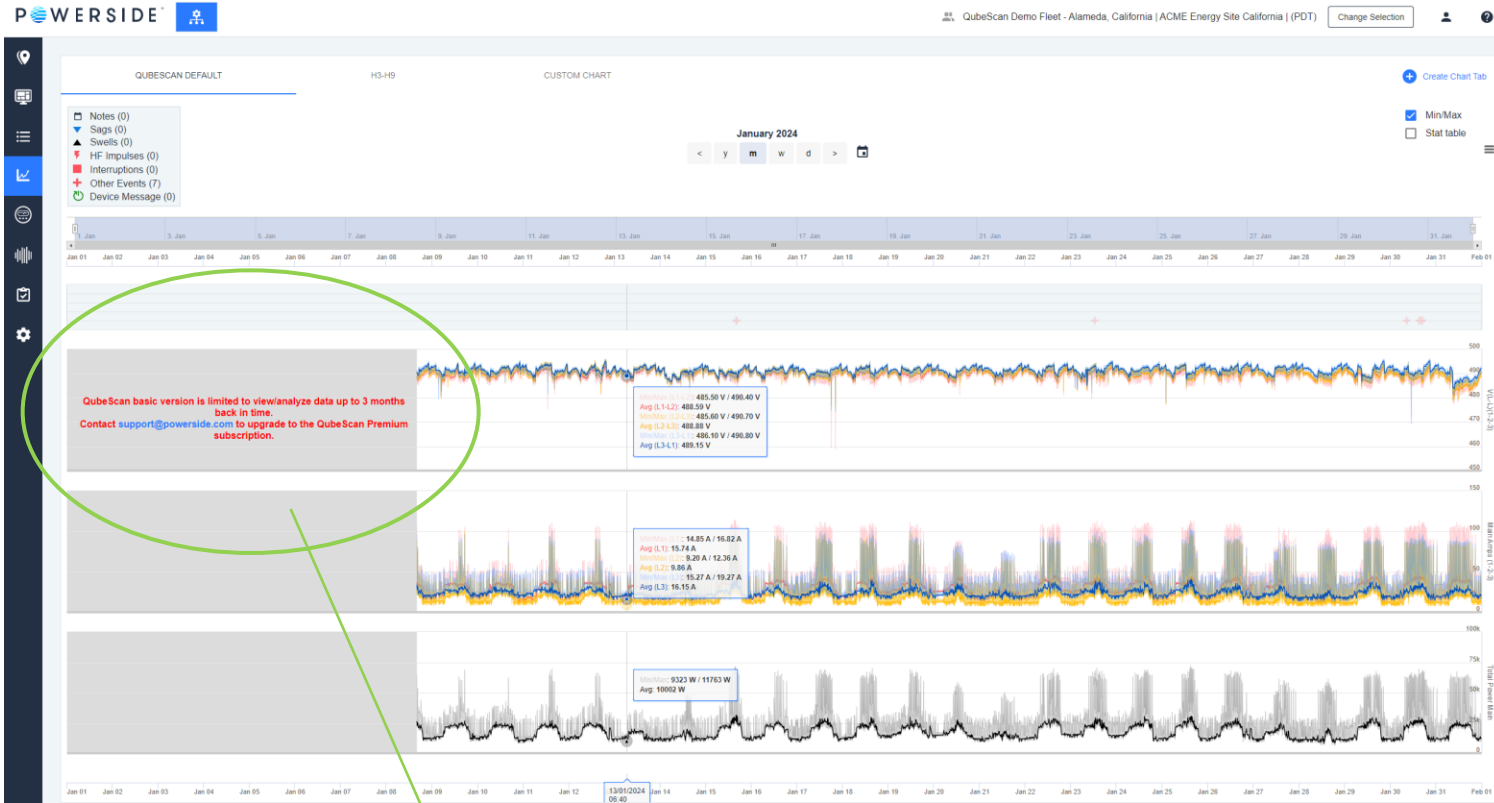
Harmonics	V-1 (V)	V-2 (V)	V-3 (V)	I-1 (A)	I-2 (A)	I-3 (A)
H0(DC)	0.332	1.265	1.597	0.073	0.038	0.089
H1(Fund)	422.109	421.082	419.798	1.700	1.654	1.245
H2	2.436	2.170	4.190	0.179	0.002	0.146
H3	2.450	1.532	3.611	0.608	0.126	0.589
H4	3.387	0.735	3.759	0.130	0.033	0.246
H5	5.618	7.376	9.767	0.685	0.412	0.320
H6	3.718	1.342	5.010	0.013	0.004	0.300
H7	8.194	4.169	8.201	0.439	0.177	0.147
H8	2.676	1.226	3.687	0.094	0.016	0.267
H9	2.081	1.325	3.059	0.270	0.269	0.163
H10	1.457	1.214	2.155	0.107	0.036	0.172
H11	1.162	1.398	1.812	0.258	0.121	0.219
H12	0.230	1.139	1.238	0.067	0.013	0.072
H13	0.184	0.981	1.165	0.166	0.194	0.203
H14	0.471	0.888	1.325	0.044	0.033	0.026
H15	0.603	0.657	1.240	0.076	0.040	0.108
H16	0.518	0.596	1.112	0.031	0.020	0.042
H17	0.269	0.429	0.378	0.071	0.072	0.068
H18	0.214	0.342	0.511	0.010	0.003	0.035
H19	0.187	0.474	0.397	0.086	0.034	0.119
H20	0.153	0.157	0.177	0.021	0.014	0.012
H21	0.374	0.181	0.289	0.050	0.054	0.084
H22	0.325	0.191	0.486	0.010	0.013	0.012
H23	0.185	0.176	0.358	0.030	0.015	0.031
H24	0.191	0.176	0.366	0.020	0.006	0.032

FFT available as a table with magnitude and phase for each single harmonic.

Even more data for your further post analysis

# Charts

Qubescan basic



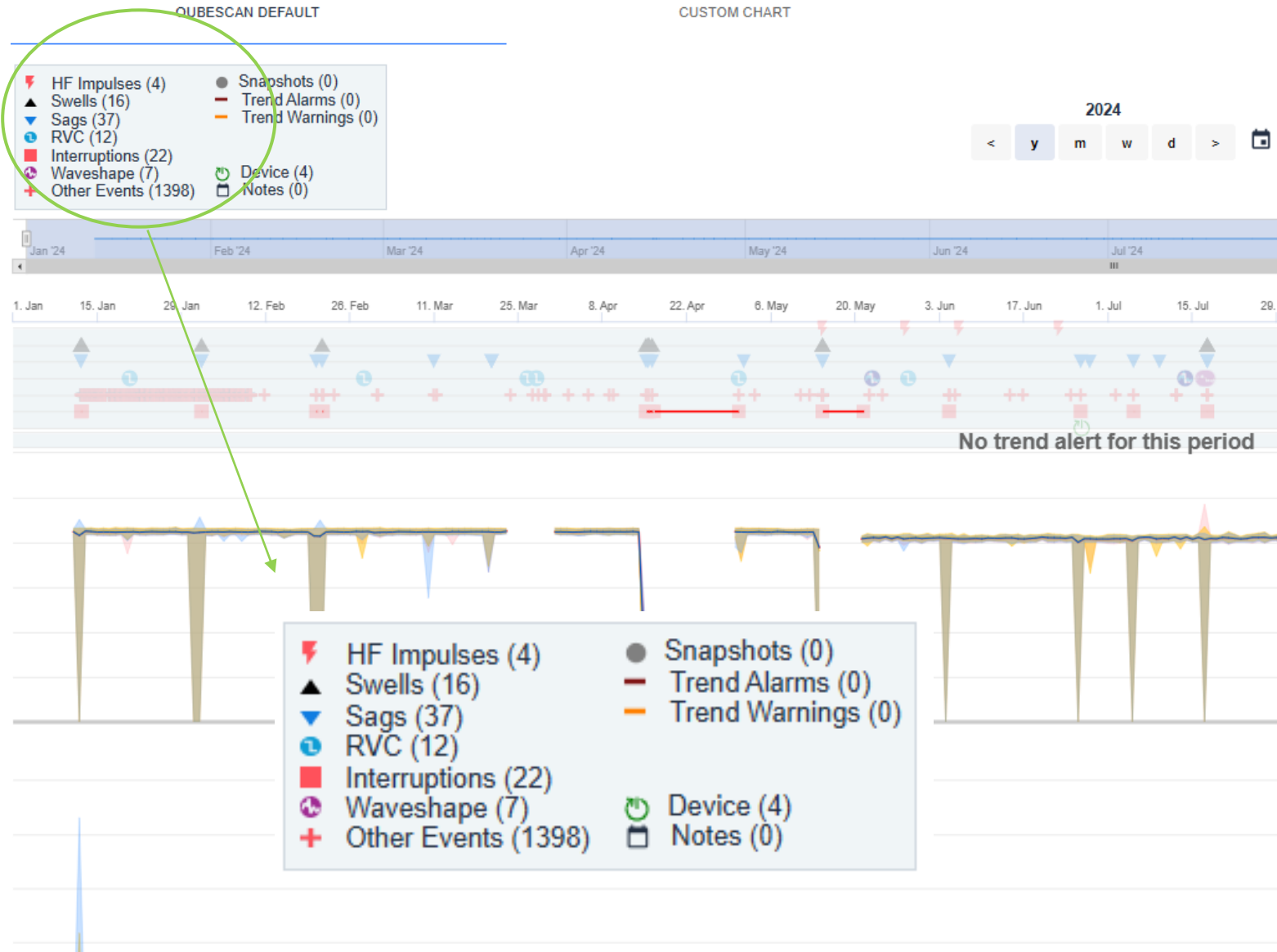
QubeScan Basic restricts data visibility to the most recent 3 months, but data is stored and available when the account becomes Premium.

The premium version gives you unlimited access to the whole backed up data.

**QubeScan basic version is limited to view/analyze data up to 3 months back in time. Contact [support@powerside.com](mailto:support@powerside.com) to upgrade to the QubeScan Premium subscription.**

# Charts

Qubescan basic



A vast range of events, trend alarms, device operations (reboot, firmware update), snapshots is indicated in the charts and easy to find.

Assess the severity of your power quality problems in just a few seconds. View up to a year's worth of data.

# Custom Charts

Qubescan basic



Ultra customizable charts can be used for troubleshooting:

Observe events and trends alerts in a wide time frame helps in finding power quality issues and fix them.

# Energy consumption

Qubescan basic



Energy logs with enhanced features and different time frames are available.

# Compliance reporting

Premium

The screenshot shows the Powerside REPORT CENTER interface. On the left, there is a sidebar with navigation icons. The main area is titled 'REPORT CENTER' and has tabs for 'PAST REPORTS', 'CREATE REPORT', and 'SCHEDULES'. A dropdown menu is open under 'Template', showing options like 'EN 50160 Report', 'IEEE 519 Report', 'IEEE 519 2014', 'IEEE 519 2022', 'EN 50160 Report', 'Power Quality Report', and 'Voltage Compliance Report'. The 'EN 50160 Report' is selected. Below the menu, there are fields for 'Start date' and 'Information'. The main content area shows a table of reports with columns: Date Generated, Recurrence (Range), Template, Status, Information, and Actions. The table lists various reports generated between 10/01/2024 00:00 and 10/04/2024 23:59, all with a status of 'Not Compliant'.

Fully automatic compliance reporting according to:

- EN 50160
- IEEE 519
- Powerside PQ report

This thumbnail shows the top part of a 'Power Quality Report'. It features a large blue graphic on the left and the title 'Power Quality Report' in bold. Below the title, there is a 'Fail' status indicator and a subtitle: 'Characteristics of the Voltage and Current at a Network User's Supply Terminal'. At the bottom, it lists the account 'POWERSIDE\_ino\_cortese' and the site 'Site Measurement Point: PQube3\_P3021318'.

This thumbnail shows the 'Summary of Results' section of a report. It includes a 'Power Quality Report' header with a date range of 'Period: 2024-04-04 00:00 to 2024-04-07 00:00'. Below this, there are two tables: 'Weekly Data PQ Parameters' and 'Weekly Data PQ Parameters'. The tables list various parameters like Voltage Unbalance, Voltage Fluctuation, Voltage Flicker, Voltage Dip, Voltage Sag, Voltage Swell, Voltage Interruption, Voltage Recovery, Voltage Recovery Time, Voltage Recovery Time Constant, Voltage Recovery Time Constant (min), Voltage Recovery Time Constant (max), Voltage Recovery Time Constant (avg), Voltage Recovery Time Constant (std), Voltage Recovery Time Constant (min), Voltage Recovery Time Constant (max), Voltage Recovery Time Constant (avg), and Voltage Recovery Time Constant (std). The 'Additional Information Table' is also visible at the bottom.



This thumbnail shows the 'Voltage Harmonics' section of a report. It includes a 'Voltage Harmonics' header with a date range of 'Period: 2024-04-04 00:00 to 2024-04-07 00:00'. Below this, there is a table with columns: Order, %THD, Phase 1 THD (%), Phase 2 THD (%), Phase 3 THD (%), and Report. The table lists various harmonic orders from 2 to 50. To the right of the table, there is a bar chart titled 'Voltage Harmonics' showing the percentage of total harmonic distortion for each order.



This thumbnail shows the 'Power Quality Report' section of a report. It includes a 'Power Quality Report' header with a date range of 'Period: 2024-04-04 00:00 to 2024-04-07 00:00'. Below this, there is a table with columns: Order, %THD, Phase 1 THD (%), Phase 2 THD (%), Phase 3 THD (%), and Report. The table lists various harmonic orders from 2 to 50. To the right of the table, there is a bar chart titled 'Voltage Harmonics' showing the percentage of total harmonic distortion for each order.

Make them recurring or on-demand.  
More standards being implemented.

# Trend alerts


Premium

POWERSIDE™  

POWERSIDE\_lino\_cortese | Lino Cortese - Office 1 | PQube3\_P3021318 | (CEST) Change Selection  

### MAINTENANCE

TREND ALERTS    DEVICE ACCESS    DEVICE CONFIGURATION

Include Disabled [+ Create Trend Alert](#) 

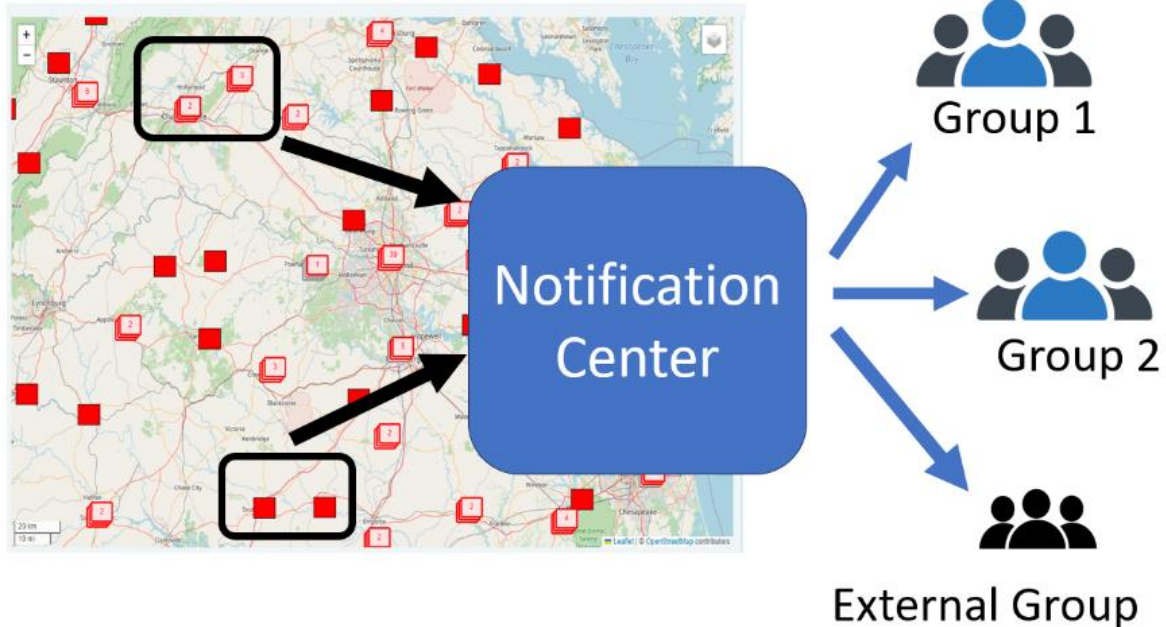
Parameter	Alarm Low	Warning Low	Warning High	Alarm High	Min. sustain time (mins)	Alarm Disabled
Real Power L1			100		1	<input type="checkbox"/>
THD L1-N			5		10	<input type="checkbox"/>
ENV_A Temperature			45		10	<input type="checkbox"/>
L1 TDD			20		10	<input type="checkbox"/>

Save

For more flexibility on alarming on things like imbalance, harmonics, THD, PF, Powers, Environment etc.

Trend alerts are also visible in the charts as they were events.

# Notification center



## Premium

As a Premium feature, the Notification Center offers the flexibility in defining how QubeScan will send notifications to recipient email inboxes. You can now define the following conditions:

1. Which groups of Measurement Points (MP) are selected for a notification.

This can be useful if you need to exclude a part of the fleet for notifications, or if you want to assign subsets of the fleet with distinct triggering conditions.

2. Who receives a notification:

You can define which QubeScan members in your company receive a given notification.

You can also send the notification to an external contact (not member of QubeScan). In this case, the recipient does not receive a link to access the details in QubeScan.

3. What condition triggers a notification: This can be a mix of:



- A device triggered event (like a sag, an HF impulse ... )
- A cloud-initiated trend alert (e.g. sustained condition in time , based on long term trending



# Firmware Update

Premium

POWERSIDE 

POWERSIDE\_lino\_cortese - Bassano del Grappa, Veneto | PQube3\_P3021318 | (CEST) Change Selection  

## MAINTENANCE

TREND ALERTS

DEVICE ACCESS

DEVICE CONFIGURATION

### Actions:

Reset Energy Accumulators

Reset Peak Accumulators

Generate Snapshot

Generate Daily Trends

Firmware Update

### Cosmetic:

Screen Logo (splash.gif) 320x240

Web/Graph Logo (location.gif)  
128x96

### Diagnostic:

Download Diagnostic Files

Download Log File

Email Out Test

### Advanced:

Restart Device


Clear Device Memory

### Information:

Serial Number: P3021318 Copy to Clipboard

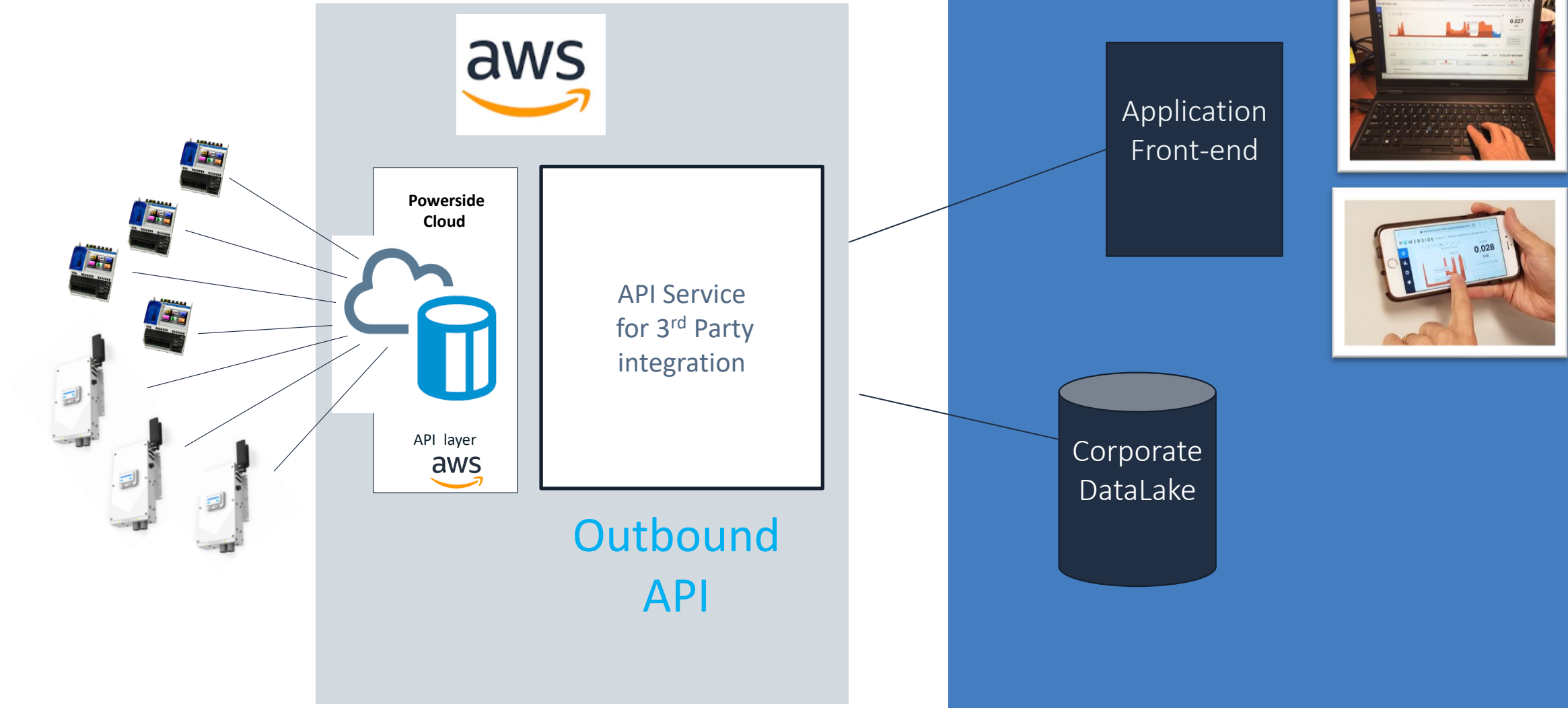
Firmware version: 3.10.6.24.02.01

Last Communication: 10/04/2024 18:13 (CEST)

 Activity History

Setup automatic or manual firmware update for single device, the entire fleet or a group of them.

# API Interface

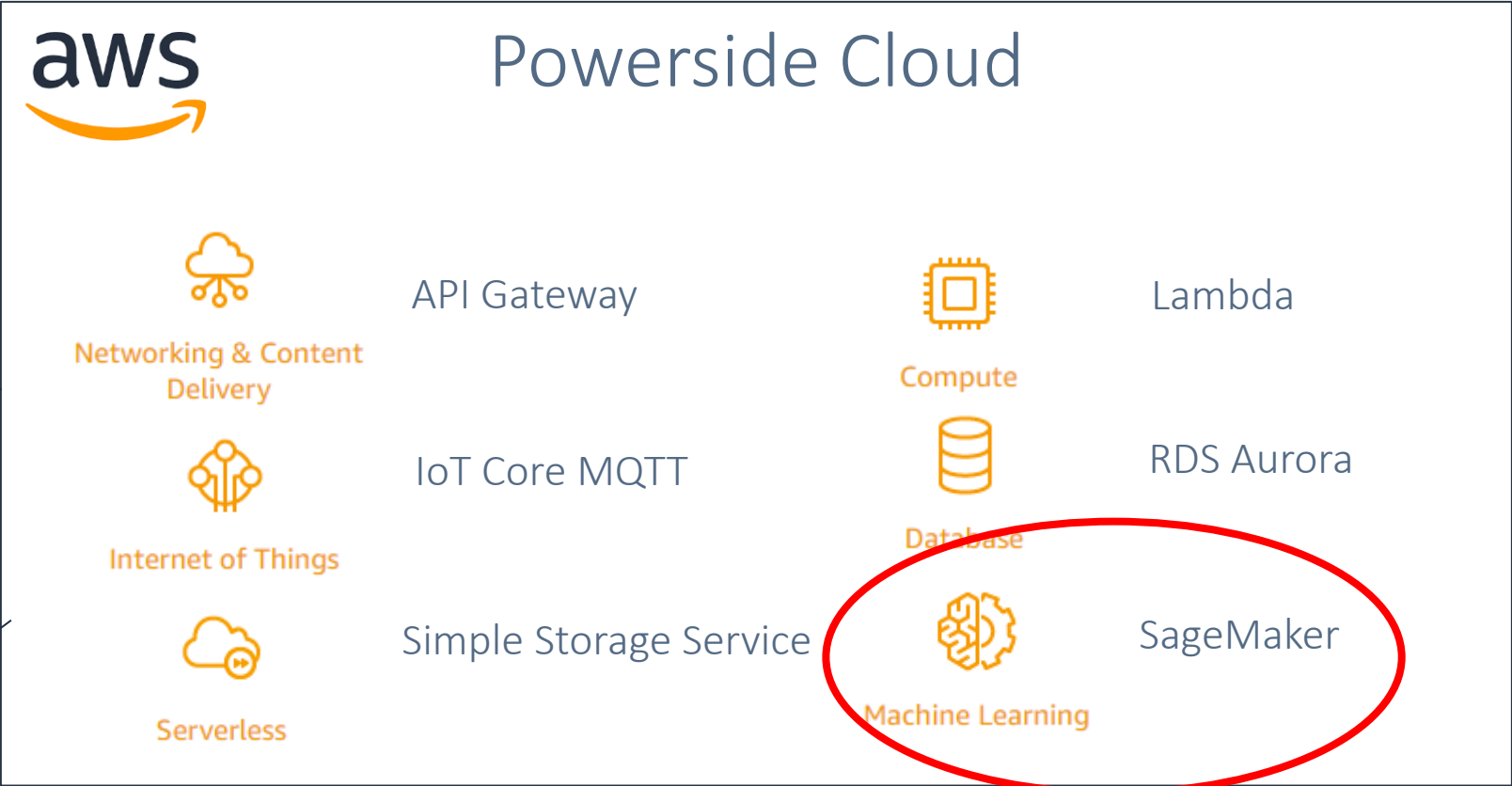


# Powerside Cloud Components

Web Application



Mobile Application



# Media

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## Website

<https://powerside.com/products/software-solutions/qubescan-monitoring-software/>

## Videos

<https://help.powerside.com/s/topic/0TO5a000000GYBnGAO/qubescan-demo-videos>

## FAQ

<https://help.powerside.com/s/topic/0TO5a000001IX2kGAG/cloud-solutions>