

# EcoStruxure™ IT UPS Health Assessment

Sample Report - September 25, 2021

# Executive Summary

We assessed your IT physical infrastructure, focusing on back-up power across your environment. We found and evaluated **45** devices across **5** locations.

Several of your devices require attention to ensure the reliability of your network's back-up power.

## Critical Updates Needed



- 3 UPS devices need to be replaced
- 2 UPS batteries need to be replaced
- 69 security vulnerabilities need to be addressed

## Other Recommendations to Protect Against UPS Failure



- Optimize battery charge cycling for 6 devices to prolong their lives
- Balance the Phases for 1 device to reduce energy costs
- Plan and budget for 3 devices that are near end of life
- Add Extended Warranty for 6 devices still in coverage window

Consider purchasing a dispatch service to help manage the UPS lifecycle.

Consider performing a site assessment at Cajamar to determine root cause of power issues

# Inventory

## Devices

The EcoStruxure IT Gateway connects many types of devices and models, regardless of manufacturer. What we found for your IT environment is *at right*.

Note that devices that are not connected won't show here. For example, a UPS without a network management card will not connect.

Are any devices missing from this list? Let's talk about how to get them connected.

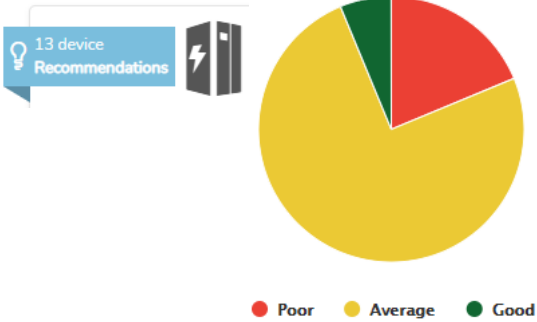
Are any locations missing? Let's talk about how to get them connected.

All locations	
<input type="text" value="Search..."/>	
Blumenau	
Cajamar	▲ 3
Florida	
Fortaleza	● 1
Guararema	
Huecherueaba	● 4
Innova	▲ 4
Jurubatuba	
Jurubatuba DTC	
Marisio	
Planta Santiago	▲ 1
Rio de Janeiro	

Device Type		<a href="#">See all</a>
<input type="checkbox"/>	Rack PDU	31
<input type="checkbox"/>	UPS	21
<input type="checkbox"/>	CRAC	11
<input type="checkbox"/>	ATS	7
<input type="checkbox"/>	EMS	6
Model		<a href="#">See all</a>
<input type="checkbox"/>	AP8861	10
<input type="checkbox"/>	AP8853	6
<input type="checkbox"/>	AP8858EU3	6
<input type="checkbox"/>	AP7722A	5
<input type="checkbox"/>	AP8959EU3	5
Manufacturer		
<input type="checkbox"/>	APC	51
<input type="checkbox"/>	apc	18
<input type="checkbox"/>	SCHNEIDER_ELECTRIC	4
<input type="checkbox"/>	Schneider Electric	3
<input type="checkbox"/>	MGE	1

# UPS Health

3 devices with a poor score.



## Overview

Each device is given a score from 0–100. The pie chart shows the breakdown of your connected UPS devices.

- **Good (66–100):** No immediate action needed. Keep an eye on any device below 80.
- **Average (33–65):** May not be functioning optimally. Immediate action may be needed
- **Poor (0–32):** Immediate action needed.

## How is the score calculated?

The score is based on anonymous benchmarking of the following factors against comparable devices:

- UPS age
- Battery age
- Temperature of the battery
- Whether the UPS has a Critical Alarm or Lifespan Alarm (indicating near end of life)
- How well the phases in a 3-phase UPS are balanced

## Health vs. security vulnerability

The UPS health score indicates how well the device is operating and whether it is in danger of failing. Taking the recommended actions to improve UPS health limits your exposure to potential downtime.

The UPS score does not indicate whether the device has a security vulnerability. Security vulnerabilities are covered later in this report.

# UPS Health: Recommendations

## Replace UPS

- BR-JUR-UPS Switches (Smart-UPS VT 30KVA, Jurubatuba), replacement part: Galaxy VS 30kVA (additional info needed for replacement sku)
- BR-JUR-UPS CCC (Symmetra 20KVA, Jurubatuba), replacement part: Symmetra PX 20kW (additional info needed for replacement sku)
- BR-CAJ-UPS-IDF1 (Smart-UPS RT 3000 XL, Cajamar), replacement part: SRT3000RMXLT

## Replace battery

- CO-DEXSON-UPS2 (Smart-UPS RT 10K, **No Location**), replacement part: SRT192BP2US
- CO-INN-UPS Security (Smart-UPS VT 10KVA, Innova), replacement part: SYBT4

Have you already replaced any of these batteries? When you replace a battery, you have to manually reset the battery age on the network management card. If someone forgets to do this, the battery will appear older than it really is.

# UPS Health: Recommendations *(continued)*

## Lower the battery temperature to 77°F

- None

## Check battery voltage and frequency

The following batteries have gone through a high percentage of their charge cycles:

- BR-CAJ-UPS-IDF1 (Smart-UPS RT 3000 XL, Cajamar) – 57 Charge Cycles – Check Site Voltage
- BR-FOR-UPS Server Room Links (Smart-UPS RT 10K XL, Fortaleza) – 12 Charge Cycles – Check Site Voltage
- BR-CAJ-UPS-IDF-Assistencia Tecnica (Smart-UPS RT 3000 XL, Cajamar) – 42 Cycles – Check Site Voltage
- BR-CAJ-UPS-IDF3 (Smart-UPS RT 3000 XL, Cajamar) – 47 Charge Cycles – Check Site Voltage
- BR-CAJ-UPS-IDF4 (Smart-UPS RT 3000 XL, Cajamar) – 34 Charge Cycles – Check Site Voltage
- BR-CAJ-UPS-IDF2 (Smart-UPS RT 3000 XL, Cajamar) – 30 Charge Cycles – Check Site Voltage

## Check the Phase Balance

- CO-INN-UPS Datacenter (Symmetra 40KVA, Innova) – Balance the loads between the 3 phases



# UPS Health: Recommendations *(continued)*

## Purchase an Extended Warranty

- CO-DEXSON-UPS1 – Purchase WBEXTWAR3YR-SP-06 to extend warranty for remainder of service life
- BR-CAJ-UPS-IDF-Assistencia Tecnica (Smart-UPS RT 3000 XL, Cajamar) – Purchase WBEXTWAR1YR-SP-05
- BR-CAJ-UPS-IDF3 (Smart-UPS RT 3000 XL, Cajamar) – Purchase WBEXTWAR1YR-SP-05
- BR-CAJ-UPS-IDF4 (Smart-UPS RT 3000 XL, Cajamar) – Purchase WBEXTWAR1YR-SP-05
- BR-CAJ-UPS-IDF2 (Smart-UPS RT 3000 XL, Cajamar) – Purchase WBEXTWAR1YR-SP-05
- CL-PSG-UPS-ServerRoom (Smart-UPS RT 10K RMXL, Planta Santiago) - Purchase WBEXTWAR1YR-SP-06

## Plan ahead to replace these UPS devices that are near end of life (does not include UPS recommended for replacement in previous section)

- CO-DEXSON-UPS2 (Smart-UPS RT 10K, **No Location**) – 5 Years Old
- BR-FOR-UPS Server Room Links (Smart-UPS RT 10K XL, Fortaleza) – 6 Years Old
- BR-FOR-UPS Server Room (Smart-UPS RT 10K XL, **No Location**) – 8 Years Old

# UPS Health: Recommendations *(continued)*

## Add Dispatch Service

- CO-DEXSON-UPS1 – Purchase WITEDS1YR-SP-06
- BR-CAJ-UPS-IDF-Assistencia Tecnica (Smart-UPS RT 3000 XL, Cajamar) – Purchase WITEDS1YROFW-SP-05
- BR-CAJ-UPS-IDF3 (Smart-UPS RT 3000 XL, Cajamar) – Purchase WITEDS1YROFW-SP-05
- BR-CAJ-UPS-IDF4 (Smart-UPS RT 3000 XL, Cajamar) – Purchase WITEDS1YROFW-SP-05
- BR-CAJ-UPS-IDF2 (Smart-UPS RT 3000 XL, Cajamar) – Purchase WITEDS1YROFW-SP-05
- CL-PSG-UPS-ServerRoom (Smart-UPS RT 10K RMXL, Planta Santiago) - Purchase WITEDS1YROFW-SP-06

## Get a Free On-Site Assessment

An on-site assessment is free and allows us to capture additional information to help you optimize your power infrastructure.



# Security Vulnerabilities

**You have 69 devices with security vulnerabilities.**

**Did you know power devices can introduce security risks?**

With EcoStruxure IT's device security assessment, you get a unique set of **insights and visibility** into old firmware, outdated hardware, and vulnerable configurations. Plus, taking the actions recommended by the assessment enables you to handle security risks **proactively**, which ultimately saves you time.

**Device security data is not part of the free assessment.**



Contact us to learn how to access recommendations for security vulnerabilities.

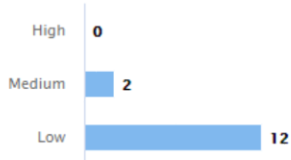
# EcoStruxure IT has even more to offer (not included in free assessment)



## UPS Load

Gain insight into the load of your single phase UPS

0 devices with a high load.



## UPS Load

How green is your back-up power? When power devices aren't used efficiently, you risk overloaded devices, higher electricity costs, and wasted power capacity.

With the UPS Load Assessment, you get:

- A Low, Medium, or High load score for each UPS
- Load trend data for each UPS over time
- Future load predictions based on past trends and benchmarking data



## Alarm report

See devices that have activated alarms

Sep 23, 2021: 17 devices



## Alarm Report

Network downtime is costly. What if you could spot potential issues before they occur by getting real-time consolidated data from all your UPS devices?

The Alarm Report Assessment gives you a big-picture view of active alarms across all your IT sites. You can also dig deeper into each device and see details around alarms activated during the last 30 days and significant changes in the data.

# EcoStruxure IT has even more to offer *(continued)*



## Active Lifespan Alarms

Do you know which UPS devices need to be replaced soon? Don't wait until an issue occurs.

This assessment lists only lifespan alarms—indicating devices are susceptible to failure or nearing end of life. This view helps you determine critical next steps to keep your network running.

# Proposal/Quote

Wesco|Anixter will provide a proposal/quote for all recommended UPS's and services.

# Appendix: Recommendation Explanations

## Replace UPS

We recommend replacing devices that are over 6 years old. Additionally, EcoStruxure IT benchmarks your devices against thousands of similar devices and may recommend replacement due to several wear factors. Contact us to discuss replacement UPS units.

## Battery Wear

We recommend replacing batteries that are over **XX** years old. Additionally, EcoStruxure IT benchmarks your devices against thousands of similar devices and may recommend battery replacements due to several factors, such as a combination of battery age, temperature, and the cumulative count of registered discharges (cycles). Contact us to discuss replacement batteries.

## Lower the battery temperature to 77°F

The optimum operating temperature for a lead-acid battery is 68-77°F. An elevated temperature reduces the battery's longevity. Contact us to discuss cooling and airflow management solutions.

## Check battery voltage and frequency

When batteries go through too many charge cycles, their lifespans diminish. Batteries with this recommendation have gone through at least **XX%** of their lifetime cycles. Contact us to talk about ways to improve battery cycling.

## Purchase an Extended Warranty

For all UPS units that are more than three years old, we recommend purchasing an extended warranty.

Life Is On



**Schneider**  
Electric

