

RAUL Live System Analysis Use Case

R.A.U.L. Trivial Remote Access Units For Lifts Monitoring Systems TM

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UNIT NAME	STATUS	SPACE	CODE	HEALTH
ORUnitA	IN STAND BY	0	0	SYSTEM OK
4807 Elmwood	IN STAND BY	0	0	SYSTEM OK
Serramonte A	IN STAND BY	0	0	SYSTEM OK
Serramonte B	IN STAND BY	0	0	SYSTEM OK
Mercer Island A	IN STAND BY	0	0	SYSTEM OK
Mercer Island B	IN STAND BY	0	0	SYSTEM OK
Paperbox C	IN STAND BY	0	0	SYSTEM OK
Paperbox D	IN STAND BY	0	0	SYSTEM OK
Paperbox E	IN USE CALLING	404	0	SYSTEM OK
Axletree A	IN STAND BY	0	0	SYSTEM OK
Axletree B	IN STAND BY	0	0	SYSTEM OK
Axletree C	IN STAND BY	0	0	SYSTEM OK
Axletree D	IN STAND BY	0	0	SYSTEM OK

System Overview

RAUL LIVE FEED			
Operation	SPACE	CODE	HEALTH
IN STAND BY	0	0	SYSTEM OK
IN STAND BY	0	0	SYSTEM OK
IN STAND BY	0	0	SYSTEM OK
IN STAND BY	0	0	SYSTEM OK
IN STAND BY	0	0	SYSTEM OK
IN STAND BY	0	0	SYSTEM OK
IN STAND BY	0	0	SYSTEM OK

The Trivial Company sets the industry standard through the deployment of our proprietary visual system tracker that saves time and costs for our valued clients.

Real-time Analysis and User Logging, or RAUL, is a user-friendly presentation and streamlining of live system data that can



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track and analyze the quality of the system at any given moment. It can also help technicians gather key insights into system functionality and performance, allowing for preventative measures to be taken before problems arise, as well as remote and on-site maintenance where necessary.

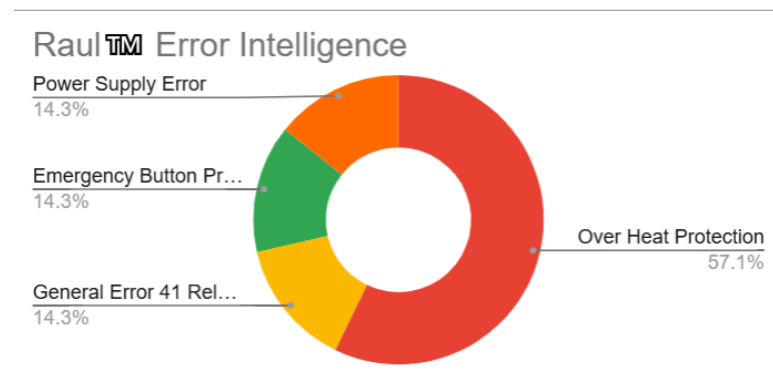
Reliability Indicator

Our goal is to have 99% operational success 99% of the time. In reality, with all technical matters, errors do surface. Our RAUL system

Reliability	# Uses	1072
99%	Alarms	8
Hours In operation		736:45:52

pulls out reliability data based on the entirety of the activity on a given live system. For example, if the parking system was used 240 times in one day, it keeps track of all of the relevant functional mechanisms and measures how reliable the system is synchronously. If the reliability drops below our standard threshold, maintenance technicians are notified so that the best solution can be determined. Other times, clients contact us directly with service issues which we address promptly.

RAUL™ ERROR Intelligence and Signals Analysis



When an error occurs in parking systems, timing is everything. Our RAUL™ Signals Analysis tool is designed to isolate the problem and send real-time data to our technicians. It intelligently combines all data points to

provide a clear picture of the precise error to get the system back up and running as expected expeditiously.



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As can be seen in the chart above, this particular system, while highly efficient, did through a few errors over its lifetime. This is, again, normal for any technical system. We can see the overall error state of the system, or we can discover precise error codes as seen below.

SPACE	STATUS	# OF USES	Error Notes
1	10	14	Over Heat Protection
Thermal Overheat protection is designed to stop a motor if a motor is exerting more force than set for. It could be an obstruction for horizontal motors, or overweight for lifting platforms or a gate becoming stuck. It requires check from a Tech.			

The error thrown most often (on this client's particular parking system) was 'Over Heat Protection.' The potential causes are listed in the far-right column and the required service is "requires check from a Tech." these type of errors can cascade into other issues such as the following:

232	30	52	Power Supply Error
Power supply error can be caused by a main power failure, or by pressing the Emergency stop button.			

You can see that the power supply error was thrown, caused either by a main power failure or simply the emergency stop button was activated.

In the example above, we use the diagnostic tools of the RAUL system to determine the source of the problem, saving both time in the field and diagnostic time while also helping us find the source of the problem faster and resolve issues effectively.

Parking Matrix USE



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FRONT PARKING SPACE USE

131	132				
4	1				
121	122	123	124	125	
110	41	83	68	63	
111	112	113	114	115	
73	3	66	86	76	

This 3-level parking system holds 12 vehicles, and we can see from the use distribution that certain spaces are used less frequently than others. This is usually just due to personal preference - someone having their “own spot.” However, this can also provide technical analysis in terms of the systems that require more preventive maintenance overtime, helping the team focus on the parking spaces that are used the most. This pattern also helps us understand the movement patterns of the system and the usability of the spaces.

Another benefit of the RAUL system is that we can receive emails to be notified when a system has errors, allowing our team to dispatch or address the issue much faster.



service@thetrivialcompany.com
to me, team ▾

ERROR REPORTED ON SYSTEM:Serramonte B

Project Name	Operation	SPACE	CODE	HEALTH	Uses This Month	UIN	Latest Operation
Serramonte B	 Error Over Heat Protection	121	10	Over Heat Protection	876	2LPT6W6Gen	Thu Aug 28 2025 17:04:16 GMT-0700 (Pacific Daylight Time)



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