



SMART ALAVO DATA COLLECTION SHEET

VERSION 2.0 - APRIL 2025

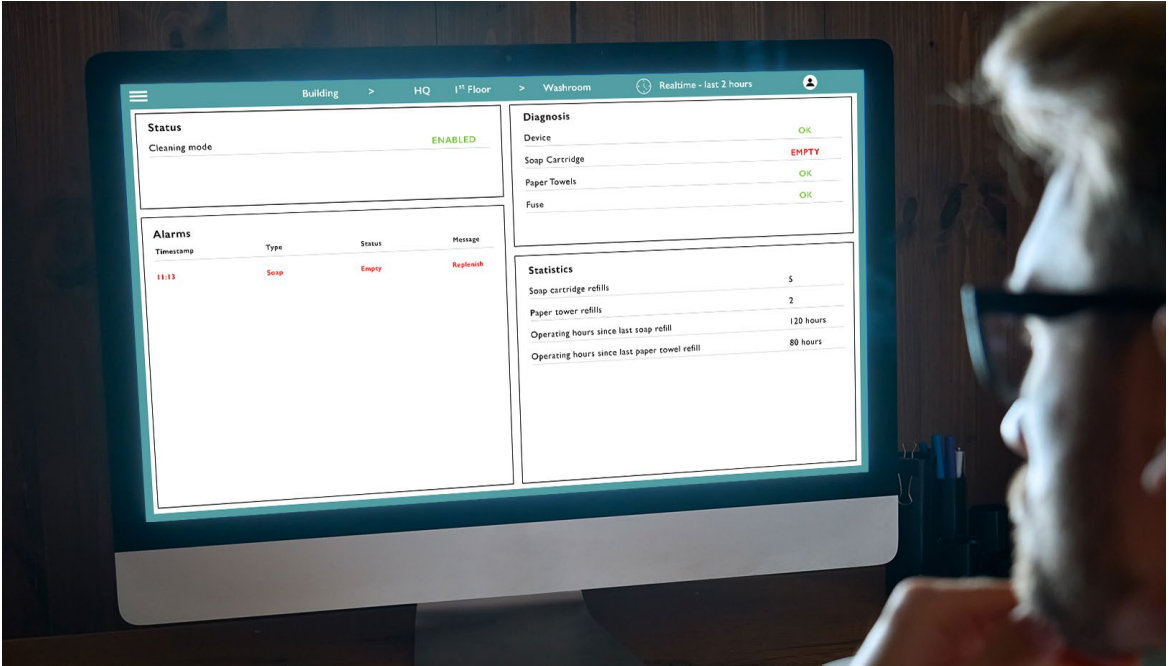
SMART ALAVO DATA COLLECTION SHEET

The main purpose of a SMART washroom system integrated with Alavo is to ensure the behind mirror system is operating optimally.

The BMS dashboard has no settings for configuration or modification for SMART Alavo; instead, it is designed to collect valuable statistics and insights into wash station operations.

This detailed data collection sheet provides information on Dolphin's SMART Alavo Mirror System and the data that can be collected and displayed on a Building Management System. It also explains each setting and outlines its benefits.

This serves as an illustration of a SMART Alavo washroom system within a BMS dashboard, designed for visual comprehension rather than an exact replica of a live dashboard display.

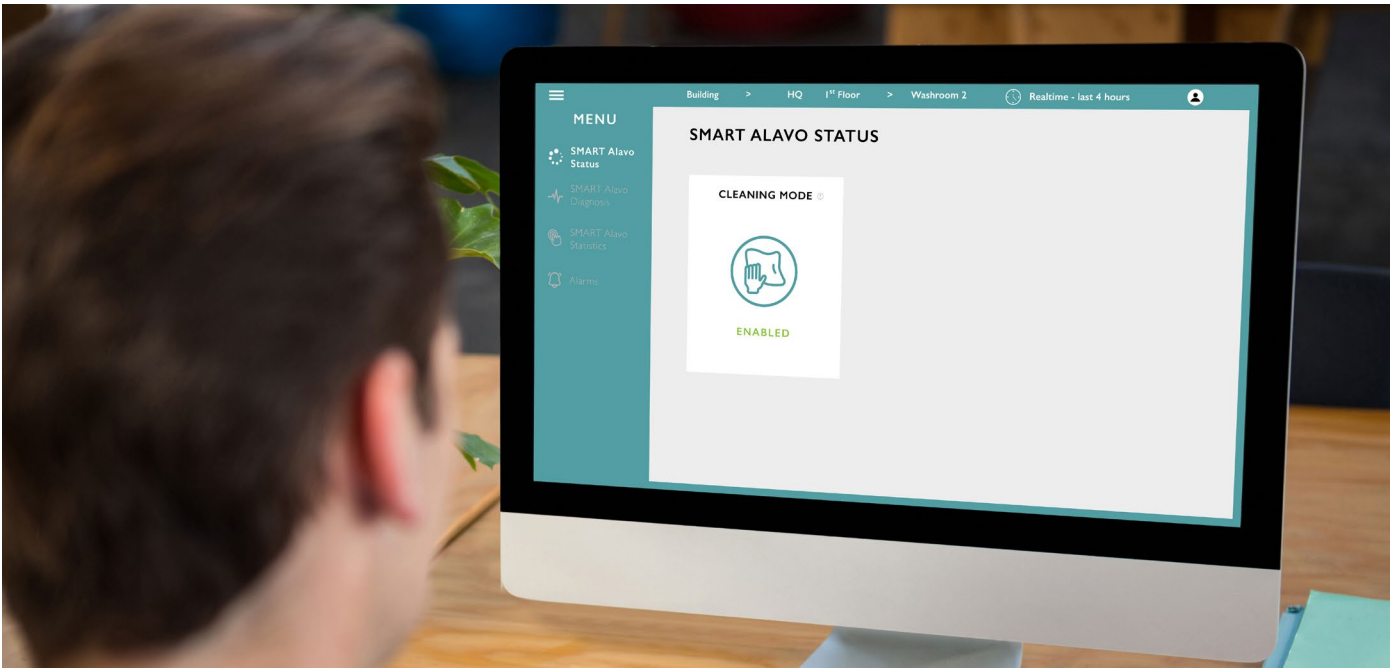


SMART ALAVO BEHIND MIRROR SYSTEM

SMART ALAVO STATUS

This status shows the current mode Alavo is set to.

STATUS	DATA AVAILABLE	WHAT DOES THIS DO	STATUS BENEFIT
Cleaning mode	On / Off status	This data indicates the current status of the cleaning mode, whether it is enabled or disabled	This feature provides insights into the cleaning team's activities in the washroom, allowing administrators to verify whether the cleaning mode has been accidentally left on. It could inconvenience users if it has not been turned off, therefore, this function serves primarily as a status check.

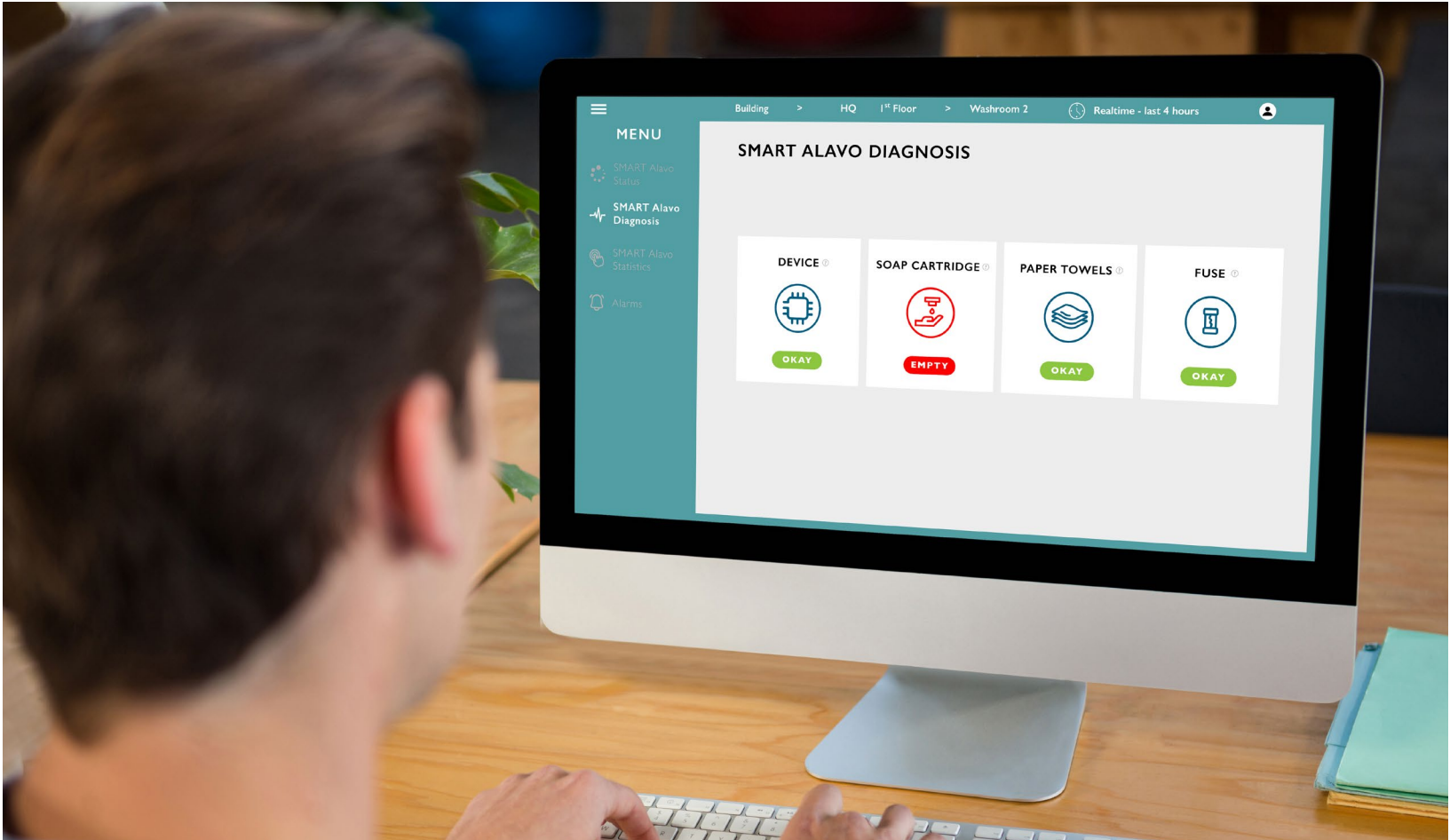


SMART ALAVO DIAGNOSIS

Assess the condition, functionality, and potential issues within the Alavo system.

DIAGNOSIS	DATA AVAILABLE	WHAT DOES THIS DO	DIAGNOSIS BENEFIT
Device	OK or Faulty + Alert notification	Provides the operational status of Alavo.	Enables swift verification of Alavo's operational status. Should the data signal a fault or warning, maintenance personnel can promptly intervene to rectify the issue, thereby minimising downtime.
Soap Cartridge	OK or Empty + Alert notification	Provides a status on whether the soap cartridge is empty. If the status indicates empty, a refill notification will automatically be sent to the BMS, alerting the administrator.	Receiving an instant notification that the soap cartridge is empty gives facilities teams a warning to quickly replenish it, thereby eliminating downtime and avoiding inconveniencing users. This also relieves cleaners from the responsibility of regularly checking soap cartridges throughout the day to ensure they are not empty.
Paper Towels	OK or Low + Alert notification	Indicates the status of a paper towel dispenser's paper supply. When a paper towel dispenser has an "OK" diagnosis, it indicates that the amount of paper towels is above a certain minimum level detected by the sensor. This confirms that the dispenser is adequately stocked and does not need immediate refilling. If the status indicates "low", a refill notification will automatically be sent to the BMS, alerting the administrator.	Being aware that a paper towel dispenser is low allows facilities teams to promptly refill it, ensuring continuous availability and preventing inconvenience to users. This also eliminates the need for cleaners to constantly check the paper towel dispensers throughout the day to ensure they are not running low. Another benefit is that while the facilities staff are replenishing a low dispenser, they can also check and restock the others, even if they have not reached a low level yet. This proactive approach saves time by preventing the need for multiple trips to refill one dispenser at a time.

Fuse blown	Alert notification	If a fault arises in the control board, a notification will promptly alert the issue.	With alert notifications, engineers can swiftly address electrical issues to prevent them from escalating and minimise downtime.
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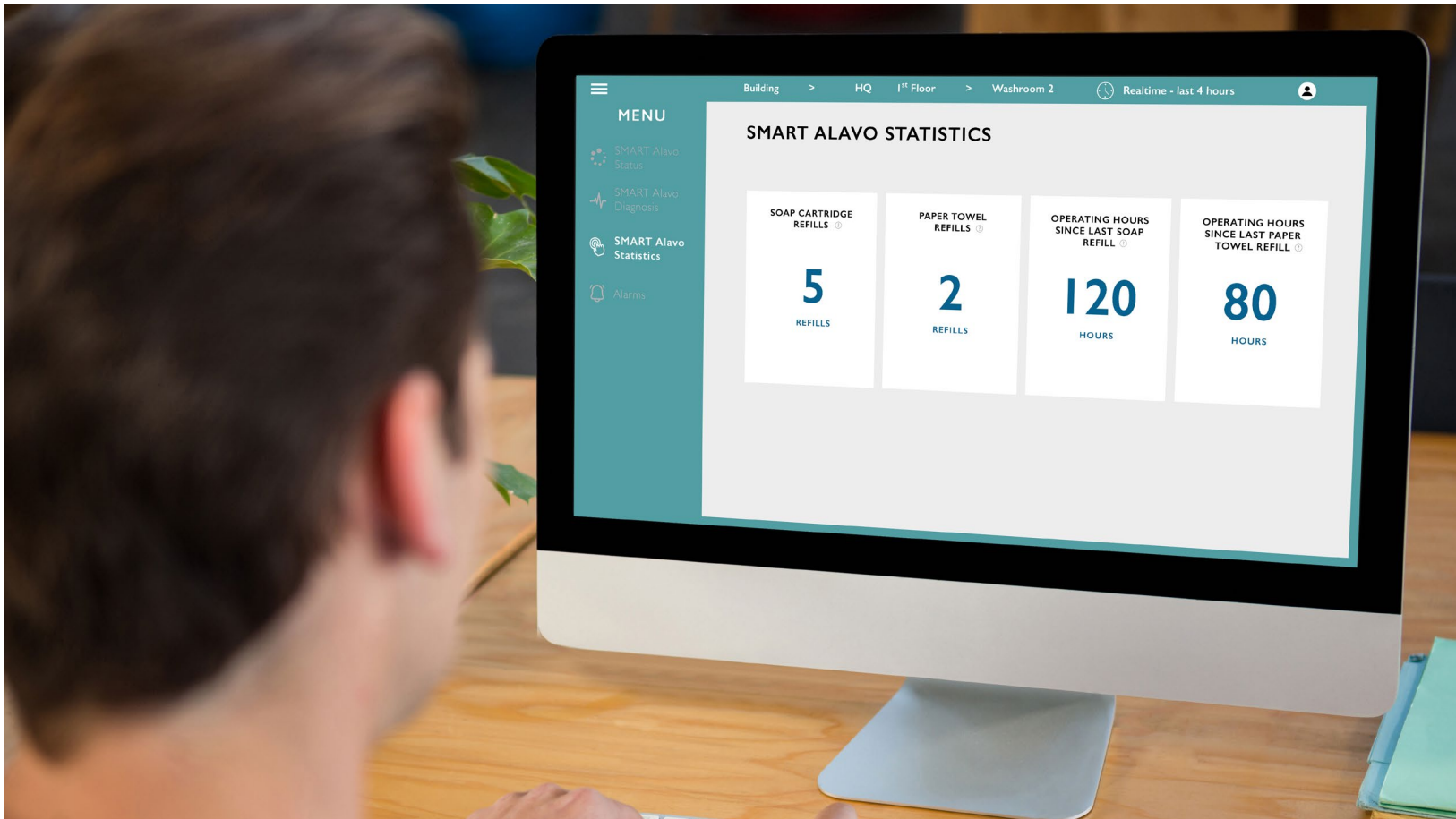
SMART ALAVO STATISTICS

Access and oversee detailed data gathered from the SMART Alavo washroom system.

STATISTICS	THE BENEFIT OF ANALYSING STATISTICS
Number of Soap Cartridge refills	This statistic tracks the total number of soap cartridge refills, enabling more efficient and cost-effective management of soap supplies, including timely ordering and proactive planning. By analysing this data, administrators can observe refill quantity trends which helps maintain an adequate soap supply without overstocking every month, thereby reducing costs.
Operating hours since last Soap Cartridge refill	This data shows how much time has passed since the soap cartridge was replenished. This statistic can help administrators determine peak usage periods by tracking how quickly soap runs out after being replenished and it helps them understand usage patterns. Usage patterns help maintenance teams prepare effectively. Using shopping mall washrooms as an example, if the data shows that soap usage doubles during the holiday season, they can ensure adequate stock is ordered to prevent shortages during peak periods. Furthermore, by evaluating the soap supply needs of each washroom, administrators can develop an efficient route plan for their facilities teams. This approach streamlines the allocation process, eliminating the need for frequent checks to replenish soap cartridges.
Number of Paper Towel refills	This statistic shows the total number of times a paper towel dispenser has been replenished. Each time the paper towels fall below the “low” sensor level and are subsequently refilled, it is recorded as one refill in the count. By analysing this data, administrators can observe refill quantity trends which helps maintain an adequate paper towel supply without overstocking every month, thereby reducing costs.
Operating hours since last Paper Towel refill	This data shows how much time has passed since the last paper towel refill. This also helps administrators determine peak usage periods and eliminate the need for the facilities team to check paper towel stock daily or multiple times a day. Therefore, the facilities team can be deployed elsewhere in the building, thus utilising cleaning resources more efficiently and avoiding wasted time.

On the other hand, if the data indicates that several paper towel dispensers tend to run low daily, the team can proactively restock them each day without waiting for an alert from the BMS.

Additionally, it helps administrators forecast and manage the budget for paper towel supplies, reducing the risk of overordering and unnecessary expenses.





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