

Controllers Security Report

Reporting Services | 'Snapshot' Report

In our increasingly connected world, security of networked devices and business systems within buildings has never been higher on the agenda. All building owners and managers with IoT devices such as Building Energy Management Systems (BEMS) have a responsibility to their organisation to regularly review security. This will minimise any risk of the IoT device being used as an access point to the wider network, and the subsequent disruptions and reputational damage that may be caused from such an event.

A BEMS has control of vital aspects of the operation of your building, controlling systems which affect productivity, occupant comfort, energy consumption and plant lifecycles. Any unauthorised changes made to your BEMS devices could result in loss of productivity or trade, as well as cause damage to plant and equipment.

As organisations make investments to "harden" the security of key business systems, hackers with malicious intent are increasingly turning to other systems in the building in their attempts to gain access to corporate networks. When such efforts are successful they often cause serious issues for the affected organisations, leaving business leaders asking how this could have happened?

Controllers Security Report

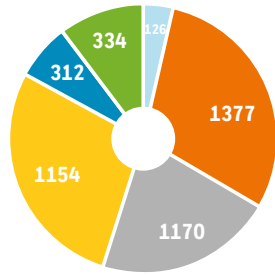
This report helps building owners and managers identify and classify security risks across their BEMS assets, providing an understanding of any potential weaknesses in the security of their system. The report assesses the current set up and makes comparisons against manufacturers security Best Practice guidelines, providing building owners and managers with clear recommended actions to improve the security of their operation. Whilst it is impossible to make a system completely impenetrable, there are many ways to construct a BEMS to ensure that it is more resistant to attacks or modifications to operational parameters.



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This report includes dashboards which can simplify the analysis, helping to identify where to act first to reduce the overall risk. By providing a Controllers Security Score, the report enables building owners and managers to track the success of security measures put in place and to ensure that a secure system is sustained in environments where multiple contractors or projects are involved on the site.

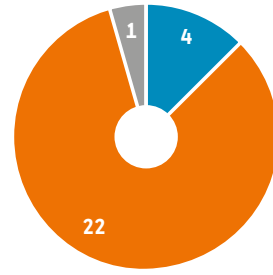
Typically risks are grouped in categories for ease of review. Below is a representative example of typical outputs from a Controllers Security Report



SOFTWARE

- Timezones without PIN
- Knobs without High/Low limit
- Knob value exceeds High or Low limit
- Knobs without PIN
- Knobs without Clip active
- Switches without PIN

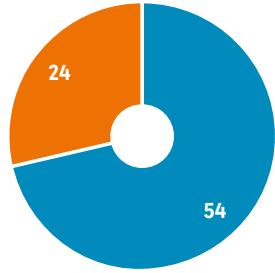
Score: **33.50%**



TOPOLOGY

- Illegal OS Addresses
- Duplicate Addresses
- VCNC's address verified

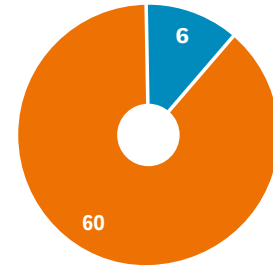
Score: **85.41%**



HARDWARE

- Obsolete controller (not supported)
- Obsolete controller (supported)

Score: **7.14%**



SECURITY

- Current controllers - firmware out of date
- Controllers without User1 active

Score: **60.71%**

Total Score : 46.69%

Examples of use...



As part of a Soft Landings commissioning approach, the Controllers Security Report can demonstrate specification compliance in terms of the handover of a securely engineered system.



BEMS controllers which sit on a network not uniquely installed for the BEMS (e.g. a corporate network) would benefit from a regular security review, utilising this report, to minimise any risk of the BEMS being used as an access point to the wider network, and the subsequent disruptions and reputational damage that may be caused from such an event.



Ensuring the security of systems installed within a building can often fall between the remits of both the Estates and Information Technology teams, but is nevertheless a key requirement of building owners and managers. This report can provide a quick and easy independent assessment of the resilience of the BEMS, and can provide an audit trail for organisational compliance requirements.

CONTACT YOUR TREND BUSINESS MANAGER TO FIND OUT MORE INFORMATION OR TO BOOK A CONTROLLERS SECURITY REPORT

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