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| **Document Name:** | *Smart Response – Data Map* |
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| **Project/Department:** | *Software Development* |
| **Purpose:** |  |
| **Related Documents:** |  |

**Security Level:** *Author determines level*

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**Status: Work in progress**

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| **Version** | **Date** | **Change Description** | **Author** | **Checked By** | **Approved By** |
| A | 05/18 | Initial Release | HCF | VMH | VMH |
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**Glossary:** *(record of unique words or definitions required for clarity of understanding)*

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| **Abbreviation** | **Term / Description** | **Comment** |
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1. Purpose

This document aims to show the current indicator variables on Lancium Smart Response.

1. Data Sources

Lancium Smart Response currently gathers data from various sources and stores on granular and aggregated levels depending on the variables and measurements. Generally speaking, miner-related indicators (e.g. hashrate, miner count) are stored at the associated Lancium Box while Datacenter-related indicators (e.g. frequency, active power) are stored on Smart Response.

Furthermore, there are certain miner-related indicators that are also aggregated on Smart Response and provided to the Dashboards, for example:



1. Smart Response Data

Smart Response aggregates data from many sources (e.g. miners, power meters, open weather) and stores it based on each client, datacenter, datacenter room and Lancium Box.

* 1. Indicators

Smart Response overall indicators:



* 1. Datacenters

The image below shows the current list of Datacenters in Smart Response



Current timestamp boundaries by Datacenter:



* 1. Datacenter Rooms

A Datacenter may or may not have various Datacenter Rooms. The table below shows the current list of all Datacenter Rooms and its corresponding Datacenter.



* 1. Lancium Boxes

Similarly, a Datacenter Room may have one or various Lancium Boxes. The table below shows the current list of all Lancium Boxes and their corresponding Datacenter Rooms:



* 1. Smart Response Entity Relationship Diagram – snapshotA picture containing graphical user interface

     Description automatically generated

1. Lancium Box Data

Lancium Box stores indicators generated at the miner-level (e.g.: hashrate/second, temperature, uptime). This section shows a few examples of miner indicators as well as the Entity Relationship Diagram (ERD).

* 1. Miner indicators:

Miner indicators do not follow a uniform structure since they are miner-specific (i.e. each miner manufacturer / model has a certain set of variables that are read). The following are three examples of miner indicators.

S19:



M30S:



S9:



* 1. Lancium Box Entity Relationship Diagram (ERD) - snapshot:

A screenshot of a computer

Description automatically generated with low confidence