

# CopperCube 1.23 - Release Notes

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## Welcome

This document communicates important technical information associated with the CopperCube Build 1.23.1784 Release

Important: Please note the following essential items

## Upgrade from previous versions

Important: Please note the following essential Items:

As with performing any update, it is always recommended to take a backup of the device ahead of time. For more information on this procedure, please refer to the section "Back and Restore" found within the [CopperCube Application Guide](#).

### Version 1.21 Devices.

Version 1.21 devices can be upgraded from USB or from the CopperCubes User Interface when connected to the internet. Refer to the installation procedures for details.

**Note: Certain Versions 1.21 devices may experience an issue with the manual (USB) upgrade. These devices may only be upgrade-able via the web upgrade procedure. Please refer to [KBA2319](#) for additional information.**

## Overview:

The CopperCube is an advance data archiver that connects to a Building Automation System (BAS) through BACnet/IP or BACnet Ethernet protocols. It is used to collect, store, and push trend log data to a number of onsite and remote storage locations.

## Date of Release

### Release Date:

Limited Beta (1.23.1775): **March 20, 2017**

Beta (1.23.1784): **April 26, 2017**

Final Release (1.23.1784): **May xx, 2017**

## System Requirements

### Client Web Interface

#### Supported Web Browsers:

- Chrome (Version 34 or higher) preferred
- Firefox (Version 25 or higher) preferred
- Internet Explorer (Version 10 or higher)

#### Screen Resolution

- CopperCube is designed to be viewed at a minimum screen resolution of 1280 x 1024

#### Non-Supported Web Browsers:

*Note: These are browsers that may work but have not been tested with the CopperCube Product*

- Safari
- Edge

#### Relevant Documents:

- CopperCube Quick Start Guide
- CopperCube Application Guide
- CopperCube 1.21.1708 Release Announcement
- Archived Release Notes

## What's new in 1.23.1784

The new CopperCube firmware brings improved workflow to how Historian Trend Logs are imported into the CopperCube and how data is presented in its CSV exports files. This new version also brings with it a number of important bug fixes.

### CSV Export Schema Improvements

Significant improvements have been made to the CSV Export schemas output by the CopperCube. Such improvements include:

#### Trend Log Management Page Export:

- We have changed the Schema of the export CSV file which is produced by the CopperCube when exporting Data on TrendLog Management Page. The headings have been modified to identify the type of data found in each column. This includes: the 'Timestamp', the 'TLReference' identifier, the 'TLName' and the 'MonitoredObjectUnits'.
- When exporting multiple Trend Logs we have corrected a bug which was miss-aligning trendlog values with the same timestamp.
- On the TrendLog Management Page, When exporting TL Data, we have improved the name the Export CSV has been given. Now the files generated will be given a name that includes:TrendLogData, The name of the CopperCube the Trend Logs are found on, and the date range that is being presented. ex. "TrendLogData\_CopperCube1\_2016-03-17T2017-03-17.csv"

#### Trend Log Data Page Export:

- The Trend Log Data page, when exporting a CSV export of the data we have replaced the titles (which were: 'seq', 't', 'ts', and 'v') with more descriptive titles. These are: 'Sequence', 'Type', 'Timestamp', 'Value (Units)'.
- A title to the first row has also been added which identifies which Trend Log data this is as well as the date range in which the output is applicable.
- The filename has been changed from "get\_tl\_data\_start\_end.csv" to Device."TrendLogNumber\_startDate\_to\_endDate.csv"

### Correction of the "Missing / Duplicate Trend Logs in Device Inclusion Range" Bug

A bug found on the 'Sites and Device Ranges' page, where devices identified in the inclusion range have either gone missing or have been duplicated, has been corrected.

## CopperCube can Fail to detect USB device bug

A bug that prevented some CopperCubes from detecting a USB device has been fixed. If you need to upgrade to a newer version of software but are experiencing this issue please refer to [KBA2319](#).

## Historian Import Improvements

Historian Import allows a user to import existing data, previously collected by a Delta Historian into a CopperCube. The workflow for this has been improved, and Trend Logs previously linked with Historian can now be filtered on the Trend Log Management Page. For more information please refer to section "Historian Data Import page" Section within the [CopperCube Application Guide](#).

## Additional Prune Settings offered

In addition to pruning at 1 Year, 2, Year, 3 Year, 4 Year, and 5 Year intervals, a user can now prune data at 1 month, 2 month, 3 month and 6 month intervals. This will allow you to store more samples over a shorter period of time.

## CopperCube Application Guide

The CopperCube Application Guide has been improved to include information on:

- Revision information on the Historian Import feature and its process.

The CopperCube Application guide is a 60 page document that provides the reader with a thorough understanding of the operation of this product. It provides information on the functionality of the CopperCube, as well as information on all features the product currently offers.

## Additional Improvements:

This release also brings a number of other additional improvements. They include:

- Improvements made to how the CopperCube Transmits data to a SQL database.
- Technical Reference Manual has been updated to include information on Filtering on Historian.
- Delete Trend Logs Samples from detached Trend Logs directly on the Trend Log Management Page
- CopperCube can now detects bad/empty/corrupt packets and will prevent these from going to Kaizen Cloud.
- Update to the BACnet Stack.

## Additional Notes:

### Site Name Character set as of Version 1.21:

With the previous release of 1.21 build, the CopperCube has allowed the user to use UTF-8 Character sets. There are however, a number of restrictions on this. They are as follows:

- The first restriction is that all site names must start with one of the following characters: "A-Z", "\_", or "a-z".
- After the first character any UTF-8 Character can be used except the Space Character " ".

## Known Issues

- AR-3692 – Trend Log Discovery Automatically detects Historian Trend Log-
- AR-3753 – CopperCube unexpectedly goes offline and requires hardware reset
- AR-3676 – When cube is in error, Internal Database fills up with error messages
- AR-3327 – On the Trend Log Management Page, The User Interface refresh button only refreshes the data table, not the page