

application NOTE



Using the BASrouter to Offload Your JACE

Offload Your JACE's MS/TP Traffic

Customers had been telling us for some time that they were using the BASrouter and BASrouterLX to offload the MS/TP communications from their JACE. We decided to see what improvement we could see if we did the same.



JACE-3E



BASRT-B



Application Note — Offload Your JACE

We have a wall of Alerton MS/TP devices we use for testing our BACnet routers. We connected these devices directly to a JACE-3E (running 3.7.106.1). We brought in 31 devices and 10 points per device. We setup a 10 point history, with a once a minute update, for each point so that they would be polled by the

JACE to simulate alarms, trends, graphics in the JACE that normally would be polling these points. We then looked at the resource monitor for the station and we saw that the CPU load was between 40% and 80% (for a majority of the time). See Figure 1.

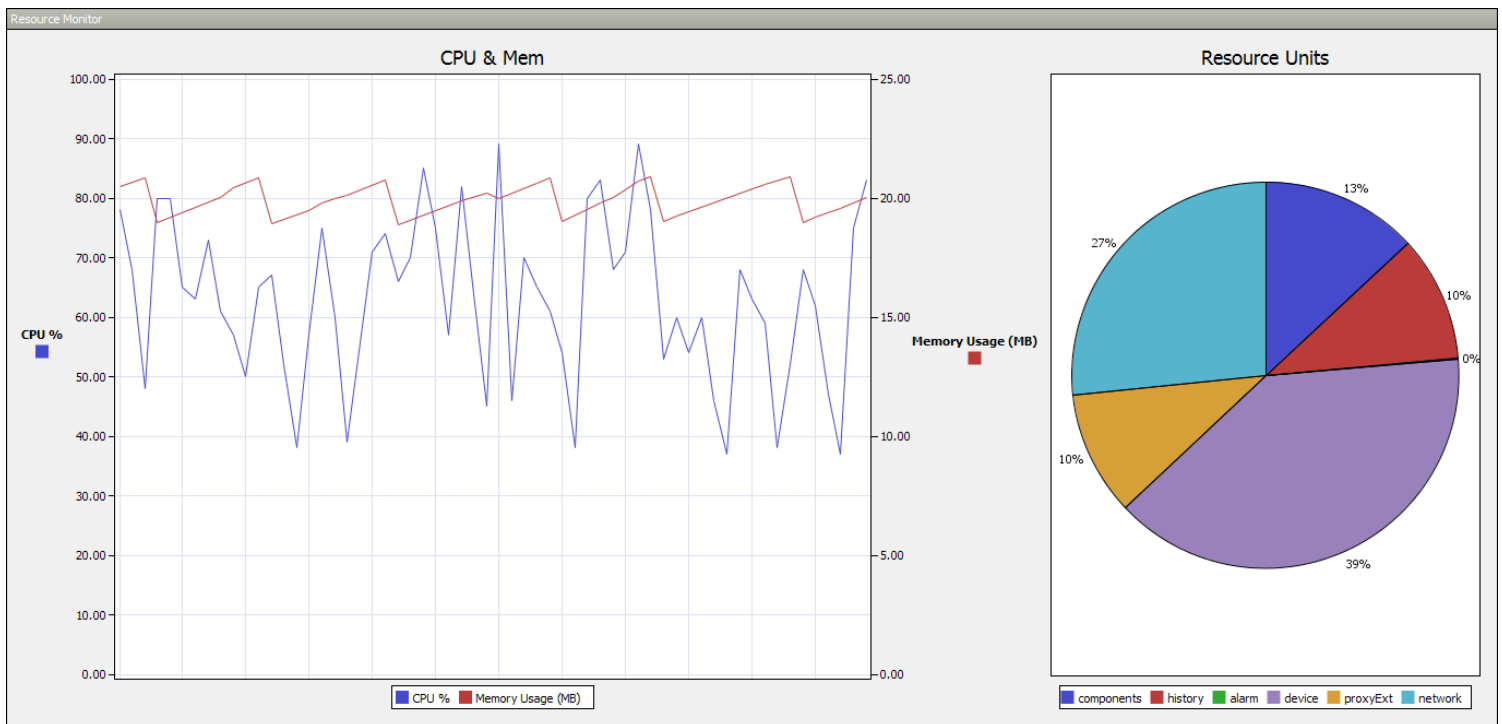


Figure 1 — JACE-3E directly connected to MS/TP network with 31 MS/TP devices

Then we installed a BASrouter between the JACE and the MS/TP network. The JACE was able to detect this change and start communicating with the Alerton devices through the BASrouter. By adding the

BASrouter, the CPU usage has a large improvement as we are now using between about 20% and 40% (most of the time).

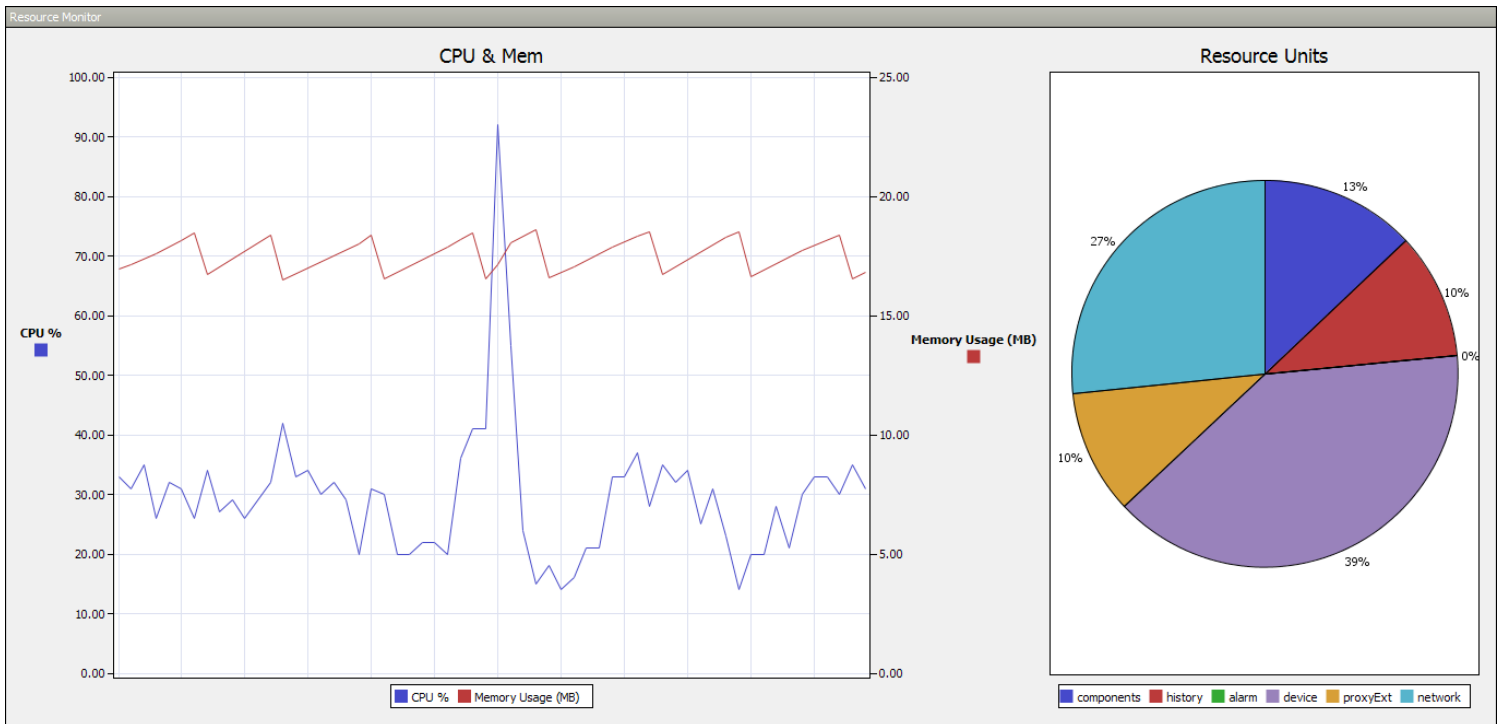


Figure 2 — JACE-3E connected to 31 MS/TP devices through BASrouter

Application Note — Offload Your JACE

By adding the BASrouter or BASrouterLX to your MS/TP network you can offload the JACE's MS/TP communications and provide more CPU time for other activities in the JACE. This can allow you to use a smaller JACE or possibly reduce the number of JACEs on the job. This is also attractive when you have multiple MS/TP networks connected to one JACE.

Try this test yourself and see how much improvement you can achieve by using the BASrouter or the BASrouterLX to offload the JACE's MS/TP communications.

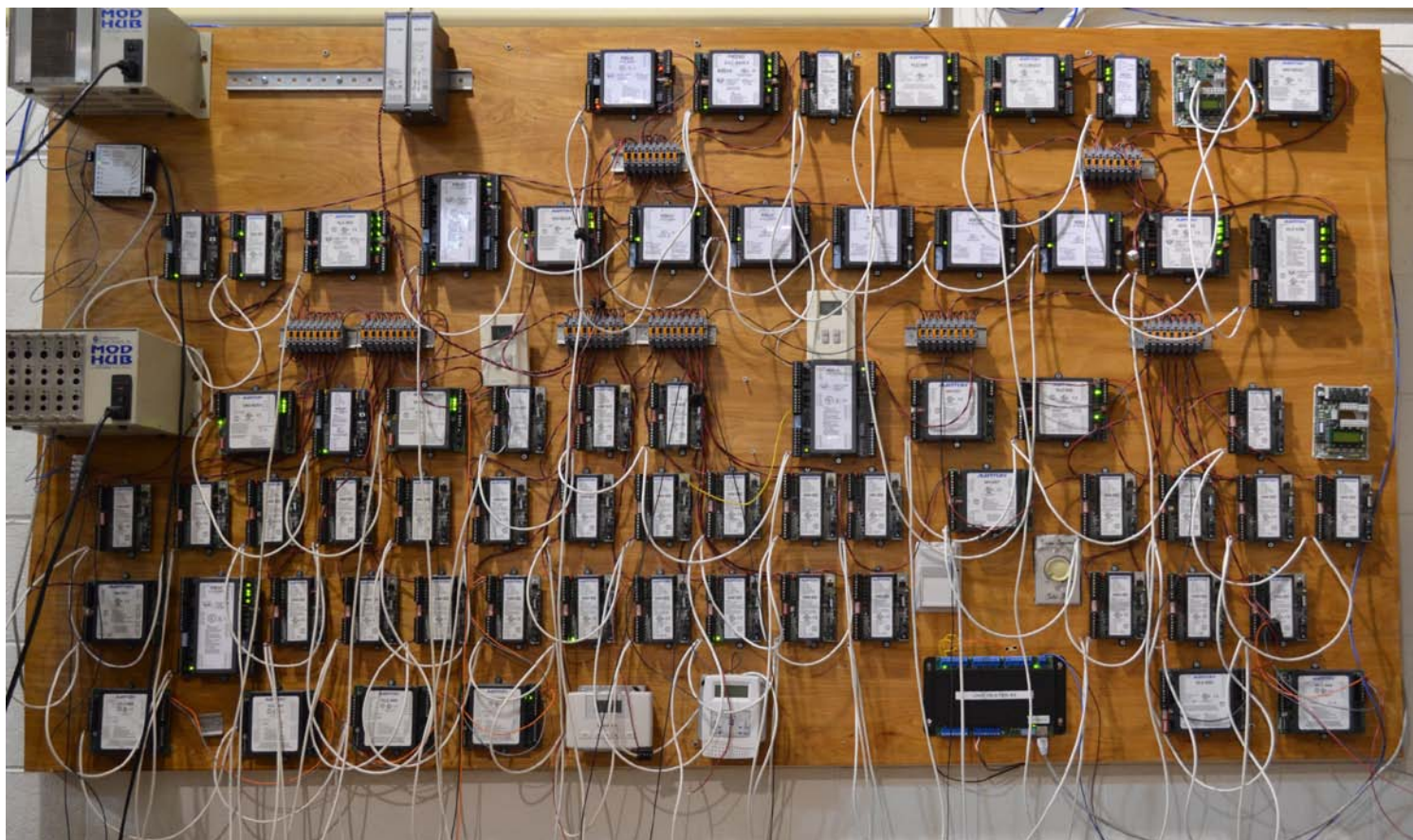


Figure 3 — MS/TP Wall

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