

Nlyte DCIM Software Integration

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The Problem

SLAC has hundreds of thousands of dollars' worth of networking and computing assets. These assets are scattered throughout the campus and needs to be tracked and maintained. These assets range from old to new hardware making the current inventory databases deprecated. In some instances, it is difficult to find, visualize, and design data infrastructure.

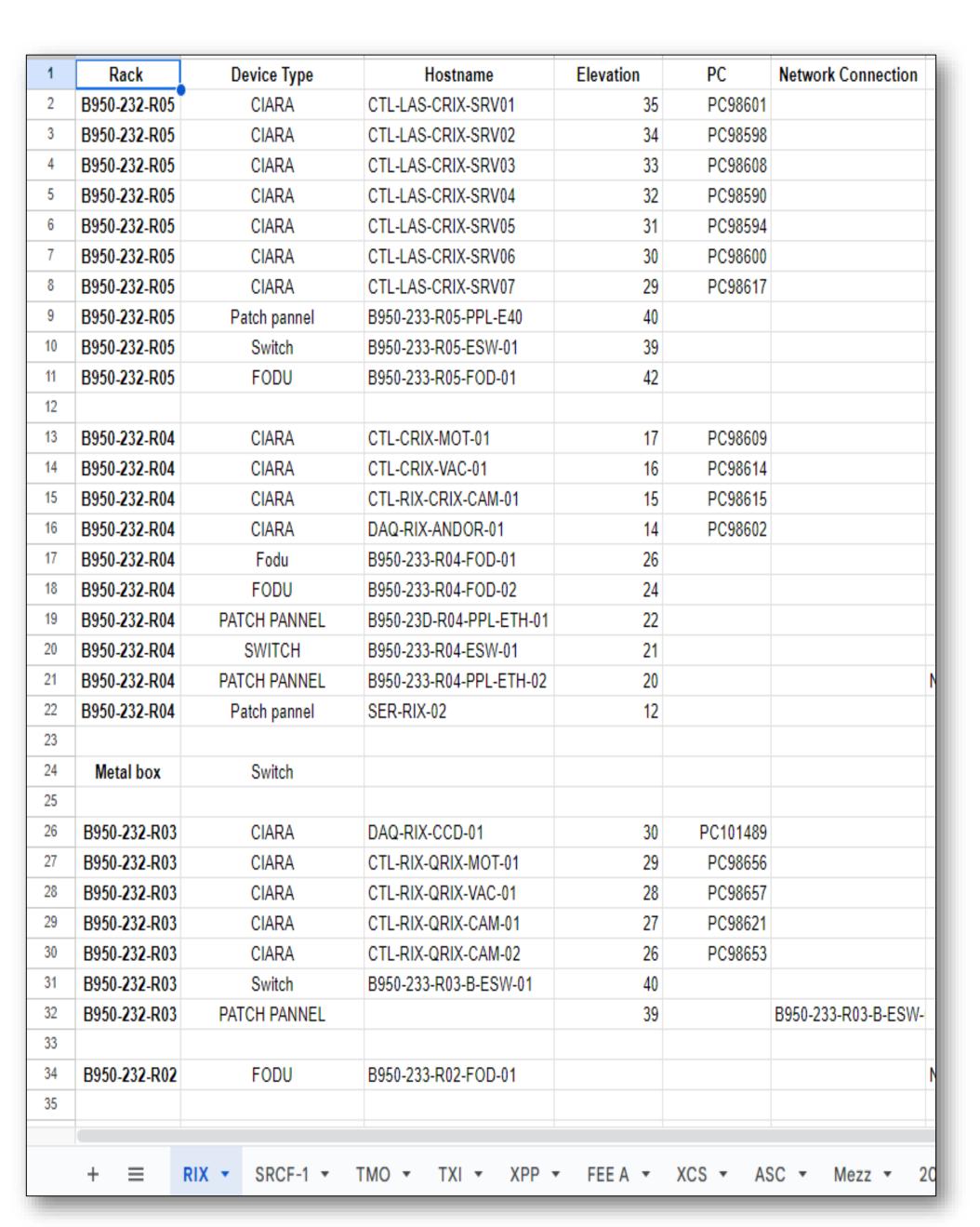
The Solution

An optimal solution to this issue is the implementation of a DCIM. DCIM stands for Datacenter Infrastructure Management, but it covers far more than just datacenters. The Nlyte DCIM software is a web-based software that allows users to model and track networking and computing assets in real time. It will give TID and ECS the ability to react in real time to errors and visualize deployments of new assets. It will also allow us to see other aspects like network connections and power consumption. The capabilities of Nlyte will overall improve the structure design, and performance of TID and LCLS.

The Method

The steps taken to progress the integrations are as follows:

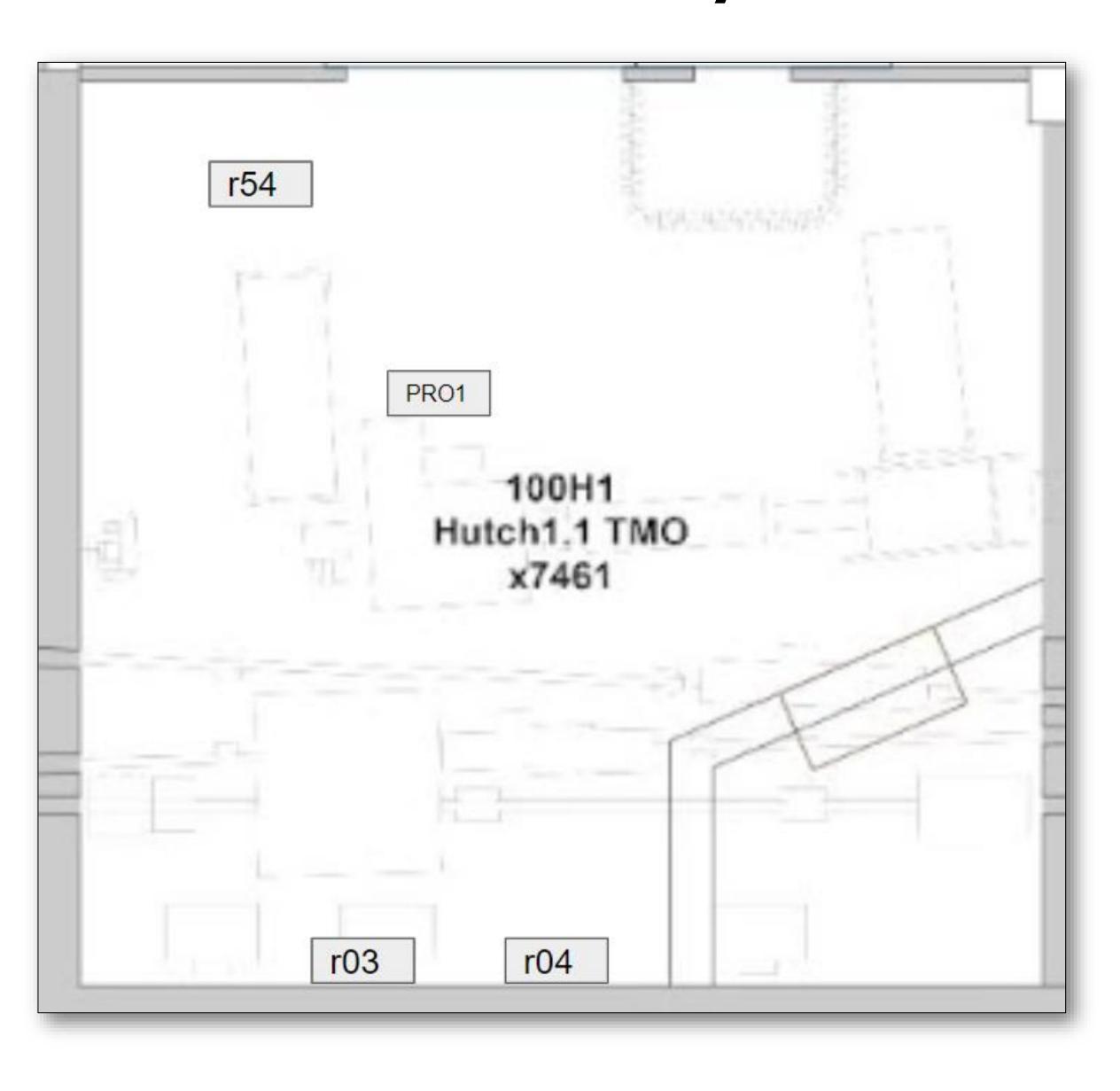
- Visit all network asset locations and put their data in spreadsheets (templates)
- Create rack location blueprints and profiles
- Transfer asset data into Nlyte via spreadsheet
- Interact with Nlyte via the web UI to dynamically make corrections and updates



Data Collection



Rack Data in Nlyte



Rack Location Blueprints

Additional

In addition to the progress made on the Nlyte integration, taking the time to physically inspect all the assets controlled by TID and LCLS has allowed us to update our database. The process has allowed us to allocate our assets to their respective areas. The Nlyte initiative is not just about the software, but about keeping our assets up to date, understand our network topology, and design for future deployments.

Conclusions

Nlyte will provide unmatched value to the overall operations of TID and LCLS. Through this integration process, there will not be any missing or misplaced assets. The capabilities that Nlyte provides will go a long way in improving the overall understanding of our infrastructure. Finally, the ease of use will allow users with no experience understand our complex environment

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