**Team Techminds**

PRI xx Data center automated drawing

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Logo for Asset Power ?

**Main directions of the PRI**

1. Market research of solutions ( 2D and 3D )
2. Enhance existing tool on Visio VB
3. Develop a prototype 3D
4. **Market Research and solutions**

For automated drawing package that exists on the market, review the names of the solutions, the pros and cons, the price (do not hesitate to contact the vendors )

Hint: NLYTE has some capability and some interesting features, look at the other competitors

Think about 2D but also 3D solutions, other features such as Capacity Management , monitoring

U 42U 46U 1 U = 1U equals **1.75-inches** (44.45mm) o

1. **Enhance existing tool (very important for the sponsor to finalize the product)**

From the existing tool developed by the former team using Visio and VB develop the following enhancement to finalize the product and enrich the tool

1. Review the new file provided which will be February 2019.

I am also asking you to help me to compare the current manual VISIO with the automated tool. This is more testing at the beginning.

1. Fix the enclosure drawing with the bays and the right stencils for the blades in the bay ( In the DC Watch in the rack A07 you have one example) DONE
2. There should be a **menu** or an entry screen at the beginning to decide DIFFICULT
   1. Front stencil drawing or rear stencil or neutral (with no stencil but with colors) Choice : 1) Stencil front 2) Stencil rear or back 3) Neutral ( no stencil only colors )
   2. Colors for neutral based on manufacturers or criticality or production/non production SAP/other applications group (information and flag to be added)

Choice : 1) Manufacturer 2) Criticality 3) Applications

* 1. Number of racks per page: 1 or 3,5 ( today it is fixed at 3 ) **VERY DIFFICULT**

1. Same “look and feel” as the manual Visio slides for the rack – VERY DIFFICULT : scale , blocks at the bottom for power and network
2. Integrate the Data center room Visio , start from the Data center map and link the DC map objects with hyperlink to the Rack visio slide : If I look at the Data Center room Visio map , I select a rack , I click on a Rack and I go direct to the slide that contains the Rack in question. DIFFICULT
3. Change of the input file layout: I will communicate soon the new layout of the CMDB file.

This will be a CSV file and the mapping is described in file Mapping old file new file : Be flexible because the layout of the input file may change, columns order may change, additional information **EASY**

1. Nice to have scope extension (if you have time and energy ) :
   1. Identify the capacity KPI per rack , total Data center : What is the % empty space ? % free
   2. Additional scope changes
2. **Develop a prototype 3D**

Starting from the map of a Data Center use a 3D visualization tool

Model : corridor delimited by

Glass doors, glass ceiling and aisle of racks on each side

Use UNITY Video game 3D solution

Challenge : to use the EXCEL data to show the physical servers in the rack in 3D

Youtube videos IBM virtual Data center

<https://www.youtube.com/watch?v=04_i3Nyz7lE>

Axonom

**Color Tables**

**Manufacturer**

IBM Blue

HP Green

Cisco Orange

Juniper Red

Palo Alto Pink

Others Yellow

**Criticality**

1. High Black

2. Medium-High Red

3. Medium Green

4. Medium-Low Blue

5. Low Yellow

Applications

Production RED

Non Production Green

SAP Orange