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***Logo

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***PDU/Panel/Breaker Usability Enhancements***

**Revision: 1.0**

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| --- | --- | --- | --- |
| Date | Revision | Author | Description |
| 2021/6/22 | 1.0 | Lena Liu | Initial creation from team discussions |
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# Overview

For new feature requirements, the product team needs to evaluate and review it first. Next teams need to understand the requirement, then estimate the efforts for Design and Implementation.

# Requirement Summary

1. Breakers – automatically select the next available breaker number
2. Breakers – automatically select the next available breaker number

As a use case, if you are manually creating 14 x 3-phase breakers, then you need to remember the circuit number of the previous breaker.

It would be much easier if these fields were pre-filled with the next available circuit.

The user can change this if necessary.

1. Users should be able to bulk add, for example 14 x 3-phase breakers or 42 x 1 phase breakers

Generally, panels are filled with the same breaker phases, they will be all 3-phase or 1 phase breakers.

1. When defining breakers and there is only 1 panel defined, the panel name should be pre-filled.
2. It is possible to create a 3-phase breaker on an incorrect circuit.

In this example of a single-table, it should not be possible to create a 3-phase breaker on circuit 11. I suggest a just warning message, as this could happen, but in 99% of cases it will be a user error in VDC.

A screenshot of a social media post

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1. In addition - the voltage for the breaker must be derived from the PDU for the number of phases (this can’t be changed on the breaker).", this is a new requirement which need to consider

**Existing Feature:**

**New Feature Requirement:**

# Technical Requirements

*[Describe the technical requirements for the requirement.]*

# Outline Design

*[Outline proposed design, outline/block diagram, object definition, class organization, messaging, flow charts, sequence diagrams, database design etc. for the requirement.]*

**Outline Diagram:**

**Flow Chart:**

**Database Design:**

# UI Design

**Mockups：**

svn://10.10.10.26:3709/documents/VDC/VDCX/Devices/UI\_Design/PDU (6.5.1)

svn://10.10.10.26:3709/documents/VDC/VDCX/Devices/UI\_Design/PDU (6.5.1 Additional)

**UI Components:**

**UI Messages:**

# Use Cases

[Define use cases for initial test plans of the requirement]

# Implementation Notes

[*What clarifications have been discussed as the feature was developed?* ]

**Effort Estimation:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Task | Efforts (Hours) | Assignee | Comments |
| Front-end | Design |  |  |  |
|  | Development |  |  |  |
|  | **Dev Testing** |  |  |  |
|  | **Total Front-end Estimation** |  |  |  |
| Back-end | Design |  |  |  |
|  | API Development |  |  |  |
|  | DB Development |  |  |  |
|  | **Dev Testing** |  |  |  |
|  | **Total Back-end Estimation** |  |  |  |
| Testing |  |  |  |  |
| Bug Fixing |  |  |  |  |
|  | Total |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |