**LAB Resource Management**

**Software Requirement Specification**

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# Purpose

With lot of testbeds/resources spread across different departments/teams located across different geographies, there is a need for reserving a testbed to avoid multiple developers/testers using the same testbed at same time. Most of the times, developers/testers forget the time for which the testbed was reserved and keeps on using it after the prescribed amount of time. So, developers/testers have to be notified that their reservation is going to expire and then they can take actions to either stop using it or extending the reservation.

In some departments, few testbeds (of a device type) would be underutilized but in few other departments, there is a need for those types of testbeds. So, there is a need for admin to figure out the usage patterns and distribute testbeds uniformly across departments. Also, this information will be useful to determine if the business/company needs further devices/testbeds to be procured.

The testbeds should not be a flat list of devices because often developers need testbeds which are connected to each other to form a certain topology. So, there is a need for maintaining the topology and reserving all testbeds (of that topology) together for specified amount of time.

Sometimes, it is difficult to physically locate a testbed. So, the physical location like the Geography, Building, Floor, Rack etc information also has to be known for admins to manage testbeds.

# Definitions

Testbed – A resource/device that should be reserved and used by developers and testers.

Reservation – Blocking a testbed, so that no others are supposed to use it.

# References

# Revision History

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| --- | --- | --- |
| **Revision No** | **Description** | **Revised By** |
| **0.1** | **Initial Draft, Purpose** | **Mithun B S** |
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