**Index Verification / Retention /Merge**

**Requirements:**

1. **Index verification :**
2. **Can work alongside with merge**
3. **if Retention started before IV, Retention take the priority Index verification should wait.**
4. **If Merge notified that the Index Verification want to start it shouldn’t return any L3 index for merge for optimize process once index verification done it resume to normal process.**
5. **If Index Verification started before Retention , and Index verification detect Retention started on the group being verified , Index verification should Abort and wait to restart the process.**
6. **Retention :**
   1. **Should acquire 1 index so it reduce locking all the indexes for merge.**
   2. **Retention should lock / deactivate from DB search manager before start processing**
   3. **After finish retention should activate unlock the Index used**
   4. **Can retention solve the problem of MailId not found in current picked index but it might appear in next index, through building a history of MailIds not deleted , if it appear it start deleting it.**
   5. **If all the mailids in the index deleted DocCount==0 , delete the index**