Merge Issues:

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| Issue | Severity | Recommendation |
| 1. Loosing L3 index | Critical | DB Lock |
| 1. Overwriting Index | Critical | DB Lock |
| 1. Duplicating (L1,L3) | High | DB Lock / No SQL Job Reset. |
| 1. Inactive L3 index with files | Medium | Retry / Log & Event log |
| 1. Orphan Uploaded L3 Index with no DB records | Medium | Roll back |
| 1. Updating history (SetSearchIndex) | Medium | Control batch update |
| 1. Uploading L3 index | low | Can we make this faster? |
| 1. Unknown | Unknown | Will be reviewed during discussion |

Issues Description:

1. Loosing L3 index: if 2 workers (worker1,worker2) acquire L3 index folder , worker1 to upload its new L3 Index and worker2 to merge this L3 index , then worker2 will delete the newly created L3 index.
2. Overwriting Index: if 2 workers (worker1,worker2) acquire L3 index folder , worker1and worker2 to upload its new L3 Indexes, then the two workers will overwrite each other files and will lead to failure and corruption for the L3 index created.
3. Duplicate (L1,L3):
   1. Duplicate L3 : if 2 workers (worker1,worker2) acquire L3 index (IndexA) to merge .

The resulted two new L3 indexes (IndexB & IndexC) will have a duplicate copy of what was in (IndexA)

* 1. Duplicate L1 : if 2 workers (worker1,worker2) acquire same set/batch of L1 indexes

Because of SQL job reset or any other reason. The resulted two new L3 indexes (IndexA & IndexB) will have the same set/batch of L1 indexes.

1. Inactive L3 index with files: after deactivating and resetting the L3 index merged, while deleting this index and freeing up the space deletion fail.
2. Orphan Uploaded L3 Index with no DB records : after uploading new L3 index to ISLON

If uploading in the middle failed or If DB call to create the index fail we will end up with a L3 Index folder that have some files and not used, which will consume unnecessary storage.

1. Updating history (SetSearchIndex) : after merging the old L3 indexes to the new L3 Index we need to update the history (the L1 indexes associated with the old L3 index) , if update fail we are losing the relation between L1 & L3 indexes.
2. Uploading files : after merging locally the new L3 index there is a time wasted to upload this file to the new location , is there a way to see if File.Move can change the file pointer on ISLON then we don’t to have to copy this file over the network for example.
3. Unknown issues.