DEPLOYMENT

1. If any code change or new feature we need:
   1. Get notifications from Dev or Product Owner about code change and deploy to QA ( QA1 for deployment and change validation server ) Day time of new deployment, to send notification out in case if any testing process ongoing.
   2. We need to have from Dev team list of the changes and critical path for changes( in case if changes going to impact any other code or functional areas.
   3. Before any changes ( code, architecture, DB etc) we have to run Sanity test on QA1 to make sure we have report with current build/version status
   4. After each deployment to QA1 server, team will execute automation, and sanity check for major end 2 end scenarios to make sure regression and sanity pass ( if any regression issues, build will be marked as failed, and will not be accepted by QA team for additional testing.
   5. All deployment to the QA1 (QA2) servers must be performed from TeamCity or other CI/CD infrastructure ( No manual (copy / paste) process are not allowed!)
   6. If DB data is required to be backed up QA will request IT to run DB script to create a backup ( in case if QA need to check backup/restore or validate data for previous sets of group and users etc)
   7. TBD
   8. After deployment and test validation complete QA Team will send out test result and summary.
   9. TBD

QA DEPLOYMENT VALIDATION

1. As soon as QA gets notified by Dev team about new code change and request time for push to QA environment, QA will create a test run task in TestRail and execute sanity and automation (regression) test before any code changes.
2. QA will stop any activities after pre-push validation complete and will stand-by for new deployment push.
3. As soon IT(build eng) sends email out deployment complete and all services up and running, QA will start execute post-push validation with same sets of tests QA execute in PRE-Push validation, and provide compare results with any pass/failed results
4. If Regression(Automation script ) and Quick Sanity test failed, build will marked as FAILED sanity and will be returned to Development.
5. When Deployment on QA server complete and pass validation QA team will send email out with validation test report and attach a link to the test run from TestRail as a reference.

QA FULL FUNCTIONAL TEST RUN / RELEASE / PATCH VALIDATION

1. New product version / Release / Patch release required full functional / regression release validation. Depends on release, it may required to run additional tests include test cases created based on customer request or issues reported by customers
2. Full test run will include all functional test required to validate product ( currently available) include all P-1 and P-2 bugs fixed in previous versions.
3. As well full test will include advanced test cases ( additional test areas covered in user story validation during sprint)
4. Validation / Run executed on QA2 server only,
5. Prior to start full test run on QA2 server , DB and critical configuration must be backed up, in case any failure and restore process validation as well.
6. Build / New Version must be deployed automatically from Teamcity or other CI/CD infrastructure
7. Disaster recovery option should be available for additional test/ verification
8. Final Go-No-Go sign Off from QA
9. Release note with list of fixed bugs and new feature included in current release
10. TBD

QA VALIDATION on UAT / Stage

1. New Version / Release / Patch required sanity & Deployment validation only, no functional or any other test are required on STAGE/UAT
2. May required backup/ restore validation in case disaster recovery test.
3. TBD

QA Deployment / Push on PRODUCTION

1. New Version / Release / Patch required sanity & Deployment validation only, no functional or any other test are required on PRODUCTION
2. May required backup/ restore validation in case disaster recovery test.
3. Notification to customers about release date, time, and release note with bug/feature descriptions..etc