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QA Wiki:

<https://wiki.linaro.org/Platform/QA/Process/ReleaseSignoff>

<https://wiki.linaro.org/Platform/QA/Communication>

<https://wiki.linaro.org/Platform/QA>

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1. Daily Test

1.1 Dashboard, both Android & ubuntu:

<http://validation.linaro.org/lava-server/dashboard/image-reports/>

1.1.1 Sign in required;

1.1.2 Link Bugs, for example:

<http://validation.linaro.org/lava-server/dashboard/image-reports/leb-origen>

1.2 Report / Update bugs

1.2.1 When report new bugs, for example:

<https://bugs.launchpad.net/lava-test/+bug/1071269>

1.2.2 When update bug comment, for example:

<https://bugs.launchpad.net/linaro-ubuntu/+bug/1009328> (Comment #17)

1.2.3 When do nothing, for example:

<https://bugs.launchpad.net/linaro-ubuntu/+bug/1009326>

1.3 Review test result by the end of every week.

1.3.1 Review and update the Blueprint

<https://blueprints.launchpad.net/linaro-qa/+spec/linaro-12.10-daily-test>

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2. Weekly Test

2.1 How to pick up the weekly test candidate:

2.1.1 Android:

For Linaro Android platform, goes to Linaro Android Build Service page:

<https://android-build.linaro.org/>

Click the build you want, for example, Samsung Origen Jelly Bean Tracking Build:

<https://android-build.linaro.org/builds/~linaro-android/origen-jb-gcc47-samsunglt-tracking-blob/>

Then select the latest build & take a look at the "Test results" section to ensure most of the features are OK, and also take a look at the Android Daily Test Dashboard to go through the daily test result. If everything goes fine, then download it and start the test. If the test result is unavailable for the latest build, simply roll back to the previous one.

2.1.2 ubuntu

For Linaro ubuntu platform, goes to the Linaro ubuntu Daily Test Dashboard to take a look all the daily test result, if no significant problem, then goes to Linaro ubuntu pre-built page to download the same image as daily test dashboard shows:

<http://snapshots.linaro.org/precise/pre-built>

2.2 What test cases are release critical test cases and how did we define them initially;

2.2.1 Android:

For Linaro Android images, the release critical test cases are those marked with "d" in test spreadsheet, for example:

[https://docs.google.com/a/linaro.org/spreadsheet/ccc?](https://docs.google.com/a/linaro.org/spreadsheet/ccc?key=0AkxwyUNxNaAadDRDVI9TSHUweUk3eG9ndk9sNGxUVnc&pli=1#gid=5)

[key=0AkxwyUNxNaAadDRDVI9TSHUweUk3eG9ndk9sNGxUVnc&pli=1#gid=5](https://docs.google.com/a/linaro.org/spreadsheet/ccc?key=0AkxwyUNxNaAadDRDVI9TSHUweUk3eG9ndk9sNGxUVnc&pli=1#gid=5)

However, normally we will cover more test cases as release critical test even they are not marked with "d", for example: "sd-mmc", "audio", "WiFi", "Bluetooth", etc.

2.2.2 ubuntu

For Linaro ubuntu images, release critical test cases are marked by "[rc]", for example:

[https://docs.google.com/a/linaro.org/spreadsheet/ccc?](https://docs.google.com/a/linaro.org/spreadsheet/ccc?key=0AroPySpr4FnEdEowNWhZRi1zbDNNVUw1amhXTUdPcVE#gid=0)

[key=0AroPySpr4FnEdEowNWhZRi1zbDNNVUw1amhXTUdPcVE#gid=0](https://docs.google.com/a/linaro.org/spreadsheet/ccc?key=0AroPySpr4FnEdEowNWhZRi1zbDNNVUw1amhXTUdPcVE#gid=0)

2.3 Time matters:

All release critical test should be done before the end of every Monday, then finish the rest test before the end of Friday.

2.4 Alarm:

If something is seriously wrong, such like no display, boot failure, etc., we will send email to related team immediately, and we have a template for this kind of emails:

<https://wiki.linaro.org/Platform/QA/Communication>

2.5 Test Spreadsheets:

All test recorded in Google Spreadsheets:

<https://wiki.linaro.org/Platform/QA>

2.6 Time & Task Arrangement:

2.6.1 Task arrangement before the test starts, according to hardware and workload status.

Not everyone has all boards. We arrange our test work according to which board he / she currently has. Also, if another colleague is blocked by something, then the other one will take his / her work temporarily.

2.6.2 Weekly test summary report:

Before the end of every Friday, 2 test summary reports will be sent out to following 3 Linaro internal mailing list as a reference:

Linaro Release: linaro-release@lists.linaro.org

Linaro Dev: linaro-dev@lists.linaro.org

Linaro Android: linaro-android@lists.linaro.org

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3. Monthly Release Test:

3.1 Linaro Release Cycles & Release Day:

Before May 2011, Linaro release cycle is 6 months, then monthly release replaced it. The release day is last Thursday of every month.

3.2 Release Candidate Collection:

Monthly release candidate selection is different with weekly's - We ask for the release candidate images from Linaro Android team and ubuntu team instead of pick them by ourselves. Please refer to the first question in FAQ for more details.

3.3 Test Spreadsheets & Release Critical Test:

All test spreadsheets can be found here, in "Test Result Spreadsheets" section:
<https://wiki.linaro.org/Platform/QA>

3.4 4 days work

There are 4 working days in the week because the release day is Thursday.

3.5 Monthly Release Summary Report

As weekly test summary report, before the end of release day, a monthly release summary report will be sent to these 3 Linaro internal mailing list:

Linaro Release: linaro-release@lists.linaro.org

Linaro Dev: linaro-dev@lists.linaro.org

Linaro Android: linaro-android@lists.linaro.org

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4. FAQ:

4.1 How do we handle the last minute change in monthly release test?

Normally, last minute changes will be accepted because most of them are quite important. However, we still want to reduce this frequency as much as possible. For monthly release test, we ask for the release candidate, not pick them by QA itself. At the Thursday or Friday before the release week, we send emails to Linaro ubuntu and Android team to collect the release candidates, and then they will update these following 2 pages:

Android: [https://docs.google.com/a/linaro.org/spreadsheet/ccc?](https://docs.google.com/a/linaro.org/spreadsheet/ccc?key=0AnpUtxWjZbP9dGg0dW5pdDI2T1IOUFk1aEktOFh0ZXc#gid=0)

[key=0AnpUtxWjZbP9dGg0dW5pdDI2T1IOUFk1aEktOFh0ZXc#gid=0](https://docs.google.com/a/linaro.org/spreadsheet/ccc?key=0AnpUtxWjZbP9dGg0dW5pdDI2T1IOUFk1aEktOFh0ZXc#gid=0)

ubuntu: <http://pad.linaro.org/I1PUorDKiX>

For Android, once a release candidate goes to release branch as a formal release build, it usually won't be changed except something seriously wrong; for ubuntu, the release candidate will be shown on the notepad which Linaro ubuntu team shared.

4.2 If an issue has been there for a long time, what should we do?

Unfortunately we can't do too much here. Since we QA team is not responsible to development activities, at the end, the issue have to be solved by development or landing teams themselves. However, in our weekly and monthly test summary report, we will highlight the issue, and if it's a serious defect, for example, it will block our further test, then we will send email to the development team directly to raise their attention.

4.3 How to reduce the test time as much as possible?

An organised sequence is the key. Following a certain sequence, the time wasting and reboot request can be reduced to a minimum level. For example, file structure on both Android and ubuntu system will be created after first boot, which means after the first power on, those test cases without external media file should be executed as many as possible. Also, an

experienced engineer knows that which test case will possibly hang or crash the system, then those "dangerous" test cases can be executed at the end of single boot cycle.

4.4 How to train new starter?

Practise, practise, practise.

Linaro is a highly distributed organization, therefore, we have to use all possible methods to communicate between each other. However, in a very few situations, some of our colleagues are living in same city, then that will be a wonderful chance to do a face to face training.