

1



One Laptop per Child

XO Camp User Input and Roadmap Example

All Dates and Features Subject to Change

Agenda

- 1) Deployment and User Types
- 2) Synthesized Top Requirements
- 3) Possible 9.1 Roadmap

Types of Deployments

Small deployments 50 – 1000 XO's

Often run solely on the documentation and possibly mailing lists.

More deployments like this expected

More flexible and able to deploy rapidly.

Large “trial” deployment 1K – 10K XO's

High profile trials come up quickly and have tight time frames

May engage via tech support e-mail and visits by OLPC staff

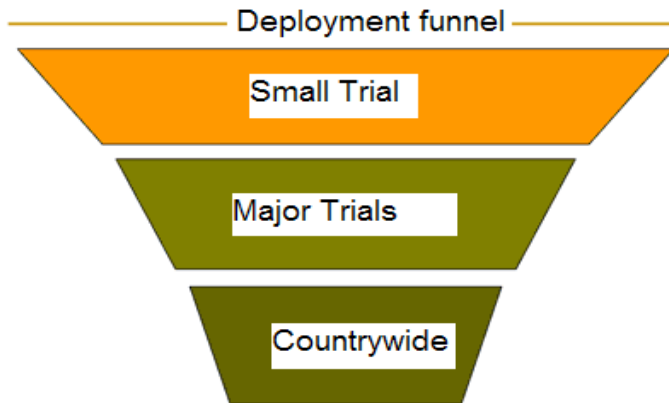
After initial deployment, feedback can taper off

Mature deployment 11K – 300K XO's

Usually some SI and extensive in country support system

Regular meetings with 1CC, list and tech support engagements

Must succeed at each stage to move on



We don't hear details from all deployments
Some go on, some stop, some move to other platforms
New major trials start at least once a quarter
Watershed for success is to get XO's in the schools

Deployment Examples

Two Small deployments

- South Africa

Several hundred XO's in a few schools. Using 8.2, no school server. http://wiki.laptop.org/go/South_Africa

Not many questions seen on the lists.

- Colombia

Several different deployments, one (Itagui) may become major trial. http://wiki.laptop.org/go/OLPC_Colombia

Some have engaged on Sur or Colombia lists, others are quieter.

- Dozens more with varying levels of communication

Deployment Example

Large Trial Deployments

- **Nepal**

Going from 100s to 1000s of XOs. Details from Bryan later.

- **Haiti, Rwanda, Mongolia**

~10K XOs each. Intermittent feedback. Upgrade, imaging, power, languages dominated early comments.

Mongolia on 8.2. Rwanda and Mongolia considering servers.

- **Ethiopia**

~4K XOs with custom applications and build 70x

Ongoing discussions re: servers and image customization

- **Paraguay**

Done teacher training, plan ~4K 8.2 XOs and XS in a few months

Super docs: <http://wiki.paraguayeduca.org/index.php/Portada>

Deployment Example

Mature countrywide deployments

- Uruguay

100K+ XOs w/custom 656. ~100K more to deploy in 2009 with 8.2. Plan to upgrade all to 8.2 in mid-2009

Customer school server

Regular calls with 1CC, huge user support team, SI, active lists

- Peru

Approaching 100K Xos with 70% in schools

Plan to deploy 100K+ in 2009, plan to roll out XS

Regular calls with 1CC, active community and support from Ministry of Education

Types of feedback

Systems integrators

Mostly technical comments. Want control over image and security

Challenge to get XOs and network deployed

Also driven by education requirements (e.g. book reader)

OLPC employees visiting countries

Varies, but similar to SI comments. Also requests for new activities or learning tools (e.g. sharing files)

Pedagogical, learning and ministry of education

Activity functionality issues and content requests.

Need XOs to work reliably in teacher trainings

Teachers and students

Feedback from lists or via channels above.

Questions on what is supposed to work and how.

Top 10 requests – Not in Priority Order

See: http://wiki.laptop.org/go/Feature_requests

1 - Activation lease management

SIs in Uruguay, Peru, Ethiopia

2 - Longer battery life

OLPCers and SIs: Rwanda, Haiti, Ethiopia

3 - Reliable synchronous collaboration

Teachers, OLPCers: Uruguay, Peru, teacher trainings

4 - Reliable touchpad

SI, Teachers OLPCers: Peru, Uruguay, Nepal etc.

5 - No lost files

OLPCers, Teachers: Peru, Uruguay

Top 10 requests – Not in Priority Order

See: http://wiki.laptop.org/go/Feature_requests

6 - Performance improvements

SIs, OLPCers: Peru, Uruguay

7 - Projects and asynchronous collaboration

OLPCers, SI, MeD: Peru, South Africa

8 - Chinese, Nepali, Arabic and Amharic support

SIs, OLPCers: Jordan, Palestine, Nepal, China

9 - More easily run any Linux application.

MeD, Teachers, SIs: Ethiopia, Peru

10 - Full Flash and Youtube support

Teachers: Peru, Uruguay

One Laptop per Child

Possible 9.1.0 Roadmap

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Top Priority

http://wiki.laptop.org/go/9.1.0#Top_Priority

- 1 – Rebase on F10 and allow "regular" Fedora window managers and applications.
- 2 – Activation/lease/signing/image customization.
- 3 – Power management. Some key features in Category:Power management
- 4 – Localization/translation: Arabic, Chinese, Amharic, Nepali

Standard Fedora, Part 1

Rebase on Fedora 10

Function

- Migrate base XO Software to Fedora 10
- Extend support time frame
- Take the latest security and network infrastructure
- Push as much XO software upstream as possible

Benefit

- XO code in Fedora provides more efficient engineering in future
- Opens XO development to 100s more developers

Challenges

- Potentially large engineering effort
- Little user visible benefit
- Not all XO code upstream. Sets the stage for that in late 2009

Feature definition:

http://wiki.laptop.org/go/Feature_roadmap/Rebase_on_Fedora_10

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Standard Fedora, Part 2

Fedora Desktop and Applications

Function

- Boot to Fedora desktop (e.g. Gnome) or boot to sugar, both loaded from NAND Flash
- Run any Fedora Linux apps that fit in HW (Flash, RAM, CPU, Video)
- May be two SKUs: 1 - Fedora Desktop + Sugar. 2 – Sugar only.

Benefit

- Uses well tested and reliable operating system
- Easy access to many more applications!

Challenges

See: http://wiki.laptop.org/go/Feature_roadmap/Run_Fedora_applications_on_XO

Deployment Control of Customization and Security

Function

- Time based lease management controlled in country.
- Self signing of SW with activities, languages and customizations.
- Faster upgrade of XOs in “warehouse”

Benefit

- Deployment controls security and image customization
- Fewer delays on initial roll out

Challenges

Feature definition:

http://wiki.laptop.org/go/Feature_roadmap/Faster_imaging

http://wiki.laptop.org/go/Feature_roadmap/Activation_lease_security

http://wiki.laptop.org/go/Feature_roadmap/Image_signing_key_delegation

Longer Battery Life

Function

- Sleeps modes on by default

Benefit

- Extends battery life and lowers cost for power hardware in schools

Challenges

Feature definition: http://wiki.laptop.org/go/Feature_roadmap/Improved_battery_life

Translation Updates

Function

- Enabling Chinese, Amharic, Nepali in Sugar
- Update to latest translations

Benefit

- Enables deployments in those countries

Challenges

Feature definition: http://wiki.laptop.org/go/Feature_roadmap/SCIM

Second Priority

1. Performance
2. Synchronous collaboration (reliability)
3. Asynchronous collaboration (server side and XO to XO file transfer)
4. Flash support

Example Response to top priorities from deployments

1 -- Power

- High priority for 9.1
- Need feedback from deployments on 8.2 implementation

2 -- Touchpad still jumpy on some XOs

- May be better in 8.2. Need more feedback from deployments
- New touchpad hardware coming. That should be much better

3 -- Asynchronous collaboration and building projects

- Need more discussion possible XS solution in the future
- Moodle will be available but not sure if this addresses learning needs.

4 -- Lost files

- Should be much better in 8.2. Need more feedback from learning on 8.2.
- May do additional work to make journal more reliable in 9.1

Example Response to top priorities from deployments

5 -- Server (updates, backups prevent lost work)

- Backups available in 0.5 (just released)
- May make restore more elegant.
- Can do presentation on server capabilities and roadmap when needed.

6 -- Synchronous Collaboration

- Many bug fixes and improved scale in 8.2
- Presence (seeing all Xos reliably) is still inconsistent. May be able to improve this when using an XS
- Some bug fixes possible in 9.1 but not top priority.

7 -- Application to sugarize activities and more activities including development environments

- Top priority in 9.1 to run standard Fedora
- Could make “sugarization” easier but not planned for 9.1 right now.
- Need a list of priority applications from learning team

Example Response to top priorities from deployments

8 – Improve PDF book experience

- Small change to make it easy to open PDF directly in browser planned.
- May make 8.2.1 or 9.1

9 -- Translations

- More translations in 9.1
- Easier inclusion of latest translations under image customization feature

What's missing?

1 – Activities and pedagogical break-through ideas

Worked on outside core OLPC team, aside from run Fedora apps.

2 – Integrated solutions with XS

Underway (e.g. Moodle plans) but needs better coordination.

3 – Reliability

To be addressed in bug prioritize/triage process

4 – Updated journal and any other “sugar” items

5 – Datastore rework

6 – Other?