

OlpcSchoolServer

<http://marketfort.com/wp-content/uploads/2007/09/olpc-flip-screen.jpg>

The OLPC Laptop [<http://laptop.org/>] is a unique machine with features created specifically for children. However it is virtually worthless without a supporting ecosystem. Apart from mundane things, such as power and some form of connectivity - the key enabler is integrate this tool into the learning environment.

Doing so requires several things:

- Applicable and appropriate teaching tools which fit within the established practices, are understood by those who have to work with them - and which clearly aid, add or improve existing tools.
 - Including a group of dedicated local domain experts and influencers which have a clear, locally applicable, vision.
 - Including a set of (collaboration) tools which allows for the creation and coordination around those.
- A deployment infrastructure within the learning environment which ensures ready access to school training, teacher training, IT-caretaker training, run-books, call-for-tender and contractual approaches. Including viable business models for the above group.
- A support ecosystem; allowing for provisioning the infrastructure; i.e. ensuring connectivity, wifi, that printing works and a matching stack of support; tuned to the turnaround times required and staff available within schools.
- A backing eco system - allowing for cross project coordination, warranty, repairs, DoA, bulk provisioning and so on within the local market.
- The actual OLPC laptops 😊

Now one of the bootstrap issues is that none of this is in place.

The approach of OLPC is to firmly approach this bottom up. Following that cue - the obvious step is ensuring some sort of provisioning platform which allows a few 10's to 100's of OLPCs to function within an educational environment. Ensures that people can get their materials, collaborate, interact, print.

XS is the name of the [SchoolServer](#).

It will be shipped with XO's (olpc laptops) on their projects. The purpose is to server schools with:

- Local content
 - Publishing, Accessing
 - CMS and portal of sorts
 - Storage, Editing, Sharing, Collaborating
 - Keep in mind that the OLPC produces rich data; from physical measurements, recordings to photos and text files.
 - Local services, synchronization for collaboration purposes.
 - A SDK, JDK, framework, portal, or CMS or akin into which you can plug educational components/backend services. Modular?
 - Administrative services to aid the educational processes (tracking, statistics, inventory, attendance, records).
- Above local content may well 'mesh' with content at other schools or locations; and various CMS systems will be relatively distributed and/or federated.
- http caching / filtering
- XO backups.

Hardware is

- small,
- limited in CPU and Memory
- rugged for harsh environments.

Software:

- smart
- child friendly
- secure

Purpose of the BOF:

- collecting ideas / concept to build an XS
- start thinking about the (web) publishing frameworks required.
- getting people in XS-dev group
(even for short moment to bootup this smart concepts...)

Contact:

- [MartenVijn](#) (OLPC-nl grassroots)
- Martin Langhoff (OLPC)

Find us at the OLPC stand in the main hall, at the BOF or later on:

- irc : irc.oftc.net #schoolserver
- mailing list: <http://lists.laptop.org/listinfo/server-devel>

http:

- http://wiki.laptop.org/go/School_server
- http://wiki.laptop.org/go/XS_Roadmap
- http://wiki.laptop.org/go/Summer_of_Code

slides:

<http://martenvijn.nl/svn/olpc>