

SAAS BASED LMS - A BOON TO LIBRARIES

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Technological
Developments
have influenced
virtually every facet
of library operations
and services

PROBLEMS OF COMPUTERIZATION OF LIBRARY RESOURCES

- ◉ **Manpower** : Shortage & Suitable availability
- ◉ **Space**
- ◉ **Money** : Financial Resource Crunch
- ◉ **Technology**: Changing fast. Updation difficult.
- ◉ Selection of suitable LMS
- ◉ Hidden costs of keeping current library staff and libraries

THESE factors work against Library Automation

97% of libraries are not yet automat

WHAT IS THE SOLUTION ?

- ◉ Application Service Provider (ASP Model) software use on an 'As and When' basis.
- ◉ SaaS Approach

SAAS AS A SERVICE PROVIDER

- ◉ Software - as - a service (SaaS) model
- ◉ SaaS Applications :
Successfully applied in :
 - Sales force automation
 - Computerized billing
 - Invoicing
 - HRM
 - Service desk management

WHAT L&IC HAS TO DO ?

- ⦿ Purchase only low end PC having a web browser.
- ⦿ Need a fast and reliable internet connection to L&IC.
- ⦿ Library has to pay one time set up fee and user charge to saas service provider.
- ⦿ Rs.1 per resource per annum. Taxes applicable
- ⦿ Data entry of resources and circulation

- ◉ UK, USA & few in India have successfully implemented SaaS concept.
- ◉ SaaS concept is more useful, economical & appropriate for Indian L&IC.
- ◉ LIBRARY HAS NOT TO PURCHASE THE LMS.

WHAT A SAAS SERVICE PROVIDER (VENDOR) WILL DO ?

- ◉ Host suitable LMS on a remote server somewhere in the internet cloud. LMS Database will be stored on the remote server which is highly secured and managed centrally. LMS has to follow all international standards like MARC21, 23950, AACR2, MARCXML, ISO 2709, etc. and having UNICODE (Multilingual) facility.
- ◉ Provide total IT support.
- ◉ Provide total maintenance
- ◉ Generate all types of reports needed by Library & Information Centre.
- ◉ Provide help in sharing of resources.
- ◉ Provide 100% protection to data - virus free, no data corruption, highly secured and managed centrally under any disaster.
- ◉ Automatically provide future updates for LMS along-with new technology developments.

WHAT A SAAS SERVICE PROVIDER (VENDOR) WILL DO ? (CONTD.)

- ◉ Provide automails to members for overdue resources - few days before and after, if not renewed i.e. Auto reminders with no personal intervention.
- ◉ Provide required multiple backups regularly - Auto Back ups.
- ◉ Provide completely hosted web-based solution.
- ◉ Provide feature rich applications.
- ◉ Library can extract data from Z3950 servers.
- ◉ Library can make catalogue live.
- ◉ Creating an own network is possible.
- ◉ Provide facilities for library staff to access the library resources with a user ID and password. No one can see or access library data without permission of librarian.

BENEFITS TO LIBRARY

- ◉ Simplicity
- ◉ Reliability & Security
- ◉ Scalability & Up-to-date
- ◉ Usability

IMPORT OF RECORDS BY LIBRARY

- ◉ Library can import records from
 - Any MARC Record
 - Any Z3950 Server
 - Master Database
 - Publisher's catalogue

INFRASTRUCTURE NEEDED WITH SAAS PROVIDER

- ◉ State-of-the art Internet Data Centre
- ◉ High-End Server
- ◉ Microsoft Windows 2003 Server
- ◉ Microsoft SQL Server
- ◉ Norton Antivirus
- ◉ Firewall
- ◉ Redundant Links
- ◉ Redundant Power Supplies

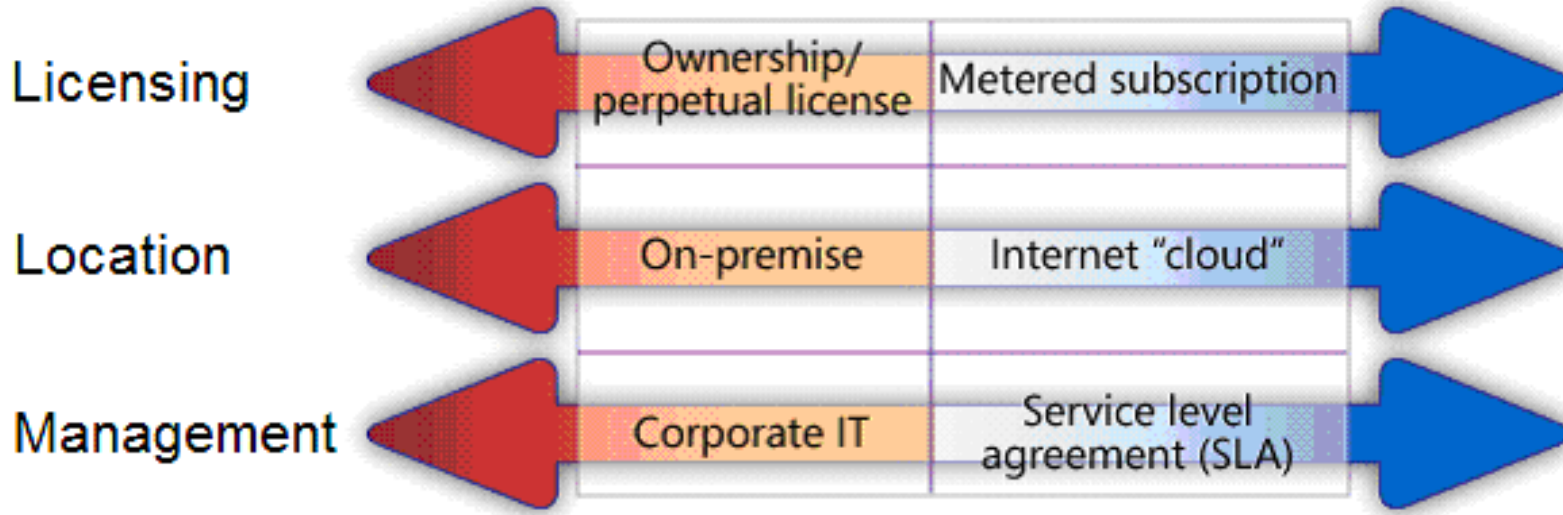
SAAS LMS AGAINST TRADITIONAL LMS

SaaS Technology Advantage

Decision Factors	SaaS based	Old Client/Server
Total Cost of Ownership	Totally integrated into one database; no extra costs!	Many Modules/Multi-Vendors (Incremental cost for each)
Data Storage	Hosted professionally; no servers needed at your !	Local, Proprietary
Data Safety	Encryption, virus protection and daily/weekly backup.	Tech-savvy personnel must be provided at additional time and expense.
Data Conversion	Free! Included and done in about 3 weeks after receiving your data!	Charge to set up your server and convert your data.
Off-Campus Access	24/7, from any Internet computer.	Third-party software required, at an additional expense.
Patrons Website	webOPAC integrated with automated data publishing.	Additional module; requires multi-step publishing process.
Data Sync	Auto-flows throughout to all sections and webOPAC!	Manual Entry/Copy/Paste between programs.
Hardware Considerations	No servers to buy; SaaS provider manages your data for you.	Costly hardware; tech-savvy personnel required for operations.
Maintenance/Support	Telephone and web-based tech support is included with monthly fee!	They charge to come and solve problems. (+ travel costs)
Guarantee	Money-Back Satisfaction Guarantee!	???

Commercially available LMS

SaaS based LMSTM



EXPLANATION OF ANNEXURE I & II

- ◉ Cost benefit analysis for commercially available LMS Vs SaaS based LMS for three years.
- ◉ There are two types of costs involved:
- ◉ [A] Fixed cost : (a) Hardware cost
(b) Software cost
- ◉ [B] Variable cost.

Commercially available LMS

[A] TOTAL FIXED COST
 includes cost of Desktop
 PC, Dumb Terminal for
 OPAC, Window XP Software

= Rs,67,600/-

[B] VARIABLE COST
 Includes cost of main-
 tenance Engineer, AMC for
 LMS and Antivirus SW

= Rs.11,900/-

SaaS based LMS

[A] TOTAL FIXED COST
 includes cost of Dumb
 Terminal and one time
 set up cost.
 and cost of LMS.

= Rs,15,000/-

[B] VARIABLE COST :
 Includes cost of user
 charge; Hosting fees
 per resource & Taxes

= Rs.12,353/-

Hence Total cost for first three years is :

	<u>Commercially available LMS</u>	<u>SaaS based LMS</u>
1 st Year	69,500/-	27,353/-
2 nd Year	13,900/-	12,353/-
3 rd Year	13,900/-	12,353/-
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	Rs.93,300/-	Rs.52,060/-

Hence total benefit for first three years for SaaS based LMS is **Rs.41,240/- for Library having 5000 resources.**

ANNEXTURE - II IS FOR LIBRARY HAVING 50,000 BOOKS AND OTHER RESOURCES

If we calculate as per above then,

- ⦿ First three years benefit for library having 50,000 books would be :

Rs.2,18,880/-

SUCCESSFULLY IMPLEMENTED SAAS CONCEPT AT FOLLOWING L&ICS IN INDIA :

- ◉ DHL
- ◉ Jain Library
- ◉ The chipper sage
- ◉ Discover kinds
- ◉ KALIB India
- ◉ COMPASS Library
- ◉ Firestone Library
- ◉ Private Institutions (Their own data centre)