

## **E- Projects: An Effort to Build the Collection for Quality Enhancement**

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### **Abstract**

The libraries are efficiently using the technology now from a long time. The libraries has successfully adopted newer techniques of technology and providing OPACs to remote access to resources invariably. The technology has change the way of library functions and services remarkably. Digital Technology and the open access movement have changed the scholarly publishing world. It has a tremendously changed the pace of accessibility of the same. Even though the voluminous information is being accessed through World Wide Web; but the major research outcome still cannot accessed freely. The digital institutional repositories are growing now days for building up the scholarly collection of the Institution.

This paper is an effort to build the collection of e-project reports for the benefit of the student community in the organization through the Institutional repository developed using d-space. This is an effort at the institutional level taken to digitise the project reports by providing a single access point through INTRANET. Through this initiative entire student community of the institute can access the wholesome collection uploaded in the repository through the open accessibility.

**Keywords: Open Source Software, Dspace, Institutional Repository, MES IMCC**

### **1.Introduction**

The basic objective of a Digital Institutional repository is to collect, preserve, index and distribute the intellectual information sources of the institution mainly scholarly publications of the institutional faculty. It's a vital tool in sharing and reusing the resources and provides wide and effective accessibility. As far as academic institutions are concerned the digital institutional repositories are created to share the intellectual output of their own by the way of acquiring in a centralized manner, preserving and making it accessible. The concept of institutional repository is not new in India and institutions of national importance such as National Chemical Laboratory, Pune Indian Institute of Management, Kozhikode National Institute of Technology, Rourkela Information and Library Network [INFLIBNET], Ahmadabad etc. created the open access institutional repositories. These are disseminating the research output of the respective institutions. The concept has taken root and the academic

colleges and institutions at the state level offering professional postgraduate courses are also making a positive effort in this direction.

In this paper how a small Indian Management Institute MES's IMCC, Pune is providing an effective accessibility to the e-projects through maintaining a digital institutional repository with an available resources is discussed.

## **2. About MES IMCC**

MES's IMCC was established in 1983 by the Maharashtra Education Society, Pune. The Institute provides quality education and technical expertise at the post graduation level . it is recognized by Savitribai Phule Pune University under sector 85 of Maharashtra University Act 1994. It has a total 30.000 sq.ft built up area at Mayur Colony Kothrud, Pune. The institute runs AICTE approved MCA Programme under the Management discipline. It also runs other corporate management programs on the campus. The institute has also a research centre recognized by Savitribai Phule Pune University, Pune.

A separate regular study centre of IGNOU is also available on the campus since 2014. The centre runs MP (Management Programme-MBA), BTS and MTM (Tourism Programs) CIT, CBS, CNM and *entire library science programs* such as BLIS, MLIS and PGDLAN.

### **2.1. About MES IMCC Library**

The Library was established in 1983 and plays a major role in satisfying the information resources requirements of the entire user community and thus supplements various study and research programs of the Institution. The users are mainly research scholars, faculty members management body members and the students. The Library has a very rich collection of print and non-print information resources providing accessibility to ASPP (IEEE) and Infotrac-Management Collection On-line databases etc. on the Institutional campus. The collection of the library is focused on Management Science, Computer Science, Law and other allied subjects. It acts as a supplementary source for the users which is developed by focusing on the needs and requirements of them.

## **3. About D-Space**

Dspace is an open source system. This system is developed by Massachusetts Institute of Technology (MIT) Libraries and Hewlett-Packard Labs in a collaborative manner. The major goal behind the development was to act as a repository for the digital research and

educational material produced by members of a research organization. Its first version was released in November 2002.

The major advantage of DSpace is that it provides an open access to all types of digital content including text, images, moving images, mpegs and data sets. Its free accessibility and easy to use features increasing its usability. Its acting now as a vital platform for the higher education institutions in sharing the research output of their own. The software is very well used by the museums, state archives, the libraries at the state and National level, as well as the commercial companies for managing their digital assets.

### **3.1. Customization of Dspace**

After installation, always there is a need to customize the Dspace for satisfying the institutional needs. The system has provided various ways to customize the same and make it more suitable for the parent organization.

### **3.2. The major customization ways are**

#### **i. User Interface**

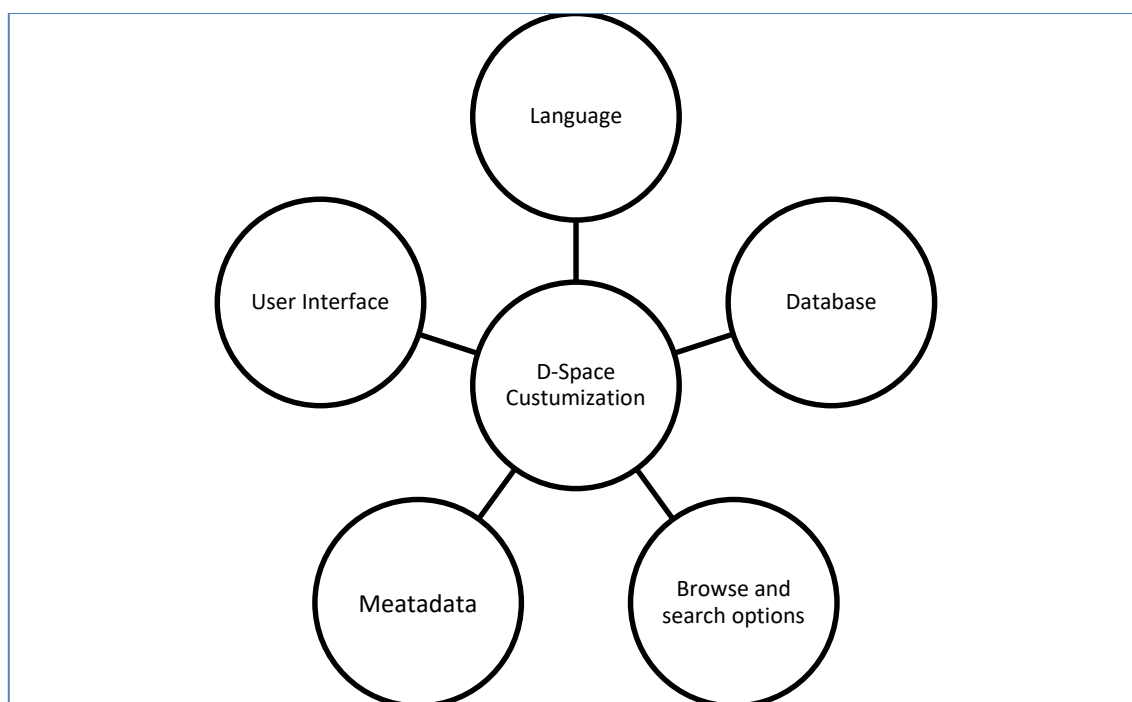
- a. The system has provided the facility to fully customize the user interface and the user can create their own website feel to the same.

ii. **Metadata Customization** – as a system administrator the fields can be added or can be change as per the need.

iii. **Browse and Search customization**- the browsing fields also can be customized. The fields of display can be selected such as author, title and date on the d-space website. Further the metadata fields also can be selected for the search interface.

iv. **Configurable database** -You can choose either PostgreSQL or Oracle for the database where DSpace manages its metadata.

v. **Default language** – the major advantage of dspace is it is available in over 20 languages .therefore the organization can customize the language which DSpace uses. The multiple language support is also provide by the system.



**Fig:1.1: D-space Customization Options**

#### **4. Digital Institutional Repository of MES IMCC : building the Collection of e-projects**

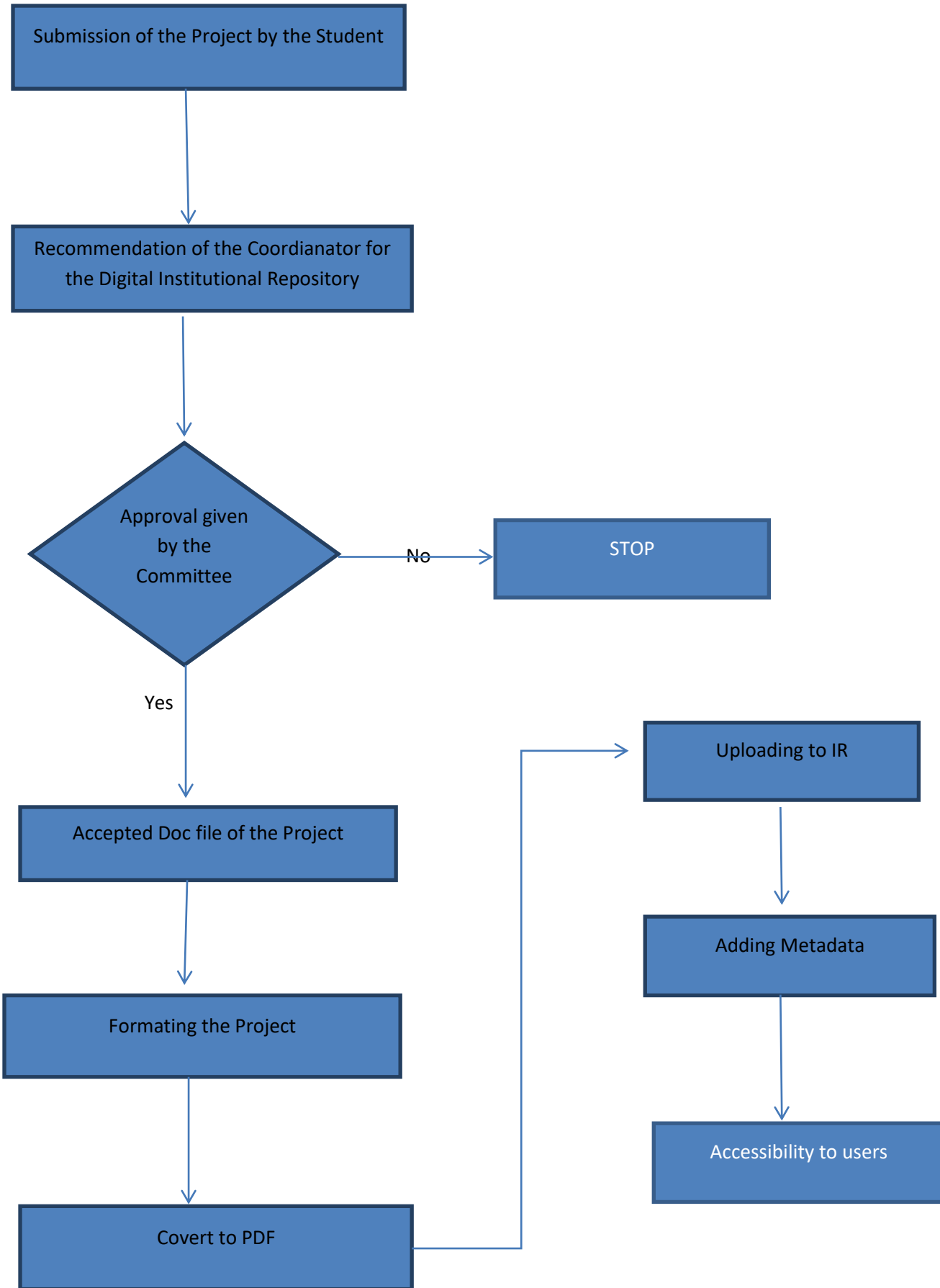
Developing a digital institutional library for the MES IMCC was a prior need , as the needs of the user segments were changed and priorities were given to accessibility of e-resources. It was studied that majority of the collection such as Summer Projects, Question Papers and syllabus are in print format and further providing access to the same by creating e-version has become a need of the hour.

It is realised that the most demanded collection for e-accessibility was the project reports collection. Library acquires a total 150 project reports every year . Students have to complete the project report in the last semester of the program. Thses project reports are prepared under the guidance of the faculty members and in various reputed organizations. The students have to present the report before the evaluation committee. The selected summer projects received the approval of the committee as a reference material and are acquired in the library collection. The management of theses project reports in the library including their shelf arrangement was becoming troublesome due to the space problem. As mentioned earlier, the need for e-projects was indicated by the user community as well. Therefore the a digital Institutional Repository at MES's IMCC, Pune, India using the Open Source D-Space Institutional Repository Software was set up to capture and preserve the research projects and

related contents in digital form make it available on Intranet to the students and faculty members on the Institutional campus; serve as mediator between the digital research content and the users through the Intranet Institutional Repository for providing easy access to the Institutional research collection.

These project reports are acquired in the word format from the department, further the format checking and text alignment and formatting is done in case if required. The Word Text file is converted to PDF and the collection is uploaded in the digital institutional repository. Lastly the metadata is added and the accessibility is given to the users through the repository.

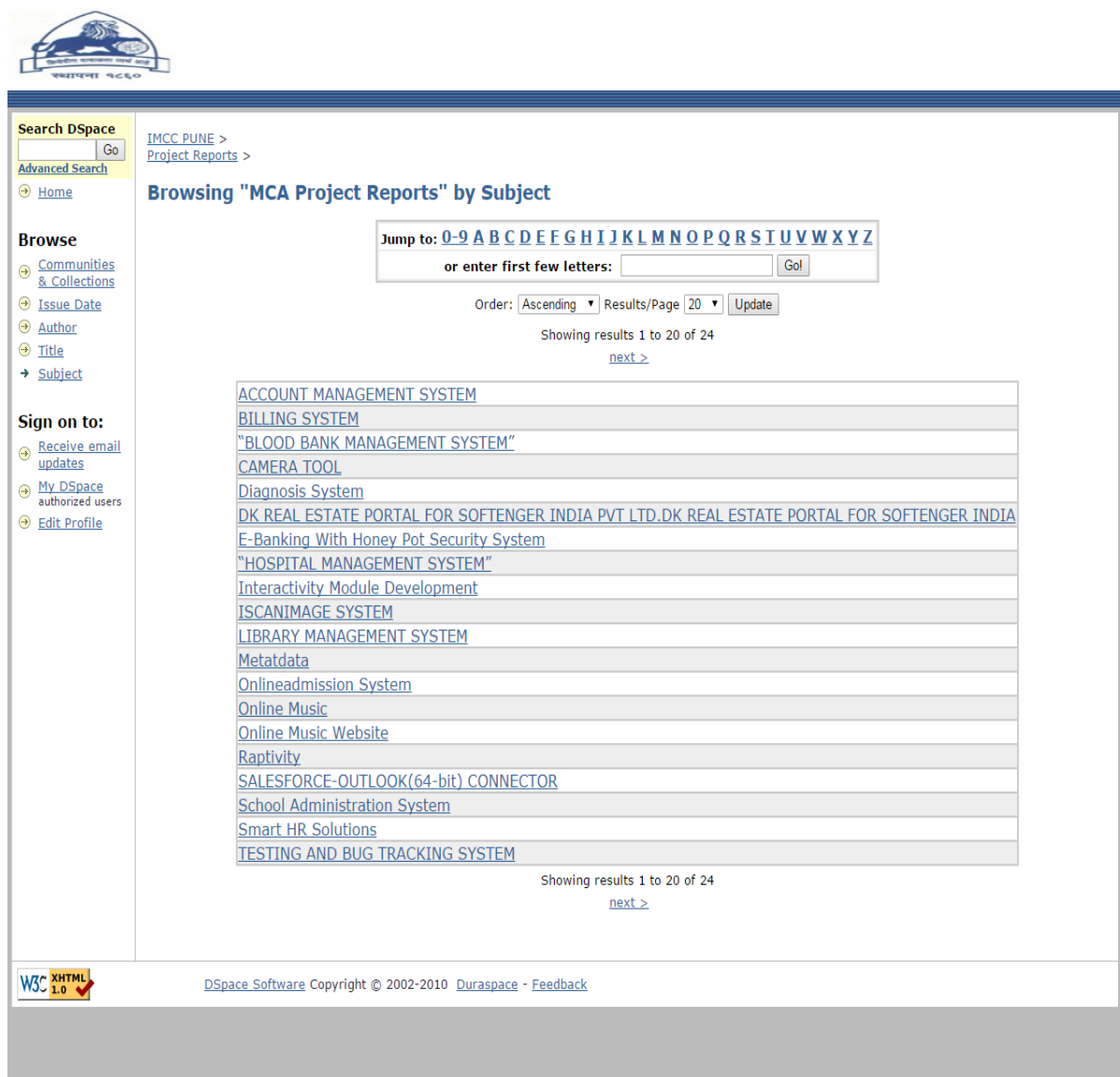
These e-projects are treated as reference materials; due to technological support the library is now able to provide these project reports to the entire students as well as the faculty community on the institutional campus. The idea is very well appreciated by the user community as they are finding it as a helpful tool. The concept of digital institutional repository is guiding the students in getting an idea about the project, its varied aspects such as way of presentation etc.



**Fig:1.2: A Flow Chart Diagram showing the process flow of e-projects collection buiding**

#### 4.1. Digital repository Working and accessibility of e-projects

e-projects uploaded in the Digital Institutional Repository, can be accessed by Title, Author, Keyword. As mentioned earlier all the projects are converted into before uploading to d-space. The collection is started developing since 2015. At present the collection consists of variety of titles of projects focusing on billing system, automation, etc. Each project on average basis consists of 120 pages.



**Fig. 1.3: MES IMCC Digital Institutional Repository showing the Collection of Sub-Community- MCA e-projects**



The screenshot displays the MES IMCC Digital Institutional Repository interface. On the left, there is a navigation menu with sections for 'Search DSpace', 'Browse', and 'Sign on to:'. The main content area shows a project record for 'CAMERA TOOL FOR NVIDIA GRAPHICS PVT LTD.' with the following details:

- Title:** CAMERA TOOL FOR NVIDIA GRAPHICS PVT LTD.
- Authors:** Marathe, Aditi
- Keywords:** CAMERA TOOL
- Issue Date:** 11-Dec-2015
- URI:** <http://hdl.handle.net/123456789/202>
- Appears in Collections:** [MCA III](#)

A table titled 'Files in This Item:' lists the following files:

File	Description	Size	Format	
<a href="#">Intro to Conclusion.pdf</a>		2.01 MB	Adobe PDF	<a href="#">View/Open</a>
<a href="#">Biblio To Annexure.pdf</a>		569.19 kB	Adobe PDF	<a href="#">View/Open</a>
<a href="#">Chapters.pdf</a>		78.23 kB	Adobe PDF	<a href="#">View/Open</a>
<a href="#">First Page.pdf</a>		20.79 kB	Adobe PDF	<a href="#">View/Open</a>

Below the table, there are buttons for 'Show full item record' and 'View Statistics'. At the bottom, a footer indicates 'Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.' and 'DSpace Software Copyright © 2002-2010 Duraspace - Feedback'.

**Fig: 1.4: MES IMCC Digital Institutional Repository : accessibility to the full text project through e-Collection**

## 5. Conclusion

It has become necessary for the library professionals consider the changing expectations of the users and continually strive to provide quality service to its users. There is a need to adapt and adopt for providing more effective and expected library services to the users. Information and communication Technology (ICT) has a tremendous impact and it has transformed all the library functions as well as the services.

The need of present scenario is to enhance the quality of library services by incorporating IT-based resources and services for customer service. The use of IT related services such as developing Institutional repository, an adequate collection of online databases, etc. are the current requirements of users. The libraries have to focus on building the digital archiving mechanism for their institutional developed resources. This will help in strengthening the Institution. The digitization and its effective accessibility through the Institutional repository is the better option for meeting the changing demands of the user segments in current era.

## References

1. Manjunatha, K. (2012). Digitization and Digital Repositories. *Creating Wisdom and Knowledge Through Shared Learning*. 1-8. New Delhi: Management Libraries Network (MANLIBNET).



2. Chowdhury, M. H. etc. (2011). Building Institutional Repositories in Bangladesh Using Dspace: A New Paradigm of Scholarly Communication. *Library Philosophy and Practice*, Retrived February 12, 2013, from <http://digitalcommons.unl.edu/libphilprac/553>.
3. Doctor, G. (2006). Implementing an Institutional Repository. *Technology and Management Trends Perspectives and Opportunities for Library*.Sept 18-20,2006, 15-22 . Ahmedabad: Allied Publishers.
4. DSpace Foundation. (n.d.) Dspace (Brochure). Retrieved September 7,2016 from [http://www.dspace.org/sites/dspace.org/files/dspace%20brochure\\_v4.pdf](http://www.dspace.org/sites/dspace.org/files/dspace%20brochure_v4.pdf)
5. Sinha, Manoj Kumar and Bhattacharjee, jayanta.(2006). *Developing Institutional Repositories : A case Study ASSAM University, Schar*. Paper presented at Planner 2006, Aizawl.<http://ir.inflibnet.ac.in/handle/1944/1271>

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