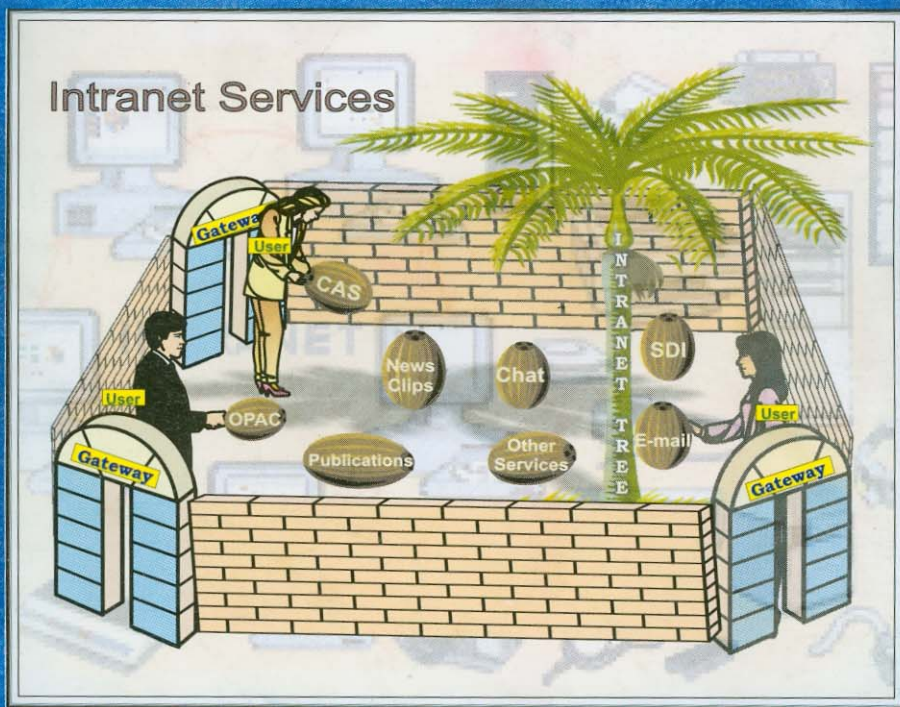


# DESIDOC BULLETIN OF INFORMATION TECHNOLOGY

Vol. 24

January 2004

No. 1



**DEFENCE SCIENTIFIC INFORMATION  
& DOCUMENTATION CENTRE**  
Defence Research & Development Organisation  
Ministry of Defence, Metcalfe House, Delhi 110 054



# DESIDOC BULLETIN OF INFORMATION TECHNOLOGY

*DESIDOC Bulletin of Information Technology* endeavours to bring recent developments in information technology, as applicable to library and information science, to the notice of librarians, documentation and information professionals, students and others interested in the field. It is published bi-monthly.

The articles published in the Bulletin are indexed in *Library and Information Science Abstracts (LISA)* and *The Informed Librarian*. The full text of *DBIT* is being reproduced in electronic databases of HW Wilson Company, namely, *OMNIFILE Full Text Select* and *OMNIFILE Full Text Mega*. The Bulletin invites original research and review papers relating to information technology as applied to library activities, services and products. Intending author(s) may contact the Editor for further details regarding submission of papers.

---

## Editorial Board

### Chairman

**Dr Mohinder Singh**, Director, DESIDOC, Delhi

### Members

**Dr N Vijayaditya**, Director General, NIC, New Delhi

**Dr JR Arora**, Advisor, BTIS, Department of Biotechnology, New Delhi

**Prof S Arunachalam**, Visiting Professor, IIT Chennai

**Shri Harjit Singh**, Senior Advisor, Ministry of Environment & Forests, New Delhi

**Dr A Lahiri**, Advisor, DSIR, Ministry of Science & Technology, New Delhi

**Dr TB Rajashekar**, Associate Chairman, NCSI, IISc, Bangalore

### Member Secretary

**Ashok Kumar**, Scientist E, DESIDOC, Delhi

## Editorial Staff

### Editor-in-Chief

Mohinder Singh

### Editors

Ashok Kumar  
Vinod Kumari

### Asst Editor

Alka Bansal

### Editorial Asst

Dipti Arora

### Marketing

Rajiv Vij  
RK Dua  
RP Singh

### Printing

JV Ramakrishna  
SK Tyagi

---

## Subscription Information

	Inland	Foreign*
Individuals	Rs 150	\$ 24
Libraries/ Institutions	Rs 450	\$ 40

\*\$27 extra for obtaining copies by Air Mail.

Single copy is also available at Rs 100. Subscriptions are payable in advance in favour of **Director, DESIDOC** by bank draft payable at Delhi.

Correspondence related to the Bulletin may be addressed to the Editor, *DESIDOC Bulletin of Information Technology*, Defence Scientific Information and Documentation Centre (DESIDOC), Metcalfe House, Delhi-110 054.

Tele: 011-23819975

Fax: 011-23813591

e-mail: [dirdesidoc@vsnl.net](mailto:dirdesidoc@vsnl.net)

---

The Editors or Publisher do not assume responsibility for the statements/opinions expressed by the authors of the papers.