Abstract

National Knowledge Network (NKN) is a project of Government of India, which will connect Educational Institutes, R&D institutions, Health service facilities, Agricultural institutions, Libraries of India and a future plan of collaboration with the International research organizations. This paper presents detail proposed Network Infrastructure and Application framework setup that an Institute need to have for the best use of NKN. It also describes the services and other features of the NKN. Critical security issues have been identified and a model is proposed which can be implemented by the Institutes for securing such high speed networks.

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**Index Terms**

Computer Science  
Information Systems

**Keywords**

NKN  
Network Architecture  
Security  
Services  
Application framework