

4.6 XML Code showing stored Secret keys for each user.

```

<New_Table>
  <id_no>1</id_no>
  <PatientName>pradip Patil</PatientName>
  <DoctorName>Bharti</DoctorName>
  <Age>20</Age>
  <DiseaseName>headche</DiseaseName>
  <Email>an@gmail.com</Email>
  <DiseaseDescription>pain in head</DiseaseDescription>
  <SecretKey>sjtkrp56</SecretKey>
</New_Table>
<New_Table>
  <id_no>2</id_no>
  <PatientName>Sitaram Gaiwad</PatientName>
  <DoctorName>Dr. Chabukswar</DoctorName>
  <Age>50</Age>
  <DiseaseName>Stomach Upset</DiseaseName>
  <Email>sitaram@gmail.com</Email>
  <DiseaseDescription>Having a problem of stomach upset.</DiseaseDescription>
  <SecretKey>m7cssfw1</SecretKey>
</New_Table>
    
```

Table 1: Brokering components showing trust on systems privacy which is restricted

Privacy Type	Broker	Coordinator	Database
User Location	Trust	Hide	Hide
Query Content	Trust (Partially)	Trust (Partially)	Trust
Data Object Distribution	Hide	Hide	Trust
Access Control Policy	Hide	Trust (Partially)	Trust
Query Segmentation	NA	Trust	Trust

5. Conclusion

Information brokering systems has some of the critical weaknesses in the system. We propose new approach of PPIB in information brokering. Our system combines security implementation and query forwarding as providing comprehensive protection through novel Query segmentation scheme, in-network access control, and secret key based authentication. Our study shows that privacy concerns where trust factor is always changing from system wide brokers. Query processing scalable to suitable for small to medium organizations.

6. Acknowledgement

I would like to express my sincere gratitude to my guide Prof.G.M.Bhandari for her continuous support, patience, motivation, enthusiasm, and immense knowledge. Her guidance helped me in all the time of research and writing of this paper.

References

[1] Fengjun Li, Bo Luo, Peng Liu Dongwon Lee and Chao-Hsien Chu, "Enforcing Secure and Privacy-Preserving Information Brokering in Distributed Information Sharing", IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, 2013

[2] Distributed Information System as a System of Asynchronous Concurrent Processes Marek Rychlý and Jaroslav Zendulka.

[3] Georgia koloniari and Evaggelia Pitoura. Content-based Routing of Path Queries in Peer-to-Peer Systems.

[4] Fengjun Li, Bo Luo, Peng Liu, Dongwon Lee, and Chao-Hsien Chu. "Automaton Segmentation: A New

Approach to Preserve Privacy in XML Information Brokering", CCS'07, October 29–November 2, 2007, Alexandria, Virginia, USA.

[5] F. Li, B. Luo, P. Liu, D. Lee, and C.-H. Chu, "Automaton segmentation: A new approach to preserve privacy in XML information brokering," in ACM CCS '07, pp. 508–518, 2007.

[6] F. Li, B. Luo, P. Liu, D. Lee, P. Mitra, W. Lee, and C. Chu, "In-broker access control: Towards efficient end-to-end performance of information brokerage systems," in Proc. IEEE SUTC, 2006.

[7] X. Zhang, J. Liu, B. Li, and T.-S. P. Yum, "CoolStreaming/DONet. A data-driven overlay network for efficient live media streaming," in Proceedings of IEEE INFOCOM, 2005.

[8] M. Franklin, A. Halevy, and D. Maier, "From databases to dataspace: A new abstraction for information management," SIGMOD Rec., vol. 34, no. 4, pp. 27–33, 2005.

[9] E. Damiani, S. Vimercati, S. Paraboschi, and P. Samarati. A fine-grained access control system for XML documents. ACM Trans. Inf. Syst. Secur., 5(2):169-202, 2002.

[10] Berglund, S. Boag, D. Chamberlin, M. F. Fernandez, M. Kay, J. Robie, and J. Simon, XML Path Language (XPath). ver. 2.0, 2003 [Online]. Available: <http://www.w3.org/TR/xpath20/>

[11] L. M. Haas, E. T. Lin, and M. A. Roth, "Data integration through database federation," IBM Syst. J., vol. 41, no. 4, pp. 578–596, 2002.

Author Profile

Ms. Priyanka M. Jamunkar received the Bachelors degree (B.E.) Computer Science and Engineering in 2010 from JDIET, Yavatmal. She is now pursuing Masters degree (Computer Engineering), from BSIOTR, Wagholi, Pune, Maharashtra.

Prof. G. M. Bhandari received her M.Tech (Computer Engineering) and now pursuing Ph.D. She is also working as Head Of Computer Engineering Department, Bhivarabai Sawant Institute of Technology & Research, Wagholi, Pune, Maharashtra. Her research areas are Cloud, Sound Processing, and Computer Network.