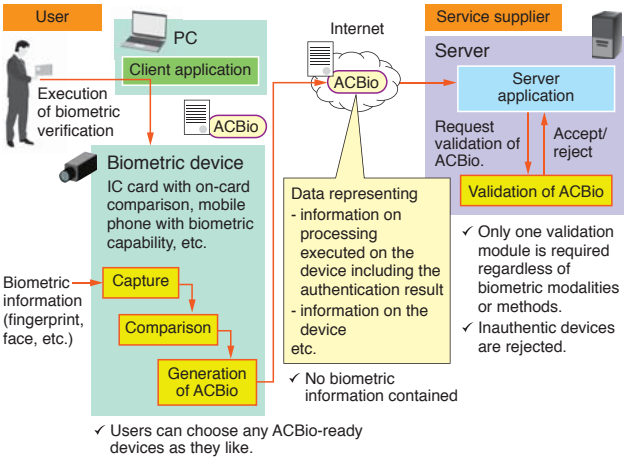
ACBio: First ISO/IEC International Standard for Online Biometric Verification

The authentication context for biometrics (ACBio), whose standardization was led by Toshiba Solutions Corporation, was published as the ISO/IEC 24761 international standard in May 2009.

Although biometric verification is a user-friendly authentication technology, it has issues related to security and privacy in cases where it is used in open network environments such as the Internet. ACBio is a technology that resolves these issues and realizes secure biometric verification in open network environments.

ACBio is expected to be used in various information technology services in society.

ISO: International Organization for Standardization
IEC: International Electrotechnical Commission



Online biometric verification using ACBio

TX1™ V3 XML Database with Distributed Parallel Search

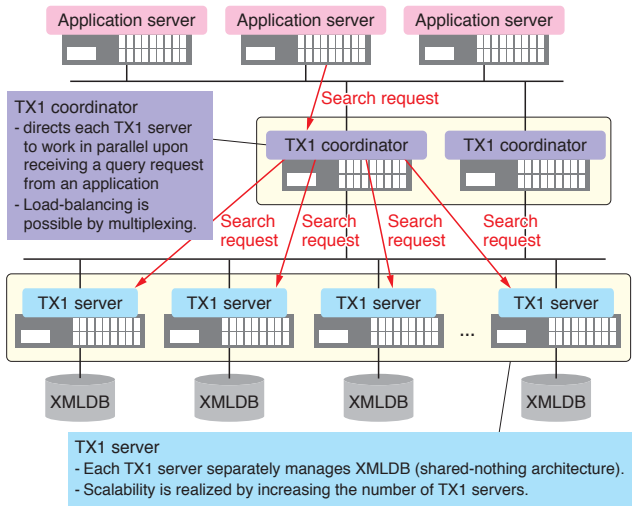
The TX1 extensible markup language (XML) database has been used in business systems such as patent search systems and rule management systems in which terabytes of XML data must be handled.

Toshiba Solutions Corporation has developed a distributed parallel search (DPS) technology in TX1 V3, which achieves higher performance in processing queries for dozens of terabytes of XML data.

The DPS technology consists of several TX1 servers and a TX1 coordinator. The XML data managed by TX1 are divided into smaller parts and stored in each TX1 server, while the TX1 coordinator supervises the overall query processing running on the TX1 servers.

On receiving a query request from an application, the TX1 coordinator directs each TX1 server to work in parallel. Each TX1 server then executes the optimal search for the data managed by it and returns the result to the TX1 coordinator, which assembles the results of the query.

Scalability is realized by increasing the number of TX1 servers.



XMLDB: XML database

DPS of TX1 XML database