Introduction to CubeOne

- Premium DBMS Encryption Solution -



• eGlobal Systems Co., Ltd



- DBMS Security Company established in October, 2004
- Employees : 19, the majority of which are professional engineers.
- Sales : USD 7.2 million in 2012, USD 8.6 million in 2013
- Not to do direct sales channel, but formed partnership with 20 domestic and 1 Japanese re-sellers





Passport number, Driver license number, medical history, password, etc.





Two approaches to protect personal information



Should be applied

SHALL be applied. This is the ultimate method to protect important personal Information.





Product introduction

High-performance and column-level encryption solution specifically designed for massive DB

Excellent performance at PoC and BMT

100% operating success rate and fault-tolerance structure



Installed on more than 6,500 servers & more than 600 excellent client references



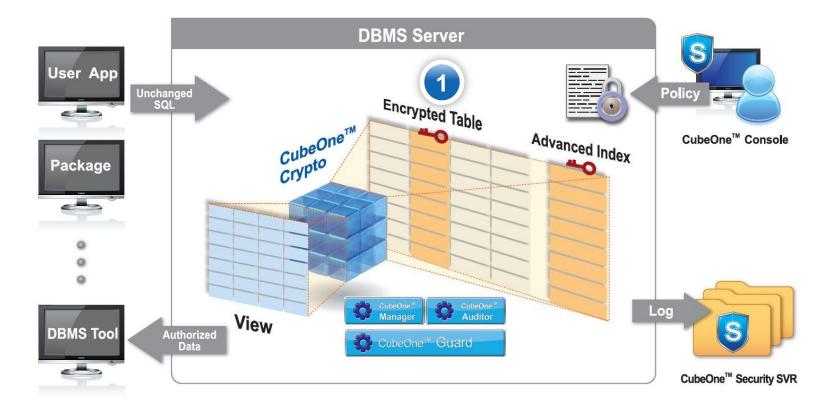


Major strong points



Efficient method for only encrypting critical columns, i.e., columns containing important personal information.

(Table space method encrypts the entire table.)



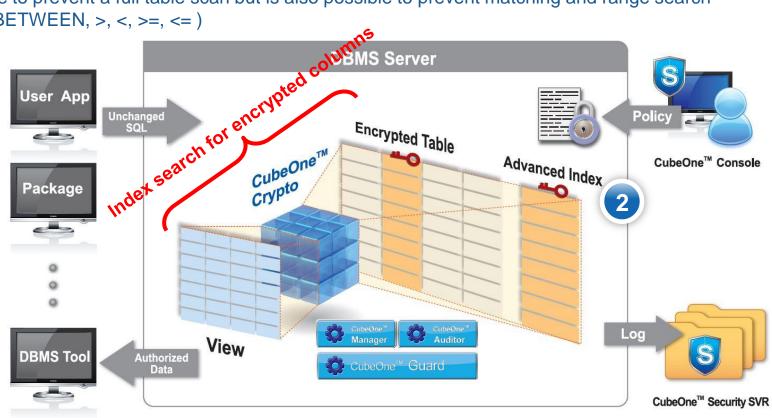


Major strong points

Advanced Index Search

Index searching of encrypted columns can be done using encrypted index

As the index for encrypted columns has been created and the order of data is maintained after the encryption, it is not only possible to prevent a full table scan but is also possible to prevent matching and range search (e.g. LIKE, BETWEEN, >, <, >=, <=)

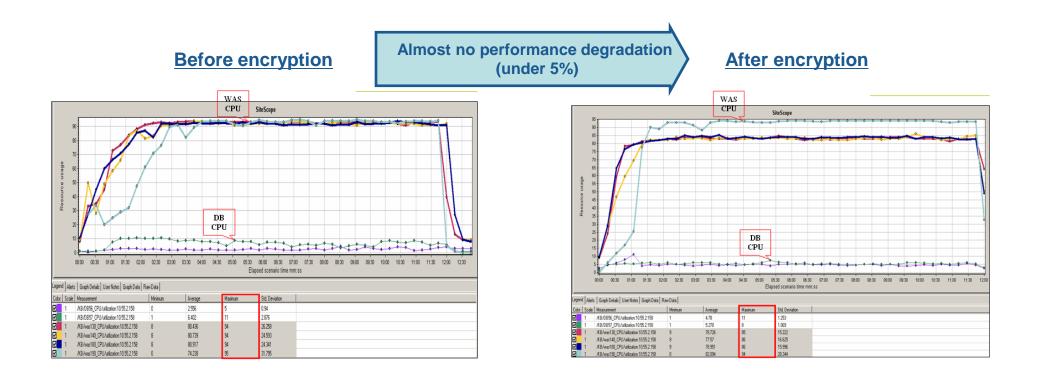




Major strong points



Almost no OLTP performance degradation, even after encryption.







Safe key management

Perfect key management with no loss of data and key simultaneously

Encryption/decryption key is stored in shared memory after the conversion of data, not stored in AP server disc or DBMS.

It is also zeroed out when shutting down the server.



Authorities separation and access control

Only a security manager has the authority to control access to encrypted data.

DBA has the authority for DB management and cannot access encrypted data unless the security manager authorizes it.

Access control is primarily managed by user(work group), IP/MAC address, application and system name, then by period of use, hours of use, date, etc.



Thank You



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