

DENCRYPT CORE

CUSTOMISED INTEGRATION OF DYNAMIC ENCRYPTION

Dencrypt Core is a customer-specific package of the crypto components required to integrate Dynamic Encryption into existing or planned products. Anything from satellites and drones to Internet-of-Things gadgets, sensors, wearables etc. can have Dencrypt Core added for stronger protection of data streams.

Based on specific product specifications, Dencrypt designs the best solution for implementing Dencrypt Core and develops special components if required. Data packet size, programming language, restrictions on timing/speed, API adjustments etc. are issues that may need to be clarified. Implementation of Dencrypt Core should be considered an integration project. Conversations and project execution will be covered by an NDA or similar agreements.

About Dynamic Encryption

Dynamic Encryption has been called “state of art in cryptology” by Vincent Rijmen, author of the AES encryption standard and a world-renowned cryptologist.

Dynamic Encryption provides extra protection, as not only the encryption keys but also the configuration of the crypto system change for each data transfer. The inner encryption algorithm (e.g. AES-256 or national algorithm) is wrapped by an outer Dynamic Encryption algorithm. When the data transfer is complete, the encryption algorithm

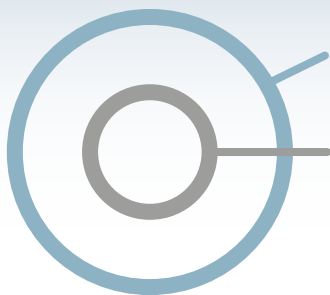
is discarded, which leaves no way of introducing master keys for data inspection.

Cryptanalysis (code breaking) normally requires large amounts of data to be encrypted with the same method. As Dynamic Encryption is constantly mutating, cryptanalysis is made practically impossible.

This is the moving target defence strategy applied to cryptography: any potential breach would only reveal the content of a single data transaction, as the subsequent transaction will be encrypted in a different way. The Dynamic Encryption principle extends the lifetime of a cryptosystem, as the outer layer shields the inner algorithm from attacks.

The Dynamic Encryption principle was invented in 2013 by Professor Lars Ramkilde Knudsen at the Technical University of Denmark. He was one of five finalists in the international Advanced Encryption Standard (AES) competition. Dencrypt has the exclusive right to use the patent for Dynamic Encryption.

DYNAMIC ENCRYPTION (patent pending)



Dynamic Encryption
Mutating algorithm,
changing keys

Eg. AES,
Changing Keys

DYNAMIC ENCRYPTION EVERYWHERE

