

Clay

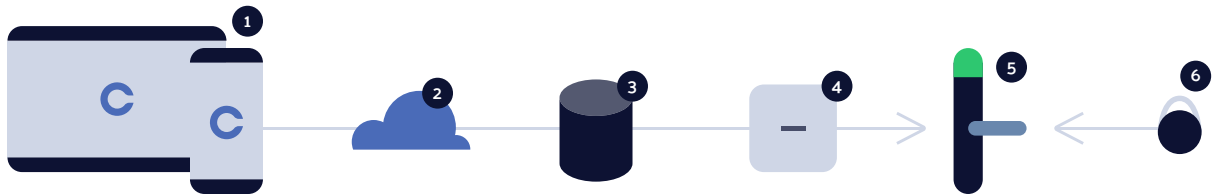
A **SALTO** GROUP COMPANY

Clay Secure



Clay system infrastructure has been built from the ground up with security in mind. Yes, we know, many new IoT products claim that, but in our case it is true.

The diagram below is an overview of a Clay system and its individual components. This document provides an overview of security standards and practices as they relate to each component of a Clay system.



1 MOBILE & WEB APPLICATIONS

Clay mobile & web applications undergo security assessments twice a year conducted by a 3rd party.

ClayCode Similar to online banking card reader mechanisms, ClayCode is an encrypted 5-digit code used to send commands remotely and it is our way of ensuring those commands are conducted only by authorized users.

2 DATA HOSTING

Clay has servers and databases in two separate data centers in The Netherlands. The accreditations:

ISO 27001 – Information Security Management	ISO/IEC 27001: 2005
ISO 9001 – Quality Management	ISO 20000 – Service Management
ISO 14001 – Environmental Management	ISAE-3402 – Internal Control
ISO 9001: 2008	

Clay network undergoes a security assessment twice a year conducted by a third party.

3 CLAYIQ TO CLOUD

ClayIQ's are equipped with an Industrial ChipSim and a unique username and password to authenticate against the infrastructure of our mobile network operator. ClayIQ's communicate over a TLS 1.0 layer and have no external ports that may introduce hardware security breach possibilities.

4 DOORS AND REPEATERS TO CLAYIQ

All communication between door locks and IQs and repeaters relies on advanced encryption standard (AES) 128. We also insert an 8 second limit on all communications to avoid sniffing replay. This means any potentially captured command sent from a ClayIQ to a door is no longer valid after 8 seconds.

5 CLAYTAGS TO DOORS

ClayTags, the key replacement in a Clay system, hold MIFARE DESfire EV1 Chipsets which use random ID and 128-bit AES. This is used to encrypt and ensure authorized communication between tags and doors. To learn more about MiFARE DESfire EV1 visit:
http://www.nxp.com/documents/short_data_sheet/MF3ICDX21_41_81_SDS.pdf