

Application Note #7 – Rolling Keys

Key rolling:

This feature comes standard on every ISO^X secure reader and can be disabled on demand. This feature allows the update of the authentication key, KeyA, in the entire system. Cards and readers can be updated with a single secure configuration card. The procedure is described below:

Update the key in the reader:

A configuration card containing the new key is presented to the reader. The new key is now stored in the reader (at location 0). The previous key (stored at location 0 until now) is moved to location 1 and becomes the old key.

Automatic Update of the key in the card – When a card is in the vicinity of the reader:

The reader tries to authenticate with the new key. If it fails, the readers attempts to authenticate with the old key. If it succeeds it updates the authentication key with the new key. The new key is now in the card. The card has been updated. This process has been invisible to the user and will be repeated for every card.

Implementing *Rolling Keys* may only be performed after consultation by contacting XceedID's factory and procuring appropriate secure configuration cards.

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