

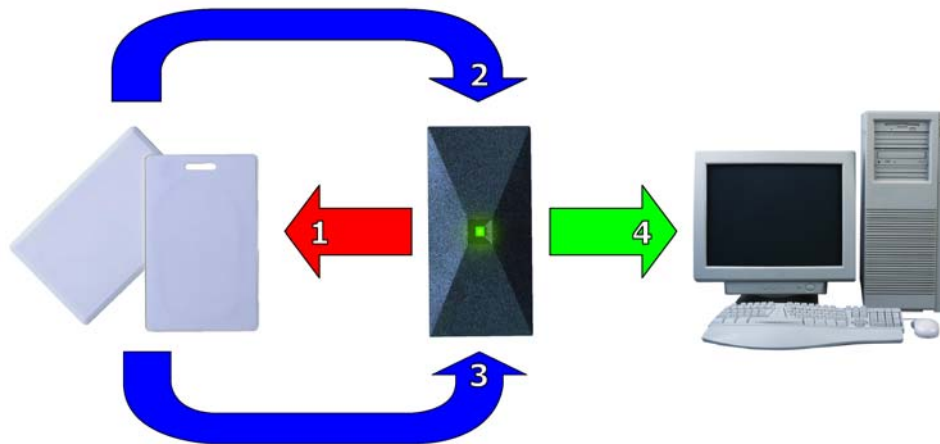
# MAXSecure™ Technical Reference

## 1.0 Introduction

Security is paramount to a sound access control system. Towards this end Farpointe Data introduces MAXSecure. MAXSecure, a new feature available exclusively with the *Pyramid Series Proximity™* line, integrates a high-security handshake, or code, between card, tag and reader. MAXSecure can be used to increase the security of any data format, including the industry standard 26-Bit Wiegand format, custom Wiegand formats, as well as the ABA Track II magnetic stripe format.

MAXSecure offers a number of tangible security benefits. For example, MAXSecure ensures that a user's Pyramid Series cards are truly unique, with no duplicates<sup>1</sup>, even when implementing the industry standard 26-Bit Wiegand format. Further, a MAXSecure enabled reader will only read cards with the matching MAXSecure code<sup>2</sup>. To maintain security, MAXSecure credentials can only be programmed in the factory by Farpointe Data Inc.

## 2.0 Theory of Operation



1. Reader powers proximity card or tag.
2. Card transmits MAXSecure code to reader.
3. Card transmits access data (facility code, ID number, etc.) to reader.
4. If reader authenticates card's MAXSecure code, then reader transmits access data to access controller via an industry standard protocol. If reader does not authenticate card's MAXSecure code, then the reader transmits nothing to the access controller.

1. Unless specifically ordered by customer.
2. Applies to all Rev. H and later Pyramid Series readers. Contact Farpointe Data for specific models.

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## 3.0 Implementation

To obtain a specific MAXSecure code, please contact your Farpointe Data representative. Your representative will assist in completing the MAXSecure Code Request Form.

Once a MAXSecure code is obtained, Farpointe will provide the applicant a quantity of MAXSecure Control Cards. These MAXSecure Control Cards are used to MAXSecure enable a Pyramid Series Proximity reader. For more information on the MAXSecure Control Card please see the Pyramid Series Control Card Document.

When ordering MAXSecure enabled Pyramid Series Proximity cards and tags, please always state the MAXSecure code required. If no MAXSecure code is stated, the cards and tags will be programmed without a MAXSecure code. For more information please see the Pyramid Series [How To Order](#) Guide.