**PayGuardian Interface Notes**

**(Pertaining to Fusion Retail Solution)**

**Introduction**

At its basic nature, the interface with PayGuardian (or any payment authorization software package) consists of a request package which describes what to authorize, and a response package which describes the authorization result. The request data includes some mandatory items, in addition to some optional ones. The response contains many data items, but only a few are relevant to the Fusion Register.

**Document Organization**

This document shall begin by describing the request/response definitions in use by the current (non-mobile) Fusion Register, noting mandatory, optional, and currently unused data members. Following that, any differences found in the mobile (Android/iOS) SDKs will be addressed.

[*NOTE: The mobile differences section(s) shall be a work in progress for the time being.*]

**Current (non-Mobile) Interface**

Fusion currently supports PayGuardian v2.2.10; the latest request/response data modifications appeared in v2.2.9.3. The accompanying file, FRSPGIfDefs.cs contains the C# class definitions used by the current Fusion PayGuardian interface module.

The Register currently makes use of the following transaction types [FPI\_TranType]: FPTR\_SALE, FPTR\_REFUND, and FPTR\_VOID. It is recommended that the mobile register also make use of FPTR\_SALEAUTH and FPTR\_CAPTURE (and, possibly, FPTR\_CREDITAUTH), which, as explained later, can make it simpler to abandon transactions in the middle of the tender session.

A typical request for card authorization for a sale payment sets the following data items in the request object:

TranType FPTR\_SALE

TenderType FPTT\_UNKNOWN (The card reader can figure this out.)

Amount dd.dd (Total amount to charge to card, including tax, tip, cash-back.)  
ClerkID ClerkId (Current clerk’s Fusion User ID)

InvoiceNo nnnnnn (Current Fusion transaction number)

RegisterID MyReg02 (Current Fusion register ID)