





Path to EMV on the Forecourt GILBARCO VEEDER-ROOT



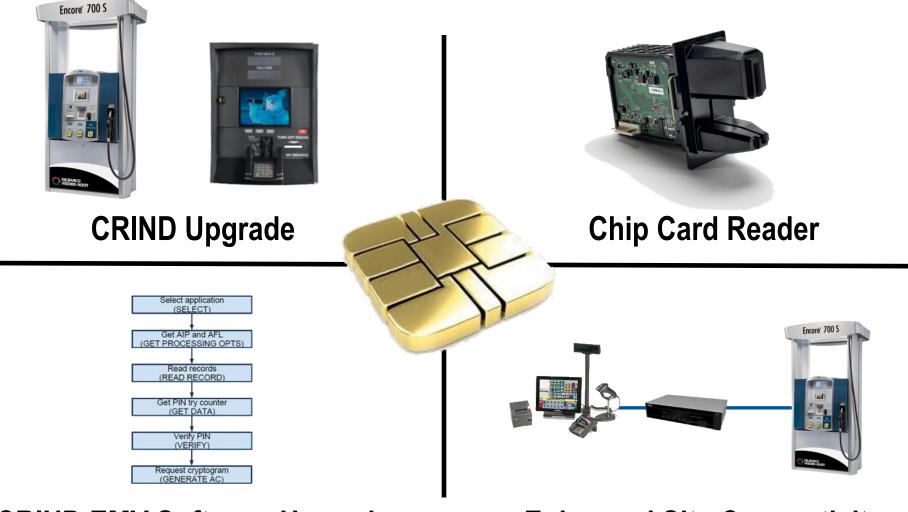


Detailed EMV Timeline MasterCard LE 5412 3456 7890 August 2011: Visa announces EMV migration timeline to the US 12-05 OHN SMITH **January 2012**: MasterCard announces US EMV migration VISA March 2012: Discover announces US EMV migration 4000 **June 2012**: American Express announces US EMV migration VISA 2016 2011 2012 2013 2014 2015 2017 Oct 2012: PCI audit relief **Apr 2013:** Payment processor mandate to support EMV transactions American express 3,ē 3757 00001 Oct 2015: Liability shift for transactions on USTAV H ERIKSSON non-EMV capable POS terminals (in-store) DISCOVER Oct 2017: Liability shift for transactions on non-EMV capable forecourt terminals





Forecourt EMV Building Blocks



CRIND EMV Software Upgrade

Enhanced Site Connectivity

GILBARCO

VEEDER-ROOT

New Dispenser – Encore 700 S

Standard Features

- > EMV-certified FlexPay[™] II CRIND
- > Encrypting PIN Pad (EPP)
- > Secure Encrypting Card Reader (SCR)
- > 5.7" color screen

Optional Upgrades

- Hybrid (Chip & Mag Stripe) Card Reader (HCR)
- > 10.4" color screen





CRIND Upgrade – FlexPay II Retrofit Kit

- > Available to upgrade the following dispensers for EMV:
 - > The Advantage[®]
 - > Encore[®] 300
 - > Encore 500
 - > Encore S
- Includes the same CRIND technology and options available on the Encore 700 S









CRIND Upgrade – Secure PumpPAY™

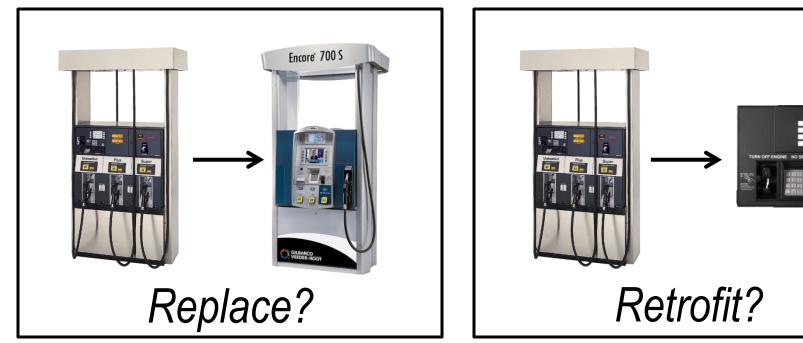
- > Available to upgrade the following dispensers for EMV:
 - > Wayne Vista
 - > Wayne Ovation
 - > Tokheim Premier B
 - > Tokheim Premier C
- > All-in-one version retrofits Vista and Tokheim
- > Distributed version retrofits Ovation
- > Discounts available with Applause TV





Replace vs. Retrofit?

- > As dispensers age, the average cost of maintaining older pump equipment / hydraulics can increase over time
- > Dispensers older than 8-10 years can see higher maintenance costs
- > Purchasing new dispensers can also improve site image and drive increased traffic



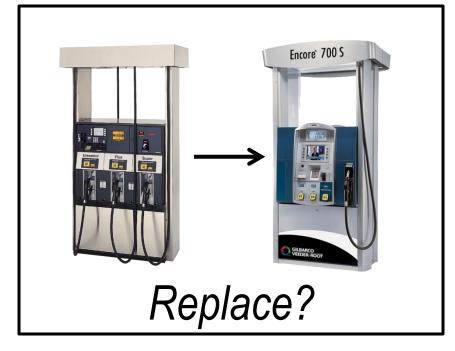
Replace vs. Retrofit? – Gilbarco Recommends

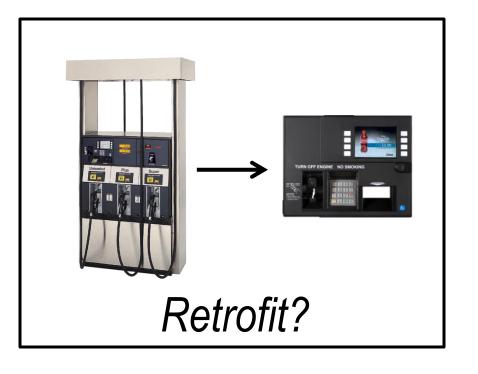
<u>Replace</u>

- > Tokheim Premier B & C
- > Wayne Vista
- > Gilbarco Advantage
- > Gilbarco Encore 500
- > Gilbarco Encore 300 (if prior to 2005)

<u>Retrofit</u>

- Wayne Ovation
- Gilbarco Encore S ECIM
- Gilbarco Encore S
- Gilbarco Encore 300 (if after 2005)





EMV Hybrid Card Reader (HCR)

- > Accepts both Magnetic Stripe and EMV Chip Cards
- Includes logical and physical security to combat tampering and skimming
- > SRED-certified (Secure Reading and Exchange of Data) for End-to-End Encryption
- > Available as a factory-installed option on Encore 700 S or FlexPay II Retrofit Kits, as well as a field retrofit kit for units already installed







Enhanced Site Connectivity



> Three new technologies driving the need for high-speed connectivity to the forecourt







Enhanced Site Connectivity

Options for enabling high-speed connectivity

- 1. Install Ethernet CAT5e/CAT6 cabling
 - > Length limitation of 300 ft. (larger sites)
 - Must be run in low voltage conduit separate from power wiring
- 2. Use *FlexPay Connect* over existing wiring
 - > Eliminate the cost of breaking concrete
 - > Works with legacy twisted pair wiring
 - Provided at no charge on orders with Applause TV







Enhanced Site Connectivity

FlexPay Connect Components

- 1. Backroom Communications Module (BRCM)
 - > Long-range Ethernet switch
 - > Converts Ethernet signal into twisted pair
 - > 1 BRCM supports up to 8 dispensers
- 2. Dispenser Communications Module (DCM)
 - > Converts twisted pair signal back to Ethernet
 - > 1 DCM per dispenser
- 3. Two-Wire Buffer Module (TBM2)
 - Enables sharing of single twisted pair for CRIND and Applause communications
 - > 1 board system supports up to 8 dispensers







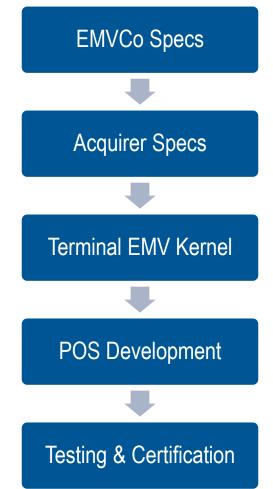






CRIND EMV Software Upgrade

- > EMV Level 2 Kernel the software in the terminal that supports EMV processing
- > Gilbarco is developing its EMV kernel based on Acquirer specs
- Ethernet protocol spec will be provided to major POS providers for integration, testing, and certification



EMV Education Resources

- > Gilbarco's EMV Informational Webpage
 - > <u>http://www.gilbarco.com/emv</u>
- > EMV Online Training Courses: EMV in 16 Minutes
 - > <u>http://www.paragonedge.com/emv-online-training-</u> <u>classes.html</u>
- > EMV Migration Forum Knowledge Center
 - > <u>http://www.emv-connection.com/emv-migration-forum/knowledge-center/</u>
- > EMV Basics Infographic
 - <u>http://www.emv-connection.com/infographicemv-chip-cards-the-future-of-payments/</u>







Gilbarco C-Store Advisor Blog

- > Valuable information on industry changes and their impacts on retailers
- > http://c-storeadvisor.gilbarco.com/







Gilbarco Product Questions & Contacts

To place orders or for service related questions contact your local distributor or ASC <u>http://www.gilbarco.com/us/contactaRep</u>

For other inquiries: Bryan Crossan Director of Sales 336-547-5707 bryan.crossan@gilbarco.com www.gilbarco.com www.veeder.com

