I have an idea—now what?

NACSSHOW2019

Atlanta / Oct 1-4, 2019 Georgia World Congress Center



EMV: Can you Afford not to Upgrade?

Wednesday October 2, 2019 8:00am



Presenters









Jim Linton Vice President Folk Oil Company



Linda Toth Director of Standards Conexxus



About Conexxus





conexxus solve forward Booth # 3755

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After This Session You Can...

3

List the risks associated with waiting to convert to EMV at the pump

Estimate the costs if you don't upgrade by October 1, 2020

Analyze the best practices and lessons learned from other retailers implementing EMV



What is EMV?

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Europay MasterCard Visa

EMV



EMVCo maintains specification

Mag Stripe vs EMV (Chip) WE CAN NACSSHOW 2019



- "Swipe"
- Static Card Data

Chip: Secure IC (processor with memory)





- "Dip"
- Dynamic Card Data
- Magstripe Still Present
- Service Code Indicator
 - in magstripe "EMV" 8



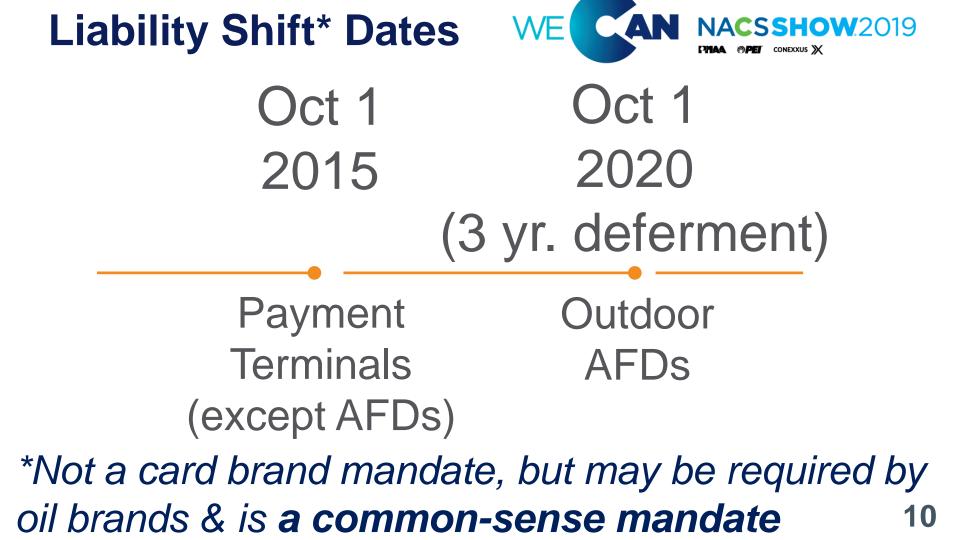


LOTS more data as compared to





Data secured with keys "Cryptogram"







Liability shifts to the party in the payment chain with the least secure payment technology

Retailers are covered by implementing EMV





Conexxus EMV Preparedness Survey June 10 – July 8, 2019 1100+ Companies Invited 88 Responses representing 26,284 Sites

Indoor & Outdoor Contact & Contactless Fraud



Indoor (Contact) EMV

100% Plan to Deploy

86% Fully Deployed

Lack of (Certified) Software



Outdoor (Contact) EMV

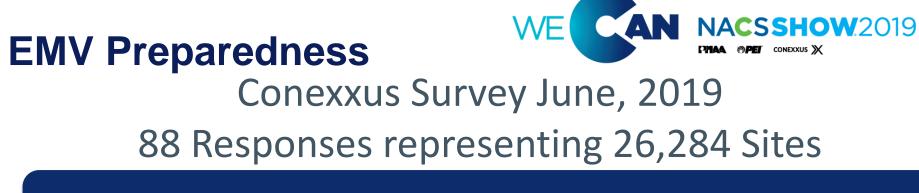


80% Plan to deploy

17% Undecided







Outdoor (Contact) EMV

17% Undecided about whether to Implement

Cost of Upgrades (43%)* Risk doesn't justify the expense (43%)*

*Respondents could choose more than one reason



\$451 MM projected in AFD fraud in 2020 How much will YOU be liable for?

Upgrade before October 1, 2020



Why Upgrade to Outdoor EMV?

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First, we need to explain the types of chargebacks And who is paying for each type today

Chargebacks Today

Lost or Stolen

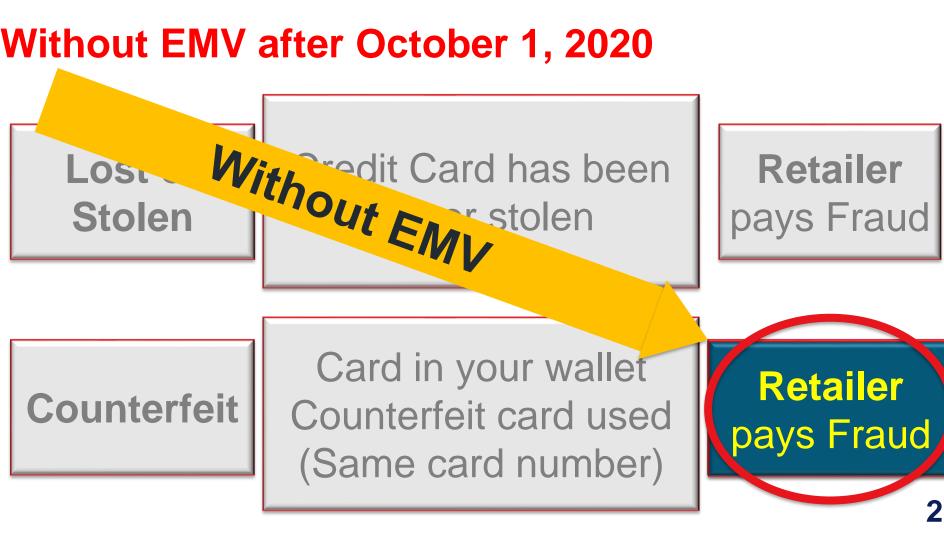
Credit Card has been lost or stolen

Retailer pays Fraud

Counterfeit

Card in your wallet Counterfeit card used (Same card number)





Who pays for what?



Let's look at that again

Outdoor EMV TODAY

Lost & Stolen Fraud

Petroleum Retailers pay for lost & stolen chargebacks



Counterfeit Fraud

Card Issuing Banks pay for counterfeit chargebacks



Install EMV by Oct 1, 2020

Lost & Stolen Fraud

Visa Lost & Stolen paid by Banks

Counterfeit Fraud

Card Issuing Banks <u>continue</u> <u>paying</u> for <u>counterfeit</u> chargebacks



No EMV Outdoor Upgrade by Oct 1, 2020

Lost & Stolen Fraud

Petroleum Retailers pay for lost & stolen chargebacks



Counterfeit Fraud

Petroleum Retailers pay for counterfeit chargebacks



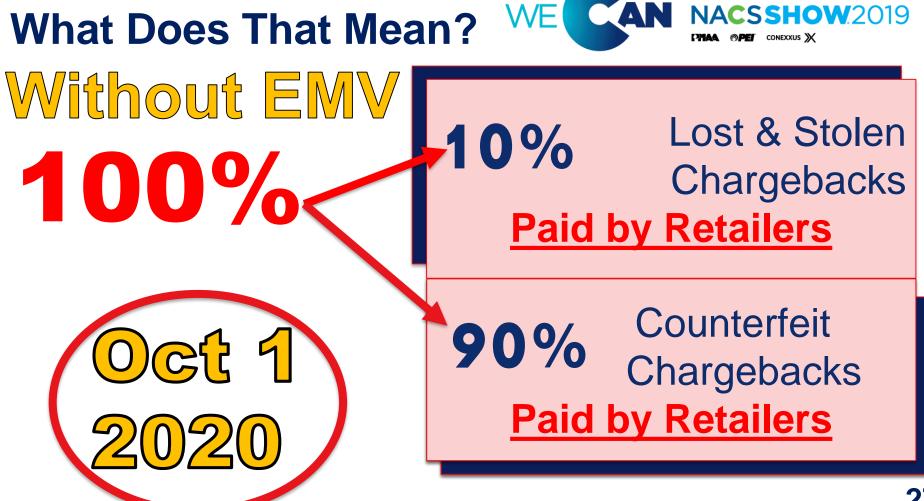
What Does That Mean?



10% Lost & Stolen Chargebacks Paid by Retailers



90% Counterfeit Chargebacks <u>Paid by Banks</u> UNTIL...Oct 1, 2020



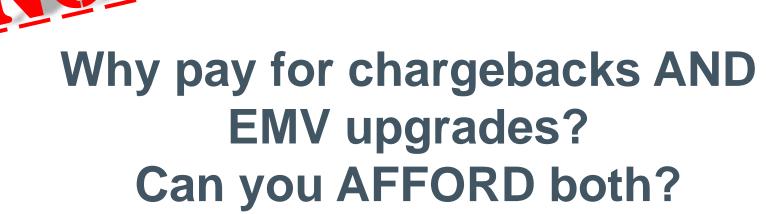


Early upgrades may be required

Check with your oil brand or fuel supplier on the outdoor EMV liability shift.

Indemnification could end before Oct 1, 2020





Upgrade before October 1, 2020



Identify how to get ahead and justify the investment in EMV

Upgrade before October 1, 2020 30



To Up Grade... Or Not To...

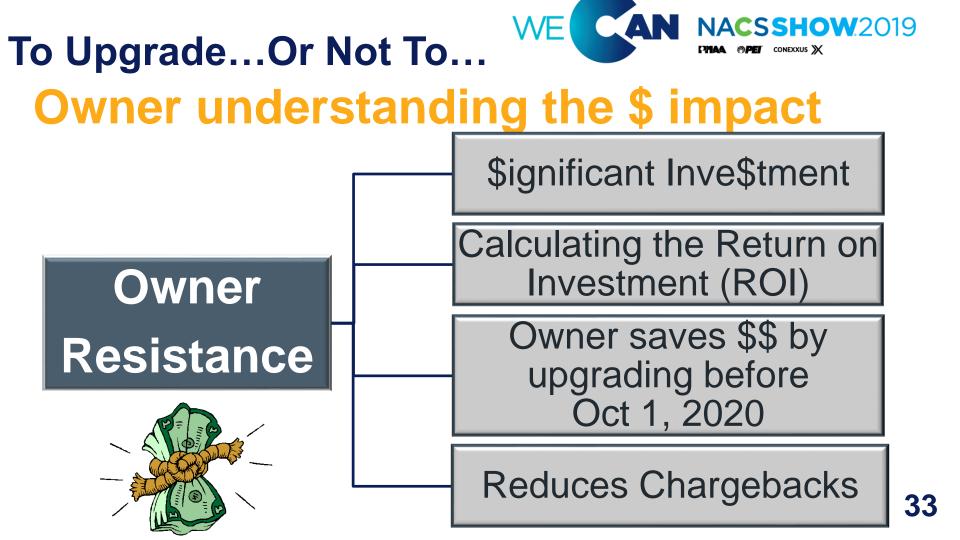


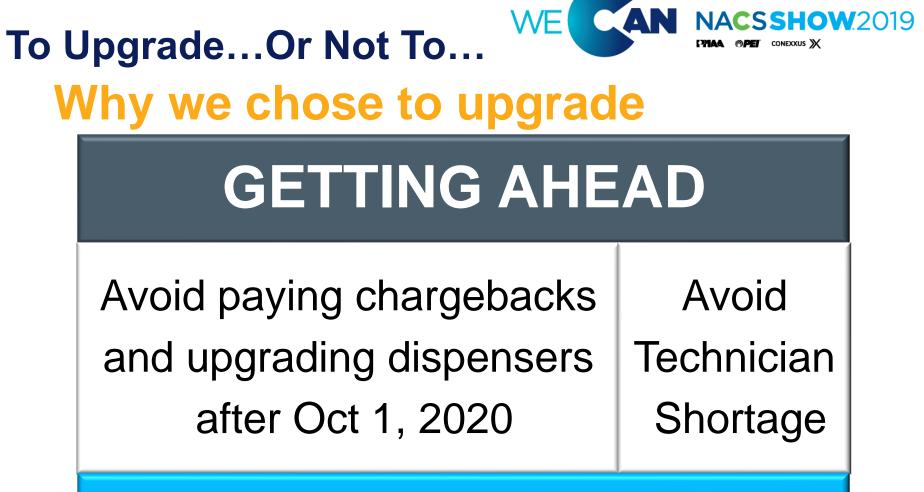




Folk Oil Outdoor EMV Status

100% completed!











NFC/Contactless (Tap & Pay) \$27.23 Billion Sales by 2023*

*Source: Allied Market Research: "Contactless Payments by Market" white paper



Next steps after owner agreed

To Upgrade...Or Not To...

Individual Site Plans

Know Technology Upgrade Options New Dispensers -OR-Retro Fit Kits CAT 6-7-8 Cables -OR-2-Pair or Twisted



Potential chargebacks over next 7 years will exceed \$201K per site! Can you AFFORD to wait?

Upgrade before October 1, 2020



Examine how to avoid counterfeit chargeback fraud

Upgrade before October 1, 2020

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Does EMV Really Work?



Does EMV Work?





EMV cards contain a "chip" that performs cryptographic functions making counterfeit fraud almost impossible.

Indoor EMV Results EMV Works!



87% Counterfeit Fraud Decrease Source: usa.visa.com Sep. 3, 2019 **EMV** Enabled Retailers

Sep 2015





\$451 MM projected in AFD fraud in 2020 How much is YOUR share?

Upgrade before October 1, 2020



How did we calculate?

Glad you asked!

Counterfeit AFD Fraud



3 Major Card Brands Reporting as of 9/19

\$299 MM (actual) in 2018

23 % average YOY increase

Projected \$367 MM in 2019

Projected \$451 MM in 2020







Projected \$451 MM in 2020

Fraud will seek non EMV enabled sites!



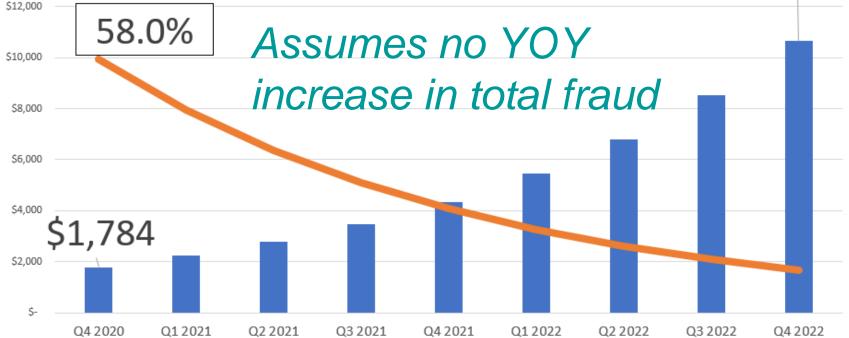
Fraud Will Move Rural



When outdoor EMV is implemented in high fraud areas such as CA, AZ, TX, FL, fraud will shift to the "lower risk" areas



Projected Quarterly Liability Per Site through 2022 \$10,635



Projected Liability per Store, per Quarter
 % of Stores Without EMV

Counterfeit AFD Fraud



Projected \$451 MM in 2020

Fraud will seek non EMV enabled sites! **Annual Projected Liability Per Store** 2021 = \$12,8602022 = \$31,396

ROI – Finance Example (Assumes \$55K at 8% over 7 years)

\$AVED

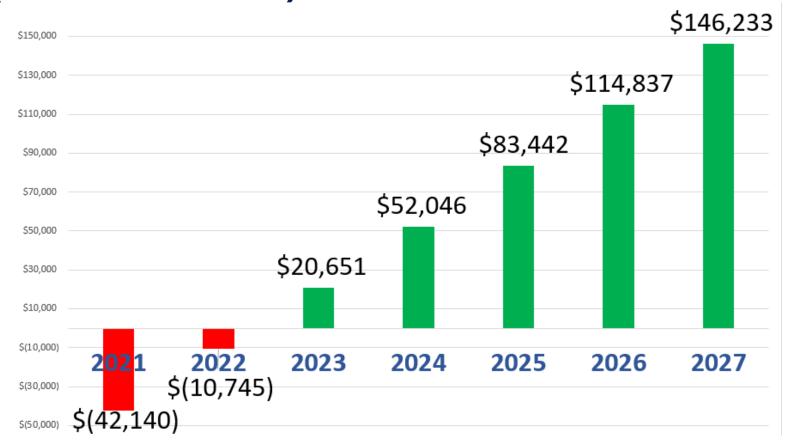


2021 2022 2023 2024 2025 2026 2027

- Financed Upgrade Cost/Year (\$10,564)
- Annual Fraud Avoided (\$12,860, \$31,396)
- Cumulative Net Return on Investment \$AVE

ROI – Cash Example (Assumes \$55K)





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Dispenser EMV is a 5-7 Year Investment!



- Example \$55K Investment
- Finance Example:
 - \$127K saved in chargebacks over 7 years
- Cash Example:

\$146K saved in chargebacks over 7 years



Potential chargebacks over next 7 years will exceed \$201K per site! Can you AFFORD to wait?

Upgrade before October 1, 2020



Analyze costs to calculate ROI and upgrade benefits

Upgrade before October 1, 2020 53



Analyze Costs & Calculate ROI





Can you afford to wait?

Can you afford the financial impact?

Analyze









Wait Until AFTER Oct 1, 2020



Pay for 100% Chargebacks

-- AND --

Upgrade Fuel Dispensers



Upgrade BEFORE Oct 1, 2020

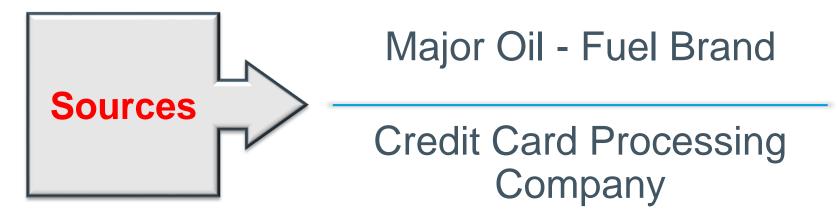
- Upgraded Fuel Dispensers
- ✓ New Technology
- Meet Customer Demands
- Reduced Chargebacks







Obtain Counterfeit Fraud Amount







Look for Bundle Deals with Other Equipment or Upgrades

> Financing Companies



Major Oil / Fuel Brand Funding

Manufacturer Upgrade \$pecials

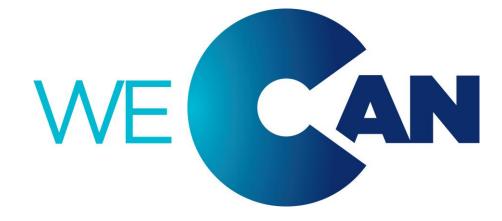


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Why pay for chargebacks AND EMV upgrades? Can you AFFORD both?

Upgrade before October 1, 2020



Follow the steps to avoid counterfeit chargeback fraud

Upgrade before October 1, 2020 62



Steps to Upgrade AFD's

Planning Outdoor EMV



4 to 6 Months





AUTOMATED FUEL DISPENSER ("AFD") UPGRADES



Plan To Be Ready



AUTOMATED FUEL DISPENSER ("AFD") UPGRADES





AUTOMATED FUEL DISPENSER ("AFD") UPGRADES

Upgrade Forecourt Communication

3

Broadband Internet



AUTOMATED FUEL DISPENSER ("AFD") UPGRADES

Order Dispensers or Retrofit Kits

Allow Plenty of Time



AUTOMATED FUEL DISPENSER ("AFD") UPGRADES

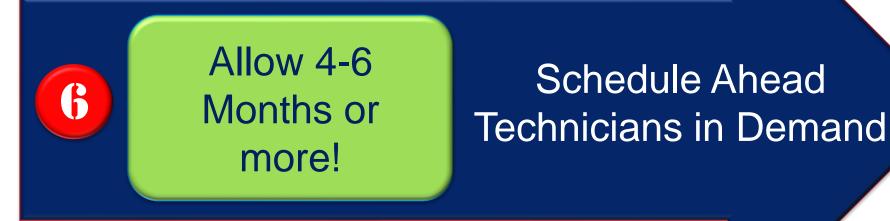
Install Dispensers or Retrofit Kits

5

Schedule Ahead Technicians in Demand



AUTOMATED FUEL DISPENSER ("AFD") UPGRADES



Technician Scheduling



Choose Technician

• For each location

Schedule Technician

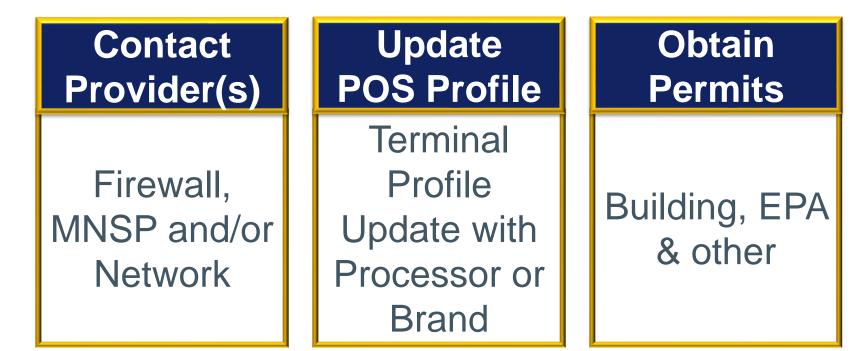


• Weeks/months in advance



Technician Scheduling

Prior to Installation





Down times are longer

Be Patient!

Technicians need to follow <u>your</u> Implementation & Installation Guides All brands and processors are different

New software for everyone

Expect a few hiccups with **software bugs**

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Outdoor EMV Lessons Learned

Upgrade Best Practices

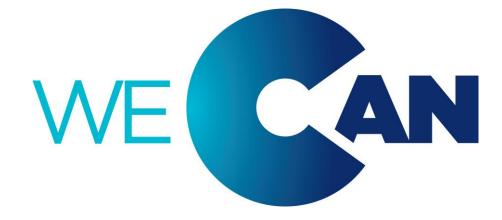


- **1. Avoid Fridays & Holidays**
- 2. Technician use and follow customerspecific POS implementation & installation guides
- **3. Individual Site Surveys** before ordering pumps
- 4. Test & verify transactions with payment processor or brand before technician leaves
- 5. Pay technician to stay extra 30-60 minutes to watch for issues



Waiting to upgrade could cost you \$201K per site over the next 7 years. Can you AFFORD to wait?

Upgrade before October 1, 2020



Identify additional upgrade requirements

Upgrade before October 1, 2020 76



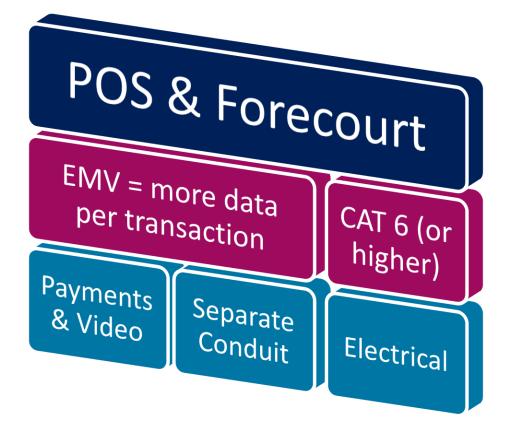
Other Forecourt Upgrades



Communication Upgrades



Business Grade Broadband **Internet** for **Forecourt &** POS



Triple DES PIN Pad



Oct 1, 2020 Requirement



• Triple Debit Encryption Standard

• "TDES"

- Required for PIN Debit if not upgrading to EMV
- Included with EMV Upgrade

Single DES PIN Pad



Discontinue Oct 1, 2020



- Single Debit Encryption Standard
- "SDES"

Upgrade to EMV or TDES, or disable PIN debit acceptance 80

Outdoor TDES PIN Pad







is NOT EMV

Acceptance

\$451 MM projected in AFD fraud in 2020 How much will YOU be liable for?

Upgrade before October 1, 2020



Make good business decisions to avoid long-term costs

Upgrade before October 1, 2020 83



Technician Helpful Tips

Technicians

- WE CAN NACSSHOW.2019
- Technician demand exceeds supply
- 700+ fuel technician job postings Technician lead times for your project
- 6-8 weeks; will only get longer
 Down time during installation
- EMV upgrades take many hours Black-out periods
- Holidays
- Winter Weather





Work together for successful outdoor EMV upgrades

Upgrade before October 1, 2020 86

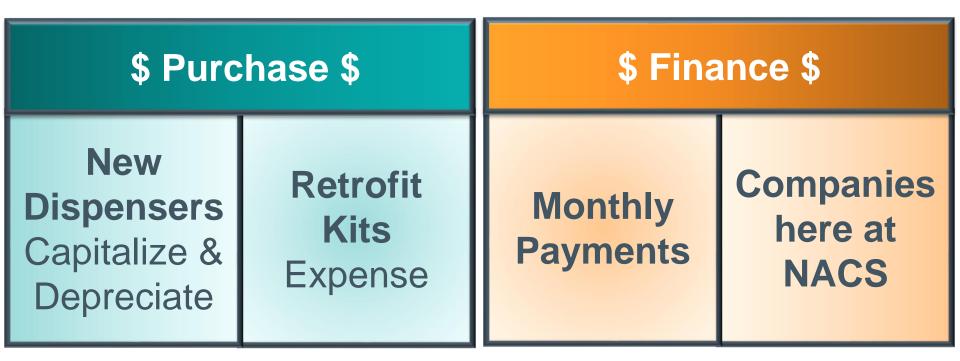


Purchase? Or Finance?



Financing Upgrades







Upgrade Today! Avoid counterfeit chargeback fraud

Upgrade before October 1, 2020 89



UPGRADE NOW!

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Plan & meet with staff and technicians

Upgrade to Outdoor EMV

Individual Site Plans

- Upgrade POS Software
- Schedule technicians
- Business-grade Broadband Internet for fuel dispensers and POS
- Order & install dispensers/upgrades

3

Complete before Oct 1, 2020



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Don't Delay!





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Upgrade to Outdoor EMV Now!





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Upgrade before Oct 1, 2020





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Plan 4-6 Months







EMV: Can you AFFORD not to upgrade?

Upgrade before October 1, 2020



Learned the risks associated with waiting to convert to EMV at the pump

Estimated the costs if you don't upgrade by October 1, 2020

Session

Notes

3

Analyzed the best practices and lessons learned from other retailers implementing EMV

Resources



HELP

ASSISTANCE

SUPPORT

TIPS

ADVICE

GUIDANCE

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Conexxus.org

- Resources/EMV Resources (Resource Guide, Survey Results)
- Webinars (webinars@conexxus.org)
- NACS Show
- Vendors Booths
- Tech Edge Solution Center # 3755



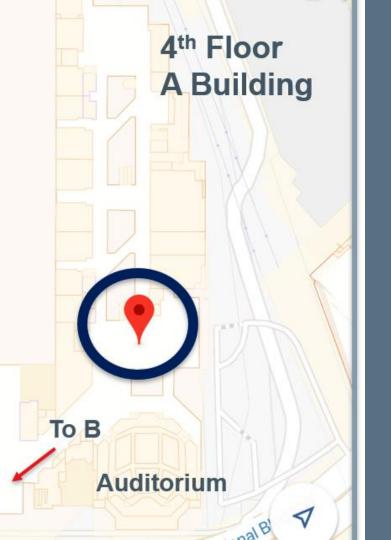






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