Use Case

Electronic Payment Server

Post-Pay / Indoor Sale

March 6, 2023

API Version 1.0

Document Summary

This document describes the use case of an indoor sale transaction that includes dispensed fuel and/or other non-fuel items.

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Revision History

Revision Date	Revision Number	Revision Editor(s)	Revision Changes
March 6, 2023	Version 1.0	Kim Seufer, Conexxus	Final Release Version 1.0
October 24, 2022	Draft 1.0	Kim Seufer, Conexxus	Resolved comments from legal review
September 6, 2022	Draft 0.9	Casey Brant, Conexxus	Removed references to Loyalty and added FDC wording to assumptions section.
August 10, 2022	Draft 0.8	Casey Brant, Conexxus	Accepted changes in preparation for legal review
July 22, 2022	Draft 0.7	Sue Chan, W. Capra	Additional Clarifications
July 22, 2022	Draft 0.6	Sue Chan, W. Capra	Clarifications
July 12, 2022	Draft 0.5	Sue Chan, W. Capra	Update: Clarifications, formatting, watermark, copyrights
May 12, 2022	Draft 0.4	Sue Chan, W Capra	Updates to numbering
April 22, 2022	Draft 0.3	Sue Chan, W Capra	Updates to alternate flows, and for consistency
January 10, 2022	Draft 0.2	Kim Seufer, Conexxus	Clean up
April 12, 2021	Draft 0.1	EPS Group	Initial Revision

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Project

Electronic Payment Server

Use Case Name

Post-Pay / Indoor Sale

Category

Processes

Description/Context of Use

Consumer pays for non-fuel items and/or dispensed fuel inside the store.

Scope

The scope includes the Point of Sale (POS) and the Electronic Payment Server (EPS).

Level

User

Actors

- Consumer
- Cashier
- POS – Point of Sale
- POI – Point of Interaction
- EPS – Electronic Payment Server
- PFEP – Payment Front End Processor
- Site System – (This could be in the form of FDC)

Stakeholders and Interests

- Merchant
- Consumer
- Payment Front-End Processor
- EPS/POS Vendors

Trigger

Consumer has selected goods/services, which could include dispensed fuel, and presented them for payment at the merchant's checkout.

Assumptions

- POS/EPS/POI systems are using IFSF/Conexxus standard API.
- An FDC may be utilized in some implementations. Communication with an FDC is out of scope of the EPS API standard. Please refer to the appropriate FDC specification for interface details.

Pre-Conditions

- Consumer has merchandise to purchase and is ready to provide payment.
- The system architecture at the site uses an EPS.

Minimal Guarantees

- POS will either accept or decline the electronic tender of payment.
- The consumer will be properly charged.

Success Guarantees

- Merchant receives electronic payment
- Consumer receives goods/services
- POS has sufficient information to provide a receipt if required/desired

Normal Flow

1. Consumer presents goods/services for purchase, which could include dispensed fuel.
2. Cashier rings up goods and tenders the sale.
   <Alternate Flow> A1. POS Sends Card Read First
3. POS sends card payment request to EPS containing items to purchase and tender amount.
4. EPS obtains payment card information via the POI if not previously acquired.
5. EPS sends a payment request to PFEP.
6. PFEP approves payment request.
   <Alternate Flow> A2. Partial Approval
   <Exception Flow> E1. Payment Declined
   <Exception Flow> E2. Transaction Times-Out
7. EPS provides receipt information to POS via event.
8. EPS returns success to POS.
9. POS completes transaction and prints receipt.
10. Consumer leaves with his goods/services and a lighter wallet.

Alternate Flow(s)

A1 POS Sends Card Read First

A1.1 From Normal Flow Step 2. POS sends a card read message to the EPS.
A1.2 The EPS acquires the card data via the POI.
A1.3 The EPS sends the card data back to the POS.
A1.4 Continue with Normal Flow Step 3.

A2 Partial Approval

A2.1 From Normal Flow Step 6. The PFEP returns an approval amount that is less than the requested amount.
A2.2 The POS requests and processes additional form(s) of payment from the consumer until the balance due is zero.
A2.3 Continue with Normal Flow Step 7.

Exception Flow(s)

E1 Payment Declined

E1.1 From Normal Flow Step 6. The PFEP declines the payment.
E1.2 The POS cancels the transaction.
E1.3 End of Use Case.

E2 Transaction Times-Out

E2.1 The transaction times-out from the PFEP.
E2.2 The EPS sends a payment reversal to the PFEP.
E2.3 The POS cancels the transaction.
E2.4 End of Use Case.

Extension Points

None

Related Use Cases

None

Data Requirements and Instance Documents

None

Miscellaneous

None

Open Issues

None