



Digital Receipts Additional Material

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Story - Refund

Dan buys a book on Danube Online, and receives a digital receipt into his wallet. On receiving the book, he discovers that it's the wrong book, and wants to return it. Danube has a local brick and mortar store and he takes the book to the store to exchange it. He must provide a proof of purchase to make the exchange, so he presents his digital receipt to the merchant when he goes to exchange the delivered book for the correct one.

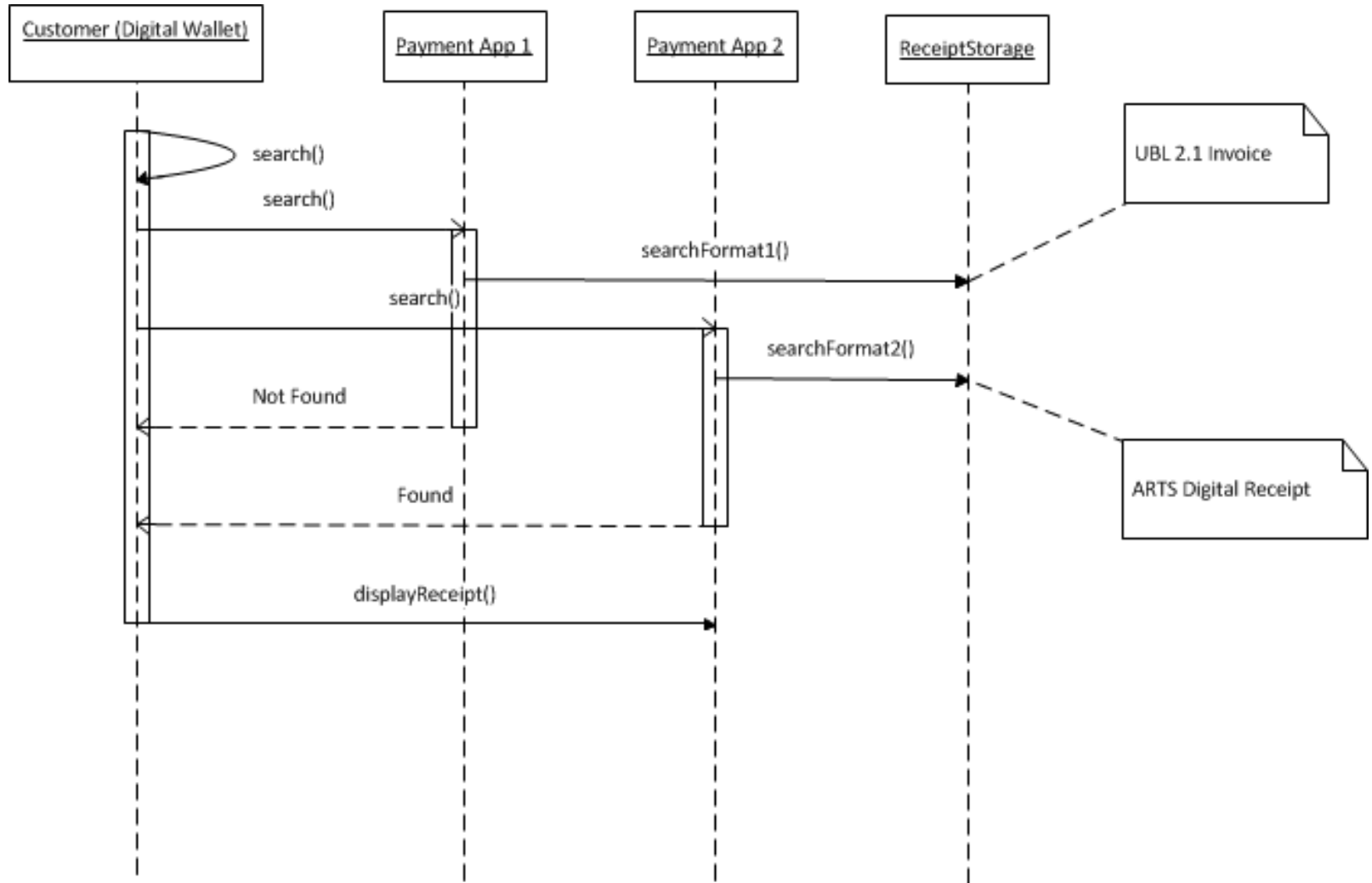
Story – Regulatory requirements

After completing the transaction, because the customer is in Europe, EU regulations require that they receive a receipt in UBL format. The application allows the customer the option of displaying the receipt in the browser.

Story – Search and Display

Karie needs to be reimbursed for travel incidentals she bought with her browser payment app. She remembers what they were (toiletries, electrical adaptor, and pain medication) but she can't remember exactly where. She searches her digital receipts and displays them for review.

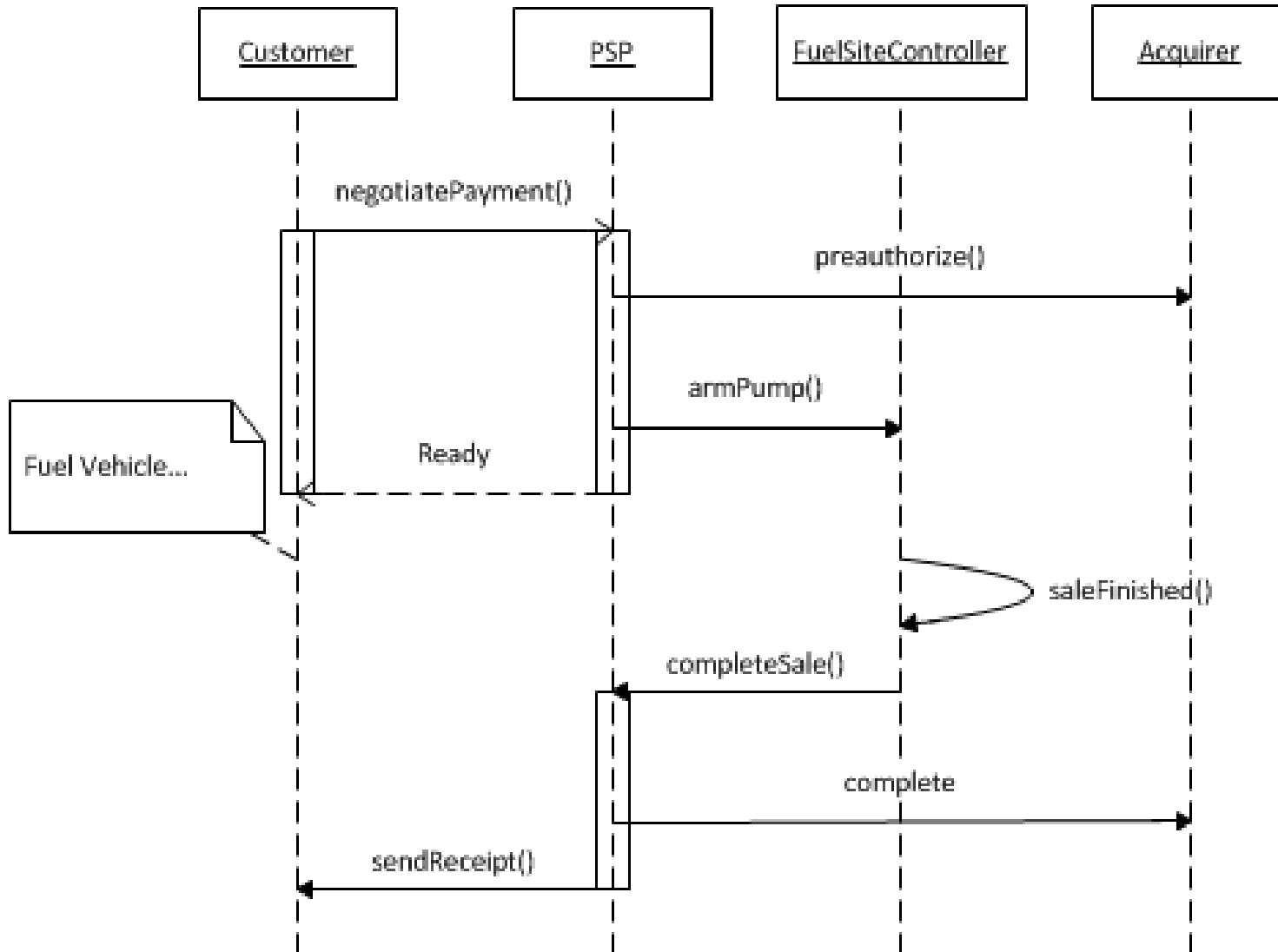
Search and Display



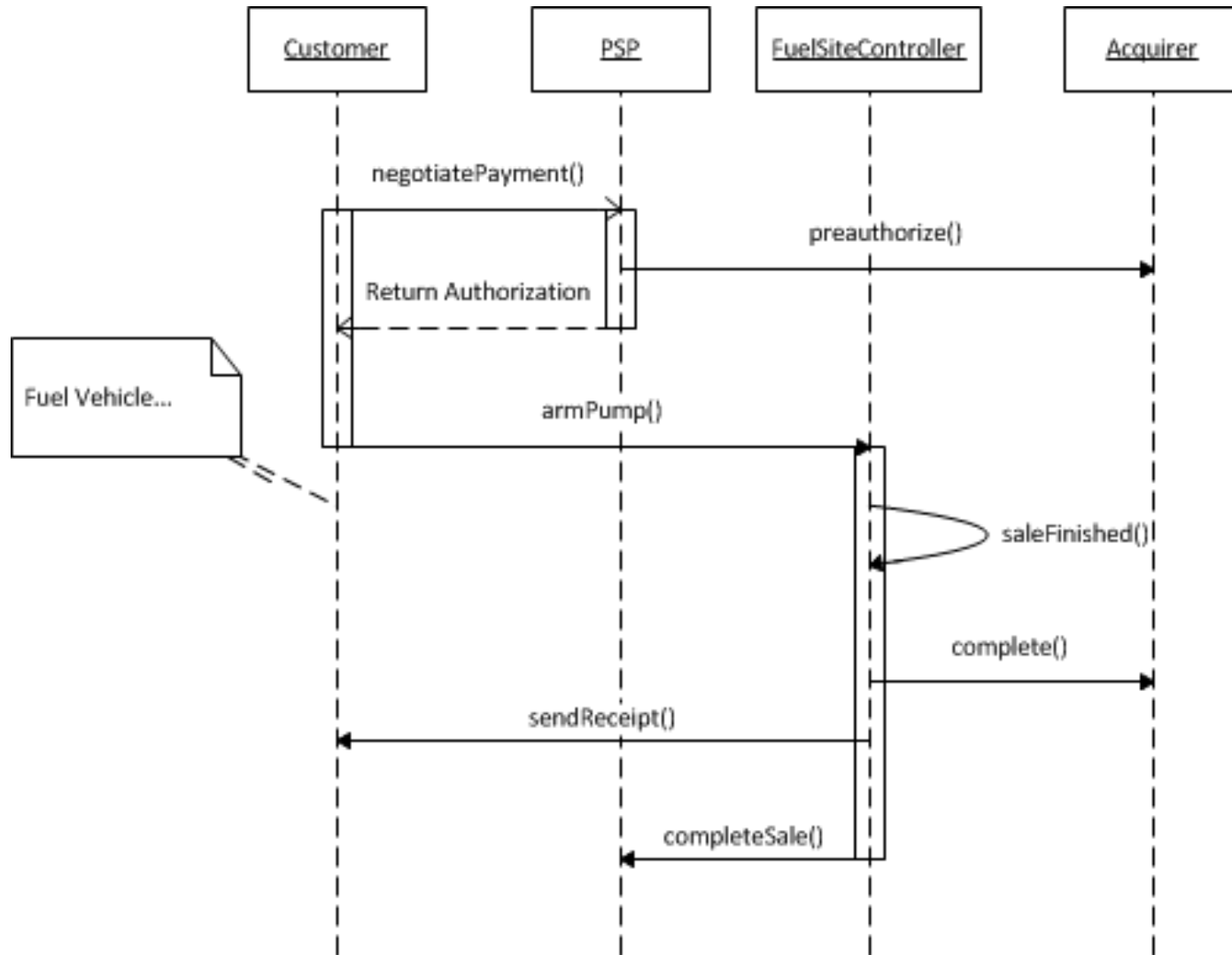
Story – Buy Fuel

Doris stops at HaHa to fill her new diesel vehicle. As she stops at a pump, her vehicle recognizes the retailer and the fueling position. She touches a “verify fueling request” prompt, and exits her vehicle and pumps fuel. A few moments after she re-stows the fuel hose, a digital receipt for the fuel appears in her wallet.

Petro – Above Site Authorization



Petro – Site Level Authorization



Data Alignment

- Searchable Data:
 - Merchant identifier
 - Transaction Identifier
 - Hash (this receipt or partial fulfillment receipt)
 - Date/Time
 - Transaction Amount
- Financial transaction information:
 - Total amount authorized in merchant currency
 - Total amount authorized in local currency (matches the customer account)
 - Amount settled now in merchant currency (partial fulfillment)
 - Loyalty points applied, offers redeemed
 - Issuing bank identifier (IBAN)
- Goods/services purchased descriptions
- Taxes applied
- Loyalty and other offers for customer (rewards)
- Consistent display capabilities

Examples - Existing DR Formats

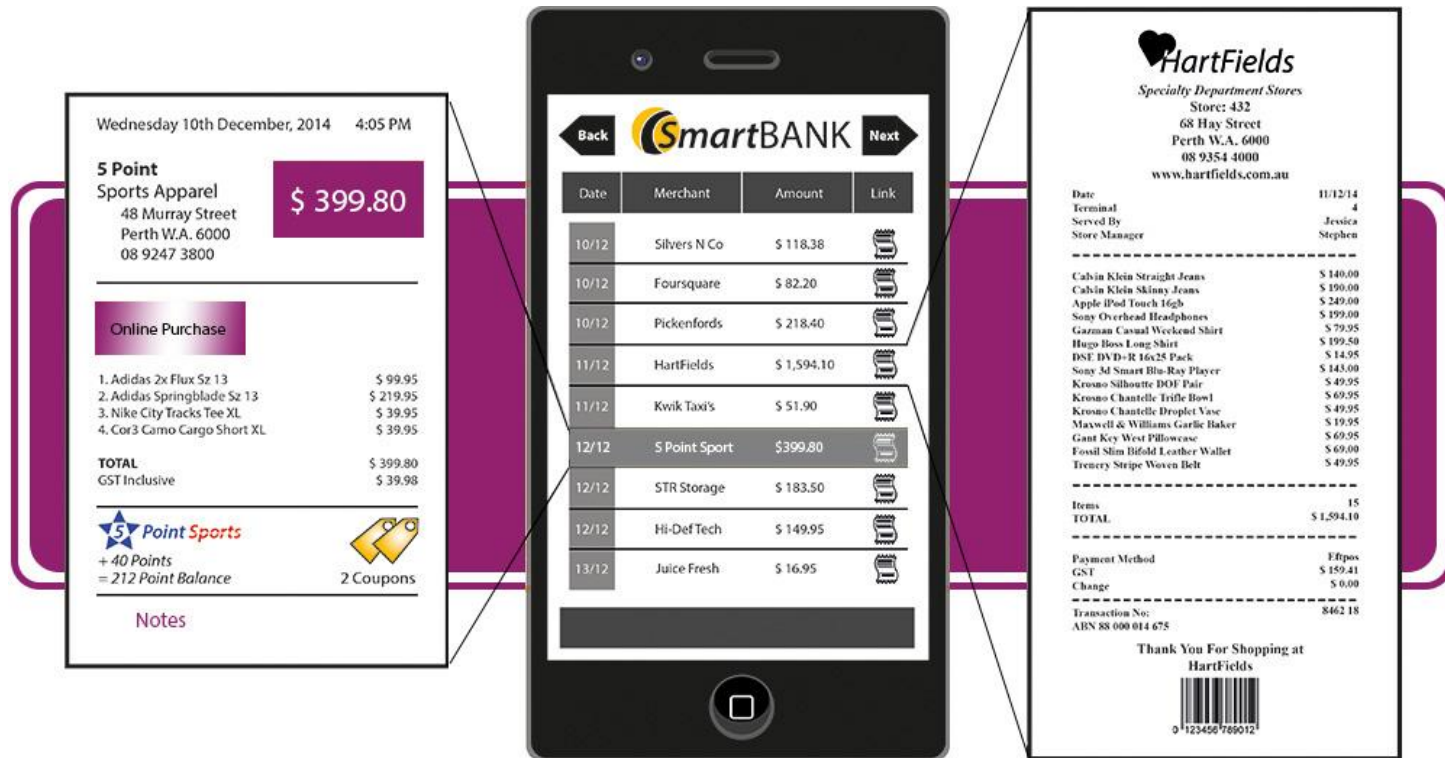
XML	
Invoice	
xmlns	urn:oasis:names:specification:ubl:schema:xsd:Invoice-2
xmlns:cac	urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2
xmlns:cbc	urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2
cbc:UBLVersionID	2.1
cbc:ID	TOSL108
cbc:IssueDate	2009-12-15
cbc:InvoiceTypeCode	listID=UN/EDC 1001 Subset listAgencyID=6
cbc:Note	languageID=en
cbc:TaxPointDate	2009-11-30
cbc:DocumentCurrencyCode	listID=ISO 4217 Alpha listAgencyID=6
cbc:AccountingCost	Project cost code 123
cac:InvoicePeriod	
cbc:StartDate	2009-11-01
cbc:EndDate	2009-11-30
cac:OrderReference	
cac:ContractDocumentReference	
cac:AdditionalDocumentReference (2)	
cac:AccountingSupplierParty	
cac:AccountingCustomerParty	
cac:PayeeParty	
cac:Delivery	
cac:PaymentMeans	
cbc:PaymentMeansCode	listID=UN/EDC 4461
cbc:PaymentDueDate	2009-12-31
cbc:PaymentChannelCode	IBAN
cbc:PaymentID	Payref1
cac:PayeeFinancialAccount	
cac:PaymentTerms	
cac:AllowanceCharge (2)	
cac:TaxTotal	
cbc:TaxAmount	currencyID=EUR
cac:TaxSubtotal (3)	
cac:LegalMonetaryTotal	
cac:InvoiceLine (5)	

XML	
DigitalReceipt	
xmlns:xsi	http://www.w3.org/2001/XMLSchema-instance
xmlns	http://www.nrf-arts.org/IXRetail/namespace/
MajorVersion	3
MinorVersion	1
FixVersion	0
Comment	xsi:schemaLocation="http://www.nrf-arts.org/IXRetail/namespace/ DigitalReceiptV3.1.0.xsd"
Transaction	
BusinessUnit	
Logo	LogoFormat=PDF
SequenceNumber	50
POSLogDateTime	2006-05-04T18:13:51.0Z
ReceiptDateTime	2006-05-04T18:13:51.0Z
ReceiptNumber	50
ReceiptImage	
ReceiptLine (3)	
Rbc Text	
1	Blue Shirt \$5.00
2	Total \$5.00
3	Tender \$5.00
RetailTransaction	
LinItem (2)	
Total TotalType=TransactionGrossAmount	
Customer	

Thank you

Backup

Receipt Reliance Model



- <http://receiptreliance.com/>

ARTS Digital Receipt Uses

A digital receipt in a standardized format can fulfill many use cases.

