



The Retail Innovators

# Self Scanning Service API

1.5

# Table of Contents

1. Introduction	1
2. Access	1
3. Endpoints	1
3.1. EndOfTrip	1
3.1.1. endOfTrip	1
3.2. StartOfTrip	2
3.2.1. getBusinessUnit	2
3.2.2. getCustomer	2
4. Models	3
4.1. AuditEvent	3
4.2. BusinessUnit	3
4.3. Currency	3
4.4. Customer	3
4.5. DepositAssociation	4
4.6. EndOfTripRequest	4
4.7. EndOfTripResponse	4
4.8. EndOfTripResponseDepositAssociationItem	4
4.9. EndOfTripResponseExternalTransactionAssociation	4
4.10. EndOfTripResponseFrequentShopperPointsModifier	4
4.11. EndOfTripResponseLoyaltyRewardLineItem	4
4.12. EndOfTripResponsePriceModificationLineItem	5
4.13. EndOfTripResponseRetailPriceModifier	5
4.14. EndOfTripResponseRetailTransaction	5
4.15. EndOfTripResponseRetailTransactionCouponSummaryItem	5
4.16. EndOfTripResponseRetailTransactionLineItem	6
4.17. EndOfTripResponseRetailTransactionPromotionPriceDerivationRuleItem	6
4.18. EndOfTripResponseRetailTransactionPromotionTriggerItem	6
4.19. EndOfTripResponseSaleReturnLineItem	6
4.20. EndOfTripResponseSaleReturnLineItemPromotionTrigger	7
4.21. EndOfTripResponseTaxLineItem	7
4.22. EndOfTripResponseTransaction	7
4.23. ExternalTransactionAssociation	7
4.24. Problem	8
4.25. PromotionTrigger	8
4.26. RetailTransactionCouponSummary	8
4.27. RetailTransactionLineItem	8
4.28. SaleReturnLineItem	9
4.29. SelfScanningTransaction	9
4.30. Totals	10

# Chapter 1. Introduction

API for Self Scanning client

## Chapter 2. Access

- **HTTP Basic Authentication** *basicAuth*
- **OAuth** AuthorizationUrl: `_`, TokenUrl: `_({protocol})://({systemId}):({port})/auth-service/tenants/({tenant})/oauth/token`

## Chapter 3. Endpoints

### 3.1. EndOfTrip

#### 3.1.1. endOfTrip

`POST /self-scanning/v1/end-of-trip`

adds a self-scanning transaction

#### Description

Adds a self-scanning transaction to the system

#### Parameters

##### Body Parameter

Name	Description	Required	Default	Pattern
EndOfTripRequest	Self-Scanning Transaction <a href="#">EndOfTripRequest</a>	-		

##### Header Parameters

Name	Description	Required	Default	Pattern
GK-Customer-Id	Customer identifier. When not defined anonymous customer is used.	-	null	
GK-Anonymous-Profile-Id	Anonymous customer profile identifier.	-	null	

#### Return Type

[EndOfTripResponse](#)

#### Content Type

- application/json

#### Responses

Code	Message	Datatype
201	transaction created	<a href="#">EndOfTripResponse</a>
401	Unauthorized	<a href="#">Problem</a>
400	Provided transaction, or some of its parts, are not valid. Referenced data may be missing.	<a href="#">Problem</a>
409	A transaction with the same ID has already been processed.	<a href="#">Problem</a>

## 3.2. StartOfTrip

### 3.2.1. getBusinessUnit

GET /self-scanning/v1/business-units/{businessUnitId}

#### Parameters

##### Path Parameters

Name	Description	Required	Default	Pattern
businessUnitId	Business unit ID.	X	null	

#### Return Type

[BusinessUnit](#)

#### Content Type

- application/json

#### Responses

Code	Message	Datatype
200	Business unit details.	<a href="#">BusinessUnit</a>
401	Unauthorized	<a href="#">Problem</a>
404	Object was not found.	<a href="#">Problem</a>
500	An unexpected server error.	<a href="#">Problem</a>

### 3.2.2. getCustomer

GET /self-scanning/v1/customers/{customerId}

#### Parameters

##### Path Parameters

Name	Description	Required	Default	Pattern
customerId		X	null	

#### Return Type

[Customer](#)

#### Content Type

- application/json

#### Responses

Code	Message	Datatype
200	Customer details.	<a href="#">Customer</a>
401	Unauthorized	<a href="#">Problem</a>
404	Object was not found.	<a href="#">Problem</a>
500	An unexpected server error.	<a href="#">Problem</a>

## Chapter 4. Models

### 4.1. AuditEvent

Field Name	Required	Type	Description	Format
creationTimestamp	X	Date	Creation timestamp of the audit event	date-time
typeCode	X	String	S_\" + {process id} + {2 digits incremental number per process} - see documentation for details	
content		String	Additional event content.	

### 4.2. BusinessUnit

Business unit details.

Field Name	Required	Type	Description	Format
businessUnitId	X	String	A unique retailer assigned identifier for a retail store, distribution center or administration center (internal identifier).	
businessUnitGroupId		String	A unique system assigned identifier for the group of business units.	
name		String	Business unit name.	
mainCurrency		Currency		
additionalProperties		Map of <a href="#">[String]</a>	General key-value map for project extensibility.	

### 4.3. Currency

Field Name	Required	Type	Description	Format
code	X	String	Unique identifier of the currency. ISO 4217 currency code.	
name		String	A name of the currency.	
symbol		String	National symbol for the main currency unit.	

### 4.4. Customer

Field Name	Required	Type	Description	Format
customerId	X	String	Unique ID of a customer.	
firstName		String	A person's first name. In western cultures, this is the given name, in other cultures it may be the family name.	
lastName		String	A person's last name. In western cultures, this is the family (or patronymic) name, in other cultures it may be the given name.	
salutation		String	Extra words that don't form part of the person's name but are normally printed before the first name as a courtesy title. This represents the primary salutation for this Person.	
languageId		String	A combination of ISO-639-1 and ISO-3661-1 to denote a language as spoken in a particular country.	
customerGroupIdList		List of <a href="#">[String]</a>		
paymentInAppAllowed		Boolean	Defines whether payment is allowed for the customer in BYOD application.	
additionalProperties		Map of <a href="#">[String]</a>	General key-value map for project extensibility.	

## 4.5. DepositAssociation

Field Name	Required	Type	Description	Format
toLineItemSequenceNumber	X	Integer	The sequence number of the linked line item.	int32

## 4.6. EndOfTripRequest

Field Name	Required	Type	Description	Format
selfScanningTransaction		SelfScanningTransaction		

## 4.7. EndOfTripResponse

Field Name	Required	Type	Description	Format
operatorNecessary	X	Boolean		
totals		Totals		
transaction		EndOfTripResponseTransaction		
additionalProperties		Map of [String]	General key-value map for project extensibility.	

## 4.8. EndOfTripResponseDepositAssociationItem

Field Name	Required	Type	Description	Format
toLineItemSequenceNumber	X	BigDecimal	The sequence number of the linked line item.	

## 4.9. EndOfTripResponseExternalTransactionAssociation

Links to external transactions.

Field Name	Required	Type	Description	Format
associationTypeCode	X	String	* EMPT - link to empties receipt * SCAL - link to scale receipt	Enum: EMPT, SCAL,
toTransactionId	X	String		

## 4.10. EndOfTripResponseFrequentShopperPointsModifier

Field Name	Required	Type	Description	Format
promotionId		BigDecimal	The unique identifier of the promotion.	
priceDerivationRuleId		BigDecimal	The unique identifier of the price derivation rule.	
priceDerivationRuleEligibilityId		BigDecimal	The unique identifier of the root eligibility.	
frequentShopperPointsEarnedCount	X	BigDecimal	The number of frequent shopper points earned.	
prorateFrom		BigDecimal	The points calculation rule to be applied, expressed as a percentage of the calculation base. Corresponds to ItemPriceDerivationRule.PriceModificationPercent if available.	

## 4.11. EndOfTripResponseLoyaltyRewardLineItem

Field Name	Required	Type	Description	Format
pointsAwardedCount		BigDecimal	The number of loyalty points awarded.	

Field Name	Required	Type	Description	Format
promotionId		BigDecimal	The unique identifier of the promotion.	
priceDerivationRuleId		BigDecimal	The unique identifier of the price derivation rule.	
priceDerivationRuleEligibilityId		BigDecimal	The unique identifier of the root eligibility.	

#### 4.12. EndOfTripResponsePriceModificationLineItem

Field Name	Required	Type	Description	Format
promotionId		BigDecimal	The unique identifier of the promotion.	
priceDerivationRuleId		BigDecimal	The unique identifier of the price derivation rule.	
priceDerivationRuleEligibilityId		BigDecimal	The unique identifier of the root eligibility.	
triggerSequenceNumber		BigDecimal	The ident of the manual trigger (because a transaction item can have more than one trigger) Needed for transaction preview.	

#### 4.13. EndOfTripResponseRetailPriceModifier

Field Name	Required	Type	Description	Format
promotionId		BigDecimal	The unique identifier of the promotion.	
priceDerivationRuleId		BigDecimal	The unique identifier of the price derivation rule.	
priceDerivationRuleEligibilityId		BigDecimal	The unique identifier of the root eligibility.	
amount	X	BigDecimal	The total amount of the retail price modifier.	
calculationMethodCode		String	A type code used to identity manual price overrides.	
prorateFrom		BigDecimal	The sequence number of the PriceModificationLineItem. Only filled for discount shares of transaction related discounts.	

#### 4.14. EndOfTripResponseRetailTransaction

Field Name	Required	Type	Description	Format
retailTransactionLineItemList		List of <a href="#">EndOfTripResponseRetailTransactionLineItem</a>	List of retail transaction line items.	
totals		Totals		
retailTransactionPromotionTriggerList		List of <a href="#">EndOfTripResponseRetailTransactionPromotionTriggerItem</a>	List of promotion triggers.	
retailTransactionCouponSummaryList		List of <a href="#">EndOfTripResponseRetailTransactionCouponSummaryItem</a>	List of coupons.	
retailTransactionPromotionPriceDerivationRuleList		List of <a href="#">EndOfTripResponseRetailTransactionPromotionPriceDerivationRuleItem</a>	List of conditions.	

#### 4.15. EndOfTripResponseRetailTransactionCouponSummaryItem

Field Name	Required	Type	Description	Format
couponNumber	X	String	The coupon number.	
inputCount	X	BigDecimal	Count of registered coupons.	
appliedCount	X	BigDecimal	Number of used coupons.	

Field Name	Required	Type	Description	Format
customerRelated		Boolean	Defines, if a customer is related to the coupon. Will be used for valuephone coupons.	

#### 4.16. EndOfTripResponseRetailTransactionLineItem

Field Name	Required	Type	Description	Format
saleReturnLineItem		EndOfTripResponseSaleReturnLineItem		
priceModificationLineItem		EndOfTripResponsePriceModificationLineItem		
loyaltyRewardLineItem		EndOfTripResponseLoyaltyRewardLineItem		
taxLineItem		EndOfTripResponseTaxLineItem		
depositAssociationList		List of <a href="#">EndOfTripResponseDepositAssociationItem</a>		
externalTransactionAssociation		EndOfTripResponseExternalTransactionAssociation		

#### 4.17. EndOfTripResponseRetailTransactionPromotionPriceDerivationRuleItem

Field Name	Required	Type	Description	Format
promotionId	X	BigDecimal	The unique identifier of the promotion.	
priceDerivationRuleId	X	BigDecimal	The unique identifier of the price derivation rule.	
priceDerivationRuleEligibilityId	X	BigDecimal	The unique identifier of the root eligibility.	
ReceiptPrinterName		String	Text to be printed on the receipt.	

#### 4.18. EndOfTripResponseRetailTransactionPromotionTriggerItem

Field Name	Required	Type	Description	Format
triggerSequenceNumber	X	BigDecimal	The ident of the trigger (because a transaction item can have more than one trigger).	
triggerType	X	String	The type of the trigger (referencing to POS configuration).	
triggerValue	X	String	The value of the trigger (referencing to POS configuration).	

#### 4.19. EndOfTripResponseSaleReturnLineItem

The sale return line item.

Field Name	Required	Type	Description	Format
posItemId		String	The ID used to identify the item.	
itemType		String	The type code of the line item.	
quantity	X	BigDecimal	The single quantity of a line item	
units		String	The units of the line item.	
extendedAmount	X	BigDecimal	The product of multiplying Quantity, Units and ActualUnitPrice.	
manualWeightInputFlag	X	Boolean	Describes how the weight was registered. Might be needed for scale receipts.	
receiptText		String	The receipt printout text.	



Field Name	Required	Type	Description	Format
registrationNumber		String	The complete number which was registered on the POS originally.	
discountFlag	X	Boolean	A flag to indicate whether this ITEM can be discounted. (Corresponds to Item.DiscountFlag)	
mainMerchandiseHierarchyGroupID		String	Unique system assigned identifier for the merchandise group.	
retailPriceModifier		List of <a href="#">EndOfTripResponseRetailPriceModifier</a>	List of line item discounts.	
frequentShopperPointsModifier		List of <a href="#">EndOfTripResponseFrequentShopperPointsModifier</a>	List of line item points discounts.	
saleReturnLineItemPromotionTrigger		List of <a href="#">EndOfTripResponseSaleReturnLineItemPromotionTrigger</a>	List of line item promotion triggers.	

#### 4.20. EndOfTripResponseSaleReturnLineItemPromotionTrigger

Field Name	Required	Type	Description	Format
privilegeType		String	Defines the method for price modification.	
privilegeValue		String	Reduction amount, reduction percent or new price amount.	

#### 4.21. EndOfTripResponseTaxLineItem

Field Name	Required	Type	Description	Format
taxIncludedInPricesFlag	X	Boolean	A flag denoting that all applicable taxes are included in the prices for this line item, and that therefore this SaleReturnTaxLineItem is merely a summary of those taxes.	
taxableAmount	X	BigDecimal	The monetary value of the transaction for which tax is being calculated.	
taxPercent	X	BigDecimal	The percentage of the taxable amount that should be tax. Derived by applying the appropriate TaxGroupRule and TaxRateRule.	
taxAmount		BigDecimal	The monetary amount of sales Tax calculated by applying the appropriate TaxGroupRule and TaxRateRule.	
receiptPrintCode		String	short code that is printed on a receipt to denote items that are in this TaxableGroup.	

#### 4.22. EndOfTripResponseTransaction

Field Name	Required	Type	Description	Format
suspendNumber	X	String		
retailTransaction		EndOfTripResponseRetailTransaction		

#### 4.23. ExternalTransactionAssociation

Links to external transactions.

Field Name	Required	Type	Description	Format
associationTypeCode	X	String	* EMPT - link to empties receipt * SCAL - link to scale receipt	Enum: EMPT, SCAL,

Field Name	Required	Type	Description	Format
toTransactionId	X	String		

## 4.24. Problem

A response object to describe the problem that has just happened.

Field Name	Required	Type	Description	Format
message		String	A human readable description whats going wrong, and if possible how to handle / solve this error.	
timestamp	X	Date	The current timestamp when the problem occurred.	date-time
url	X	String	The url that has just been called.	
status	X	Integer	The original http statuscode which this error was rejected.	int32

## 4.25. PromotionTrigger

Line of line item promotion trigger which comes from a barcode.

Field Name	Required	Type	Description	Format
triggerType	X	String	The type of the trigger (referencing to POS configuration).	
triggerValue	X	String	The value of the trigger (referencing to POS configuration).	
sequenceNumber	X	Integer	The sequence number of promotion trigger within the containing context.	int32
privilegeType	X	String	Defines the method for price modification.	
privilegeValue	X	BigDecimal	Reduction amount, reduction percent or new price amount.	
reasonCode		String	Reason code for the manual discount.	

## 4.26. RetailTransactionCouponSummary

Field Name	Required	Type	Description	Format
couponNumber	X	String	The coupon number.	
inputCount	X	Integer	Count of registered coupons. It is used to know how many coupons were scanned.	
customerRelated	X	Boolean	Flag if the coupon is customer related. If yes, it is related to the customer from the transaction.	

## 4.27. RetailTransactionLineItem

Field Name	Required	Type	Description	Format
sequenceNumber	X	Integer	The sequence number of line item within the context of this RetailTransaction.	int32
beginDateTimestamp	X	Date	The start time of the retail transaction line item.	date-time
endDateTimestamp	X	Date	The end time of the retail transaction line item.	date-time
voidFlag		Boolean	A boolean indicator that tells if this line item is voided or not.	
entryMethodCode		String	A retailer assigned code to denote how the RetailTransactionLineItem was entered at the Workstation.	Enum: Scanned, Keyed,
typeCode	X	String	* SR - SaleReturnLineItem * VL - VoidsLineItem	Enum: SR, VL,

Field Name	Required	Type	Description	Format
voidTypeCode		String	* 00 - Immediate Void (last line-item) * 01 - Void (non-last line-item)	Enum: 00, 01,
saleReturnLineItem	X	SaleReturnLineItem		
externalTransactionAssociation		ExternalTransactionAssociation		
depositAssociationList		List of <a href="#">DepositAssociation</a>		
auditEventList		List of <a href="#">AuditEvent</a>	List of line item audit events.	
additionalProperties		Map of <a href="#">[String]</a>	General key-value map for project extensibility.	

## 4.28. SaleReturnLineItem

Sale return line item.

Field Name	Required	Type	Description	Format
posItemId	X	String	The ID used to identify the item. Corresponds to simpleItemSO.posIdentity.	
registrationNumber		String	The complete number which was registered on the POS originally.	
quantity	X	Integer	The single quantity of a line item.	
itemType	X	String	The type code of the line item > * CO - Common * ER - Empties Return * SC - Scale Receipt * DI - Deposit Item	Enum: CO, ER, SC, DI,
actualUnitPrice		BigDecimal	The actual per-unit price. Mandatory only if sellUnitRetailPriceEntryMethodCode = BARC	
extendedAmount		BigDecimal	The product of multiplying Quantity, Units and ActualUnitPrice. Needed for entering weight or price coded barcodes. Mandatory if sellUnitRetailPriceEntryMethodCode = BARC	
units		BigDecimal	The units of the line item. Mandatory if sellUnitRetailPriceEntryMethodCode = BARC	
sellUnitRetailPriceEntryMethodCode		String	A code that describes how this line item's retail selling unit price is being entered. * PRIC - not mandatory * BARC - must fill actualUnitPrice, extendedAmount, units	Enum: PRIC, BARC,
ageVerificationRequired		Boolean	Defines, if an age verification check is detected during scanning the item.	
promotionTrigger		PromotionTrigger		
additionalProperties		Map of <a href="#">[String]</a>	General key-value map for project extensibility.	

## 4.29. SelfScanningTransaction

Field Name	Required	Type	Description	Format
businessUnitId	X	String	Store ID	
beginDateTimestamp	X	Date	The time and date a transaction is initiated.	date-time
cancelledFlag		Boolean	A flag denoting that this entire transaction has been cancelled before it was completed at the Self Scanning Client.	
lineItemList	X	List of <a href="#">RetailTransactionLineItem</a>	List of line items	
couponSummaryList		List of <a href="#">RetailTransactionCouponSummary</a>	List of coupons	
auditEventList		List of <a href="#">AuditEvent</a>	List of audit events	
promotionTriggerList		List of <a href="#">PromotionTrigger</a>	List of promotion triggers.	
selfScanningTransactionId	X	UUID		uuid

Field Name	Required	Type	Description	Format
deviceId	X	String		
allItemsEntered	X	Boolean		
additionalProperties		Map of <a href="#">String</a>	General key-value map for project extensibility.	

### 4.30. Totals

Field Name	Required	Type	Description	Format
subtotal	X	BigDecimal	Subtotal without transaction discounts and without taxes.	
subtotalDiscount	X	BigDecimal	Subtotal with transaction discounts and without taxes.	
total	X	BigDecimal	Transaction total with - taxes that are not included in prices - transaction discounts - rounding	