NCR Commerce Platform Loyalty API Package for Aloha Cloud

Contents

Aloha Cloud-BSL Loyalty API Package 2

Promotion Execution Service fields mapped to Aloha Cloud Back office 2

POST Finalize promotions: 4

POST Get promotions: 7

POST Void promotions: 11

Use cases Aloha Cloud supports via Loyalty (Consumer Data Management) 12

POST Creates a new consumer: 12

Aloha Cloud-BSL Loyalty API Package

The **Loyalty Service** provides an easy-to-use interface that connects various touchpoints to providers that want to communicate with the consumer and discount the check. This a routing service that routes requests from touchpoints to your loyalty service and returns your responses to those touchpoints. Touchpoints could be a POS, ecommerce site, or mobile app. The Loyalty services enables integrating touchpoints to gain access to a rich list of existing loyalty providers by connecting to NCR touchpoints in restaurants, requiring no site-level installations or maintenance.

To integrate with Promotion Execution Service (PES) as a loyalty partner, you must host a publicly available API that meets the Service Partner Interface (SPI) detailed in the "API Specs" menu in the top nav. All the paths in the API specs MUST be implemented.

NOTE: Each endpoint in the API spec will display the URL you must support for PES to reach your loyalty service. Please be aware that the example path /promotion-execution-mock-adapter/ listed in each endpoint is not a required part of your URL; you will substitute this with your own base URL.

Your loyalty service must also accept the payloads sent by PES, and your service's responses must return to PES in the way defined by the API spec, under the Request body and Response body sections of each endpoint.

Promotion Execution Service fields mapped to Aloha Cloud Back office

1. *Name - Name)*: Descriptive name for the promotion. The name appears on the guest check screen after applying the promotion.

2. *External Id – ExternalPromotionId - PromotionId*: External ID (Optional) if blank - system automatically assign an external ID

3. *POS Active – isAvailable*: Identification of the transaction/receipt as presented to the customer (shown or printed on the receipt)

4. *Activate by Event - ActivateBy**: Event that activates the promotion

5. *Print Check on Close - PrintCheckOnClose*: (Optional) to print a duplicate receipt when you close the check.

6. *Trigger - TriggerBy*: Method to use for applying the promotion

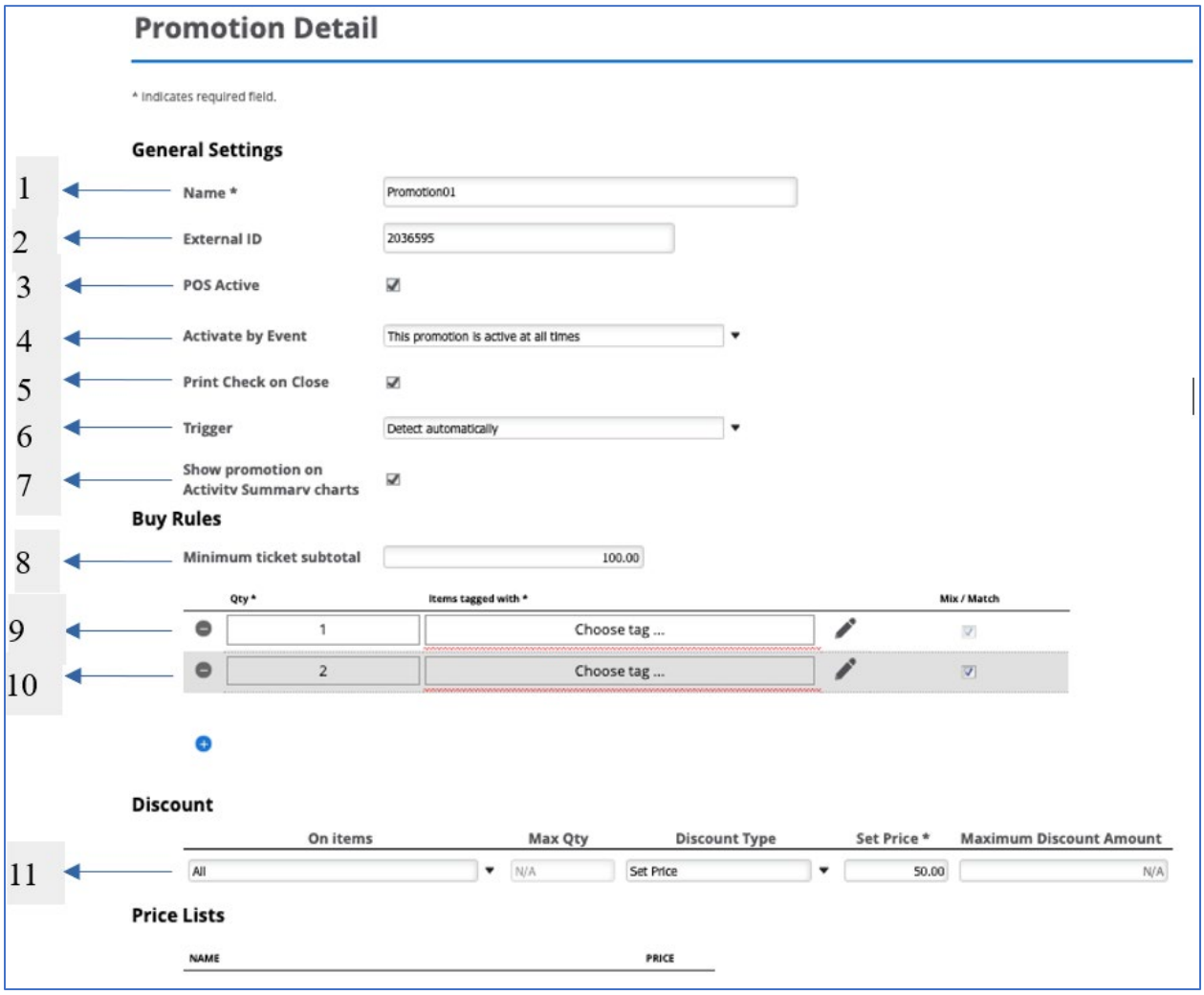
7. *Show promotion on Activity Summary charts*: (Optional) to include the discount in the totals on the Activity Summary page

8. *Minimum ticket subtotal* - *MinimumTicketSubtotal*: Minimum ticket subtotal required to qualify for the promotion

9. *Quantity1* - *Qualifications*: First rule for the promotion (quantity, if greater than 1)

10. *Quantity2* - *Qualifications*: Second rule for the promotion (quantity, if greater than 2)

11. *Discount* - *PromotionDiscount*: Rule for which the discount applies from



Use cases Aloha Cloud supports via Loyalty (Promotion Execution Services)

POST Finalize promotions:

This endpoint is used to finalize the consumer's order

End Point URL: https://api.ncr.com/promotion-execution/promotions/finalize

Request Headers:
nep-enterprise-unit: String - The specific enterprise unit that the request is coming from
nep-source-version: String - The POS and version of that POS that the request is coming from
nep-device-id: String - The specific terminal, kiosk, or phone that the request is coming from
Accept-Language: String - Describes the natural languages that are preferred as a response to the request
ncr-pes-partner-name: String - Determines the partner that will be used in the requests.
nep-organization: String - Name of the platform organization the request will be processed in
nep-correlation-id: String - User provided correlation ID for request tracing

Request Body:
Name: body
Type: Object

Contents of Request Body:
OrderData: consumerIds: ConsumerRequestData: identifier: string
Consumer identifier

OrderData: consumerIds: ConsumerRequestData: consumerStatus: Enum
ACTIVE:
INACTIVE:
Consumer status

OrderData: consumerIds: ConsumerRequestData: type: Enum
LOYALTY_ID:
EMAIL:
PHONE:
OTHERS:
Type of the identifier

OrderData: orderBeginDateTime: string (date-time)
order transaction begin date and time, Used to filter the promotions

OrderData: orderId: string
Identifier for order transaction; should be unique across enterprise.
MaxLength: 2147483647, MinLength: 1

OrderData: consumerIds: ConsumerRequestData: internalId: string
Any unique number associated with the consumer. Internal unique number and is not exposed to the consumer.

OrderData: consumerIds: ConsumerRequestData: firstName: string
Consumer First name

OrderData: consumerIds: ConsumerRequestData: lastName: string
Consumer last name

OrderData: consumerIds: ConsumerRequestData: consumerIds: ConsumerRequestData: consumerStatus: Enum
ACTIVE:
INACTIVE:
Consumer status

OrderData: consumerIds: ConsumerRequestData: programBalances: ProgramBalanceData: programName: string
Program Name

OrderData: consumerIds: ConsumerRequestData: programBalances: ProgramBalanceData: openingBalance: number
Opening Balance

Request Body Example:


```
{
  "orderId": "s0xh7ARu",
  "orderBeginDateTime": "2020-02-28T16:51:53.327Z",
  "appliedRewards": [],
  "items": [
    {
      "sequenceId": 85859,
      "itemCode": "637617008998",
```

```
      "itemName": "CHEESEBURGER",
      "quantity": {
        "units": 1,
        "unitType": "GRAMS"
      },
      "unitPrice": 5,
      "alternatePrice": 0,
      "discountable": false,
      "considerForOrderLevelRewards": true,
      "clearanceLevel": "NOT_ON_CLEARANCE",
      "companyPrefix": "",
      "shippingPrice": 0
    }
  ],
  "returnItems": [],
  "coupons": [],
  "consumerIds": [
    {
      "identifier": "4045551234",
      "type": "PHONE"
    }
  ],
  "redeemLoyalty": [],
  "tenders": [],
  "orderLevelAdjustments": [],
  "orderTotals": [
    {
```

```
            "value": 2.49,
            "type": "TAX_EXCLUDED"
        }
    ],
    "rewardApprovals": [],
    "totals": false,
    "channelType": "POS",
    "payment": "COLLECTED",
    "dynamicAttributes": []
}
```


Response Status Codes:
204/JSON: Success
400/JSON: Bad request
401/JSON: Unauthorized: The request requires user authentication
403/JSON: Forbidden: The requesting user does not have access
500/JSON: Internal server error
502/JSON: Partner error
503/JSON: Service unavailable

POST Get promotions:

This endpoint is used to send the current status of the order to the partner for them to determine what actions should be taken on the check

End Point URL: https://api.ncr.com/promotion-execution/promotions/get

Request Headers:
nep-enterprise-unit: String - The specific enterprise unit that the request is coming from
nep-source-version: String - The POS and version of that POS that the request is coming from
nep-device-id: String - The specific terminal, kiosk, or phone that the request is coming from
Accept-Language: String - Describes the natural languages that are preferred as a response to the request
ncr-pes-partner-name: String - Determines the partner that will be used in the requests.
nep-organization: String - Name of the platform organization the request will be processed

in
nep-correlation-id: String - User provided correlation ID for request tracing

Request Body:
Name: body
Type: Object

Contents of Request Body:
OrderData: consumerIds: ConsumerRequestData: identifier: string
Consumer identifier

OrderData: consumerIds: ConsumerRequestData: consumerStatus: Enum
ACTIVE:
INACTIVE:
Consumer status

OrderData: consumerIds: ConsumerRequestData: type: Enum
LOYALTY_ID:
EMAIL:
PHONE:
OTHERS:
Type of the identifier

OrderData: orderBeginDateTime: string (date-time)
order transaction begin date and time, Used to filter the promotions

OrderData: orderId: string
Identifier for order transaction; should be unique across enterprise.
MaxLength: 2147483647, MinLength: 1

OrderData: consumerIds: ConsumerRequestData: internalId: string
Any unique number associated with the consumer. Internal unique number and is not exposed to the consumer.

OrderData: consumerIds: ConsumerRequestData: firstName: string
Consumer First name

OrderData: consumerIds: ConsumerRequestData: lastName: string
Consumer last name

OrderData: consumerIds: ConsumerRequestData: consumerIds: ConsumerRequestData:

consumerStatus: Enum
ACTIVE:
INACTIVE:
Consumer status

OrderData: consumerIds: ConsumerRequestData: programBalances: ProgramBalanceData: programName: string
Program Name

OrderData: consumerIds: ConsumerRequestData: programBalances: ProgramBalanceData: openingBalance: number
Opening Balance

Request Body Example:

{

"orderId": "RESPOND-STATIC",

"orderBeginDateTime": "2023-02-01T00:00:00+0000",

"consumerIds": [

{

"identifier": "john.doe@somewhere.com"

}

]

}

Response Body Example:

{

"providerResponseTime": "2023-10-11T17:34:21.7475165Z",

"consumer": {

"consumerStatus": "INACTIVE"

},

"notifications": [

{

"maxRewardApprovals": 0,

```
"maxItemsWithPurchase": 0,
"otherNotifications": [
{
"promotionId": "solutran-test",
"description": [
{
"key": "ACTION_CODE",
"value": "111 - Invalid Card #",
"localizedValue": {
"values": [
{
"locale": "en-us",
"value": ""
}
]
}
}
],
"alertDuration": 0,
"notificationFor": "CASHIER_AND_CONSUMER",
"notificationOrder": 0,
"messageType": "INFO"
}
]
}
],
"itemLevelAppliedRewards": [],
```

"sellingEngineNotifications": [

{

"referencedPromotions": []

}

]

}

Response Status Codes:
200/JSON: Success
400/JSON: Bad request
401/JSON: Unauthorized: The request requires user authentication
403/JSON: Forbidden: The requesting user does not have access
500/JSON: Internal server error
502/JSON: Partner error
503/JSON: Service unavailable

POST Void promotions:

This endpoint is used to void orders

End Point URL: https://api.ncr.com/promotion-execution/promotions/void

Request Headers:
nep-enterprise-unit: String - The specific enterprise unit that the request is coming from
nep-source-version: String - The POS and version of that POS that the request is coming from
nep-device-id: String - The specific terminal, kiosk, or phone that the request is coming from
Accept-Language: String - Describes the natural languages that are preferred as a response to the request
ncr-pes-partner-name: String - Determines the partner that will be used in the requests.
nep-organization: String - Name of the platform organization the request will be processed in
nep-correlation-id: String - User provided correlation ID for request tracing

Request Body:
Name: body

Type: Object

Contents of Request Body:
OrderIdData: orderId: string
Identifier for order transaction; should be unique across enterprise.
MaxLength: 2147483647, MinLength: 1
The ID of an order, the unique identifier for an order

Request Body Example:
POST {{service_url}}/promotion-execution/promotions/void

```
{
  "orderId": "1d7fa9dd94d34e0aaae10c4dd6705d20"
}
```

Response Status Codes:
204/JSON: Success
400/JSON: Bad request
401/JSON: Unauthorized: The request requires user authentication
403/JSON: Forbidden: The requesting user does not have access
500/JSON: Internal server error
502/JSON: Partner error
503/JSON: Service unavailable

Use cases Aloha Cloud supports via Loyalty (Consumer Data Management)

POST Creates a new consumer:

Consumer Data Management (CDM) is a centralized source of consumer primary data. It provides a way to maintain consumer information, remove duplicates or inconsistencies, and propagate data across all applications within an organization. This end point returns consumer account number as an integer. This operation is supported in both Persistence and Proxy modes.

Roles: CDM_CUSTOMER_MODIFIER

End Point URL: https://api.ncr.com/cdm/consumers

Request Headers:
nep-organization: String - Used to access data for a specific tenant. This is also used to specify the login organization for a user in a tenant. If not provided, the user's parent

organization is used.
nep-enterprise-unit: String – Enterprise unit for the consumer
nep-correlation-id: String - User provided correlation ID for request tracing
Content-Type: String - The media type of the entity-body, this endpoint only allows application/json as body
nep-device-id: String - The Device ID of the calling POS

Request Body:
Name: application/json
Type: Object
Description: Consumer that should be createds

Contents of Request Body:
ConsumerCreateData: phone: string
MaxLength: 14, MinLength: 7, Pattern: .*

ConsumerCreateData: consumerAccountNumber: string

Request Body Example:

{

"consumerAccountNumber": "231298",

"firstName": "Jaqueline",

"lastName": "Goldberg",

"phone": "5559876325",

"identifiersData": [

{

"fieldName": "loyaltyCard",

"fieldValue": "231298",

"status": "ACTIVE",

"provider": "ams"

},

{

"fieldName": "alternateId",

"fieldValue": "231298",

"status": "ACTIVE",

"provider": "ams"

},

{

"fieldName": "storedValueId",

"fieldValue": "chargeaccount",

"status": "ACTIVE",

"provider": "ams"

}

]

}

Response Body Example:

{
"consumerAccountNumber": ""KA6Z60JR0UVFTHI6"
}

Response Status Codes:

200/JSON: Success
400/JSON: Consumer already exists
403/JSON: Authentication error
404/JSON: Consumer not found
502/JSON: CDM Proxy error
504/JSON: CDM External Partner Timeout error

Loyalty User Journey Map

