

Oracle Hospitality Integration Platform

Payments — Authorizations and Settlements



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Preface

Oracle Hospitality Integration Cloud Service and OPERA Cloud Foundation users are authorized to access the following modules and features:

- Oracle Hospitality Integration Platform including Oracle Hospitality Developer Portal and Hospitality REST APIs.

The Oracle Hospitality Developer Portal enables users to discover Oracle Hospitality APIs, subscribe to Oracle Hospitality APIs, and to get the necessary information to consume them.

The Oracle Hospitality Developer Portal's APIs page provides information about published Oracle Hospitality APIs. Here you can find and evaluate Oracle Hospitality APIs to use with your applications.

After you discover the Oracle Hospitality APIs that you want to use, register an application and then register those APIs to your application.

To view more details about the Oracle Hospitality Developer Portal, on the user menu drop-down, click the drop-down, and select **About Developer Portal**.

Purpose

This guide describes the best practices to conduct authorizations and settlements with the credit card payment method for reservations.

Audience

This guide is intended for customers and partners who develop applications with the Oracle Hospitality Integration Platform.

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at <https://docs.oracle.com/en/industries/hospitality/>.

Revision History

Date	Description of Change
April 2025	Initial publication
August 2025	Formatting changes

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Business Context

This guide describes the best practices to conduct authorizations and settlements with the credit card payment method for reservations.

Note

API usage and capabilities are subject to change. For more information on API versioning, see the [Versioning](#) topic in the Oracle Hospitality Integration Platform User Guide.

For the most comprehensive and up-to-date information, including additional query parameters and detailed descriptions, always refer to the latest API specifications in [GitHub](#). This will ensure that you are accessing the most current and complete set of features available.

Many hotels with OPERA Cloud are using the Oracle Payment Interface (OPI) to integrate with Payment Service Providers (PSP) to obtain tokens for the credit card number, and then process authorizations and payments to collect revenue. A credit card authorization is used by the hotel to verify a guest has enough funds to cover the amount to be paid on a settlement (the cost of the reservation stay). It is important to know how best to conduct successful credit card authorization and settlement transactions with the Property APIs.

Use Case	Description	Operation IDs
Conducting a credit card payment method authorization transaction	Reservation requires a credit card pre-authorization for check-in. Pre-authorization can be taken days ahead of the guest arrival date or at the time of check-in. The reservation has an existing credit card payment method (tokenized) that the guest wants to use for the reservation authorization, or the guest has a different credit card for use and is near the credit card reader device (such as a Kiosk with a card reader attached). The Partner requests the credit card authorization accordingly and the transaction is sent to the Payment Service Provider (through OPI). The response (success or failure) is returned to the Partner.	getReservation getPaymentMethods getConfiguredExternalDevices postAuthorizeCreditCardAmount
Conducting a credit card payment method settlement (payment) transaction	The guest is looking to settle their reservation folio during their stay or at checkout. The reservation has an existing credit card payment method (tokenized) that the guest wants to use for a credit card settlement, or the guest has a different credit card for use and is near the credit card reader device (like a Kiosk with a card reader attached). The Partner requests the credit card settlement for the amount accordingly and the transaction is sent to the Payment Service Provider (through OPI). The response (success or failure) is returned to the Partner.	getReservation getFolios getConfiguredExternalDevices postBillingPayments

Figure 1-1 Scenario 1: Credit Card Authorization with Reservation's Existing Credit Card Payment Method

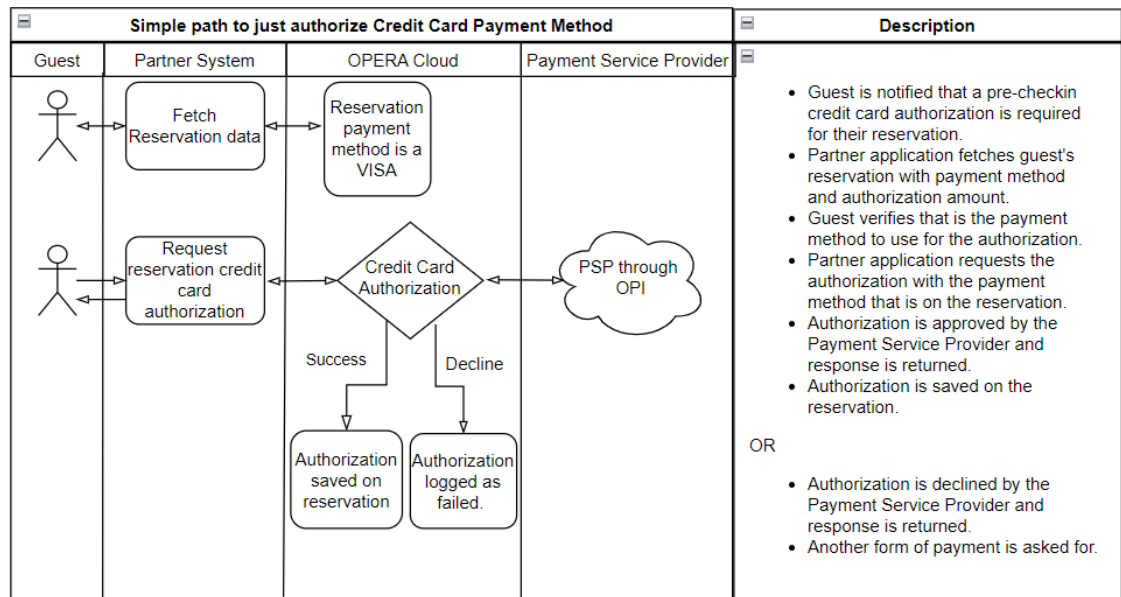


Figure 1-2 Scenario 2: Credit Card Authorization with a New Credit Card Payment Method Captured on Credit Card Reader Device

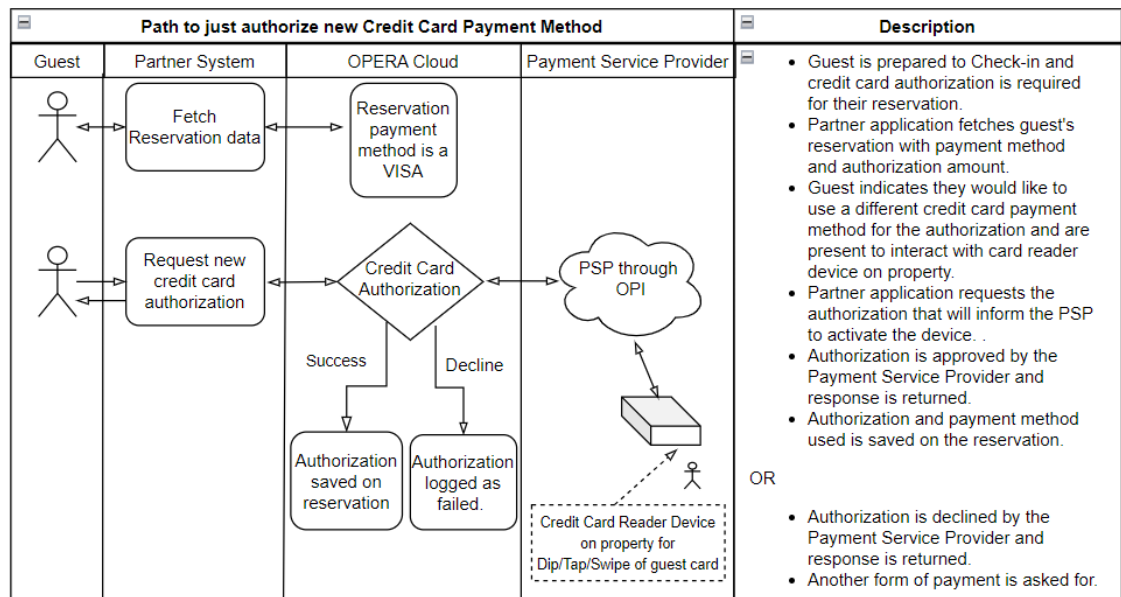


Figure 1-3 Scenario 3: Credit Card Settlement with Reservation's Existing Credit Card Payment Method

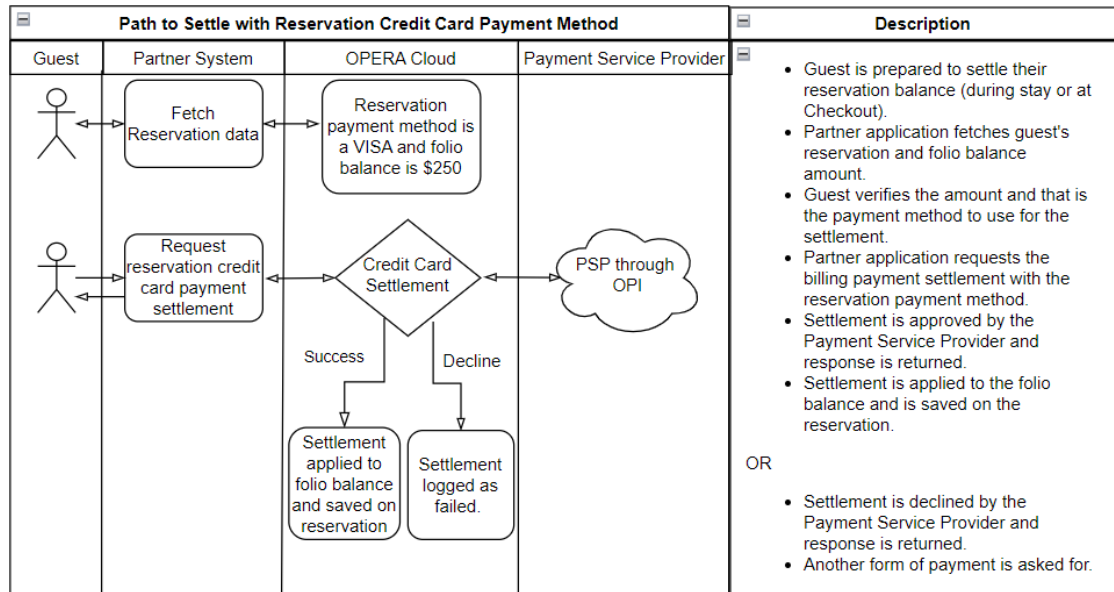
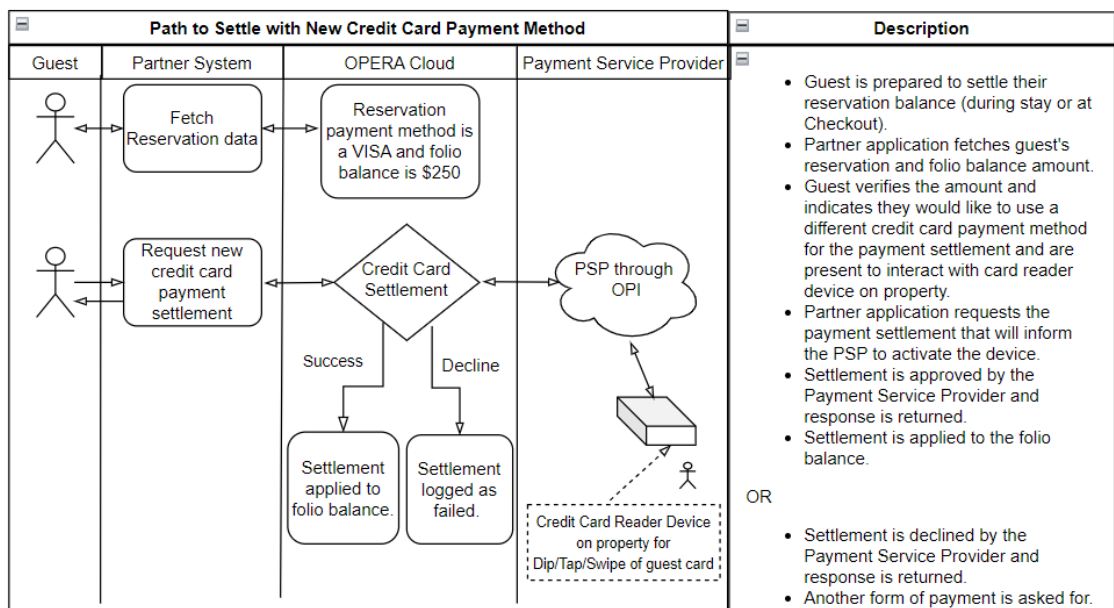


Figure 1-4 Scenario 4: Credit Card Settlement with a New Credit Card Payment Method Captured on Credit Card Reader Device



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Prerequisites

OPERA Cloud is striving to not use credit card numbers (that is, PCI data). Therefore, it is expected that OPI will be active with most properties to utilize tokenization and process financial transactions.

Payment Service Providers (PSP) must be certified with Oracle for OPI functionality.

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Recommended Tools

The below software tools are useful when following the steps outlined in this guide.

Tool	Description	Links
Github	A Github repository containing both Oracle Hospitality REST API specifications and accompanying Postman Collections.	Github and Postman Collections Github
Postman Collections	In the postman-collections folder in Github, you can download and use the Postman Collections associated to the use cases explained in this guide.	Oracle Hospitality APIs Overview Postman

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Environment

The following environments and modules must be available to perform the Business cases with the Property APIs that are described in this guide.

Oracle Platform/Service	Description	Minimum Version
OPERA Cloud Services	The customer must have a subscription to OPERA Cloud Foundation	With OPI on premise - 21.5.0.0 With OPI Cloud - 23.1.0.0
Oracle Hospitality Integration Platform (OHIP)	For customers, OHIP is included in the subscription to OPERA Cloud Foundation. Partners need a subscription to Oracle Hospitality Integration Cloud Service	The latest released version. OHIP is a single version product.
Oracle Payment Interface (OPI)	The customer can have OPI on premise or OPI Cloud.	20.3 OPI (Premise) 23.1 OPI Cloud

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Required Configurations

To start calling Property APIs, refer to the following topics in the OPERA Cloud Mobile Guest Experience User Guide and perform the related tasks:

- [Accessing the Oracle Hospitality Integration Platform Developer Portal](#)
- [Creating an Integration User](#)
- [Registering an Application](#)

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Workflow Sequences

Scenario 1: Authorization on Existing Credit Card Payment Method

Figure 6-1 Sequence Diagram for Scenario 1

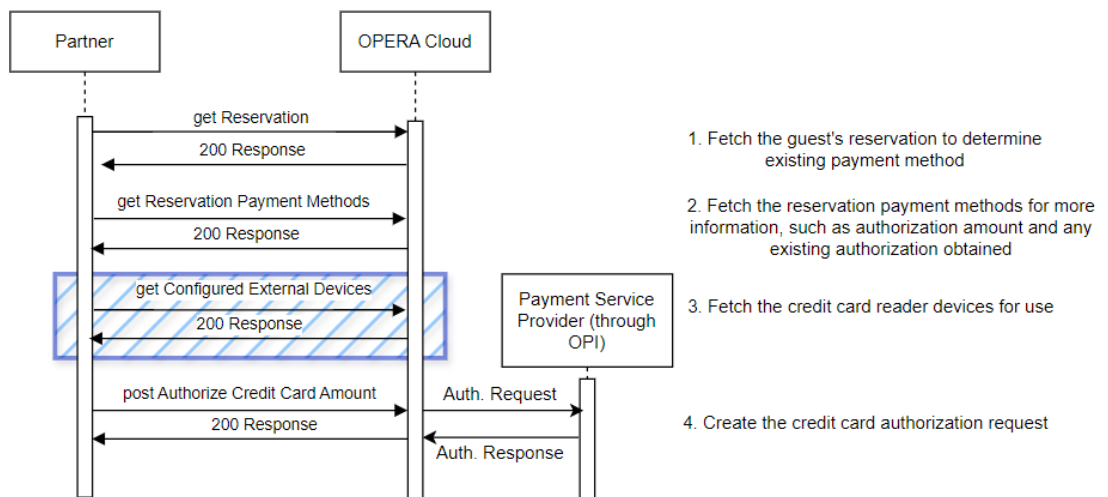


Table 6-1 Description of Steps

Description of Steps	Operation Samples
<p>1 Partner queries the guest reservation to retrieve the reservation payment method and inform the guest that a credit card pre-authorization can be completed. This can be done a few days prior to the reservation Arrival Date or at the time the guest is ready for check-in.</p> <p>The get reservation response includes the payment method on the reservation and the last 4 digits of the credit card. The guest is informed that a credit card settlement is requested on the VISA card's last 4 digits of 1007. If the guest verifies this is the card for the authorization, the cardId value found in the get reservation response is used in the request for authorization to indicate use of existing credit card payment method.</p>	<p>getReservation</p> <pre> {{HostName}}/rsv/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}? fetchInstructions=Reservation&fetchInstructions=Rese rvationPaymentMethods </pre> <p>200 Response with reservationPaymentMethods>paymentMethod=VA (VISA) and paymentCard>cardId>id:</p> <pre> { "reservations": { "reservation": [{ "reservationIdList": [{ "id": "<ID_NUMBER>", "type": "Reservation" }, { "id": "<ID_NUMBER>", "type": "Confirmation" }] }, { "sourceOfSale": { "sourceType": "PMS", "sourceCode": "HOTEL" }, "roomStay": { "registrationNumber": { "id": "", "type": "Reservation" }, "currentRoomInfo": { "roomType": "STDQ", "roomOwnershipType": </pre> <p>"Regular"</p> <pre> }, "roomRates": [{ "total": { "amountBeforeTax": </pre> <p>200</p> <pre> }, "rates": { "rate": [{ "base": { </pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "amountBeforeTax": 200, "baseAmount": 200 }, "shareDistributionInstruction": "Full", "total": { "amountBeforeTax": 0 }, "start": "2024-09-11", "end": "2024-09-11" } } }, "guestCounts": { "childBuckets": { "bucket1Count": 0, "bucket2Count": 0, "bucket3Count": 0, "bucket4Count": 0, "bucket5Count": 0 }, "adults": 2, "children": 0 }, "roomType": "STDQ", "ratePlanCode": "IHUBASE1", "start": "2024-09-11", "end": "2024-09-11", "suppressRate": false, "marketCode": "CORP", "marketCodeDescription": "Group Corporate (SUBH)", "sourceCode": "CAT", "sourceCodeDescription": "Catering", "numberOfUnits": 1, "pseudoRoom": false, "roomTypeCharged": "STDQ", </pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"houseUseOnly": false, "complimentary": false, "fixedRate": false, "discountAllowed": true, "bogoDiscount": false, "allowAutoCheckIn": false }</pre>
	<pre>], "arrivalDate": "2024-09-11", "departureDate": "2024-09-12", "expectedTimes": { "reservationExpectedArrivalTime": "2024-09-11", "reservationExpectedDepartureTime": "2024-09-12" }, "guarantee": { "guaranteeCode": "6PM", "shortDescription": "6pm Hold" }, "total": { "amountBeforeTax": 0 }, "totalPoints": { "points": 0 }, "roomNumberLocked": false, "printRate": true }, "reservationGuests": [{ "profileInfo": { "profileIdList": [{ "id": <ID_NUMBER>", "type": "Profile" }], "profile": { "customer": { "personName": [{ "givenName": "FirstName",</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"surname": "LastName", "nameType": "Primary" }, { "givenName": "FirstName", "surname": "LastName", "nameType": "Alternate" }, { "nameType": "External" }], "gender": "Unknown", "birthDate": "<DATE_OF_BIRTH", "nationality": "CA", "nationalityDescription": "<NATIONALITY>" }, "addresses": { "addressInfo": [{ "address": { "isValidated": true, "addressLine": ["<ADDRESS>", null, null, null], "postalCode": "XXXXX", "country": {</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"value": "United States of America", "code": "USA", "displayCountryFlag": true }, "language": "ES", "type": "HOMES", "primaryInd": true }, "id": "<ID_NUMBER>", "type": "Address" }] }, "emails": { "emailInfo": [{ "email": { "emailAddress": "username@example.com" }, "type": "EMAIL", "primaryInd": true }, "id": "<ID_NUMBER>", "type": "Email" }, { "email": { "emailAddress": "username@example.com" }, "type": "EMAIL", "primaryInd": false }, }</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"id": "<ID_NUMBER>", "type": "Email" }], "profileType": "Guest" }, "arrivalTransport": { "transportationReqd": false }, "departureTransport": { "transportationReqd": false }, "primary": true },], "reservationPaymentMethods": [{ "paymentCard": { "cardId": { "id": "<ID_NUMBER>", "type": "CreditCard" }, "cardType": "Va", "cardNumberMasked": "XXXXXXXXXXXXXXXXXX", "expirationDateMasked": "XX/XX", "expirationDateExpired": false, "cardHolderName": "FirstName LastName", "processing": "Eft", "swiped": false, "cardPresent": false, "cardOrToken": "Token" }, "emailFolioInfo": { "email": { "emailAddress": "username@example.com "</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "emailFolio": false, "id": "<ID_NUMBER>", "type": "Email" }, "paymentMethod": "VA", "description": "<CREDITCARD_TYPE>", "folioView": 1 }], "cashiering": { "billingPrivileges": { "postingRestriction": false, "preStayCharging": true, "postStayCharging": false, "videoCheckout": true, "creditLimitAutoPay": true }, "reverseCheckInAllowed": false, "reverseAdvanceCheckInAllowed": false, "transactionsPosted": false }, "extSystemSync": true, "hotelId": "{{HotelId}}", "roomStayReservation": true, "reservationStatus": "Reserved", "computedReservationStatus": "Reserved", "walkIn": false, "printRate": true, "createDateTime": "2024-02-28 22:23:18.0", "creatorId": "FIRST_TEST@TEST_ENT1", "lastModifyDateTime": "2024-02-28 22:23:18.0", "lastModifierId": "FIRST_TEST@TEST_ENT1", "createBusinessDate": "2024-02-29", "preRegistered": false, "upgradeEligible": false, "allowAutoCheckin": false, "hasOpenFolio": false, "allowMobileCheckout": true, "allowMobileViewFolio": false, "allowPreRegistration": false, "optedForCommunication": false, "chargeCardNumber": "XXXXXXXXXX", "backToBack": false, </pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "payeeSharer": false }], }, "masterInfoList": [{ "codeInfo": [{ "description": "United States of America", "code": "USA" }], "codeType": "Country" }, { "codeType": "State" }, { "codeInfo": [{ "description": "Home Address", "code": "HOMES" }], "codeType": "AddressType" }], "links": [...] }</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>2 Partner can make an additional call to get reservation payment methods to obtain more information for the reservation payment methods. The response will have the authorizationRule with the amount the site asks for authorizing on reservation, the approvalAmountNeeded with the amount that is still needed for authorization, and the currentAuthorizedAmount with the amount, if any, of an existing authorization. If approvalAmountNeeded is 0 amount, it is expected that no credit card authorization is needed.</p> <p>With the get reservation call and this get reservation payment methods call, the guest can be provided information that a \$230 authorization is needed for the VISA credit card. The last 4 digits of 1007 will be used for the authorization.</p>	<pre> getPaymentMethods {{HostName}}/rsv/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/paymentMethods?includeAmounts=true 200 Response { "reservationPaymentMethods":[{ "paymentCard":{ "cardId":{ "id":"<ID_NUMBER>", "type":"CreditCard" }, "currentAuthorizedAmount":{ "amount":0, "currencyCode":"USD" }, "approvalAmountNeeded":{ "amount":230, "currencyCode":"USD" }, "cardType":"Va", "cardNumberMasked":"xxxx", "expirationDateMasked":"XX/XX", "expirationDateExpired":false, "processing":"Eft", "swiped":false, "cardPresent":false, "cardOrToken":"Token" }, "balance":{ "amount":0, "currencyCode":"USD" }, "authorizationRule":{ "code":5, "amount":{ "amount":230, "currencyCode":"USD" } }, "paymentMethod":"VA", "description":"<CREDITCARD_TYPE>", "folioView":1 }], "links":[</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	}

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>3 The configured credit card reader devices must be known to send with the authorization and settlement requests. A kiosk system might have the credit card reader device attached and it is known. Others will need to fetch the hotel's configured external devices to get the id of a configured device to populate the terminalId element in the authorization and settlement APIs. The label is expected to be descriptive to indicate where that reader exists. The deviceArea can also be used to identify an area where more than 1 reader device can belong.</p> <p>This configuration does not change often, and it is recommended to cache the result and refresh only if issues occur around the credit card reader devices.</p>	<pre> getConfiguredExternalDevices {{HostName}}/int/config/v1/ configuredExternalDevices? deviceType=CreditCard&active=true&hotelId={{HotelId}} &deviceCode=ChipAndPin 200 Response: { "configuredExternalDevices": { "deviceType": "CreditCard", "supportedExternalDevices": [{ "hotelId": "{{HotelId}}", "supportedDevices": [{ "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "1CCREADER1", "label": "Lobby East", "translatableLabel": { "defaultText": "Lobby East", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "2CCREADER2", "label": "Lobby West", "translatableLabel": { "defaultText": "Lobby West", "translatedTexts": [] }, "iDEditable": true }] }] } } </pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "iEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "BACKOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "3CCREADER3", "label": "Back Office Accounting", "translatableLabel": { "defaultText": "Back Office Accounting", "translatedTexts": [] }, "iEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "KIOSKREADER", "label": "Kiosk 1 Reader", "translatableLabel": { "defaultText": "Kiosk 1 Reader", "translatedTexts": [] }, "iEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "5CCREADER5", "label": "FD Center", </pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"translatableLabel": { "defaultText": "FD Center", "translatedTexts": [] }, "iDEditable": true }] }], "links": [] }</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>4 With the reservation information and the guest's verification to use the existing credit card payment method on the reservation, the Partner can initiate an authorization request that will go out to the Payment Service Provider through OPI. The post <code>AuthorizeCreditCardAmount</code> API will trigger the credit card authorization request to be sent out to the PSP for approval. The minimum elements needed in the request body would be the <code>cardId</code> to indicate the existing credit card payment method on the reservation is to be used for the authorization and the <code>terminalId</code> (can be retrieved from step 3). Although there is no expectation to interact with a device, it is good practice to always populate the <code>terminalId</code> in the requests. The data that is sent to the PSP for the authorization is pulled from the reservation. The <code>cardId</code> is used to get the token, and the <code>cardtype</code> and the amount to be authorized is retrieved from the authorization rule on the reservation. You can specify an amount that is sent in the post <code>AuthorizeCreditCardAmount</code> request body that will be used if needed. This section can be added in the "criteria" for it:</p> <pre>"amount": { "amount": "500", "currencyCode": "USD" },</pre>	<p><code>postAuthorizeCreditCardAmount</code></p> <pre>{{HostName}}/csh/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/paymentMethods/creditCard/ authorize</pre> <p>Simplest Request Body:</p> <pre>{ "criteria": { "payment": { "paymentCard": { "cardId": { "id": "874911", "type": "CreditCard" } }, "folioView": "1" }, "terminalId": "KIOSKREADER", "evaluateApprovalAmount": true, "sourceOfAuthorization": "CheckIn", "updateReservation": true } }</pre> <p>201 Response:</p> <pre>{ "payment": { "authorizationApproval": { "approvalAmount": { "amount": 230 }, "approvalCode": "A1235", "originalAuthSequence": XXXXXXXX } } }</pre>

Table 6-1 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>A successful response from the PSP will include the approval code and the amount authorized.</p> <p>If the authorization is declined, the message from the PSP (if provided) for the decline reason will be included.</p> <p>Sample 400 Response:</p>	<pre>{ "type": "Bad Request", "title": "Failed to authorize amount on credit card (Declined for no funds)", "detail": "Failed to authorize amount on credit card (Declined for no funds)", "o:errorCode": "FOF00226", "instance": "instance-XXXXXXX", "language": "en" }</pre>

Scenario 2: Guest has New Card for Authorization

Figure 6-2 Sequence Diagram for Scenario 2

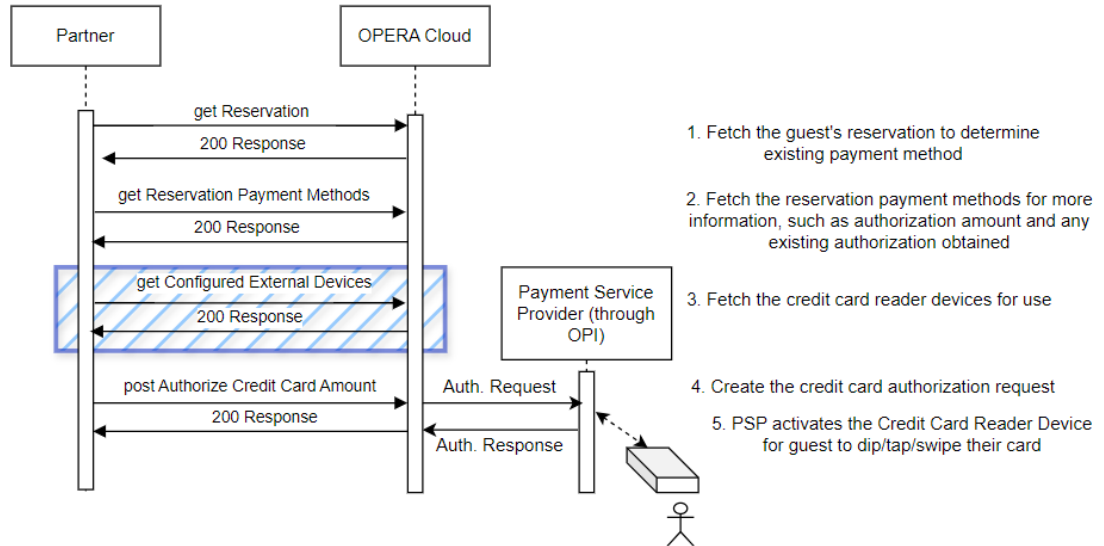


Table 6-2 Description of Steps

Description of Steps	Operation Samples
<p>1 Partner queries the guest reservation to retrieve the reservation payment method and inform the guest that a credit card pre-authorization can be completed. This can be done at the time the guest is ready for check-in.</p> <p>The get reservation response includes the payment method on the reservation and the last 4 digits of the credit card. The guest is informed that a credit card settlement is requested on the VISA card's last 4 digits of 1007.</p> <p>The guests indicate they are at the hotel and would like to use a different credit card for the reservation.</p>	<p>getReservation</p> <pre> {{HostName}}/rsv/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}? fetchInstructions=Reservation&fetchInstructions=Rese rvationPaymentMethods </pre> <p>200 Response with reservationPaymentMethods>paymentMethod=VA (VISA) and paymentCard>cardId>id:</p> <pre> { "reservations": { "reservation": [{ "reservationIdList": [{ "id": "<ID_NUMBER>", "type": "Reservation" }, { "id": "<ID_NUMBER>", "type": "Confirmation" }] }, { "sourceOfSale": { "sourceType": "PMS", "sourceCode": "HOTEL" }, "roomStay": { "registrationNumber": { "id": "", "type": "Reservation" }, "currentRoomInfo": { "roomType": "STDQ", "roomOwnershipType": </pre> <p>"Regular"</p> <pre> }, "roomRates": [{ "total": { "amountBeforeTax": </pre> <p>200</p> <pre> }, "rates": { "rate": [{ "base": { </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "amountBeforeTax": 200, "baseAmount": 200 }, "shareDistributionInstruction": "Full", "total": { "amountBeforeTax": 0 }, "start": "2024-09-11", "end": "2024-09-11" } } }, "guestCounts": { "childBuckets": { "bucket1Count": 0, "bucket2Count": 0, "bucket3Count": 0, "bucket4Count": 0, "bucket5Count": 0 }, "adults": 2, "children": 0 }, "roomType": "STDQ", "ratePlanCode": "IHUBASE1", "start": "2024-09-11", "end": "2024-09-11", "suppressRate": false, "marketCode": "CORP", "marketCodeDescription": "Group Corporate (SUBH)", "sourceCode": "CAT", "sourceCodeDescription": "Catering", "numberOfUnits": 1, "pseudoRoom": false, "roomTypeCharged": "STDQ", </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"houseUseOnly": false, "complimentary": false, "fixedRate": false, "discountAllowed": true, "bogoDiscount": false, "allowAutoCheckIn": false }</pre>
	<pre>], "arrivalDate": "2024-09-11", "departureDate": "2024-09-12", "expectedTimes": { "reservationExpectedArrivalTime": "2024-09-11", "reservationExpectedDepartureTime": "2024-09-12" }, "guarantee": { "guaranteeCode": "6PM", "shortDescription": "6pm Hold" }, "total": { "amountBeforeTax": 0 }, "totalPoints": { "points": 0 }, "roomNumberLocked": false, "printRate": true }, "reservationGuests": [{ "profileInfo": { "profileIdList": [{ "id": "1099873", "type": "Profile" }], "profile": { "customer": { "personName": [{ "givenName": "<FIRST_NAME>", "surname": "<LAST_NAME>",</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"nameType": "Primary" }, { "givenName": "<FIRST_NAME>", "surname": "<LAST_NAME>", "nameType": "Alternate" }, { "nameType": "External" }], "gender": "Unknown", "birthDate": "1985-01-02", "nationality": "CA", "nationalityDescription": "<NATIONALITY>" }, "addresses": { "addressInfo": [{ "address": { "isValidated": true, "addressLine": ["<ADDRESS>", null, null, null], "postalCode": "<POSTAL_CODE>", "country": { "value": "United States of America",</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"code": "USA", "displayCountryFlag": true }, "language": "ES", "type": "HOMES", "primaryInd": true }, "id": "type": "Address" }] }, "emails": { "emailInfo": [{ "email": { "emailAddress": "username@example.com", "type": "EMAIL", "primaryInd": true }, "id": "885779", "Email" }, { "email": { "emailAddress": "username@example.com", "type": "EMAIL", "primaryInd": false }, "id": "1847216", "type":</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
"Email"	<pre> }] }, "profileType": </pre>
"Guest"	<pre> } }, "arrivalTransport": { "transportationReqd": </pre>
false	<pre> }, "departureTransport": { "transportationReqd": </pre>
false	<pre> }, "primary": true }], "reservationPaymentMethods": [{ "paymentCard": { "cardId": { "id": "874911", "type": "CreditCard" }, "cardType": "Va", "cardNumberMasked": </pre>
"XXXXXXXXXXXX1007",	<pre> "expirationDateMasked": </pre>
"XX/XX",	<pre> "expirationDateExpired": false, "cardHolderName": </pre>
"<FULL_NAME>,"	<pre> "processing": "Eft", "swiped": false, "cardPresent": false, "cardOrToken": "Token" }, "emailFolioInfo": { "email": { "emailAddress": </pre>
"username@example.com"	<pre> }, "emailFolio": false, "id": "885779", "type": "Email" }, </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "paymentMethod": "VA", "description": "<CREDITCARD_TYPE>", "folioView": 1 }], "cashiering": { "billingPrivileges": { "postingRestriction": false, "preStayCharging": true, "postStayCharging": false, "videoCheckout": true, "creditLimitAutoPay": true }, "reverseCheckInAllowed": false, "reverseAdvanceCheckInAllowed": false, "transactionsPosted": false }, "extSystemSync": true, "hotelId": "{{HotelId}}", "roomStayReservation": true, "reservationStatus": "Reserved", "computedReservationStatus": "Reserved", "walkIn": false, "printRate": true, "createDateTime": "2024-02-28 22:23:18.0", "creatorId": "FIRST_TEST@TEST_ENT1", "lastModifyDateTime": "2024-02-28 22:23:18.0", "lastModifierId": "FIRST_TEST@TEST_ENT1", "createBusinessDate": "2024-02-29", "preRegistered": false, "upgradeEligible": false, "allowAutoCheckin": false, "hasOpenFolio": false, "allowMobileCheckout": true, "allowMobileViewFolio": false, "allowPreRegistration": false, "optedForCommunication": false, "chargeCardNumber": "XXXXXXXXXX", "backToBack": false, "payeeSharer": false }], </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"masterInfoList": [{ "codeInfo": [{ "description": "United States of America", "code": "USA" }, { "codeType": "Country" }, { "codeType": "State" }, { "codeInfo": [{ "description": "Home Address", "code": "HOMES" }, { "codeType": "AddressType" }], "links": [...] }], "links": [...] }]</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>2 The Partner can make an additional call to get the reservation payment methods to obtain more information for the reservation payment methods. The response will have the authorizationRule with the amount the site asks for authorizing on the reservation, the approvalAmountNeeded with the amount that is still needed for authorization, and the currentAuthorizedAmount with the amount, if any, of an existing authorization. If approvalAmountNeeded is 0 amount, it is expected that no creditcard authorization is needed.</p> <p>With the get reservation call and this get reservation payment methods call, the guest can be provided information that a \$230 authorization is needed and their VISA credit card with last 4 digits of 1007 will be used for the authorization.</p> <p>Again, in this scenario, the guests have indicated that they are at the hotel for Check-in and would like to use a different credit card for the reservation authorization. They are at the Kiosk station and prepared to dip/tap/swipe their credit card.</p>	<pre> getPaymentMethods {{HostName}}/rsv/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/paymentMethods?includeAmounts=true 200 Response { "reservationPaymentMethods":[{ "paymentCard":{ "cardId":{ "id":"874911", "type":"CreditCard" }, "currentAuthorizedAmount":{ "amount":0, "currencyCode":"USD" }, "approvalAmountNeeded":{ "amount":230, "currencyCode":"USD" }, "cardType":"Va", "cardNumberMasked":"xxxx", "expirationDateMasked":"XX/XX", "expirationDateExpired":false, "processing":"Eft", "swiped":false, "cardPresent":false, "cardOrToken":"Token" }, "balance":{ "amount":0, "currencyCode":"USD" }, "authorizationRule":{ "code":5, "amount":{ "amount":230, "currencyCode":"USD" } }, "paymentMethod":"VA", "description":"<CREDITCARD_TYPE>", "folioView":1 }], </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"links":[]</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>3 The configured credit card reader devices must be known to send with the authorization and settlement requests. A kiosk system might have the credit card reader device attached and it is known. Others will need to fetch the hotels configured external devices to get the id of a configured device to populate the terminalId element in the authorization and settlement APIs. The label is expected to be descriptive to indicate where that reader exists. The deviceArea can also be used to identify an area where more than one reader device can belong. This configuration does not change often, and it is recommended to cache the result and refresh only if issues occur around the credit card reader devices.</p>	<pre>getConfiguredExternalDevices {{HostName}}/int/config/v1/ configuredExternalDevices?deviceType=CreditCard& active=true& hotelId={{HotelId}} &deviceCode=ChipAndPin 200 Response: { "configuredExternalDevices": { "deviceType": "CreditCard", "supportedExternalDevices": [{ "hotelId": "{{HotelId}}", "supportedDevices": [{ "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "1CCREADER1", "label": "Lobby East", "translatableLabel": { "defaultText": "Lobby East", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "2CCREADER2", "label": "Lobby West", "translatableLabel": { "defaultText": "Lobby West", "translatedTexts": [] } }] }] } }</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "BACKOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "3CCREADER3", "label": "Back Office Accounting", "translatableLabel": { "defaultText": "Back Office Accounting", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "KIOSKREADER", "label": "Kiosk 1 Reader", "translatableLabel": { "defaultText": "Kiosk 1 Reader", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "5CCREADER5", </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"label": "FD Center", "translatableLabel": { "defaultText": "FD Center", "translatedTexts": [] }, "iDEditable": true }] }], "links": [] }</pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>4 With the terminalId and the guest prepared to dip/tap/swipe their credit card, the Partner can initiate an authorization request that will go out to the Payment Service Provider through OPI. The post AuthorizeCreditCardAmount API will trigger the credit card authorization request to be sent out to the PSP for approval. The minimum elements needed in the request body would be the cardType and paymentMethod (CP can be used generically), and the terminalId the PSP will activate for the guest to dip/swipe their card (can be retrieved from step 3). The authorization request will not have any token/card number provided, which indicates to the PSP that a device will need to be activated to capture the credit card from the guest. The amount to be authorized is populated automatically in the request to PSP as it is retrieved from the authorization rule on the reservation. You can specify an amount that can be sent in the post AuthorizeCreditCardAmount request body that will be used if needed. This section can be added in the "criteria" for it:</p> <pre> "amount": { "amount": "500", "currencyCode": "USD" }, </pre> <p>It is expected that the PSP will activate the device "KIOSKREADER" for an authorization request and</p>	<p>postAuthorizeCreditCardAmount</p> <pre> {{HostName}}/csh/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/paymentMethods/creditCard/ authorize </pre> <p>Simplest Request Body:</p> <pre> { "criteria": { "payment": { "paymentCard": { "cardType": "Va" }, "paymentMethod": "VI", "folioView": "1" }, "terminalId": "KIOSKREADER", "evaluateApprovalAmount": false, "sourceOfAuthorization": "CheckIn", "updateReservation": true } } </pre> <p>201 Response:</p> <pre> { "payment": { "paymentCard": { "cardId": { "id": "1002416", "type": "CreditCard" }, "cardType": "Mc", "cardNumberMasked": "", "expirationDate": "2028-07-01" }, "paymentMethod": "MC", "authorizationApproval": { "approvalAmount": { "amount": 230 }, "approvalCode": "A1241", "originalAuthSequence": 1833670 } } } </pre>

Table 6-2 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>prompt the guest to dip/tap/ swipe their credit card.</p> <p>A successful response from the PSP will include the approval code, the new cardId>id, the cardType, paymentMethod, and the amount authorized.</p> <p>The new card type, expiration date, token, and last 4 digits will be saved to the guest's reservation (overwriting the previous payment method).</p> <p>If the authorization is declined, the message from the PSP (if provided) for the decline reason will be included.</p> <p>Sample 400 Response:</p>	<pre>{ "type": "Bad Request", "title": "Failed to settle amount on credit card (Decline no process)", "detail": "Failed to settle amount on credit card (Decline no process)", "o:errorCode": "FOF00227", "instance": "instance-XXXXXXX", "language": "en" }</pre>

Scenario 3: Settlement on Existing Credit Card Payment Method

Figure 6-3 Sequence Diagram for Scenario 3

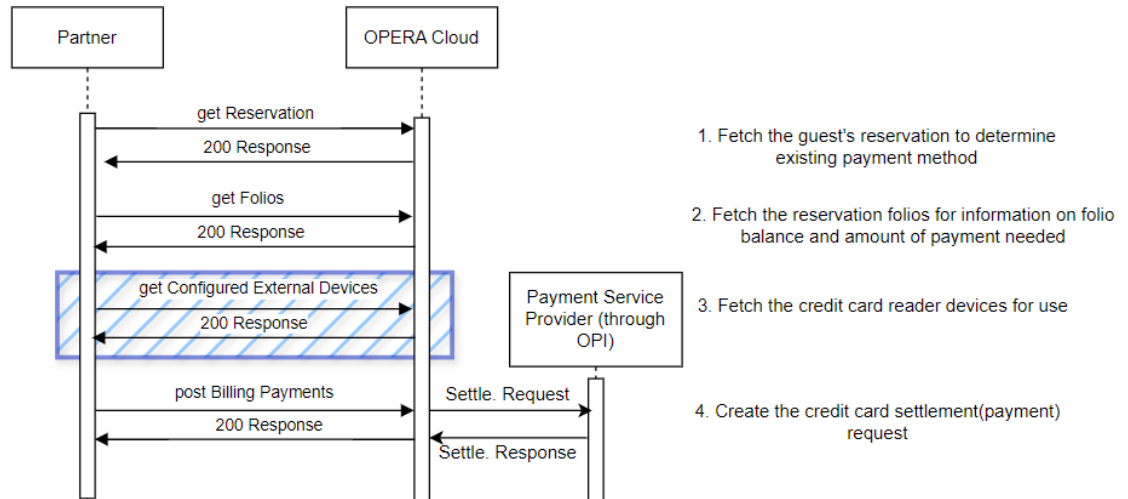


Table 6-3 Description of Steps

Description of Steps	Operation Samples
<p>1 Partner queries the guest reservation to retrieve the reservation payment method and inform the guest that a payment can be made on the credit card during the stay (to reduce the charges existing on the reservation folio) or it is time to checkout (to pay for the reservation charges).</p> <p>The get reservation response includes the payment method on the reservation and the last 4 digits of the credit card. The guest is informed that a credit card settlement is requested on the VISA card's last 4 digits of 1007.</p> <p>If the guest verifies this is the card for the settlement, the cardId id value, the cardType, and the paymentMethod found in the get reservation response is used in the request for settlement (postBillingPayments) to indicate use of an existing credit card payment method.</p>	<p>getReservation</p> <pre> {{HostName}}/rsv/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}? fetchInstructions=Reservation&fetchInstructions=Rese rvationPaymentMethods </pre> <p>200 Response with reservationPaymentMethods>paymentMethod=VA (VISA) and paymentCard>cardId>id:</p> <pre> { "reservations": { "reservation": [{ "reservationIdList": [{ "id": "<ID_NUMBER>", "type": "Reservation" }, { "id": "<ID_NUMBER>", "type": "Confirmation" }], "sourceOfSale": { "sourceType": "PMS", "sourceCode": "HOTEL" }, "roomStay": { "registrationNumber": { "id": "", "type": "Reservation" }, "currentRoomInfo": { "roomType": "STDQ", "roomOwnershipType": </pre> <p>"Regular"</p> <pre> }, "roomRates": [{ "total": { "amountBeforeTax": </pre> <p>200</p> <pre> }, "rates": { "rate": [{ "base": { </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "amountBeforeTax": 200, "baseAmount": 200 }, "shareDistributionInstruction": "Full", "total": { "amountBeforeTax": 0 }, "start": "2024-09-11", "end": "2024-09-11" }], }, "guestCounts": { "childBuckets": { "bucket1Count": 0, "bucket2Count": 0, "bucket3Count": 0, "bucket4Count": 0, "bucket5Count": 0 }, "adults": 2, "children": 0 }, "roomType": "STDQ", "ratePlanCode": "IHUBASE1", "start": "2024-09-11", "end": "2024-09-11", "suppressRate": false, "marketCode": "CORP", "marketCodeDescription": "Group Corporate (SUBH)", "sourceCode": "CAT", "sourceCodeDescription": "Catering", "numberOfUnits": 1, "pseudoRoom": false, "roomTypeCharged": "STDQ", </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"houseUseOnly": false, "complimentary": false, "fixedRate": false, "discountAllowed": true, "bogoDiscount": false, "allowAutoCheckIn": false }</pre>
	<pre>], "arrivalDate": "2024-09-11", "departureDate": "2024-09-12", "expectedTimes": { "reservationExpectedArrivalTime": "2024-09-11", "reservationExpectedDepartureTime": "2024-09-12" }, "guarantee": { "guaranteeCode": "6PM", "shortDescription": "6pm Hold" }, "total": { "amountBeforeTax": 0 }, "totalPoints": { "points": 0 }, "roomNumberLocked": false, "printRate": true }, "reservationGuests": [{ "profileInfo": { "profileIdList": [{ "id": <ID_NUMBER>", "type": "Profile" }], "profile": { "customer": { "personName": [{ "givenName": "<FIRST_NAME>",</pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "surname": "<LAST_NAME>", "nameType": "Primary" }, { "givenName": "<FIRST_NAME>", "surname": "<LAST_NAME>", "nameType": "Alternate" }, { "nameType": "External" },], "gender": "Unknown", "birthDate": "<DATE_OF_BIRTH>", "nationality": "CA", "nationalityDescription": "<NATIONALITY>" }, "addresses": { "addressInfo": [{ "address": { "isValidated": true, "addressLine": ["<ADDRESS>", null, null, null], "postalCode": "<POSTAL_CODE>", "country": { </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"value": "United States of America", "code": "USA", "displayCountryFlag": true }, "language": "ES", "type": "HOMES", "primaryInd": true }, "id": "<ID_NUMBER>", "type": "Address" }] }, "emails": { "emailInfo": [{ "email": { "emailAddress": "username@example.com", "type": "EMAIL", "primaryInd": true }, "id": "<ID_NUMBER>", "type": "Email" }, { "email": { "emailAddress": "username@example.com", "type": "EMAIL", "primaryInd": false }, "id": "<ID_NUMBER>",</pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "Email" "type": }], }, "profileType": "Guest" } }, "arrivalTransport": { "transportationReqd": false }, "departureTransport": { "transportationReqd": false }, "primary": true }], "reservationPaymentMethods": [{ "paymentCard": { "cardId": { "id": "874911", "type": "CreditCard" }, "cardType": "Va", "cardNumberMasked": "XXXXXXXXXXXXXXXXXX", "expirationDateMasked": "XX/XX", "expirationDateExpired": false, "cardHolderName": "<FULL_NAME>", "processing": "Eft", "swiped": false, "cardPresent": false, "cardOrToken": "Token" }, "emailFolioInfo": { "email": { "emailAddress": "username@example.com" }, "emailFolio": false, "id": "<ID_NUMBER>", "type": "Email" } }] </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "paymentMethod": "VA", "description": "<CREDITCARD_TYPE>", "folioView": 1 }], "cashiering": { "billingPrivileges": { "postingRestriction": false, "preStayCharging": true, "postStayCharging": false, "videoCheckout": true, "creditLimitAutoPay": true }, "reverseCheckInAllowed": false, "reverseAdvanceCheckInAllowed": false, "transactionsPosted": false }, "extSystemSync": true, "hotelId": "{HotelId}", "roomStayReservation": true, "reservationStatus": "Reserved", "computedReservationStatus": "Reserved", "walkIn": false, "printRate": true, "createDateTime": "2024-02-28 22:23:18.0", "creatorId": "FIRST_TEST@TEST_ENT1", "lastModifyDateTime": "2024-02-28 22:23:18.0", "lastModifierId": "FIRST_TEST@TEST_ENT1", "createBusinessDate": "2024-02-29", "preRegistered": false, "upgradeEligible": false, "allowAutoCheckin": false, "hasOpenFolio": false, "allowMobileCheckout": true, "allowMobileViewFolio": false, "allowPreRegistration": false, "optedForCommunication": false, "chargeCardNumber": "XXXXXXXXX", "backToBack": false, "payeeSharer": false }] </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "masterInfoList": [{ "codeInfo": [{ "description": "United States of America", "code": "USA" }], "codeType": "Country" }, { "codeType": "State" }, { "codeInfo": [{ "description": "Home Address", "code": "HOMES" }], "codeType": "AddressType" }], "links": [...] }</pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>2 The Partner can use the get Folios call to fetch the amounts that are outstanding on the reservation and inform the guest of their reservation charges and the amount that will be posted to their credit card.</p> <p>A reservation can have multiple folios open with charges on each. The payment method can also be specific to the folio window. The get Folios response will provide this data.</p> <p>The roomStay balance amount is the full amount balance on the reservation. The reservationsFolioWindows section provides the balance amount for the individual folio window number and the payment method set for that folio. Each folio window with a balance amount will need to be settled individually.</p>	<p>getFolios</p> <pre> {{HostName}}/csh/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/folios? guestPayOnly=true&includeFolioHistory=false&groupType= CheckNo&fetchInstructions=Windowbalances&fetchInst ructions=Reservation&fetchInstructions=Payment&fetch Instructions=Payee&simpleFolio=false&limit=100200 </pre> <p>Response:</p> <pre> { "reservationFolioInformation": { "reservationInfo": { "reservationIdList": [{ "id": "<ID_NUMBER>", "type": "Reservation" }, { "id": "<ID_NUMBER>", "type": "Confirmation" }], "roomStay": { "arrivalDate": "2017-08-27", "departureDate": "2017-08-30", "originalTimeSpan": { "startDate": "2017-08-27", "endDate": "2017-08-30" }, "bookingTimeSpan": {}, "expectedTimes": { "reservationExpectedArrivalTime": "2024-07-19 16:36:39.0", "reservationExpectedDepartureTime": "2017-08-30" }, "adultCount": 1, "childCount": 0, "roomClass": "ALL", "roomType": "ASTQ", "numberOfRooms": 1, "roomId": "501", "roomOwnershipType": "Regular", "ratePlanCode": "ANI", "rateAmount": { "amount": 300, "currencyCode": "USD" } } } } } </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "rateSuppressed": false, "fixedRate": false, "guarantee": { "guaranteeCode": "CHECKED IN", "shortDescription": "Checked In" }, "marketCode": "ADH", "marketDescription": "AD HOC GROUPS", "sourceCode": "VOI", "sourceCodeDescription": "Call Center", "balance": { "amount": 355.86, "currencyCode": "USD" }, "compBalance": { "amount": 0, "currencyCode": "USD" }, "roomTypeCharged": "ASTQ", "roomNumberLocked": false, "pseudoRoom": false, "backToBackSequence": {}, "backToBack": false }, "reservationGuest": { "givenName": "<FIRST_NAME>", "surname": "<LAST_NAME>", "vip": {}, "address": { "country": {} }, "anonymization": {}, "accompanyGuests": [], "externalInfo": {}, "guestRestricted": false, "nameType": "Guest", "id": "<ID_NUMBER>", "type": "Profile" }, "sharedGuests": [], "attachedProfiles": [], "reservationPaymentMethod": { "paymentCard": { "cardType": "Va" }, "paymentMethod": "VA" </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "reservationFolioWindows": [{ "payeeInfo": { "payeeName": "<FULL_NAME>" }, "balance": { "amount": 345.86 }, "paymentMethod": "VA", "folioWindowNo": 1 }, { "payeeInfo": { "payeeName": "<FULL_NAME>" }, "balance": { "amount": 10 }, "paymentMethod": "CA", "folioWindowNo": 2 }], "reservationIndicators": [{ "indicatorName": "CALLHISTORY", "count": 1 }, { "indicatorName": "HISTORYFUTURE", "count": 1 }, { "indicatorName": "ASSOCIATEDPROFILES", "count": 1 }, { "indicatorName": "DAILYDETAILS", "count": 0 }], "roomStatus": "Clean", "sourceOfSale": { "sourceType": "PMS", "sourceCode": "WEB" }, "waitlist": {}, </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "taxType": { "collectingAgentTax": false, "printAutoAdjust": false }, "guestPreferredCurrency": "USD", "reservationCommunication": { "telephones": {}, "emails": {} }, "advanceCheckIn": { "advanceCheckedIn": false }, "hotelId": "HotelId", "hotelName": "Executive Cloud Hotel", "roomStayReservation": true, "createDateTime": "2024-07-18 20:45:40.0", "lastModifyDateTime": "2024-07-19 17:06:41.0", "reservationStatus": "InHouse", "computedReservationStatus": "InHouse", "walkInIndicator": false, "commissionPayoutTo": "None", "paymentMethod": "VA", "preRegistered": false, "openFolio": false, "allowMobileCheckout": false, "optedForCommunication": false }, "folioWindows": [{ "revenue": { "amount": 345.86, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 345.86, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" } }, </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
<pre> XXXXXXXXXXXXXXXXXXXXX", XX", false, </pre>	<pre> "paymentMethod": { "paymentCard": { "cardId": { "id": "874911", "type": "CreditCard" }, "cardType": "Va", "cardNumberMasked": "XXXXXXXXXXXXXXXXXXXXX", "expirationDateMasked": "XX/ XX", "expirationDateExpired": false, "processing": "Manual", "swiped": true, "cardPresent": false, "cardOrToken": "Token" }, "authorizationRule": { "code": 2, "amount": { "amount": 25, "currencyCode": "USD" } }, "paymentMethod": "VA", "description": "<CREDITCARD_TYPE>", "folioView": 1 }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 1, "internalFolioWindowID": "2482498", "emptyFolio": false, "emptyWindow": false, "simpleFolio": false, "paymentsOnly": false </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, { "revenue": { "amount": 10, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 10, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "paymentMethod": { "paymentMethod": "CA", "folioView": 2 }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 2, "internalFolioWindowID": "2481826", "emptyFolio": false, "emptyWindow": false, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, },</pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 3, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 4, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "country": {} } }, "compAccountingInfo": {}, "folioWindowNo": 5, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 6, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 7, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 8, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 101, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } } }, "compAccountingInfo": {}, "folioWindowNo": 102, </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 103, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 104, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 105, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } } } </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> } }, "compAccountingInfo": {}, "folioWindowNo": 106, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } } }, "compAccountingInfo": {}, "folioWindowNo": 107, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, {</pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 108, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false },], "postStayChargeAllowed": false, "preStayChargeAllowed": false, "autoCheckInAllowed": false, "postToNoShowCancelAllowed": false, "roomAndTaxPosted": false }, "links": [] } </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>3 The configured credit card reader devices must be known to send with the authorization and settlement requests. A kiosk system might have the credit card reader device attached. Others will need to fetch the hotels configured external devices to get the id of a configured device to populate the terminalId element in the authorization and settlement APIs. The label is expected to be descriptive to indicate where that reader exists. The deviceArea can also be used to identify an area where more than one reader device can belong.</p> <p>This configuration does not change often, and it is recommended to cache the result and refresh only if issues occur around the credit card reader devices.</p>	<pre> getConfiguredExternalDevices {{HostName}}/int/config/v1/ configuredExternalDevices? deviceType=CreditCard&active=true&hotelId={{HotelId}} &deviceCode=ChipAndPin 200 Response: { "configuredExternalDevices": { "deviceType": "CreditCard", "supportedExternalDevices": [{ "hotelId": "{{HotelId}}", "supportedDevices": [{ "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "1CCREADER1", "label": "Lobby East", "translatableLabel": { "defaultText": "Lobby East", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "2CCREADER2", "label": "Lobby West", "translatableLabel": { "defaultText": "Lobby West", "translatedTexts": [] }, "iDEditable": true }] }] } } </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "BACKOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "3CCREADER3", "label": "Back Office Accounting", "translatableLabel": { "defaultText": "Back Office Accounting", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "KIOSKREADER", "label": "Kiosk 1 Reader", "translatableLabel": { "defaultText": "Kiosk 1 Reader", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "5CCREADER5", "label": "FD Center", </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"translatableLabel": { "defaultText": "FD Center", "translatedTexts": [] }, "iEditable": true }] }], "links": [] }</pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>4 When guests have verified the amount to charge and indicated they would like to use the credit card that is on their reservation, the postBillingPayments call can be made to process the credit card settlement request.</p> <p>The request body of the post Billing Payments requires the cardId, id, cardType, and paymentMethod retrieved from the get reservation or get folios response.</p> <p>Also, the terminalId and the postingAmount>amount is needed.</p> <p>This request will send a settlement request to the PSP through OPI for the credit card that is on the reservation and for the amount asked.</p> <p>If there was existing authorization up to the amount asked for on the reservation's credit card, a settlement request is processed with that existing approval code.</p> <p>If there was not an authorization or not enough authorization for the asked for amount, an automatic authorization (or top-up) will be processed first and then the settlement request will be processed.</p> <p>A successful response from the PSP is returned with the amount, payment type, and transaction information. The payment is saved to the guest's reservation folio and the folio balance will be reduced by that amount.</p> <p>If the settlement is declined, the message from the PSP (if provided) for the decline reason will be included in the response.</p>	<p>postBillingPayments</p> <pre> {{HostName}}/csh/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/payments </pre> <p>Request Body:</p> <pre> { "criteria": { "paymentMethod": { "paymentCard": { "cardId": { "type": "CreditCard", "id": "874911" }, "cardType": "Va" }, "paymentMethod": "VA", "folioView": "1" }, "postingAmount": { "amount": "345.86", "currencyCode": "USD" }, "terminalId": "KIOSKREADER", "applyCCSurcharge": false, "overrideInsufficientCC": false, "overrideARCCreditLimit": false, "vATOffset": false, "action": "Billing", "cashierId": "{{CashierId}}", "folioWindowNo": "1", "postingReference": "cardid test" } } </pre> <p>201 Response:</p> <pre> { "postings": [{ "reference": "cardid test", "postedAmount": { "amount": 345.86, "currencyCode": "USD" }, "price": { "amount": 345.86, "currencyCode": "USD" } }] } </pre>

Table 6-3 (Cont.) Description of Steps

Description of Steps	Operation Samples
Sample 400 Response:	<pre> }, "quantity": 1, "transactionType": "Payment", "creditAmount": { "amount": 345.86, "currencyCode": "USD" }, "cashierInfo": { "cashierId": 140, "cashierName": "Test Cashier" }, "paidOut": false, "exchange": { "creditAmount": { "amount": 345.86, "currencyCode": "USD" } }, "stampDuty": false, "customCharge": false, "transactionNo": 1011526563, "transactionDate": "2017-08-27", "transactionCode": "XXXXXX", "transactionAmount": 345.86, "postingDate": "2017-08-27", "postingTime": { "time": "2024-07-19 22:32:59.0", "timezone": "UTC" }, "revenueDate": "2017-08-27", "receiptNo": 8, "roundingDifferenceTrx": false, "folioWindowNo": 1, "deferredTax": false }, "trxCodesInfo": [{ "description": "<CREDITCARD_TYPE>", "transactionGroup": "PAY", "transactionSubGroup": "CCARD", "trxServiceType": "S", "transactionCode": "XXXXXX", "hotelId": "HotelId", "printTrxReceipt": false }] } </pre>

Scenario 4: Guest has New Card for Settlement

Figure 6-4 Sequence Diagram for Scenario 4

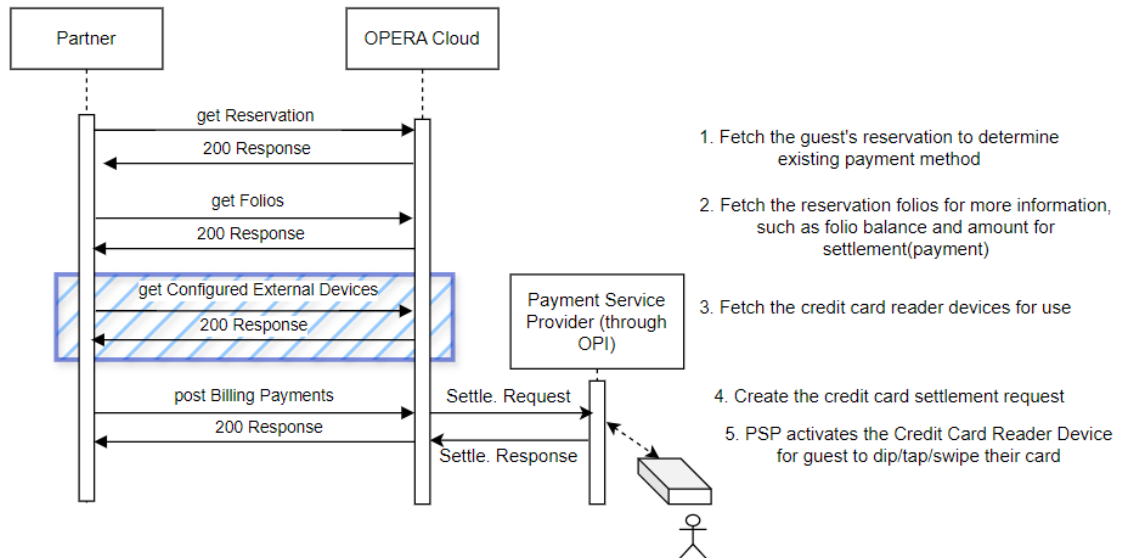


Table 6-4 Description of Steps

Description of Steps	Operation Samples
<p>1 Partner queries the guest reservation to retrieve the reservation payment method and inform the guest that a payment can be made on the credit card during the stay (to reduce the charges existing on the reservation folio) or it is time to checkout (to pay for the reservation charges).</p> <p>The get reservation response includes the payment method on the reservation and the last 4 digits of the credit card. The guest is informed that a credit card settlement is requested on the VISA card's last 4 digits of 1007.</p> <p>The guests indicate they would like to use a different credit card for the settlement of the reservation charges and are present at the property.</p>	<p>getReservation</p> <pre> {{HostName}}/rsv/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}? fetchInstructions=Reservation&fetchInstructions=Rese rvationPaymentMethods </pre> <p>200 Response with reservationPaymentMethods>paymentMethod=VA (VISA) and paymentCard>cardId>id:</p> <pre> { "reservations": { "reservation": [{ "reservationIdList": [{ "id": "<ID_NUMBER>", "type": "Reservation" }, { "id": "<ID_NUMBER>", "type": "Confirmation" }] }, { "sourceOfSale": { "sourceType": "PMS", "sourceCode": "HOTEL" }, "roomStay": { "registrationNumber": { "id": "", "type": "Reservation" }, "currentRoomInfo": { "roomType": "STDQ", "roomOwnershipType": </pre> <p>"Regular"</p> <pre> }, "roomRates": [{ "total": { "amountBeforeTax": </pre> <p>200</p> <pre> }, "rates": { "rate": [{ "base": { </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "amountBeforeTax": 200, "baseAmount": 200 }, "shareDistributionInstruction": "Full", "total": { "amountBeforeTax": 0 }, "start": "2024-09-11", "end": "2024-09-11" } } }, "guestCounts": { "childBuckets": { "bucket1Count": 0, "bucket2Count": 0, "bucket3Count": 0, "bucket4Count": 0, "bucket5Count": 0 }, "adults": 2, "children": 0 }, "roomType": "STDQ", "ratePlanCode": "IHUBASE1", "start": "2024-09-11", "end": "2024-09-11", "suppressRate": false, "marketCode": "CORP", "marketCodeDescription": "Group Corporate (SUBH)", "sourceCode": "CAT", "sourceCodeDescription": "Catering", "numberOfUnits": 1, "pseudoRoom": false, "roomTypeCharged": "STDQ", </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"houseUseOnly": false, "complimentary": false, "fixedRate": false, "discountAllowed": true, "bogoDiscount": false, "allowAutoCheckIn": false }</pre>
	<pre>], "arrivalDate": "2024-09-11", "departureDate": "2024-09-12", "expectedTimes": { "reservationExpectedArrivalTime": "2024-09-11", "reservationExpectedDepartureTime": "2024-09-12" }, "guarantee": { "guaranteeCode": "6PM", "shortDescription": "6pm Hold" }, "total": { "amountBeforeTax": 0 }, "totalPoints": { "points": 0 }, "roomNumberLocked": false, "printRate": true }, "reservationGuests": [{ "profileInfo": { "profileIdList": [{ "id": <ID_NUMBER>, "type": "Profile" }], "profile": { "customer": { "personName": [{ "givenName": "FirstName",</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"surname": "LastName", "nameType": "Primary" }, { "givenName": "<FIRST_NAME>", "surname": "<LAST_NAME>", "nameType": "Alternate" }, { "nameType": "External" }], "gender": "Unknown", "birthDate": "<DATE_OF_BIRTH>", "nationality": "CA", "nationalityDescription": "<NATIONALITY>" }, "addresses": { "addressInfo": [{ "address": { "isValidated": true, "addressLine": ["<ADDRESS>", null, null, null], "postalCode": "XXXXX", "country": {</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"value": "United States of America", "code": "USA", "displayCountryFlag": true }, "language": "ES", "type": "HOMES", "primaryInd": true }, "id": "<ID_NUMBER>", "type": "Address" }] }, "emails": { "emailInfo": [{ "email": { "emailAddress": "username@example.com", "type": "EMAIL", "primaryInd": true }, "id": "<ID_NUMBER>", "type": "Email" }, { "email": { "emailAddress": "username@example.com" }, "type": "EMAIL", "primaryInd": false }, "id":</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "<ID_NUMBER>", "type": "Email" }] }, "profileType": "Guest" } }, "arrivalTransport": { "transportationReqd": false }, "departureTransport": { "transportationReqd": false }, "primary": true } }, "reservationPaymentMethods": [{ "paymentCard": { "cardId": { "id": "874911", "type": "CreditCard" }, "cardType": "Va", "cardNumberMasked": "XXXXXXXXXXXXXXXXXXXX", "expirationDateMasked": "XX/XX", "expirationDateExpired": false, "cardHolderName": "<FULL_NAME>", "processing": "Eft", "swiped": false, "cardPresent": false, "cardOrToken": "Token" }, "emailFolioInfo": { "email": { "emailAddress": "username@example.com" }, "emailFolio": false, "id": "<ID_NUMBER>", </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> " type": "Email" }, " paymentMethod": "VA", " description": "<CREDITCARD_TYPE>", " folioView": 1 }], " cashiering": { " billingPrivileges": { " postingRestriction": false, " preStayCharging": true, " postStayCharging": false, " videoCheckout": true, " creditLimitAutoPay": true }, " reverseCheckInAllowed": false, " reverseAdvanceCheckInAllowed": false, " transactionsPosted": false }, " extSystemSync": true, " hotelId": "{HotelId}", " roomStayReservation": true, " reservationStatus": "Reserved", " computedReservationStatus": "Reserved", " walkIn": false, " printRate": true, " createDateTime": "2024-02-28 22:23:18.0", " creatorId": "FIRST_TEST@TEST_ENT1", " lastModifyDateTime": "2024-02-28 22:23:18.0", " lastModifierId": "FIRST_TEST@TEST_ENT1", " createBusinessDate": "2024-02-29", " preRegistered": false, " upgradeEligible": false, " allowAutoCheckin": false, " hasOpenFolio": false, " allowMobileCheckout": true, " allowMobileViewFolio": false, " allowPreRegistration": false, " optedForCommunication": false, " chargeCardNumber": "XXXXXXXXX", " backToBack": false, " payeeSharer": false } </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>], }, "masterInfoList": [{ "codeInfo": [{ "description": "United States of America", "code": "USA" }], "codeType": "Country" }, { "codeType": "State" }, { "codeInfo": [{ "description": "Home Address", "code": "HOMES" }], "codeType": "AddressType" }], "links": [...] }</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>2 The Partner can use the get Folios call to fetch the amounts that are outstanding on the reservation and inform the guests of their reservation charges and the amount that will be posted to their credit card.</p> <p>A reservation can have multiple folios open with charges on each. The payment method can also be specific to the folio window. The get Folios response provides this data. The roomStay balance amount is the full amount balance on the reservation. The reservationsFolioWindows section provides the balance amount for the individual folio window number and the payment method set for that folio. Each folio window with a balance amount must be settled individually. The guests indicate they would like to use a different credit card for the settlement of the reservation charges and are present at the property.</p>	<p>getFolios</p> <pre> {{HostName}}/csh/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/folios? guestPayOnly=true&includeFolioHistory=false&groupType= CheckNo&fetchInstructions=Windowbalances&fetchInst ructions=Reservation&fetchInstructions=Payment&fetch Instructions=Payee&simpleFolio=false&limit=100 </pre> <p>200 Response:</p> <pre> { "reservationFolioInformation": { "reservationInfo": { "reservationIdList": [{ "id": "<ID_NUMBER>", "type": "Reservation" }, { "id": "<ID_NUMBER>", "type": "Confirmation" }], "roomStay": { "arrivalDate": "2017-08-27", "departureDate": "2017-08-30", "originalTimeSpan": { "startDate": "2017-08-27", "endDate": "2017-08-30" }, "bookingTimeSpan": {}, "expectedTimes": { "reservationExpectedArrivalTime": "2024-07-19 16:36:39.0", "reservationExpectedDepartureTime": "2017-08-30" }, "adultCount": 1, "childCount": 0, "roomClass": "ALL", "roomType": "ASTQ", "numberOfRooms": 1, "roomId": "501", "roomOwnershipType": "Regular", "ratePlanCode": "ANI", "rateAmount": { "amount": 300, "currencyCode": "USD" } } } } } </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "rateSuppressed": false, "fixedRate": false, "guarantee": { "guaranteeCode": "CHECKED IN", "shortDescription": "Checked In" }, "marketCode": "ADH", "marketDescription": "AD HOC GROUPS", "sourceCode": "VOI", "sourceCodeDescription": "Call Center", "balance": { "amount": 355.86, "currencyCode": "USD" }, "compBalance": { "amount": 0, "currencyCode": "USD" }, "roomTypeCharged": "ASTQ", "roomNumberLocked": false, "pseudoRoom": false, "backToBackSequence": {}, "backToBack": false }, "reservationGuest": { "givenName": " <FIRST_NAME>", "surname": "<LAST_NAME>", "vip": {}, "address": { "country": {} }, "anonymization": {}, "accompanyGuests": [], "externalInfo": {}, "guestRestricted": false, "nameType": "Guest", "id": "<ID_NUMBER>", "type": "Profile" }, "sharedGuests": [], "attachedProfiles": [], "reservationPaymentMethod": { "paymentCard": { "cardType": "Va" }, "paymentMethod": "VA" </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, "reservationFolioWindows": [{ "payeeInfo": { "payeeName": "<FULL_NAME>" }, "balance": { "amount": 345.86 }, "paymentMethod": "VA", "folioWindowNo": 1 }, { "payeeInfo": { "payeeName": "<FULL_NAME>" }, "balance": { "amount": 10 }, "paymentMethod": "CA", "folioWindowNo": 2 }], "reservationIndicators": [{ "indicatorName": "CALLHISTORY", "count": 1 }, { "indicatorName": "HISTORYFUTURE", "count": 1 }, { "indicatorName": "ASSOCIATEDPROFILES", "count": 1 }, { "indicatorName": "DAILYDETAILS", "count": 0 }], "roomStatus": "Clean", "sourceOfSale": { "sourceType": "PMS", "sourceCode": "WEB" }, "waitlist": {},</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "taxType": { "collectingAgentTax": false, "printAutoAdjust": false }, "guestPreferredCurrency": "USD", "reservationCommunication": { "telephones": {}, "emails": {} }, "advanceCheckIn": { "advanceCheckedIn": false }, "hotelId": "HotelId", "hotelName": "Executive Cloud Hotel", "roomStayReservation": true, "createDateTime": "2024-07-18 20:45:40.0", "lastModifyDateTime": "2024-07-19 17:06:41.0", "reservationStatus": "InHouse", "computedReservationStatus": "InHouse", "walkInIndicator": false, "commissionPayoutTo": "None", "paymentMethod": "VA", "preRegistered": false, "openFolio": false, "allowMobileCheckout": false, "optedForCommunication": false }, "folioWindows": [{ "revenue": { "amount": 345.86, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 345.86, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" } }, </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "paymentMethod": { "paymentCard": { "cardId": { "id": "<ID_NUMBER>", "type": "CreditCard" }, "cardType": "Va", "cardNumberMasked": "XXXXXXXXXXXXXXXXXXXX", "expirationDateMasked": "XX/ XX", "expirationDateExpired": false, "processing": "Manual", "swiped": true, "cardPresent": false, "cardOrToken": "Token" }, "authorizationRule": { "code": 2, "amount": { "amount": 25, "currencyCode": "USD" } }, "paymentMethod": "VA", "description": "<CREDITCARD_TYPE>", "folioView": 1 }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 1, "internalFolioWindowID": "111111", "emptyFolio": false, "emptyWindow": false, "simpleFolio": false, "paymentsOnly": false </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> }, { "revenue": { "amount": 10, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 10, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "paymentMethod": { "paymentMethod": "CA", "folioView": 2 }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 2, "internalFolioWindowID": "1111111", "emptyFolio": false, "emptyWindow": false, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, },</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 3, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 4, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "country": {} } }, "compAccountingInfo": {}, "folioWindowNo": 5, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 6, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 7, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 8, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": true }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 101, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } } }, "compAccountingInfo": {}, "folioWindowNo": 102, </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 103, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 104, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } }, "compAccountingInfo": {}, "folioWindowNo": 105, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitPayment": { "currencyCode": "USD" }, "debitBalance": { "currencyCode": "USD" }, "payeeInfo": { "payeeId": { "id": "<ID_NUMBER>", "type": "Profile" }, "payeeName": "<FULL_NAME>", "payeeAddress": { "address": { "country": {} } } } } </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> } }, "compAccountingInfo": {}, "folioWindowNo": 106, "emptyFolio": true, "emptyWindow": true, "simpleFolio": false, "paymentsOnly": false }, { "revenue": { "amount": 0, "currencyCode": "USD" }, "payment": { "amount": 0, "currencyCode": "USD" }, "balance": { "amount": 0, "currencyCode": "USD" }, "debitP</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>3 The configured credit card reader devices must be known to send with the authorization and settlement requests. A kiosk system might have the credit card reader device attached. Others will need to fetch the hotels configured external devices to get the id of a configured device to populate the terminalId element in the authorization and settlement APIs. The label is expected to be descriptive to indicate where that reader exists. The deviceArea can also be used to identify an area where more than one reader device can belong.</p> <p>This configuration does not change often, and it is recommended to cache the result and refresh only if issues occur around the credit card reader devices.</p>	<pre> getConfiguredExternalDevices {{HostName}}/int/config/v1/ configuredExternalDevices? deviceType=CreditCard&active=true&hotelId={{HotelId}} &deviceCode=ChipAndPin 200 Response: { "configuredExternalDevices": { "deviceType": "CreditCard", "supportedExternalDevices": [{ "hotelId": "{{HotelId}}", "supportedDevices": [{ "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "1CCREADER1", "label": "Lobby East", "translatableLabel": { "defaultText": "Lobby East", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "2CCREADER2", "label": "Lobby West", "translatableLabel": { "defaultText": "Lobby West", "translatedTexts": [] }, "iDEditable": true }] }] } } </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre> "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "BACKOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "3CCREADER3", "label": "Back Office Accounting", "translatableLabel": { "defaultText": "Back Office Accounting", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "deviceArea": "FRONTOFFICE", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "KIOSKREADER", "label": "Kiosk 1 Reader", "translatableLabel": { "defaultText": "Kiosk 1 Reader", "translatedTexts": [] }, "iDEditable": true }, { "deviceType": "CreditCard", "deviceCode": "ChipAndPin", "displayName": "Chip and Pin Terminal/Device", "mobileYN": false, "desktopYN": false, "active": true, "id": "5CCREADER5", "label": "FD Center", </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
	<pre>"translatableLabel": { "defaultText": "FD Center", "translatedTexts": [] }, "iDEditable": true }] }], "links": [] }</pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>4 When guests have verified the amount to charge and indicated they would like to use a different credit card for the payment and are present at the credit card reader device (Kiosk terminal), the postBillingPayments call can be made to process the credit card settlement request.</p> <p>With the terminalId for use and the guest prepared to dip/tap/swipe their credit card, the Partner can initiate the request that will go out to the Payment Service Provider through OPI. The post BillingPayments API will trigger the credit card settlement request to be sent out to the PSP for processing.</p> <p>The request body of the post Billing Payments requires a cardType, and paymentMethod (CP can be used generically), the terminalId the PSP will activate for the guest to dip/swipe their card (can be retrieved from step 3), and the amount to be applied to the credit card.</p> <p>If there was existing authorization up to the amount asked for on the reservation's credit card, a settlement request is processed with that existing approval code.</p> <p>If there was not an authorization or not enough authorization for the asked for amount, an automatic authorization (or top-up) will be processed first and then the settlement request will be processed.</p> <p>The request will not have any token/card number provided, which indicates to the PSP that a device will</p>	<p>postBillingPayments</p> <pre> {{HostName}}/csh/v1/hotels/{{HotelId}}/reservations/ {{ReservationId}}/payments </pre> <p>Request Body:</p> <pre> { "criteria": { "paymentMethod": { "paymentCard": { "cardType": "MC" }, "paymentMethod": "MC", "folioView": "1" }, "postingAmount": { "amount": "345.86", "currencyCode": "USD" }, "terminalId": "KIOSKREADER", "applyCCSurcharge": false, "overrideInsufficientCC": false, "overrideARCCreditLimit": false, "vATOffset": false, "action": "Billing", "cashierId": "{{CashierId}}", "folioWindowNo": "1", "postingReference": "cardid test" } } </pre> <p>201 Response:</p> <pre> { "postings": [{ "reference": "cardid test", "postedAmount": { "amount": 345.86, "currencyCode": "USD" }, "price": { "amount": 345.86, "currencyCode": "USD" }, "quantity": 1, "transactionType": "Payment", "creditAmount": { </pre>

Table 6-4 (Cont.) Description of Steps

Description of Steps	Operation Samples
<p>need to be activated to capture the credit card from the guest.</p> <p>It is expected that the PSP will activate the device "KIOSKREADER" for an authorization/settlement request and prompt the guest to dip/tap/swipe their credit card.</p> <p>A successful response from the PSP is returned with the amount, payment type, and transaction information. The payment is saved to the guest's reservation folio and the folio balance will be reduced by that amount.</p> <p>The new credit card used for the settlement will not overwrite the existing payment method on the reservation.</p> <p>If the settlement is declined, the message from the PSP (if provided) for the decline reason will be included in the response.</p> <p>Sample 400 Response:</p> <pre>{ "type": "Bad Request", "title": "Failed to settle amount on credit card (Decline no process)", "detail": "Failed to settle amount on credit card (Decline no process)", "o:errorCode": "FOF00227", "instance": "instance-XXXXXXX", "language": "en" }</pre>	<pre>"amount": 345.86, "currencyCode": "USD" }, "cashierInfo": { "cashierId": 140, "cashierName": "Test Cashier" }, "paidOut": false, "exchange": { "creditAmount": { "amount": 345.86, "currencyCode": "USD" } }, "stampDuty": false, "customCharge": false, "transactionNo": 1111111111, "transactionDate": "2017-08-27", "transactionCode": "XXXXX", "transactionAmount": 345.86, "postingDate": "2017-08-27", "postingTime": { "time": "2024-07-19 22:32:59.0", "timezone": "UTC" }, "revenueDate": "2017-08-27", "receiptNo": 8, "roundingDifferenceTrx": false, "folioWindowNo": 1, "deferredTax": false }, "trxCodesInfo": [{ "description": "Mastercard", "transactionGroup": "PAY", "transactionSubGroup": "CCARD", "trxServiceType": "S", "transactionCode": "XXXXX", "hotelId": "HotelId", "printTrxReceipt": false }]</pre>

7

Limitations and Constraints

- If your integration is with a property using OPI, you cannot send the clear credit card number as a payment method with the Property APIs. Oracle does not provide an automatic token exchange service. If credit card numbers are received, OPERA Cloud removes/ignores them.
- If the guest is providing you with a credit card number, you must exchange it for a token from the same PSP in use at the property. For additional information, review the Implementation Guide for *Reservations Credit Card Payment Methods*, specifically Step 4.
- The Property API responses do not provide the full credit card number.

8

Anti-patterns

Anti-Pattern	Category	Rationale	Recommendation
Populating the guest's credit card number as the payment method in the API requests when OPI is active at property.	Functional	Poor customer experience and operational impact.	The credit card data will be removed and the transactions for the authorizations and settlements will fail for the reservation.
Initiating a credit card authorization or settlement request for guests to dip/swipe their card in a device before they are prepared (card present type transactions).	Functional	Poor customer experience and operational impact.	May receive a 504 Gateway Timeout error if the time exceeds 60 seconds from when the request is made to when the guest completes interaction with the device and the PSP response.

9

References

Find additional documentation on Oracle Payment Interface and Oracle Payment Interface Cloud on the [Integration Platforms](#) documentation page.

For more information on the use of OPI, see the Implementation Guide for *Reservations Credit Card Payment Methods*.

Key Terminology

Term	Description
Tokenized	The storage of tokens in place of credit card numbers. Accomplished with the Token Exchange process.
Token Exchange	The process of exchanging a credit card number for a token. This process works by replacing a cardholder's Primary Account Number (PAN)/Credit Card with a one-time unique identifier.
Oracle Payment Interface (OPI)	Provides OPERA Cloud users with an interface for industry-standard payment acceptance and opens the door to an ecosystem of Payment Service Providers (PSP). Through the set of services offered by OPI, OPERA Cloud can communicate with PSPs for card processing and token exchange transactions. OPI Cloud service also exposes a Token Exchange API through Oracle Hospitality Integration Platform so that partner applications can use the API to exchange the card number with a token for a hotel property that also uses the OPI Cloud Service for card transactions.
Payment Service Providers (PSP)	PSPs process the card data and provide a token through OPI. This token represents the card data, and it can be used for financial transactions for the property. PSPs must be certified with Oracle for OPI functionality.
Card Present Transaction	When the credit card is dipped/swiped/tapped on a device that reads the chip or magstripe, this indicates the physical credit card was presented.

Why am I receiving a 502 Gateway Timeout error in many instances where guest is interacting with the credit card reader device?

If the process takes longer than 60 seconds, the API call will be timed out. Ensure the guest is ready to present their credit card before initiating any call that is meant to activate a reader device.

Is there a way to handle it if I receive a 502 Gateway Timeout error?

You can call the following endpoint for up to 2 minutes and verify if the response has the authorizations or settlements (payments):

```
.../csh/v1/hotels/{HotelId}/reservations/{reservationId}/authorizationHistory?  
includeRefunds=false&includeFailures=false&includePayments=true&type=Reservation&includeAuthorizations=true
```

What if I have a credit card number the guest wants to use for an authorization or settlement, can I send that in the API requests?

No. When OPI is active with the property, no credit card numbers will be accepted in the Property APIs. See the section on Limitations and Constraints point 2 for information that can help in this scenario.

Can I submit authorization and settlement requests when OPI is not active at a property?

Yes, if it is just for informational purposes only. Review this implementation guide for other use cases.