

Source: CT5 (OSA)  
Title: 2 Rel-6 CR 29.199-06  
Agenda item: 9.7 (OSA Enhancements [\[OSA3\]](#))  
Document for: APPROVAL

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Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
CP-050160	29.199-06	0001	-	Rel-6	Add additional parameters for volume charging	C	6.0.0	C5-050244	OSA3
CP-050160	29.199-06	0002	-	Rel-6	Wrong datatype used in Amount Interface	F	6.0.0	C5-050303	OSA3

## CHANGE REQUEST

⌘ **29.199-06 CR 0001** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

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**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add additional parameters for volume charging		
<b>Source:</b>	⌘ CT5 Richard Dawson (CSG Systems - Paraly Member)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 26/04/2005
<b>Category:</b>	⌘ <b>C</b>	<b>Release:</b>	⌘ Rel-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <i>Ph2</i> (GSM Phase 2) <i>R96</i> (Release 1996) <i>R97</i> (Release 1997) <i>R98</i> (Release 1998) <i>R99</i> (Release 1999) <i>Rel-4</i> (Release 4) <i>Rel-5</i> (Release 5) <i>Rel-6</i> (Release 6) <i>Rel-7</i> (Release 7)

<b>Reason for change:</b>	⌘ Current volume charging parameters are not sufficient to describe the type of volume being reserved such that a real time rating and charging application is able to correctly rate and reserve a volume.
<b>Summary of change:</b>	⌘ Addition of parameters to ReserveVolume, ReserveAdditionalVolume, ChargeVolumeRequest, and RefundVolume operations
<b>Consequences if not approved:</b>	⌘ Parlay X reserve and charge volume interface will have very limited use

<b>Clauses affected:</b>	⌘ 8.2.1.1, 8.2.3.1, 8.4.2.1, 8.4.3.1						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘ Changes to the WSDL representation of this interface specification is compliant to 3GPP TS 29.199-1 and is contained in text files contained in archive which accompanies this CR : <ul style="list-style-type: none"> <li>parlayx_payment_reserve_volume_charging_interface_2_0</li> <li>parlayx_payment_volume_charging_interface_2_0</li> </ul>						

### Change in Clause 8.2.1.1

#### 8.2.1.1 Input message: ChargeVolumeRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account to be charged
volume	xsd:long	The volume to be charged
billingText	xsd:string	Textual information to appear on the bill
referenceCode	xsd:string	Textual information to uniquely identify the request, e.g. in case of disputes
<a href="#">parameters</a>	<a href="#">Property [0..unbounded]</a>	<a href="#">Parameters to use to perform rating ("unit", "contract", "service", "operation")</a>

### End of Change in Clause 8.2.1.1

### Change in Clause 8.2.3.1

#### 8.2.3.1 Input message: RefundVolumeRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account to be refunded
volume	xsd:long	The volume to be refunded
billingText	xsd:string	Textual information to appear on the bill
referenceCode	xsd:string	Textual information to uniquely identify the request, e.g. in case of disputes
<a href="#">parameters</a>	<a href="#">Property [0..unbounded]</a>	<a href="#">Parameters to use to perform rating ("unit", "contract", "service", "operation")</a>

### End of Change in Clause 8.2.3.1

### Change in Clause 8.4.2.1

#### 8.4.2.1 Input message: ReserveVolumeRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account subject to the reservation
volume	xsd:long	The volume of the reservation
billingText	xsd:string	Textual information to appear on the bill
<a href="#">parameters</a>	<a href="#">Property [0..unbounded]</a>	<a href="#">Parameters to use to perform rating ("unit", "contract", "service", "operation")</a>

### End of Change in Clause 8.4.2.1

### Change in Clause 8.4.3.1

#### 8.4.3.1 Input message: ReserveAdditionalVolumeRequest

Part name	Part type	Description
reservationIdentifier	xsd:string	An identifier for the reservation to be amended
volume	xsd:long	The volume to be added to (or subtracted from) the reservation
billingText	xsd:string	Textual information to appear on the bill
<a href="#">parameters</a>	<a href="#">Property [0..unbounded]</a>	<a href="#">Parameters to use to perform rating ("unit", "contract", "service", "operation")</a>

### End of Change in Clause 8.4.3.1

## Change in Clause Annex A

### Annex A (normative): WSDL for Payment

The document/literal WSDL representation of this interface specification is compliant to 3GPP TS 29.199-1 [6] and is contained in text files (contained in archive 29199-06-6190-doclit.zip) which accompanies the present document.

**End of Change in Annex A**  
**End of Document**

### Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Dec 2003	CN_21	NP-030552	--	--	Submitted to CN#22 for Information	1.0.0	
Jan 2004	--	--	--	--	Added The W3C WSDL representation of the APIs specified in the present document is contained in a set of files which accompany the present document: px0326rpcenc.zip px0326rpclit.zip	1.0.1	
Jun 2004	CN_24	NP-040274	--	--	Split into multi-part specification. 29.199-0n, for n=1,2...9. Submitted to CN#24 for Information	1.0.3	
Sep 2004	CN_25	NP-040360	--	--	Draft v200 submitted to TSG CN#25 for Approval.	2.0.0	6.0.0

## CHANGE REQUEST

⌘ **29.199-06 CR 0002** ⌘ rev - ⌘ Current version: **6.0.0** ⌘

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**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Wrong datatype used in Amount Interface		
<b>Source:</b>	⌘ CT5 [Sune Jakobsson (Telenor), Gaute Nygreen (Telenor)]		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 26/04/2005
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)	<b>Ph2</b> (GSM Phase 2)	
	<b>A</b> (corresponds to a correction in an earlier release)	<b>R96</b> (Release 1996)	
	<b>B</b> (addition of feature),	<b>R97</b> (Release 1997)	
	<b>C</b> (functional modification of feature)	<b>R98</b> (Release 1998)	
	<b>D</b> (editorial modification)	<b>R99</b> (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<b>Rel-4</b> (Release 4)
			<b>Rel-5</b> (Release 5)
			<b>Rel-6</b> (Release 6)
			<b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	⌘ The Amount interfaces, should be harmonized with the other interfaces, using the charging data type defined in the common part.
<b>Summary of change:</b>	⌘ Change Amout parameter data type to Charging data type.
<b>Consequences if not approved:</b>	⌘ Inconsistent usage of charging. The Parlay X Web Services, Part 6: Payment will not use the ChargingInformation type defined in Part 1: Common. ChargingInformation is used in Part 2, 3, 4, 5, 11 and 12.

<b>Clauses affected:</b>	⌘										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ 29.199-01
Y	N										
X											
	X										
	X										
		Test specifications									
		O&M Specifications									
<b>Other comments:</b>	⌘										

## Change in Clause 4

### 4 Detailed service description

A vast amount of content, both information and entertainment, will be made available to subscribers. To support a business model that enables operators to offer integrated billing, a payment API is crucial. Open and inter-operable "payment APIs" are the key to market growth and investment protection. The Payment Web Service supports payments for any content in an open, Web-like environment.

The Payment Web Service described in the present document supports payment reservation, pre-paid payments, and post-paid payments. It supports charging of both volume and currency amounts, a conversion function and a settlement function in case of a financially resolved dispute.

Note that certain parameters are negotiated off line. For example the currency, volume type, default reservation enforcement time, as well as the taxation procedures and parameters.

An example of an application scenario could be a multimedia service. Assume a subscriber is interested in receiving a stream of, say, a soccer match. The subscriber selects a match and establishes a trusted relation with the provider. Again, the provider obtains the MSISDN and other information from the subscriber. The subscriber wants to know what the service will cost and the provider interacts with the operators rating engine (**getAmount**) taking into account the subscriber's subscription, time of day, etc. The value returned is a ~~currency~~ **ChargingInformation** amount and is printed on the page that is displayed at the MS. The subscriber then decides to stream the match to his MS. Subsequently, the provider will reserve the appropriate amount with the operator (**reserveAmount**) to ensure that the subscriber can fulfil his payment obligations. The match starts and the provider periodically charges against the reservation (**chargeReservation**). The match ends in a draw and is extended with a 'sudden death' phase. The subscriber continues listening, so the existing reservation is enlarged (**reserveAdditionalAmount**). Suddenly, one of the teams scores a goal, so the match abruptly ends, leaving part of the reserved amount unused. The provider now releases the reservation (**releaseReservation**), and the remaining amount is available for future use by the subscriber.

Now we can extend this scenario by having the subscriber participate in a game of chance in which the provider refunds a percentage of the usage costs (**refundAmount**) based on the ranking of a particular team in this tournament. For example, the subscriber gambling on the team that wins the tournament receives a full refund, while for gambling on the team that finishes in second place, the refund is 50%, etc.

## Change in Clause 4

### Change in Clause 8.1.1

#### 8.1.1 Operation: ChargeAmount

This message results in directly charging to the account indicated by the end user identifier. The charge is specified as a ~~currency amount. The billing text field is used for textual information to appear on the bill.~~ **ChargingInformation**, consisting of information on the amount to be charged and a description to appear on the bill. The reference code is used to uniquely identify the request; it is the application's responsibility to provide a unique reference code within the scope of the application.

### 8.1.1.1 Input message: ChargeAmountRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account to be charged
<del>AmountCharge</del>	<del>parlayx_common_xsd:ChargingInformationxsd:decimal</del>	<del>The currency amount of the charge</del> Information on the charge to be made. In the ChargingInformation the description-field is information to appear on the bill. The amount to be charged appears either directly in the amount-field or as code in the code-field. If both these two fields are missing or empty a service exception (SVC0007) will be thrown. The currency-field, if used, holds the currency to be used for the charging.
billingText	xsd:string	Textual information to appear on the bill
referenceCode	xsd:string	Textual information to uniquely identify the request, e.g. in case of disputes

### 8.1.1.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- [SVC0007 - Invalid charging information](#)
- SVC0270 - Charge failed.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001 - Policy error.

**End of Change in Clause 8.1.1**

**Change in Clause 8.1.2**

### 8.1.2 Operation: RefundAmount

This message results in directly applying a refund to the account indicated by the end user identifier. The refund is specified as a currency amount. The billing text field is used for textual information to appear on the bill. The reference code is used to uniquely identify the request; it is the application's responsibility to provide a unique reference code within the scope of the application.

#### 8.1.2.1 Input message: RefundAmountRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account to be refunded
<del>AmountCharge</del>	<del>parlayx_common_xsd:ChargingInformationxsd:decimal</del>	<del>The currency amount of the refunded</del> Information on the charge to be refunded. In the ChargingInformation the description-field is information to appear on the bill. The charge to be refunded appears either directly in the amount-field or as code in the code-field. If both these two fields are missing or empty a service exception (SVC0007) will be thrown. The currency-field, if used, holds the currency to be used for the charging.
billingText	xsd:string	Textual information to appear on the bill
referenceCode	xsd:string	Textual information to uniquely identify the request, e.g. in case of disputes

### 8.1.2.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC0270 - Charge failed.
- [SVC0007 - Invalid charging information](#)

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001 - Policy error.

**End of Change in Clause 8.1.2**

**Change in Clause 8.2.2**

### 8.2.2 Operation: GetAmount

This message results in converting the given volume to a currency amount. The end user identifier is given to indicate the subscriber for whom this conversion calculation must be made. The message returns a currency amount if successful.

The following properties may be provided:

- unit, specifying the unit used for measuring volume (e.g. bytes);
- contract, number of a contract that may govern the use;
- service, name of the service to be used (e.g. SendMultimediaMessage);
- operation, name of the operation to be used (e.g. SendMessage).

#### 8.2.2.1 Input message: GetAmountRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account to be charged
volume	xsd:long	The volume to be converted
parameters	Property [0..unbounded]	Parameters to use to perform rating ("unit", "contract", "service", "operation")

#### 8.2.2.2 Output message: GetAmountResponse

Part name	Part type	Description
<del>Result</del> amount	<del>parlayx_common_xsd:ChargingInformation</del> xsd:decimal	<del>It is the currency amount resulting from the</del> The conversion process results in the return of ChargingInformation where the description amount and currency fields must be filled.

**End of Change in Clause 8.1.1**

**End of Change in Clause 8.3.1**



### 8.3.1 Operation: ReserveAmount

This message results in directly reserving an amount for an account indicated by the end user identifier. The reservation is specified as ~~a-currency-amount~~ [ChargingInformation](#). Note that reservations do not last forever; it is assumed the default reservation enforcement time is negotiated off-line. If the reservation times out, the remaining funds will be returned to the account from which this reservation was made. However, the remaining funds shall preferably be returned explicitly to the account using the **releaseReservation** message. ~~The-billing~~ [The description](#) text field [of the ChargingInformation](#) is used for textual information to appear on the bill. Subsequent textual information provided during this charging session will be appended to this textual information; one charging session to a reservation will result in only one entry on the bill. In case of success, a reservation id is returned for future reference; e.g. subsequent charging against the existing reservation using the **chargeReservation** message.

#### 8.3.1.1 Input message: ReserveAmountRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account subject to the reservation
<del>amount</del> <a href="#">charge</a>	<del>parlayx_common_xsd:ChargingInformation</del> xsd:decimal	<del>The-currency-amount-of-the-reservation</del> <a href="#">Information on the charge to be reserved. In the ChargingInformation the description-field is information to appear on the bill. The charge to be reserved appears either directly in the amount-field or as code in the code-field. If both these two fields are missing or empty a service exception (SVC0007) will be thrown. The currency-field, if used, holds the currency to be used for the charging.</a>
<del>billingText</del>	xsd:string	<del>Textual information to appear on the bill</del>

#### 8.3.1.2 Output message: ReserveAmountResponse

Part name	Part type	Description
reservationIdentifier	xsd:string	It is an identifier for the newly created reservation

#### 8.3.1.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- [SVC0007 - Invalid charging information](#)

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001 - Policy error.

**End of Change in Clause 8.3.1**

**End of Change in Clause 8.3.2**

### 8.3.2 Operation: ReserveAdditionalAmount

This message results in the addition/reduction of a currency amount to/from an existing reservation indicated by the reservation id. The reservation is specified as a currency amount. Note that reservations do not last forever; it is assumed the default reservation enforcement time is negotiated off-line. Invoking this message will extend the reservation enforcement time for another off-line-negotiated period. The ~~billing~~ [description](#) text field [of](#)

[ChargingInformation](#) is used for appending textual information to appear on the bill. The textual information is appended to the initial textual information given by the **reserveAmount** message; one charging session to a reservation will result in only one entry on the bill. Reserved credit can be returned to the account through the **releaseReservation** message.

### 8.3.2.1 Input message: ReserveAdditionalAmountRequest

Part name	Part type	Description
reservationIdentifier	xsd:string	An identifier for the reservation to be amended
<del>Amount</del> <a href="#">charge</a>	<a href="#">parlayx.com</a> <a href="#">mon_xsd:ChargingInformation</a> <a href="#">xsd:decimal</a>	<del>The currency amount to be added to (or subtracted from) the reservation</del> <a href="#">Information on the charge to be added to (or subtracted from) the reservation. In the ChargingInformation the description-field is information to appear on the bill. The charge to be reserved appears either directly in the amount-field or as code in the code-field. If both these two fields are missing or empty a service exception (SVC0007) will be thrown. The currency-field, if used, holds the currency to be used for the charging.</a>
<del>billingText</del>	<del>xsd:string</del>	<del>Textual information to appear on the bill</del>

### 8.3.2.2 Output message : ReserveAdditionalAmountResponse

Part name	Part type	Description
None		

### 8.3.2.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- [SVC0007 - Invalid charging information](#)

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001 - Policy error.

**End of Change in Clause 8.3.2**

**Change in Clause 8.3.3**

### 8.3.3 Operation: ChargeReservation

This message results in charging to a reservation indicated by the reservation id. Reservations, identified by reservation id, are established through invoking the **reserveAmount** message. The charge is specified as ~~a-currency amount~~**ChargingInformation**. ~~Optionally, the~~ **The description**~~billing-text~~ field ~~of the ChargingInformation can be~~ used for appending textual information to appear on the bill. The textual information is appended to the initial textual information given by the **reserveAmount** message; one charging session to a reservation will result in only one entry on the bill. The reference code is used to uniquely identify the request; it is the application's responsibility to provide a unique reference code within the scope of the application.

#### 8.3.3.1 Input message: ChargeReservationRequest

Part name	Part type	Description
reservationIdentifier	xsd:string	An identifier for the reservation to be charged
<del>amount</del> <b>charge</b>	<del>parlayx.com</del> <del>mon_xsd:ChargingInformation</del> <del>xsd:decimal</del>	<del>The currency amount of the charge</del> <a href="#">Information on the reservation to be charged. In the ChargingInformation the description-field is information to appear on the bill. The reserved amount to be charged appears either directly in the amount-field or as code in the code-field. If both these two fields are missing or empty a service exception (SVC0007) will be thrown. The currency-field, if used, holds the currency to be used for the charging.</a>
<del>billingText</del>	<del>xsd:string</del>	<del>Textual information to appear on the bill</del>
referenceCode	xsd:string	Textual information to uniquely identify the request, e.g. in case of disputes

#### 8.3.3.2 Output message: ChargeReservationResponse

Part name	Part type	Description
None		

#### 8.3.3.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- [SVC0007 - Invalid charging information](#)
- SVC0270 - Charge failed.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001 - Policy error.

**End of Change in Clause 8.3.3**

**Change in Clause 8.4.1**

### 8.4.1 Operation: GetAmount

Returns the amount resulting from converting the given volume. The end user identifier is given to indicate the subscriber for whom this calculation must be made. The message returns a currency amount if successful.

The following properties may be provided:

- unit, specifying the unit used for measuring volume (e.g. bytes);
- contract, number of a contract that may govern the use;
- service, name of the service to be used (e.g. SendMultimediaMessage);
- operation, name of the operation to be used (e.g. SendMessage).

#### 8.4.1.1 Input message: GetAmountRequest

Part name	Part type	Description
endUserIdentifier	xsd:anyURI	The end user's account to be charged
volume	xsd:long	The volume to be converted
parameters	Property [0..unbounded]	Parameters to use to perform rating ("unit", "contract", "service", "operation")

#### 8.4.1.2 Output message : GetAmountResponse

Part name	Part type	Description
<del>Amount</del> amount	<del>parlayx_common_xsd:ChargingInformation</del> xsd:decimal	It is the currency amount resulting from the conversion process <u>The conversion process results in the return of ChargingInformation where the description amount and currency fields must be filled.</u>

**End of Change in Clause 8.4.1**  
**End of Document**

**Change in Clause Annex A.1**

## Annex A (normative): WSDL

**parlayx\_payment\_amount\_charging\_interface\_2\_0.wsdl – start**

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!-- August 13, 2004 -->
```

```
<wsdl:definitions
```

```
  name="parlayx_payment_amount_charging_interface"
```

```
  targetNamespace="http://www.csapi.org/wsdl/parlayx/payment/amount_charging/v2_0/interface"
```

```
  xmlns="http://schemas.xmlsoap.org/wsdl/"
```

```
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
```

```
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
```

```
  xmlns:parlayx_payment_amount_charging="http://www.csapi.org/wsdl/parlayx/payment/amount_charging/v2_0/interface"
```

```
xmlns:parlayx_common_faults="http://www.csapi.org/wsd/parlayx/common/v2_0/faults"
```

```
xmlns:parlayx_payment_xsd="http://www.csapi.org/schema/parlayx/payment/v2_0"
```

```
xmlns:parlayx_payment_amount_charging_local_xsd="http://www.csapi.org/schema/parlayx/payment/amount_charging/v2_0/local">
```

```
<wsdl:import namespace="http://www.csapi.org/wsd/parlayx/common/v2_0/faults" location="parlayx_common_faults_2_0.wsdl"/>
```

```
<wsdl:types>
```

```
<xsd:schema elementFormDefault="qualified" targetNamespace="http://www.csapi.org/schema/parlayx/payment/amount_charging/v2_0/local">
```

```
<xsd:import namespace="http://www.csapi.org/schema/parlayx/payment/v2_0" schemaLocation="parlayx_payment_types_2_0.xsd"/>
```

```
<xsd:element name="chargeAmount" type="parlayx_payment_amount_charging_local_xsd:chargeAmount"/>
```

```
<xsd:complexType name="chargeAmount">
```

```
<xsd:sequence>
```

```
<xsd:element name="endUserIdentifier" type="xsd:anyURI"/>
```

```
<xsd:element name="charg" type="parlayx_common_xsd:ChargingInformation"/>
```

```
<xsd:element name="amount" type="xsd:decimal"/>
```

```
<xsd:element name="billingText" type="xsd:string"/>
```

```
<xsd:element name="referenceCode" type="xsd:string"/>
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

```
<xsd:element name="chargeAmountResponse" type="parlayx_payment_amount_charging_local_xsd:chargeAmountResponse"/>
```

```
<xsd:complexType name="chargeAmountResponse">
```

```
<xsd:sequence/>
```

```
</xsd:complexType>
```

```
<xsd:element name="refundAmount" type="parlayx_payment_amount_charging_local_xsd:refundAmount"/>
```

```
<xsd:complexType name="refundAmount">
```

```

        <xsd:sequence>
            <xsd:element name="endUserIdentifier" type="xsd:anyURI"/>
            <xsd:element name="charg" type="parlayx_common xsd:ChargingInformation"/>
<xsd:element name="amount" type="xsd:decimal"/>
<xsd:element name="billingText" type="xsd:string"/>
            <xsd:element name="referenceCode" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="refundAmountResponse"
type="parlayx_payment_amount_charging_local_xsd:refundAmountResponse"/>
    <xsd:complexType name="refundAmountResponse">
        <xsd:sequence/>
    </xsd:complexType>
</xsd:schema>
</wsdl:types>

<wsdl:message name="AmountCharging_chargeAmountRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_amount_charging_local_xsd:chargeAmount"/>
</wsdl:message>

<wsdl:message name="AmountCharging_chargeAmountResponse">
    <wsdl:part name="result"
element="parlayx_payment_amount_charging_local_xsd:chargeAmountResponse"/>
</wsdl:message>

<wsdl:message name="AmountCharging_refundAmountRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_amount_charging_local_xsd:refundAmount"/>
</wsdl:message>

<wsdl:message name="AmountCharging_refundAmountResponse">
    <wsdl:part name="result"
element="parlayx_payment_amount_charging_local_xsd:refundAmountResponse"/>
</wsdl:message>

```

```

<wsdl:portType name="AmountCharging">
  <wsdl:operation name="chargeAmount">
    <wsdl:input
message="parlayx_payment_amount_charging:AmountCharging_chargeAmountRequest"/>
    <wsdl:output
message="parlayx_payment_amount_charging:AmountCharging_chargeAmountResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
    <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
  </wsdl:operation>

  <wsdl:operation name="refundAmount">
    <wsdl:input
message="parlayx_payment_amount_charging:AmountCharging_refundAmountRequest"/>
    <wsdl:output
message="parlayx_payment_amount_charging:AmountCharging_refundAmountResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
    <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
  </wsdl:operation>
</wsdl:portType>
</wsdl:definitions>

```

**parlayx\_payment\_amount\_charging\_interface\_2\_0.wsdl -- end**

**parlayx\_payment\_reserve\_amount\_charging\_interface\_2\_0.wsdl --start**

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- August 13, 2004 -->
<wsdl:definitions
  name="parlayx_payment_reserve_amount_charging_interface"
  targetNamespace="http://www.csapi.org/wsdl/parlayx/payment/reserve_amount_charging/v2_0/interface"
  xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:parlayx_payment_reserve_amount_charging="http://www.csapi.org/wsdl/parlayx/payment/reserve_amount_charging/v2_0/interface"

```

```
xmlns:parlayx_common_faults="http://www.csapi.org/wsd/parlayx/common/v2_0/faults"
```

```
xmlns:parlayx_payment_xsd="http://www.csapi.org/schema/parlayx/payment/v2_0"
```

```
xmlns:parlayx_payment_reserve_amount_charging_local_xsd="http://www.csapi.org/schema/parlayx/payment/reserve_amount_charging/v2_0/local">
```

```
<wsdl:import namespace="http://www.csapi.org/wsd/parlayx/common/v2_0/faults" location="parlayx_common_faults_2_0.wsdl"/>
```

```
<wsdl:types>
```

```
<xsd:schema elementFormDefault="qualified" targetNamespace="http://www.csapi.org/schema/parlayx/payment/reserve_amount_charging/v2_0/local">
```

```
<xsd:import namespace="http://www.csapi.org/schema/parlayx/payment/v2_0" schemaLocation="parlayx_payment_types_2_0.xsd"/>
```

```
<xsd:element name="reserveAmount" type="parlayx_payment_reserve_amount_charging_local_xsd:reserveAmount"/>
```

```
<xsd:complexType name="reserveAmount">
```

```
<xsd:sequence>
```

```
<xsd:element name="endUserIdentifier" type="xsd:anyURI"/>
```

```
<xsd:element name="charg" type="parlayx_common_xsd:ChargingInformation"/>
```

```
<xsd:element name="amount" type="xsd:decimal"/>
```

```
<xsd:element name="billingText" type="xsd:string"/>
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

```
<xsd:element name="reserveAmountResponse" type="parlayx_payment_reserve_amount_charging_local_xsd:reserveAmountResponse"/>
```

```
<xsd:complexType name="reserveAmountResponse">
```

```
<xsd:sequence>
```

```
<xsd:element name="result" type="xsd:string"/>
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

```
<xsd:element name="reserveAdditionalAmount" type="parlayx_payment_reserve_amount_charging_local_xsd:reserveAdditionalAmount"/>
```



```

<xsd:complexType name="reserveAdditionalAmount">
  <xsd:sequence>
    <xsd:element name="reservationIdentifier" type="xsd:string"/>
    <xsd:element name="charg" type="parlayx_common_xsd:ChargingInformation"/>
<xsd:element name="amount" type="xsd:decimal"/>
<xsd:element name="billingText" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="reserveAdditionalAmountResponse"
type="parlayx_payment_reserve_amount_charging_local_xsd:reserveAdditionalAmountR
esponse"/>

<xsd:complexType name="reserveAdditionalAmountResponse">
  <xsd:sequence/>
</xsd:complexType>

<xsd:element name="chargeReservation"
type="parlayx_payment_reserve_amount_charging_local_xsd:chargeReservation"/>

<xsd:complexType name="chargeReservation">
  <xsd:sequence>
    <xsd:element name="reservationIdentifier" type="xsd:string"/>
    <xsd:element name="charg" type="parlayx_common_xsd:ChargingInformation"/>
<xsd:element name="amount" type="xsd:decimal"/>
<xsd:element name="billingText" type="xsd:string"/>
    <xsd:element name="referenceCode" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="chargeReservationResponse"
type="parlayx_payment_reserve_amount_charging_local_xsd:chargeReservationRespon
se"/>

<xsd:complexType name="chargeReservationResponse">
  <xsd:sequence/>
</xsd:complexType>

<xsd:element name="releaseReservation"
type="parlayx_payment_reserve_amount_charging_local_xsd:releaseReservation"/>

<xsd:complexType name="releaseReservation">

```

```

        <xsd:sequence>
            <xsd:element name="reservationIdentifier" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="releaseReservationResponse"
type="parlayx_payment_reserve_amount_charging_local_xsd:releaseReservationRespon
se"/>

    <xsd:complexType name="releaseReservationResponse">
        <xsd:sequence/>
    </xsd:complexType>
</xsd:schema>
</wsdl:types>

<wsdl:message name="ReserveAmountCharging_reserveAmountRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_reserve_amount_charging_local_xsd:reserveAmount"/>
</wsdl:message>

<wsdl:message name="ReserveAmountCharging_reserveAmountResponse">
    <wsdl:part name="result"
element="parlayx_payment_reserve_amount_charging_local_xsd:reserveAmountResponse
"/>
</wsdl:message>

<wsdl:message name="ReserveAmountCharging_reserveAdditionalAmountRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_reserve_amount_charging_local_xsd:reserveAdditionalAmou
nt"/>
</wsdl:message>

<wsdl:message name="ReserveAmountCharging_reserveAdditionalAmountResponse">
    <wsdl:part name="result"
element="parlayx_payment_reserve_amount_charging_local_xsd:reserveAdditionalAmou
ntResponse"/>
</wsdl:message>

<wsdl:message name="ReserveAmountCharging_chargeReservationRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_reserve_amount_charging_local_xsd:chargeReservation"/>

```

```

</wsdl:message>

<wsdl:message name="ReserveAmountCharging_chargeReservationResponse">
  <wsdl:part name="result"
element="parlayx_payment_reserve_amount_charging_local_xsd:chargeReservationResp
onse"/>
</wsdl:message>

<wsdl:message name="ReserveAmountCharging_releaseReservationRequest">
  <wsdl:part name="parameters"
element="parlayx_payment_reserve_amount_charging_local_xsd:releaseReservation"/>
</wsdl:message>

<wsdl:message name="ReserveAmountCharging_releaseReservationResponse">
  <wsdl:part name="result"
element="parlayx_payment_reserve_amount_charging_local_xsd:releaseReservationRes
ponse"/>
</wsdl:message>

<wsdl:portType name="ReserveAmountCharging">
  <wsdl:operation name="reserveAmount">
    <wsdl:input
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_reserveAm
ountRequest"/>
    <wsdl:output
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_reserveAm
ountResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
    <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
  </wsdl:operation>

  <wsdl:operation name="reserveAdditionalAmount">
    <wsdl:input
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_reserveAd
ditionalAmountRequest"/>
    <wsdl:output
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_reserveAd
ditionalAmountResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
  </wsdl:operation>

```

```

        <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>

    </wsdl:operation>

    <wsdl:operation name="chargeReservation">

        <wsdl:input
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_chargeRes
ervationRequest"/>

        <wsdl:output
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_chargeRes
ervationResponse"/>

        <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>

        <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>

    </wsdl:operation>

    <wsdl:operation name="releaseReservation">

        <wsdl:input
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_releaseRe
servationRequest"/>

        <wsdl:output
message="parlayx_payment_reserve_amount_charging:ReserveAmountCharging_releaseRe
servationResponse"/>

        <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>

        <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>

    </wsdl:operation>

</wsdl:portType>
</wsdl:definitions>

```

**parlayx\_payment\_reserve\_amount\_charging\_interface\_2\_0.wsdl - end**

**parlayx\_payment\_reserve\_volume\_charging\_interface\_2\_0.wsdl - start**

```

<?xml version="1.0" encoding="UTF-8"?>

<!-- August 13, 2004 -->

<wsdl:definitions

    name="parlayx_payment_reserve_volume_charging_interface"

targetNamespace="http://www.csapi.org/wsdl/parlayx/payment/reserve_volume_chargi
ng/v2_0/interface"

    xmlns="http://schemas.xmlsoap.org/wsdl/"

    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"

```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:parlayx_payment_reserve_volume_charging="http://www.csapi.org/wsd/parlayx/payment/reserve_volume_charging/v2_0/interface"

xmlns:parlayx_common_faults="http://www.csapi.org/wsd/parlayx/common/v2_0/faults"

xmlns:parlayx_payment_xsd="http://www.csapi.org/schema/parlayx/payment/v2_0"

xmlns:parlayx_payment_reserve_volume_charging_local_xsd="http://www.csapi.org/schema/parlayx/payment/reserve_volume_charging/v2_0/local">

  <wsdl:import namespace="http://www.csapi.org/wsd/parlayx/common/v2_0/faults"
location="parlayx_common_faults_2_0.wsdl"/>

  <wsdl:types>

    <xsd:schema elementFormDefault="qualified"
targetNamespace="http://www.csapi.org/schema/parlayx/payment/reserve_volume_charging/v2_0/local">

      <xsd:import
namespace="http://www.csapi.org/schema/parlayx/payment/v2_0"
schemaLocation="parlayx_payment_types_2_0.xsd"/>

      <xsd:element name="getAmount"
type="parlayx_payment_reserve_volume_charging_local_xsd:getAmount"/>

      <xsd:complexType name="getAmount">

        <xsd:sequence>

          <xsd:element name="endUserIdentifier" type="xsd:anyURI"/>

          <xsd:element name="volume" type="xsd:long"/>

          <xsd:element name="parameters"
type="parlayx_payment_xsd:Property" minOccurs="0" maxOccurs="unbounded"/>

        </xsd:sequence>

      </xsd:complexType>

      <xsd:element name="getAmountResponse"
type="parlayx_payment_reserve_volume_charging_local_xsd:getAmountResponse"/>

      <xsd:complexType name="getAmountResponse">

        <xsd:sequence>

          <xsd:element name="amount"
type="parlayx_common_xsd:ChargingInformation"/>

          <del>xsd:element name="result" type="xsd:decimal"/>

```

```

        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="reserveVolume"
type="parlayx_payment_reserve_volume_charging_local_xsd:reserveVolume"/>
    <xsd:complexType name="reserveVolume">
        <xsd:sequence>
            <xsd:element name="endUserIdentifier" type="xsd:anyURI"/>
            <xsd:element name="volume" type="xsd:long"/>
            <xsd:element name="billingText" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="reserveVolumeResponse"
type="parlayx_payment_reserve_volume_charging_local_xsd:reserveVolumeResponse"/>
    <xsd:complexType name="reserveVolumeResponse">
        <xsd:sequence>
            <xsd:element name="result" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="reserveAdditionalVolume"
type="parlayx_payment_reserve_volume_charging_local_xsd:reserveAdditionalVolume"
/>
    <xsd:complexType name="reserveAdditionalVolume">
        <xsd:sequence>
            <xsd:element name="reservationIdentifier" type="xsd:string"/>
            <xsd:element name="volume" type="xsd:long"/>
            <xsd:element name="billingText" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="reserveAdditionalVolumeResponse"
type="parlayx_payment_reserve_volume_charging_local_xsd:reserveAdditionalVolumeR
esponse"/>
    <xsd:complexType name="reserveAdditionalVolumeResponse">
        <xsd:sequence/>
    </xsd:complexType>

```

```

        <xsd:element name="chargeReservation"
type="parlayx_payment_reserve_volume_charging_local_xsd:chargeReservation"/>
        <xsd:complexType name="chargeReservation">
            <xsd:sequence>
                <xsd:element name="reservationIdentifier" type="xsd:string"/>
                <xsd:element name="volume" type="xsd:long"/>
                <xsd:element name="billingText" type="xsd:string"/>
                <xsd:element name="referenceCode" type="xsd:string"/>
            </xsd:sequence>
        </xsd:complexType>

        <xsd:element name="chargeReservationResponse"
type="parlayx_payment_reserve_volume_charging_local_xsd:chargeReservationRespon
se"/>
        <xsd:complexType name="chargeReservationResponse">
            <xsd:sequence/>
        </xsd:complexType>

        <xsd:element name="releaseReservation"
type="parlayx_payment_reserve_volume_charging_local_xsd:releaseReservation"/>
        <xsd:complexType name="releaseReservation">
            <xsd:sequence>
                <xsd:element name="reservationIdentifier" type="xsd:string"/>
            </xsd:sequence>
        </xsd:complexType>

        <xsd:element name="releaseReservationResponse"
type="parlayx_payment_reserve_volume_charging_local_xsd:releaseReservationRespon
se"/>
        <xsd:complexType name="releaseReservationResponse">
            <xsd:sequence/>
        </xsd:complexType>
    </xsd:schema>
</wsdl:types>

<wsdl:message name="ReserveVolumeCharging_getAmountRequest">

```

```
        <wsdl:part name="parameters"
element="parlayx_payment_reserve_volume_charging_local_xsd:getAmount"/>
    </wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_getAmountResponse">
    <wsdl:part name="result"
element="parlayx_payment_reserve_volume_charging_local_xsd:getAmountResponse"/>
</wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_reserveVolumeRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_reserve_volume_charging_local_xsd:reserveVolume"/>
</wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_reserveVolumeResponse">
    <wsdl:part name="result"
element="parlayx_payment_reserve_volume_charging_local_xsd:reserveVolumeResponse"
/>
</wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_reserveAdditionalVolumeRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_reserve_volume_charging_local_xsd:reserveAdditionalVolume"
/>
</wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_reserveAdditionalVolumeResponse">
    <wsdl:part name="result"
element="parlayx_payment_reserve_volume_charging_local_xsd:reserveAdditionalVolumeResponse"
/>
</wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_chargeReservationRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_reserve_volume_charging_local_xsd:chargeReservation"/>
</wsdl:message>
```

```
<wsdl:message name="ReserveVolumeCharging_chargeReservationResponse">
```



```

        <wsdl:part name="result"
element="parlayx_payment_reserve_volume_charging_local_xsd:chargeReservationResp
onse"/>
    </wsdl:message>

    <wsdl:message name="ReserveVolumeCharging_releaseReservationRequest">
        <wsdl:part name="parameters"
element="parlayx_payment_reserve_volume_charging_local_xsd:releaseReservation"/>
    </wsdl:message>

    <wsdl:message name="ReserveVolumeCharging_releaseReservationResponse">
        <wsdl:part name="result"
element="parlayx_payment_reserve_volume_charging_local_xsd:releaseReservationRes
ponse"/>
    </wsdl:message>

    <wsdl:portType name="ReserveVolumeCharging">
        <wsdl:operation name="getAmount">
            <wsdl:input
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_getAmount
Request"/>
            <wsdl:output
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_getAmount
Response"/>
            <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
            <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
        </wsdl:operation>

        <wsdl:operation name="reserveVolume">
            <wsdl:input
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_reserveVo
lumeRequest"/>
            <wsdl:output
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_reserveVo
lumeResponse"/>
            <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
            <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
        </wsdl:operation>

```

```

    <wsdl:operation name="reserveAdditionalVolume">
        <wsdl:input
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_reserveAd
ditionalVolumeRequest"/>
        <wsdl:output
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_reserveAd
ditionalVolumeResponse"/>
        <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
        <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
    </wsdl:operation>

    <wsdl:operation name="chargeReservation">
        <wsdl:input
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_chargeRes
ervationRequest"/>
        <wsdl:output
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_chargeRes
ervationResponse"/>
        <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
        <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
    </wsdl:operation>

    <wsdl:operation name="releaseReservation">
        <wsdl:input
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_releaseRe
servationRequest"/>
        <wsdl:output
message="parlayx_payment_reserve_volume_charging:ReserveVolumeCharging_releaseRe
servationResponse"/>
        <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
        <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
    </wsdl:operation>
</wsdl:portType>
</wsdl:definitions>
parlayx_payment_reserve_volume_charging_interface_2_0.wsdl – end
parlayx_payment_volume_charging_interface_2_0.wsdl – start
<?xml version="1.0" encoding="UTF-8"?>

```

```

<!-- August 13, 2004 -->
<wsdl:definitions
    name="parlayx_payment_volume_charging_interface"

targetNamespace="http://www.csapi.org/wsdl/parlayx/payment/volume_charging/v2_0/
interface"

    xmlns="http://schemas.xmlsoap.org/wsdl/"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:parlayx_payment_volume_charging="http://www.csapi.org/wsdl/parlayx/payment
/volume_charging/v2_0/interface"

xmlns:parlayx_common_faults="http://www.csapi.org/wsdl/parlayx/common/v2_0/faults"

    xmlns:parlayx_payment_xsd="http://www.csapi.org/schema/parlayx/payment/v2_0"

xmlns:parlayx_payment_volume_charging_local_xsd="http://www.csapi.org/schema/par
layx/payment/volume_charging/v2_0/local">

    <wsdl:import namespace="http://www.csapi.org/wsdl/parlayx/common/v2_0/faults"
location="parlayx_common_faults_2_0.wsdl"/>

    <wsdl:types>

        <xsd:schema elementFormDefault="qualified"
targetNamespace="http://www.csapi.org/schema/parlayx/payment/volume_charging/v2_
0/local">

            <xsd:import
namespace="http://www.csapi.org/schema/parlayx/payment/v2_0"
schemaLocation="parlayx_payment_types_2_0.xsd"/>

            <xsd:element name="chargeVolume"
type="parlayx_payment_volume_charging_local_xsd:chargeVolume"/>

            <xsd:complexType name="chargeVolume">

                <xsd:sequence>

                    <xsd:element name="endUserIdentifier" type="xsd:anyURI"/>

                    <xsd:element name="volume" type="xsd:long"/>

                    <xsd:element name="billingText" type="xsd:string"/>

                    <xsd:element name="referenceCode" type="xsd:string"/>

                </xsd:sequence>

            </xsd:complexType>

```

```

    <xsd:element name="chargeVolumeResponse"
type="parlayx_payment_volume_charging_local_xsd:chargeVolumeResponse"/>
    <xsd:complexType name="chargeVolumeResponse">
        <xsd:sequence/>
    </xsd:complexType>

    <xsd:element name="getAmount"
type="parlayx_payment_volume_charging_local_xsd:getAmount"/>
    <xsd:complexType name="getAmount">
        <xsd:sequence>
            <xsd:element name="endUserIdentifier" type="xsd:anyURI"/>
            <xsd:element name="volume" type="xsd:long"/>
            <xsd:element name="parameters"
type="parlayx_payment_xsd:Property" minOccurs="0" maxOccurs="unbounded"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="getAmountResponse"
type="parlayx_payment_volume_charging_local_xsd:getAmountResponse"/>
    <xsd:complexType name="getAmountResponse">
        <xsd:sequence>
            <xsd:element name="amount" type="parlayx_common_xsd:ChargingInformation"/>
<xsd:element name="result" type="xsd:decimal"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="refundVolume"
type="parlayx_payment_volume_charging_local_xsd:refundVolume"/>
    <xsd:complexType name="refundVolume">
        <xsd:sequence>
            <xsd:element name="endUserIdentifier" type="xsd:anyURI"/>
            <xsd:element name="volume" type="xsd:long"/>
            <xsd:element name="billingText" type="xsd:string"/>
            <xsd:element name="referenceCode" type="xsd:string"/>
        </xsd:sequence>
    </xsd:complexType>

```

```

        <xsd:element name="refundVolumeResponse"
type="parlayx_payment_volume_charging_local_xsd:refundVolumeResponse" />
        <xsd:complexType name="refundVolumeResponse">
            <xsd:sequence />
        </xsd:complexType>
    </xsd:schema>
</wsdl:types>

<wsdl:message name="VolumeCharging_chargeVolumeRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_volume_charging_local_xsd:chargeVolume" />
</wsdl:message>

<wsdl:message name="VolumeCharging_chargeVolumeResponse">
    <wsdl:part name="result"
element="parlayx_payment_volume_charging_local_xsd:chargeVolumeResponse" />
</wsdl:message>

<wsdl:message name="VolumeCharging_getAmountRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_volume_charging_local_xsd:getAmount" />
</wsdl:message>

<wsdl:message name="VolumeCharging_getAmountResponse">
    <wsdl:part name="result"
element="parlayx_payment_volume_charging_local_xsd:getAmountResponse" />
</wsdl:message>

<wsdl:message name="VolumeCharging_refundVolumeRequest">
    <wsdl:part name="parameters"
element="parlayx_payment_volume_charging_local_xsd:refundVolume" />
</wsdl:message>

<wsdl:message name="VolumeCharging_refundVolumeResponse">
    <wsdl:part name="result"
element="parlayx_payment_volume_charging_local_xsd:refundVolumeResponse" />
</wsdl:message>

```

```

<wsdl:portType name="VolumeCharging">
  <wsdl:operation name="chargeVolume">
    <wsdl:input
message="parlayx_payment_volume_charging:VolumeCharging_chargeVolumeRequest"/>
    <wsdl:output
message="parlayx_payment_volume_charging:VolumeCharging_chargeVolumeResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
    <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
  </wsdl:operation>

  <wsdl:operation name="getAmount">
    <wsdl:input
message="parlayx_payment_volume_charging:VolumeCharging_getAmountRequest"/>
    <wsdl:output
message="parlayx_payment_volume_charging:VolumeCharging_getAmountResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
    <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
  </wsdl:operation>

  <wsdl:operation name="refundVolume">
    <wsdl:input
message="parlayx_payment_volume_charging:VolumeCharging_refundVolumeRequest"/>
    <wsdl:output
message="parlayx_payment_volume_charging:VolumeCharging_refundVolumeResponse"/>
    <wsdl:fault name="ServiceException"
message="parlayx_common_faults:ServiceException"/>
    <wsdl:fault name="PolicyException"
message="parlayx_common_faults:PolicyException"/>
  </wsdl:operation>
</wsdl:portType>
</wsdl:definitions>

```

**parlayx\_payment\_volume\_charging\_interface\_2\_0.wsdl -end**

~~<xsd:element name="amount" type="xsd:decimal"/>~~

to be replaced with

~~<xsd:element name="charg" type="parlayx\_common\_xsd:ChargingInformation"/>~~

**End of Change in Annex A.1  
End of Document**

**Annex E (informative):  
Change history**

<b>Change history</b>							
<b>Date</b>	<b>TSG #</b>	<b>TSG Doc.</b>	<b>CR</b>	<b>Rev</b>	<b>Subject/Comment</b>	<b>Old</b>	<b>New</b>
Dec 2003	CN_21	NP-030552	--	--	Submitted to CN#22 for Information	1.0.0	
Jan 2004	--	--	--	--	Added The W3C WSDL representation of the APIs specified in the present document is contained in a set of files which accompany the present document: px0326rpcenc.zip px0326rpclit.zip	1.0.1	
Jun 2004	CN_24	NP-040274	--	--	Split into multi-part specification. 29.199-0n, for n=1,2...9. Submitted to CN#24 for Information	1.0.3	
Sep 2004	CN_25	NP-040360	--	--	Draft v200 submitted to TSG CN#25 for Approval.	2.0.0	6.0.0