

Interface description v4.6

corresponding with URL https://psb.rdw.nl/bevraging/rpv/201205/registration.svc

Versie: 3 B 1615a 26 oktober 2012 Datum:

NPR is ontstaan uit een samenwerkingsverband van





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1 Introduction

This document describes the interactions with the "Nationaal Parkeer Register".

1.1 Goal

This document is aiming at a clear understanding of all possible interfaces to the "Nationaal **P**arkeer Register" for all potential stakeholders.

1.2 Overview and scope

The NPR enables participants to register rights, retrieve rights information for enforcing and settlement. NPR is hosted at RDW and made accessible through open and standard protocols.

Starting points:

- Stakeholders will be governmental entities like municipalities, private owners of parking garages, private service providers, connecting to the NPR for acquiring parking or staying rights or for enforcement on behalf of municipalities;
- The design is driven by NORA;
- Interface will be equal to all stakeholders;

1.3 References

ID	Name	Versio	Date	Authors
		n		
[NORA]	NORA reference architecture	3.0	01-11-	ICTU
	http://www.e-overheid.nl/onderwerpen/e-		2011	
	overheid/architectuur/nora-familie			
[OSB]	Overheidsservicebus or Digikoppeling	2.0	25-03-	Logius, Ministry
	http://www.logius.nl/english/products/excha		2009	of Internal Affairs
	nge-of-data/			

1.4 Definitions

AreaManager	Party responsible for exploiting the Parking and stay right in a specific area
	like Municipalities, Government or private parties.
Digikoppeling	Digikoppeling is also known as "Overheidsservicebus" (OSB). In this
	document, the term OSB is used.
Enforcer	Party responsible for enforcement of the parking rights (i.e. parking officer)
Identity	PKI enables the use of certificates to assure the integrity and authenticity of
	the identity of the certificate holder.
KPS	Koppelnet Publieke Sector, closed network dedicated for Dutch
	governmental parties
NORA	Nederlandse Overheid Referentie Architectuur (Dutch Government
	Reference Architecture). Design principles, models and standards regarding
	e-government.
OIN	Overheids Identificatie Nummer (Government Identification Number).
	Unique id of the user on a PKI-overheid certificate. An OIN is issued by the
	Digikoppeling/OSB organisation
OSB	(or Digikoppeling) OSB is the government's "internal postman".
	OSB/Digikoppeling comprises a set of standards for electronic messaging
	between government organizations. If you implement these standards in
	your own software, you can easily exchange digital messages with fellow
	government organizations. This is done through the connectivity of
	Diginetwerk, the Internet or a different type of connection.

	OSB/Digikoppeling is an NUP (National Implementation Programme for Service Provision and e-Government) building block.
	Governmental parties communicating with NPR use the OSB set of standards.
PIN	Private Identification Number. Unique id of the user on a RDW issued certificate. A PIN is issued by RDW.
PKI	Public Key Infrastructure
PSB	Private Service Bus. A set of standards for electronic messaging between private parties, derived from OSB. See also OSB and Digikoppeling.
	Private parties communicating with NPR use the PSB set of standards.
NPR	Nationaal Parkeer Register. The information system hosted at RDW premises.
Service	The result or effect of a task of an organization, employee or application based on legal obligations or agreements and provides the needs of multiple organizations, employees or applications.
Servicebus	An integration infrastructure (middleware) which is necessary to facilitate SOA architectures
SHPV	Servicehuis Parkeer- en Verblijfsrechten (Service House Parking and Staying Rights), the cooperation that makes NPR available for the parties registering, checking and managing parking and staying rights.
Webserviceprovider	A party who publishes a webservice
Webservicerequestor	A party who consumes a webservice
Webservice	A webservice is a special occurrence of a service focussed at the service between applications.
WSDL	WSDL is an XML format for describing network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information. The operations and messages are described abstractly, and then bound to a concrete network protocol and message format to define an endpoint. Related concrete endpoints are combined into abstract endpoints (services). WSDL is extensible to allow description of endpoints and their messages regardless of what message formats or network protocols are used to communicate, however, the only bindings described in this document describe how to use WSDL in conjunction with SOAP 1.1, HTTP GET/POST, and MIME.
WUS	WSDL/UDDI/SOAP stack. System based on W3C WS-* standards.

2 Global Design

2.1 Context

In figure 1 the context of the NPR is depicted. Concerning the interfaces three significant entities can be defined:

Enforcers

On the instructions of municipalities and private parties (who own parking space), the enforcement of the system will be done. Therefore the enforcer role needs interfaces to check an executed parking right

Area Managers

Area managers own or exploit sparking space and regulate and charge the usage. Rights based on other vehicle related usage of streets, areas or buildings can also be registrated.

Providers

Providers will on behalf of their customers acquire parking or staying rights for areas based on contracts with municipalities and private parties. People that want to acquire a parking or staying right, will interact with the providers to get it. For electronic registration of a right, the provider will interact with the NPR system in a few well described, standardized interfaces.

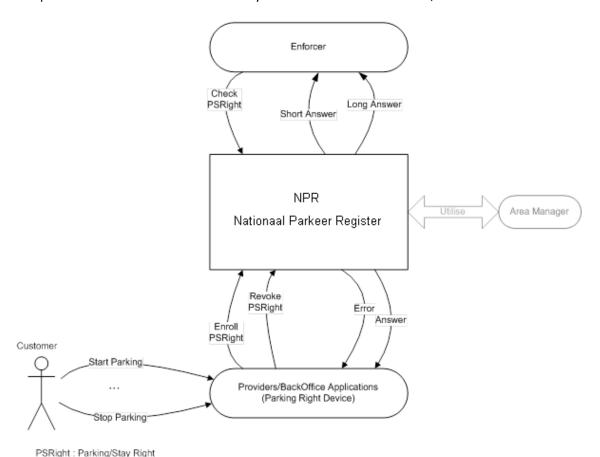


Figure 1 Context Nationaal Parkeer Register

2.2 Usages

The usages that are available for registration in the "Nationaal Parkeer Register" are depicted in the following figures (1 en 2). A list of general usages is shown ('Gebruiksdoelen_Algemeen') and a list for the city of Amsterdam ('Gebruiksdoelen Amsterdam').

There are two main categories for usages: The general usage of parking ('Parkeren') or parking by means of a disabled person's parking card ('GPK'). The general usage 'Parkeren' is subdivided in charged parking ('BetaaldParkeren') and parking with a license ('VergunningParkeren'). The usage

of parking by means of a disabled person's parking card is subdivided in general usage by a disabled person ('GPK'), usage by a disabled driver ('GPKB'), usage by a disabled passenger ('GPKP') or usage by an institution ('GPKI') (see also Ch 2).

Gebruiksdoelen_Algemeen

Niveau1	Niveau2	Niveau3	Niveau4	Usageld (max 10pos)
Parkeren	24			PARKEREN
	BetaaldParkeren	1832		BETAALDP
) [) j	
			1 3	
	VergunningParkeren	8	X-	VERGUNP
		Autodeler		AUTODELERI
				CONT. C.
		Hulpdienst		HULPDNSTP
		1		
GPK		11.5.7		GPK
	Bestuurder			GPKB
	Instelling			GPKI
	Passagier			GPKP
			<u> </u>	
)]	
			4	
		_		
	Legenda			
	Algemeen geldend			

Gebruiksdoelen Amsterdam

Niveau1	Niveau2	Niveau3	Niveau4	Usageld (max 10pos)
Parkeren				PARKEREN
	BetaaldParkeren			BETAALDP
		0	P. Control	
			6	- -
	VergunningParkere	n	1 Vi	VERGUNP
	and the second transfer of	Autodeler		AUTODELER
		Bewoner		BEWONERP
		Hulpdienst		HULPDNSTP
		Bedrijf		BEDRIJFP

2.3 URL versions

Due to changes in the messages, temporarily different versions of NPR will be used simultaneously. The previous versions of NPR will be used for 6 months until retirement, after a new version is made available. This version of the NPR Interface description describes the definite interface with URL https://psb.rdw.nl/bevraging/rpv/201205/registration.svc.

2.4 Disclosure of parking information: List of selling points

The NPR provides daily an updated list of selling points. This list is provided through an URL so it can be downloaded. In figure 2 the URL is shown. It contains two links where, respectively, the production version of the list and a pre-production version of the list can be downloaded: "Productie verkooppunten" and "Acceptatie verkooppunten". The URL's of the two versions are: Production: http://nprverkooppunten.rdw.nl/Productie/verkooppunten.txt Pre-production: http://nprverkooppunten.rdw.nl/Acceptatie/verkooppunten.txt The list of selling points contains the following elements: selling point identification; geographical

The list of selling points contains the following elements: selling point identification; geographical coordinates; area identification; validity of selling point and area; area manager identification and usage of the area.

2.5 Technology guidelines message exchange

The interfaces will be implemented according the OSB/Digikoppeling standards. Because OSB/Digikoppeling is reserved for only Dutch governments, the private parties will be using equivalent standards but will use different means of authentication. Within the context of NPR, this variant will identified as PSB, Private ServiceBus. The PSB will use the same set of standards and protocols but will use RDW certificates to identify users and will only use Internet as transport network. The OSB uses PKI-O (http://www.logius.nl/english/products/access/pkioverheid/) certificates and will use Internet instead of the closed network KPS as preferred network.

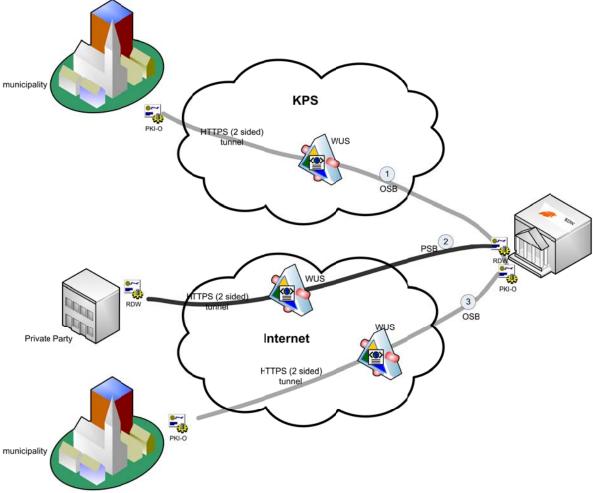


Figure 3 Interaction between RDW, Municipalities and private parties

The exchange of information can be divided in 3 layers:

Transport layer

In this layer the actual connection is established through either Internet or KPS. KPS is a closed network for governmental parties and therefore dedicated for OSB users. For all transport layer communication 2-sided TLS/SSL must be used according the OSB2W-be profile. OSB guideline:

- o TLS 1.0/SSLv3.0 as recommended in WS-I BSP 1.0 for security at transport level.
- Logistic Layer

Messages are defined according the OSB standard WUS (WS-*):

- o WS-I BP 1.1 which is based on SOAP 1.1, WSDL 1.1, XML 1.0 (second edition)
- o WS-I BP 1.2 with respect to the optional parts of WS-addressing and MTOM
- o WS-I BSP 1.0 with respect to message security based on WS-security
- o WS-I Simple SOAP Binding Profile 1.0
- Content Layer

The content is based on the functional specification. Content definition is based on the starting points in 1.2.

Figure 2 shows some examples of these layers between different entities:

Flow 1 describes the interaction between RDW and a municipality according OSB

Transport: KPSLogistic: WUS

Content: See chapter 3Identification: PKI-O Certificate

Flow 2 describes the interaction between RDW and a private party

Transport: InternetLogistic: WUS

Content: See chapter 3Identification: RDW Certificate

Flow 3 describes the interaction between RDW and a municipality according OSB

Transport: InternetLogistic: WUS

Content: See chapter 3Identification: PKI-O Certificate

2.6 Security

Although OSB is supporting End-to-End security between webserviceprovider and webservicerequester, only transport level security will be implemented based on OSB OSB2W-be profile. Transport between requester and provider must use 2-sided TLS or SSLv3.

Identification of both webservicerequester and webserviceprovider will be done by PKI certificates. In case of OSB parties, like municipalities, a PKI-O certificates will be used to terminate both sides of the transport tunnel. In case of private parties RDW certificates will be used to terminate both sides of the transport tunnel.

These certificates will also be used to identify both requester and provider. Therefore the message specification also contains a field which relates to the certificates, see chapter 3.

Parties using a PKI-O certificate will be identified by the OIN on the certificate. Parties using a RDW certificate will be identified by the PIN on the certificate.

2.7 How to get WSDL and XSD

The WSDL of the web services that are described in this document can be obtained by typing the URL of the service, followed by "?wsdl".

The XSD of the web services that are described in this document can be obtained by typing the following:

<Server name>/Registration.svc?xsd=xsd0.

3 Overview of webservice messages

The NPR webservice is used by all entities to interact with NPR.

The following messages are available:

- ☐ Messages to be used by rights acquirers (providers) (see Ch 4)
 - o EnrollPSRight
 - o RevokePSRight
- ☐ Messages to be used by enforcers (see Ch 5)
 - o CheckPSRight
- ☐ Messages to be used by area managers (See Ch 6).
 - o RetrieveRightInfo
 - o RetrieveCheckInfo
- ☐ Messages to be used by all entities (See Ch 7).
 - o CalculatePrice
 - o RetrieveAreasByLocation
 - o RetrieveAreaRegulationFareInfo
 - o StatusRequest

4 Messages to be used by providers

4.1 Enroll PSRight

4.1.1 Message dialogue EnrollPSRight

A rights acquirer sends a request message *PSRightEnrollRequest* to NPR, containing the data of one PS Right to be registered in NPR. NPR sends a response message *PSRightEnrollResponse*, containing the message part *PSRightEnrollResponseData* if registration was successful. If not, the message contains the element *PSRightEnrollResponseError*.

The request message contains at least the following information:

☐ Identification of an area. The way to specify an area should be one of the following:

- 1. AreaManagerId and AreaId.
- 2. A location (*PSRightLocation*), consisting of a *Latitude* and *Longitude* in WGS84 format.
- 3. SellingPointId.

If more than one identification is provided, NPR will use the list above to determine priority, e.g. if *AreaManagerId/AreaId + PSRightLocation* are provided, the combination *AreaManager/AreaId* will be used to specify the area, and the location will be omitted. If the identification provided does not match any of the supported methods, the PSRight will not be recorded and the rights acquirer will receive an error message.

Usage of the PSRight (UsageId)
Identification of a vehicle (VehicleId)
StartTimePSRight
UUID (MessageID)

Instead of a vehicle id a disabled persons's parking card id can be provided in the request message (*VehicleId*). Note that when a disabled person's parking card is used as a vehicle id the area manager is always The Netherlands (area manager id is '9999') and the area is always The Netherlands (area id is 'NEDERLAND')! The value of the usage in this situation reflects the type of disabled person's parking card used to register a parking right: A card for a disabled driver, a card for a disabled passenger or a card for an institution (see also Ch 2).

EndTimePSRight can be provided immediately, but it can also be provided at a later stage, using a request message **PSRightRevokeRequest**.

Business Rule: A rights acquirer is obliged to terminate any PSRight he acquires, either by immediately providing an *EndTimePSRight*, or provide it later via a *PSRightRevokeRequest* message.

For usage and rules concerning the other elements in the request message, see Annex A.

The rights acquirer is identified by the OIN or PIN in its certificate. Each request message contains either the OIN or the PIN from the certificate.

The rights acquirer should be authorised for the provided area, if not, the right is not registered and an error message is sent.

To record a PSRight properly, NPR needs to know the area and the area manager to which the area belongs.

When an area is specified through *AreaManagerId/Areald*, these data are known immediately. When an area is specified through a location, NPR collects all areas containing the specified location, and the area corresponding with the specified usage will be selected as the area to record with the PSRight.

When an area is specified through a selling point, NPR collects all areas containing the specified selling point, and the area corresponding with the specified usage will be selected as the area to record with the PSRight.

If the area determination results in "no area found" or "more than one area found", the PSRight will not be recorded and the rights acquirer will receive an error message.

If no error occurs, the PS right is recorded in NPR. The response message sent by NPR contains

Ц	The area manager and area for which the PSRight is recorded, except when these were already
	specified in the input (AreaManagerId/AreaId)
	The selling point which is closest to the location for which a PSRight is recorded (SellingPointId).
	The selling point is not specified when the area manager and area for which the PSRight is
	recorded already were specified in the input
	Calculated price (AmountPSRightCalculated, VATPSRightCalculated), based on the regulation
	imposed on the area by the area manager. A price calculation is done only when EndTimePSRight
	was provided in the request message. A specification of the calculated price is added if the
	calculation involved another regulation than the standard regulation, or when more than one
	regulation was involved in the calculation. In these cases, the price is lower than the usual price
	according to the standard regulation, because a rebate applies. Examples of rebate regulations
	are day ticket, evening ticket etc.
	NOTE 1: if NPR was not able to do a calculation, AmountPSRightCalculated and
	VATPSRightCalculated will be absent.

NOTE 2: A PSrightWindow is not taken in account in the calculation of AmountPSRightCalculated.

Remarks (*PSRightRemarkList*), if applicable. For more information on remarks, see Appendix B.

☐ Adjusted end time (*EndTimePSRightAdjusted*).

NPR will provide an adjusted end time in two cases.

- o When a right can only be acquired for a limited duration (e.g. maximum parking time one hour). In this case an adjusted end time will be given when no EndTimePSRight was provided, and also when an EndTimePSRight was provided that extends the maximum allowed duration.
- o When the EndTimePSRight was provided in the request, and it is possible to extend duration for the same PS right price.

An adjusted end time overrules the end time provided by the rights acquirer (but does not take away the obligation for the rights acquirer to terminate the PSRight).

4.1.2 Example messages

The following example messages are given:

Requests

- 1. Area identified by AreaManagerId/AreaId. StartTimePSRight provided, no EndTimePSRight. Minimum request.
- 2. Area identified by Location¹. Both StartTimePSRight and EndTimePSRight provided.
- 3. Area identified by *SellingPointId*.
- 4. Area identified by SellingPointId. PSRight with a validity restricting window.
- 5. Erroneous request.
- 6. Registration of a disabled person's parking card. The parking card id is provided as VehicleId. StartTimePSRight and EndTimePSRight time are provided as, respectively, start time and end time of validity of the parking card (a disabled person's parking card is maximal 5 years valid). Also usage is provided.

Replies

1. Minimum response.

2. Response with remarks and standard price calculation, i.e. no specification.

¹ The location used in the example is the Artis Zoo in Amsterdam.

- 3. Response with adjusted end time (extended duration) and price calculation including specification²
- 4. Minimum response.
- 5. Response when an error situation occurs.
- 6. Standard response for registration of a disabled person's parking card.

4.1.2.1 Example request message 1

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRight</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="http://rdw.nl/rpv/1.0">5678904321227673</h:PIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
  <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollRequestData>
    <VehicleId>AB10CD</VehicleId>
    <AreaManagerId>1234</AreaManagerId>
    <Areald>ABCDEFGHIJ</Areald>
    <UsageId>BETAALDP</UsageId>
    <StartTimePSright>2009-12-10T10:00:00</StartTimePSright>
   </PSRightEnrollRequestData>
  </PSRightEnrollRequest>
 </s:Body>
</s:Envelope>
```

4.1.2.2 Example response message 1

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRightResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollResponseData>
   <PSRightId>93641424</PSRightId>
   </PSRightEnrollResponseData>
  </PSRightEnrollResponse>
 </s:Body>
</s:Envelope>
```

```
4.1.2.3 Example request message 2
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRight</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="http://rdw.nl/rpv/1.0">5678904321227673</h:PIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d89</a:MessageID>
  <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollRequest xmlns="http://rdw.nl/rpv/1.0">
  <PSRightEnrollRequestData>
```

² Part of the price is according to the standard regulation, part of the price is a rebate ticket, in this specific case a rebate ticket for afternoon parking.

```
<VehicleId>AB10CD</VehicleId>
   <CountryCodeVehicle>NL</CountryCodeVehicle>
    <LocationPSRight>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </LocationPSRight>
    <UsageId>PLANG</UsageId>
    <StartTimePSright>2009-12-10T10:00:00</StartTimePSright>
    <EndTimePSright>2009-12-17T23:59:00</EndTimePSright>
   <AmountPSright>1.55</AmountPSright>
   <VATPSright>0.15</VATPSright>
   <ReferencePSright>ABCDE</ReferencePSright>
   </PSRightEnrollRequestData>
  </PSRightEnrollRequest>
 </s:Body>
</s:Envelope>
4.1.2.4 Example response message 2
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRightResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d89</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollResponseData>
    <PSRightId>93641425</PSRightId>
    <AreaManagerId>1234</AreaManagerId>
    <Areald>ABCDEFGHIJ</Areald>
    <SellingPointId>30002</SellingPointId>
   <AmountPSRightCalculated>1.65/AmountPSRightCalculated>
   <VATPSRightCalculated>0.16</VATPSRightCalculated>
   <PSRightRemarkList>
    <PSRightRemarkData>
      <PSRightRemarkType>1</PSRightRemarkType>
      <StartTimeRemark>2009-12-10T15:00:00</StartTimeRemark>
      <EndTimeRemark>2009-12-10T16:00:00</EndTimeRemark>
     </PSRightRemarkData>
     <PSRightRemarkData>
      <PSRightRemarkType>1</PSRightRemarkType>
      <StartTimeRemark>2009-12-11T07:00:00</StartTimeRemark>
      <EndTimeRemark>2009-12-11T09:00:00</EndTimeRemark>
    </PSRightRemarkData>
   </PSRightRemarkList>
  </PSRightEnrollResponseData>
  </PSRightEnrollResponse>
 </s:Body>
</s:Envelope>
4.1.2.5 Example request message 3
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRight</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="http://rdw.nl/rpv/1.0">5678904321227673</h:PIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d90</a:MessageID>
  <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollRequest xmlns="http://rdw.nl/rpv/1.0">
```

<PSRightEnrollRequestData>

```
<VehicleId>AB10CD</VehicleId>
   <CountryCodeVehicle>NL</CountryCodeVehicle>
   <SellingPointId>39881</SellingPointId>
   <UsageId>PKORT</UsageId>
    <StartTimePSright>2009-12-10T10:00:00</StartTimePSright>
    <EndTimePSright>2009-12-10T16:45:00</EndTimePSright>
   <AmountPSright>10.55</AmountPSright>
    <VATPSright>2.15</VATPSright>
    <ReferencePSright>ABCDE</ReferencePSright>
   </PSRightEnrollRequestData>
  </PSRightEnrollRequest>
</s:Body>
</s:Envelope>
4.1.2.6 Example response message 3
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRightResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d90</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollResponseData>
    <PSRightId>93641426</PSRightId>
    <AreaManagerId>1234</AreaManagerId>
   <Areald>ABCDEFGHIJ</Areald>
    <SellingPointId>39881</SellingPointId>
    <EndTimePSRightAdjusted>2009-12-10T18:00:00</EndTimePSRightAdjusted>
   <AmountPSRightCalculated>10.65/AmountPSRightCalculated>
   <VATPSRightCalculated>2.16</VATPSRightCalculated>
    <SpecifCalcAmountList>
     <SpecifCalcAmountData>
       <RegulationId>1</RegulationId>
                  <StartTimeApplied>2009-12-10T10:00:00</StartTimeApplied>
       <EndTimeApplied>2009-12-10T12:00:00</EndTimeApplied>
             <AmountFraction>1.65</AmountFraction>
        <VATAmountFraction>0.16</VATAmountFraction>
    </SpecifCalcAmountData>
    <SpecifCalcAmountData>
       <RegulationId>MIDDAGKRT</RegulationId>
                  <StartTimeApplied>2009-12-10T12:00:00</StartTimeApplied>
       <EndTimeApplied>2009-12-10T18:00:00</EndTimeApplied>
            <AmountFraction>9.00</AmountFraction>
       <VATAmountFraction>2.00</VATAmountFraction>
    </SpecifCalcAmountData>
   </SpecifCalcAmountList>
  </PSRightEnrollResponseData>
  </PSRightEnrollResponse>
 </s:Body>
</s:Envelope>
4.1.2.7 Example request message 4
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRight</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="http://rdw.nl/rpv/1.0">5678904321227673</h:PIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d91</a:MessageID>
  <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```
<PSRightEnrollRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollRequestData>
    <VehicleId>AB10CD</VehicleId>
    <CountryCodeVehicle>NL</CountryCodeVehicle>
    <SellingPointId>39881</SellingPointId>
    <UsageId>PKORT</UsageId>
    <StartTimePSright>2009-12-01T09:00:00</StartTimePSright>
    <EndTimePSright>2009-12-31T23:59:59</EndTimePSright>
    <AmountPSright>1.55</AmountPSright>
    <VATPSright>0.15</VATPSright>
    <ReferencePSright>ABCDE</ReferencePSright>
    <PSRightWindowList>
    <PSRightWindowData>
           <StartTimePSRightDayWindow>MAANDAG</StartTimePSrightDayWindow>
      <EndTimePSRightDayWindow>VRIJDAG</EndTimePSrightDayWindow>
      <StartTimePSRightWindow>900</StartTimePSRightWindow>
      <EndTimePSRightWindow>1800</EndTimePSRightWindow>
     </PSRightWindowData>
     <PSRightWindowData>
           <StartTimePSRightDayWindow>ZONDAG</StartTimePSrightDayWindow>
      <EndTimePSRightDayWindow>ZONDAG</EndTimePSrightDayWindow>
      <StartTimePSRightWindow>1200</StartTimePSRightWindow>
      <EndTimePSRightWindow>2400</EndTimePSRightWindow>
    </PSRightWindowData>
    </PSRightWindowList>
   </PSRightEnrollRequestData>
  </PSRightEnrollRequest>
 </s:Body>
</s:Envelope>
4.1.2.8 Example response message 4
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRightResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d91</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollResponseData>
    <PSRightId>93641427</PSRightId>
    <AreaManagerId>1234</AreaManagerId>
    <Areald>ABCDEFGHIJ</Areald>
    <SellingPointId>39881</SellingPointId>
   </PSRightEnrollResponseData>
  </PSRightEnrollResponse>
 </s:Body>
</s:Envelope>
4.1.2.9 Example request message 5
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRight</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="http://rdw.nl/rpv/1.0">5678904321227673</h:PIN>
<a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d92</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <PSRightEnrollRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollRequestData>
    <VehicleId>AB10CD</VehicleId>
```

```
<CountryCodeVehicle>NL</CountryCodeVehicle>
   <AreaManagerId>1234</AreaManagerId>
   <Areald>ABCDEFGHIJ</Areald>
   <UsageId>PLANG</UsageId>
   <StartTimePSright>2009-12-10T10:00:00</StartTimePSright>
   <EndTimePSright>2009-12-10T09:00:00</EndTimePSright>
   <AmountPSright>1.55</AmountPSright>
   <VATPSright>0.15</VATPSright>
   <ReferencePSright>ABCDE</ReferencePSright>
   </PSRightEnrollRequestData>
 </PSRightEnrollRequest>
</s:Body>
</s:Envelope>
4.1.2.10 Example response message 5
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d92</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightEnrollResponseError>
   <VehicleId>AB10CD</VehicleId>
   <CountryCodeVehicle>NL</CountryCodeVehicle>
   <AreaManagerId>1234</AreaManagerId>
   <Areald>ABCDEFGHIJ</Areald>
   <ErrorCode>103</ErrorCode>
   <ErrorDesc> Invalid parking duration</ErrorDesc>
   </PSRightEnrollResponseError>
 </PSRightEnrollResponse>
</s:Body>
</s:Envelope>
4.1.2.11 Example request message 6
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRight</a:Action>
 <h:PIN xmlns="http://rdw.nl/rpv/1.0"
  xmlns:h="http://rdw.nl/rpv/1.0">5678904321227673</h:PIN> <a:MessageID>urn:uuid:53d5046f-f8c4-422e-
a5ad-0ae640ab3d92</a:MessageID>
 <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
 </a:ReplyTo>
</s:Header>
 <s:Body xmlns:xsi=<u>http://www.w3.org/2001/XMLSchema-instance</u>
 xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <PSRightEnrollRequest>
    <PSRightEnrollRequestData>
      <VehicleId>123456</ns:VehicleId>
      <CountryCodeVehicle xsi:nil="true"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
      <AreaManagerId>9999</ns:AreaManagerId>
      <Areald>NEDERLAND</ns:Areald>
      <UsageId>GPKB</ns:UsageId>
      <StartTimePSright>2011-01-01T00:00:00Z</ns:StartTimePSright>
      <EndTimePSright>2015-12-31T23:59:00Z</ns:EndTimePSright>
      <ReferencePSRight>ABCDE</ns:ReferencePSRight>
     </PSRightEnrollRequestData>
```

```
</PSRightEnrollRequest>
</s:Body>
</s:Envelope>

4.1.2.12 Example response message 6
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
<a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/EnrollPSRightResponse</a:Action>
<a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d92</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
<PSRightEnrollResponse xmlns="http://rdw.nl/rpv/1.0">
<PSRightId>3798030000</PSRightId>
<AreaManagerId>9999</AreaManagerId>
```

4.2 RevokePSRight

</s:Body>

4.2.1 Message dialogue RevokePSRight

<Areald>NEDERLAND</Areald>
</PSRightEnrollResponseData>
</PSRightEnrollResponse>

A rights acquirer sends a request message **PSRightRevokeRequest** to NPR, containing the identification of a PS right, and a time at which the right should end. NPR sends a response message **PSRightRevokeResponse**, containing the message part **PSRightRevokeResponseData** if registration was successful. If not, the message contains the element **PSRightRevokeResponseError**.

The request message contains at least the following information:

☐ Identification of a PS right (PSRightId)

☐ EndTimePSRight

☐ UUID (MessageID)

The rights acquirer is identified by the OIN or PIN in his certificate. Each request message contains either the OIN or the PIN from the certificate.

The rights acquirer should be the same as the one that registered the PS Right.

If the right already has an end time, it is possible to shorten the duration of the right, but it is not possible to extend duration.

The response message contains:

Calculated price (AmountPSRightCalculated, VATPSRightCalculated), based on the regulation
imposed on the area by the area manager. A specification of the calculated price is added if the
calculation involved another regulation than the standard regulation, or when more than one
regulation was involved in the calculation. In these cases, the price is lower than the usual price
according to the standard regulation, because a rebate applies. Examples of rebate regulations
are day ticket, evening ticket etc.

NOTE 1: if NPR was not able to do a calculation, *AmountPSRightCalculated* and *VATPSRightCalculated* will be absent.

NOTE 2: A PSrightWindow is not taken in account in the calculation of AmountPSRightCalculated.

- ☐ Remarks (*PSRightRemarkList*), if applicable. For more information on remarks, see Appendix B...
- ☐ Adjusted end time (*EndTimePSRightAdjusted*).

An adjusted end time will be provided in the following cases:

- When a right can only be acquired for a limited duration (e.g. maximum parking time one hour).
- When it is possible to extend duration for the same PS right price.

An adjusted end time overrules the end time provided by the rights acquirer.

4.2.2 Example messages

The following example messages are given:

Requests

- 1. Standard request.
- 2. Standard request.
- 3. Erroneous request.
- 4. Standaard request for revoking a disabled person's parking card.

Replies

1. Response with an adjusted end time and a price calculation including specification.

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://rdw.nl/rpv/1.0">

- 2. Response with remarks and a standard price calculation, i.e. no specification.
- 3. Response when an error situation occurs.
- 4. Standard response for revoking a disabled person's parking card.

4.2.2.1 Example request message 1

```
<soapenv:Header>
 <ns:PIN>23423</ns:PIN>
 <ns:MessageID>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918</ns:MessageID>
</soapeny:Header>
<soapenv:Body>
 <ns:PSRightRevokeRequest>
   <ns:PSRightRevokeRequestData>
   <ns:PSRightId>1234</ns:PSRightId>
   <ns:EndTimePSRight>2009-12-10T14:52:00</ns:EndTimePSRight>
   </ns:PSRightRevokeRequestData>
 </ns:PSRightRevokeRequest>
 </soapenv:Body>
</soapenv:Envelope>
4.2.2.2 Example response message 1
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:a="http://www.w3.org/2005/08/addressing">
 <soapenv:Header>
   <ns:RelatesTo>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918
 </soapenv:Header>
 <soapenv:Body>
 <ns:PSRightRevokeResponse>
   <ns:PSRightRevokeResponseData>
   <ns:EndTimePSRightAdjusted>2009-12-10T18:00:00/ns:EndTimePSRightAdjusted>
   <ns:AmountPSRightCalculated>7.60</ns:AmountPSRightCalculated>
   <ns:VATPSRightCalculated>0.76</ns:VATPSRightCalculated>
   <ns:SpecifCalcAmountList>
     <ns:SpecifCalcAmountData>
       <ns:RegulationId>MIDDAGKRT</ns:RegulationId>
                  <ns:StartTimeApplied>2009-12-10T12:19:00
       <ns:EndTimeApplied>2009-12-10T18:00:00</ns:EndTimeApplied>
            <ns:AmountFraction>7.60</ns:AmountFraction>
       <ns:VATAmountFraction>0.76</ns:VATAmountFraction>
    </ns:SpecifCalcAmountData>
   </ns:SpecifCalcAmountList>
   </ns:PSRightRevokeResponseData>
```

</ns:PSRightRevokeResponse>

```
</soapenv:Body>
</soapenv:Envelope>
4.2.2.3 Example request message 2
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://rdw.nl/rpv/1.0">
<soapenv:Header>
 <ns:PIN>23423</ns:PIN>
 <ns:MessageID>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918</ns:MessageID>
</soapenv:Header>
<soapenv:Body>
 <ns:PSRightRevokeRequest>
  <ns:PSRightRevokeRequestData>
   <ns:PSRightId>1235</ns:PSRightId>
   <ns:EndTimePSRight>2009-12-10T14:52:00</ns:EndTimePSRight>
   </ns:PSRightRevokeRequestData>
 </ns:PSRightRevokeRequest>
 </soapenv:Body>
</soapenv:Envelope>
4.2.2.4 Example response message 2
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:a="http://www.w3.org/2005/08/addressing">
<soapenv:Header>
   <ns:RelatesTo>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918</ns:RelatesTo>
</soapenv:Header>
<soapenv:Body>
 <ns:PSRightRevokeResponse>
  <ns:PSRightRevokeResponseData>
   <ns:AmountPSRightCalculated>2.34/ns:AmountPSRightCalculated>
   <ns:VATPSRightCalculated>0.236</ns:VATPSRightCalculated>
   <ns:PSRightRemarkList>
    <ns:PSRightRemarkData>
     <ns:PSRightRemarkType>1</ns:PSRightRemarkType>
     <ns:StartTimeRemark>2009-12-10T10:00:00/ns:StartTimeRemark>
     <ns:EndTimeRemark>2009-12-10T11:00:00</ns:EndTimeRemark>
    </ns:PSRightRemarkData>
    <ns:PSRightRemarkData>
     <ns:PSRightRemarkType>1</ns:PSRightRemarkType>
     <ns:StartTimeRemark>2009-12-10T11:30:00</ns:StartTimeRemark>
     <ns:EndTimeRemark>2009-12-10T12:00:00</ns:EndTimeRemark>
    </ns:PSRightRemarkData>
   </ns:PSRightRemarkList>
   </ns:PSRightRevokeResponseData>
 </ns:PSRightRevokeResponse>
 </soapenv:Body>
</soapenv:Envelope>
4.2.2.5 Example request message 3
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://rdw.nl/rpv/1.0">
 <soapenv:Header>
 <ns:PIN>23423</ns:PIN>
 <ns:MessageID>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918</ns:MessageID>
</soapenv:Header>
 <soapenv:Body>
 <ns:PSRightRevokeRequest>
   <ns:PSRightRevokeRequestData>
   <ns:PSRightId>9999</ns:PSRightId>
   <ns:EndTimePSRight>2009-12-10T14:52:00</ns:EndTimePSRight>
   </ns:PSRightRevokeRequestData>
 </ns:PSRightRevokeRequest>
```

</soapenv:Body>

```
</soapenv:Envelope>
4.2.2.6 Example response message 3
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RevokePSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f920</a:RelatesTo>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightRevokeResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightRevokeResponseError>
   <PSRightId>9999</PSRightId>
   <EndTimePSRight>2009-12-10T14:52:00</EndTimePSRight>
   <ErrorCode>110</ErrorCode>
   <ErrorDesc>PS right not found</ErrorDesc>
   </PSRightRevokeResponseError>
 </PSRightRevokeResponse>
 </s:Body>
</s:Envelope>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:a="http://www.w3.org/2005/08/addressing">
 <soapenv:Header>
   <ns:RelatesTo>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918</ns:RelatesTo>
</soapenv:Header>
<soapenv:Body>
 <ns:PSRightRevokeResponse>
   <ns:PSRightRevokeResponseError>
   <ns:PSRightId>9999</ns:PSRightId>
   <ns:EndTimePSRight>2009-12-10T14:52:00</ns:EndTimePSRight>
   <ns:ErrorCode>110</ns:ErrorCode>
   <ns:ErrorDesc>PS right not found</ns:ErrorDesc>
   </ns:PSRightRevokeResponseError>
 </ns:PSRightRevokeResponse>
 </soapenv:Body>
</soapenv:Envelope>
4.2.2.7 Example request message 4
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns="http://rdw.nl/rpv/1.0">
 <soapenv:Header>
 <ns:PIN>23423</ns:PIN>
 <ns:MessageID>urn:uuid:64bc725c-2a72-4410-b7ba-bab7d734f918
 </soapenv:Header>
 <soapenv:Body>
  <ns:PSRightRevokeRequest>
    <ns:PSRightRevokeRequestData>
     <ns:PSRightId>3798030000</ns:PSRightId>
     <ns:EndTimePSRight>2012-12-31T23:59:00Z</ns:EndTimePSRight>
    </ns:PSRightRevokeRequestData>
   </ns:PSRightRevokeRequest>
 </soapenv:Body>
</soapenv:Envelope>
4.2.2.8 Example response message 4
```

</PSRightRevokeResponse>
</s:Body>
</s:Envelope>

5 Messages to be used by enforcers

5.1 CheckPSRight

5.1.1 Message dialogue CheckPSRight

A checking organisation sends a request message **PSRightCheckRequest**. NPR responds with a message **PSRightCheckResponse**, containing the message part **PSRightCheckResponseData** if the message was processed succesfully. If not, the message contains the element **PSRightCheckResponseError**.

The request message contains at least the following information:

☐ Identification of an area. The way to specify an area should be one of the following:

- 1. AreaManagerId and AreaId.
- 2. A location (CheckLocation), consisting of a Latitude and Longitude in WGS84 format.
- 3. An address (*CheckAddress*), consisting of *StreetCode* or *StreetName*, *HouseNumber*, *HouseNumberAdditions* and *PlaceOfResidence*.

If more than one identification is provided, NPR will use the list above to determine priority, e.g. if *AreaManagerId/AreaId + CheckLocation* are provided, the combination *AreaManager/AreaId* will be used to specify the area, and the location will be omitted. If *StreetCode* and *StreetName* are both provided, NPR will use *StreetCode* and omit *StreetName*.

If the identification provided does not match any of the supported methods, NPR will return an error message and no information will be given.

Usage that is checked (UsageId)
Identification of a vehicle (VehicleId)
CheckTime
ExtraInfoIndicator. If this indicator is set to "N" (no), the checking organisation wants a response
that consists of a CheckAnswer only. If this indicator is set to "Y" (yes), a response is given that
consists of a CheckAnswer with additional information when available.
UUID (MessageID)

Instead of a vehicle id a disabled persons's parking card id can be provided in the request message (*VehicleId*). Note that when a disabled person's parking card is used as a vehicle id the area manager is always The Netherlands (area manager id is '9999') and the area is always The Netherlands (area id is 'NEDERLAND')! The value of the usage in this situation reflects the type of disabled person's parking card used to register a parking right: A card for a disabled driver, a card for a disabled passenger or a card for an institution.

The checking organisation is identified by the OIN or PIN in its certificate. Each request message contains either the OIN or the PIN from the certificate.

The checking organisation should be authorised to check for PS rights in the provided area, if not, NPR will send an error message and no information is given.

To check for PSRights properly, NPR needs to know the area that is checked and the area manager to which the area belongs.

When an area is specified through *AreaManagerId/AreaId*, these data are known immediately. When an area is specified through a *CheckLocation*, NPR collects the areas containing the specified location.

When an area is specified through a *CheckAddress*, the location of the address is determined, and the resulting CheckLocation is used to determine the areas to consider.

All areas with a usage either matching the specified usage, or with a usage that is more specific than the specified usage, will be considered in the check for PSRights.

If the area determination results in "no area found", NPR will return an error message and no information will be given.

NPR will try to determine the location of the nearest address and return this in the response message (*CheckAddress*), unless an address is specified in the request message.

NPR checks for the presence of a PSRight as well as the necessity of a PSRight (during periods when no paid parking regulation applies, it is not required that a PSRight is present). In the check, all rights that might be valid at the specified area on *CheckTime*, are taken into account, i.e. also rights issued for other areas than the specified area. Furthermore, grace periods (both before and after) that apply for the specified area, are taken into account, but are applied based on the area where a right is acquired (i.e. the area where a right is acquired determines the applied grace period, also when a right is checked in a different area with a different grace period).

The check results in a *CheckAnswer*, which is contained in the response message. The following *CheckAnswers* are possible:

'Y'(es), meaning that either a PSRight was found that is valid in the specified area at *CheckTime*, or at *CheckTime* no PSRight is required for the specified area.

'N'(o), meaning that no PSRight was found that is valid in the specified area at *CheckTime*, while at *CheckTime* the presence of a valid PSRight is required.

Together with CheckAnswer, the list of areas that have been considered, is returned. This is not done when the area was specifically denoted in the request message.

If the ExtraInfoIndicator was set to "Y" in the request, NPR will provide extra information, which is: In case of CheckAnswer = "Y"

o Information about the PSRight that was found, or a message that a PSRight is not required.

In case of CheckAnswer = "N"

- Information about PSRights found in other areas of the same area manager code and the same UsageId (Note: a checking organisation receives only information about areas where the organisation is authorised to check).
- Information about PSRights found in the area provided, before and after check time, within a time frame of 24 hours.

Every check for PS rights is logged in NPR. The logging consists of the data provided in the request message *PSRightCheckRequest*, and the *CheckAnswer* (Y or N) that NPR has given.

5.1.2 Example messages

The following example messages are given:

Requests

- 1. Area defined by AreaManager/Areald. Minimum request, ExtraInfoIndicator = 'N'
- 2. Area defined by CheckLocation³. Maximum request. ExtraInfoIndicator = 'Y'.
- 3. Area defined by AreaManager/Areald. Maximum request. ExtraInfoIndicator = 'Y'
- 4. Area defined by CheckAddress. Maximum request. ExtraInfoIndicator = 'Y'
- 5. Erroneous request.
- 6. Checking the validity of a disabled person's parking card. The parking card id is provided as *VehicleId*. Defined *AreaManager/AreaId* is The Netherlands. *ExtraInfoIndicator* = 'Y'.

Replies

1. Minimum response.

³ The location used in the example is the Artis Zoo in Amsterdam.

- 2. Response CheckAnswer ='Y', including extra info about the found PSRight.
- 3. Response CheckAnswer = 'N', however, several PSRights found in other areas than the specified area.
- 4. Response CheckAnswer = 'Y', when a PSRight is not required.
- 5. Response when an error situation occurs.
- 6. Response CheckAnswer = 'Y' for checking the validity of a disabled person's parking card.

5.1.2.1 Request message 1

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://schemas.xmlsoap.org/soap/envelope/">
 <soapenv:Header>
 <ns:PIN>5678902276734</ns:PIN>
 <ns:MessageID>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445a</ns:MessageID>
</soapenv:Header>
 <soapenv:Body>
 <PSRightCheckRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckRequestData>
   <AreaManagerId>1234</AreaManagerId>
   <Areald>ABCDEFGHIJ</Areald>
   <UsageId>BETAALDP</UsageId>
   <VehicleId>AB01CD</VehicleId>
   <CheckTime>2009-12-10T14:42:00</CheckTime>
   <ExtraInfoIndicator>N</ExtraInfoIndicator>
   </PSRightCheckRequestData>
 </PSRightCheckRequest>
 </soapenv:Body>
</soapenv:Envelope>
5.1.2.2 Response message 1
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IEnforcement/CheckPSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445a</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightCheckResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckResponseData>
   <CheckAnswer>Y</CheckAnswer>
   </PSRightCheckResponseData>
 </PSRightCheckResponse>
</s:Body>
</s:Envelope>
5.1.2.3 Request message 2
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Header>
 <ns:PIN>5678902276734</ns:PIN>
 <ns:MessageID>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445a/ns:MessageID>
 </soapenv:Header>
<soapenv:Body>
 <PSRightCheckRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckRequestData>
   <CheckLocation>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
   </CheckLocation>
   <UsageId> BEWVERG</UsageId>
```

<VehicleId>AB01CD</VehicleId>

<CountryCodeVehicle>PL</CountryCodeVehicle>

```
<CheckTime>2009-12-10T14:42:00</CheckTime>
   <ReferenceCheckOrg>ABC</ReferenceCheckOrg>
   <ExtraInfoIndicator>Y</ExtraInfoIndicator>
   </PSRightCheckRequestData>
 </PSRightCheckRequest>
 </soapenv:Body>
</soapenv:Envelope>
5.1.2.4 Response message 2
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IEnforcement/CheckPSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445b</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightCheckResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckResponseData>
   <CheckAnswer>Y</CheckAnswer>
   <CheckAddress>
   <StreetCode>00002</StreetCode>
    <StreetName>Parkmerenstraat twee</StreetName>
    <HouseNumber>2</HouseNumber>
    <PlaceOfResidence>PARKMEREN-CENTRUM</PlaceOfResidence>
   </CheckAddress>
   <AreaManagerId>1234</AreaManagerId>
   <AreaTable>
     <AreaData>
     <Areald>393</Areald>
    </AreaData>
    <AreaData>
     <Areald>CENTRUM-ZO</Areald>
    </AreaData>
    <Areaata>
     <Areald>HELESTAD</Areald>
    </AreaData>
   <AreaTable>
   <PSRightCheckPSRightDataList>
     <PSRightCheckPSRightData>
     <PSRightId>7499160</PSRightId>
     <Areald>ABCDEFGHIJ</Areald>
     <AreaDesc>Centrum 1</AreaDesc>
     <StartTimePSRight>2009-07-01T08:00:00</StartTimePSRight>
     <EndTimePSRight>2009-12-31T23:59:59</EndTimePSRight>
     <ReferencePSRight>ABC</ReferencePSRight>
     <PSRightIndicator>Y</PSRightIndicator>
     <UsageId>BEWVERG</UsageId>
     <UsageDesc>Bewonersvergunning</UsageDesc>
     <RegulationDesc>Bewonersvergunning Centrum-3</RegulationDesc>
     <GracePeriodBefore>0</GracePeriodBefore>
     <GracePeriodAfter>0</GracePeriodAfter>
    </PSRightCheckPSRightData>
   </PSRightCheckPSRightDataList>
   </PSRightCheckResponseData>
 </PSRightCheckResponse>
 </s:Body>
</s:Envelope>
5.1.2.5 Request message 3
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://schemas.xmlsoap.org/soap/envelope/">
```

<ns:PIN>5678902276734</ns:PIN>

<soapenv:Header>

```
<ns:MessageID>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445a
</soapenv:Header>
<soapenv:Body>
 <PSRightCheckRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckRequestData>
   <AreaManagerId>1234</AreaManagerId>
   <Areald>ABCDEFGHIJ</Areald>
   <UsageId>BETAALDP</UsageId>
   <VehicleId>AB01CD</VehicleId>
   <CountryCodeVehicle>PL</CountryCodeVehicle>
   <CheckTime>2009-12-10T14:42:00</CheckTime>
   <ReferenceCheckOrg>ABC</ReferenceCheckOrg>
   <ExtraInfoIndicator>Y</ExtraInfoIndicator>
   </PSRightCheckRequestData>
 </PSRightCheckRequest>
 </soapenv:Body>
</soapenv:Envelope>
5.1.2.6 Response message 3
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IEnforcement/CheckPSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445c</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightCheckResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckResponseData>
   <CheckAnswer>N</CheckAnswer>
   <CheckAddress>
    <StreetCode>00002</StreetCode>
    <StreetName>Parkmerenstraat twee</StreetName>
    <HouseNumber>2</HouseNumber>
    <PlaceOfResidence>PARKMEREN-CENTRUM</PlaceOfResidence>
   </CheckAddress>
   <PSRightCheckPSRightDataList>
    <PSRightCheckPSRightData>
     <PSRightId>7499160</PSRightId>
     <Areald>ABCDEFGHIJ</Areald>
     <AreaDesc>Centrum 1</AreaDesc>
     <StartTimePSRight>2009-12-10T13:00:00</StartTimePSRight>
     <EndTimePSRight>2009-12-10T15:00:00</EndTimePSRight>
     <EndTimePSRightAdjusted>2009-12-10T14:00:00</EndTimePSRightAdjusted>
     <ReferencePSRight>ABC</ReferencePSRight>
     <PSRightIndicator>Y</PSRightIndicator>
     <SellingPointId>1234567890</SellingPointId>
     <UsageId>INCPARK</UsageId>
     <usageDesc>Incidenteel Parkeren</usageDesc>
     <RegulationDesc>Centrum Zuid 1</RegulationDesc>
     <GracePeriodBefore>12</GracePeriodBefore>
     <GracePeriodAfter>9</GracePeriodAfter>
     <AmountRatePart>0.234</AmountRatePart>
     <StepSizeFarePart>1</StepSizeFarePart>
     </PSRightCheckPSRightData>
     <PSRightCheckPSRightData>
     <PSRightId>7499161</PSRightId>
     <AreaManagerId>1234</AreaManagerId>
     <Areald>KLM</Areald>
     <StartTimePSRight>2009-07-01T00:00:00</StartTimePSRight>
     <EndTimePSRight>2009-12-31T23:59:00</EndTimePSRight>
     <PSRightWindowList>
      <PSRightWindowData>
             <StartTimePSRightDayWindow>MAANDAG</StartTimePSrightDayWindow>
```

```
<EndTimePSRightDayWindow>VRIJDAG</EndTimePSrightDayWindow>
       <StartTimePSRightWindow>900</StartTimePSRightWindow>
       <EndTimePSRightWindow>1800</EndTimePSRightWindow>
       </PSRightWindowData>
       <PSRightWindowData>
             <StartTimePSRightDayWindow>ZONDAG</StartTimePSrightDayWindow>
       <EndTimePSRightDayWindow>ZONDAG</EndTimePSrightDayWindow>
       <StartTimePSRightWindow>1200</StartTimePSRightWindow>
       <EndTimePSRightWindow>2400</EndTimePSRightWindow>
      </PSRightWindowData>
      </PSRightWindowList>
      <ReferencePSRight>ABC</ReferencePSRight>
      <PSRightIndicator>Y</PSRightIndicator>
     <UsageId>BEWVERG</UsageId>
     <us>UsageDesc>Bewonersvergunning</UsageDesc>
     <RegulationDesc>Vergunning Woon-Werk Centrum</RegulationDesc>
     <GracePeriodBefore>12</GracePeriodBefore>
     <GracePeriodAfter>9</GracePeriodAfter>
     </PSRightCheckPSRightData>
     <PSRightCheckPSRightData>
     <PSRightId>7499162</PSRightId>
     <AreaManagerId>1234</AreaManagerId>
      <Areald>NOP</Areald>
     <AreaDesc>Stationskwartier</AreaDesc>
     <StartTimePSRight>2009-12-10T12:00:00</StartTimePSRight>
     <ReferencePSRight>ABC</ReferencePSRight>
     <PSRightIndicator>Y</PSRightIndicator>
     <SellingPointId>1234567890</SellingPointId>
     <UsageId>INCPARK</UsageId>
     <usageDesc>Incidenteel Parkeren</usageDesc>
     <RegulationDesc>Centrum 1</RegulationDesc>
     <GracePeriodBefore>12</GracePeriodBefore>
     <GracePeriodAfter>9</GracePeriodAfter>
     <AmountRatePart>4.68</AmountRatePart>
     <StepSizeFarePart>60</StepSizeFarePart>
     </PSRightCheckPSRightData>
   </PSRightCheckPSRightDataList>
   </PSRightCheckResponseData>
 </PSRightCheckResponse>
 </s:Body>
</s:Envelope>
5.1.2.7 Request message 4
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"</pre>
xmlns:ns="http://schemas.xmlsoap.org/soap/envelope/">
 <soapenv:Header>
 <ns:PIN>5678902276734</ns:PIN>
 <ns:MessageID>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445a</ns:MessageID>
 </soapenv:Header>
 <soapenv:Body>
 <PSRightCheckRequest xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckRequestData>
   <CheckAddress>
     <StreetCode>12345</StreetCode>
     <StreetName>Stadionweg</StreetName>
     <HouseNumber>192</HouseNumber>
     <HouseNumberAdditions>bis</HouseNumberAdditions>
     <PlaceOfResidence>Amsterdam</PlaceOfResidence>
    </CheckAddress>
   <UsageId>BETAALDP</UsageId>
   <VehicleId>AB01CD</VehicleId>
   <CountryCodeVehicle>ABC</CountryCodeVehicle>
```

```
<CheckTime>2009-12-10T23:42:00</CheckTime>
   <ReferenceCheckOrg>ABC</ReferenceCheckOrg>
   <ExtraInfoIndicator>Y</ExtraInfoIndicator>
   </PSRightCheckRequestData>
 </PSRightCheckRequest>
 </soapenv:Body>
</soapenv:Envelope>
5.1.2.8 Response message 4
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IEnforcement/CheckPSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445b</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightCheckResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckResponseData>
   <CheckAnswer>Y</CheckAnswer>
   <CheckAddress>
     <StreetCode>12345</StreetCode>
     <StreetName>Stadionweg</StreetName>
     <HouseNumber>192</HouseNumber>
     <HouseNumberAdditions>bis</HouseNumberAdditions>
     <PlaceOfResidence>Amsterdam</PlaceOfResidence>
   </CheckAddress>
   <AreaTable>
     <AreaListData>
     <Areald>394</Areald>
    </AreaData>
    <AreaData>
     <Areald>OUD-ZUID-3</Areald>
    </AreaData>
    <AreaData>
     <Areald>HELESTAD</Areald>
    </AreaData>
   <AreaTable>
   <PSRightCheckPSRightDataList>
    <PSRightCheckPSRightData>
     <InfoMessageCode>1</InfoMessageCode>
     <InfoMessageDesc>PSRight not required</InfoMessageDesc>
    </PSRightCheckPSRightData>
   </PSRightCheckPSRightDataList>
  </PSRightCheckResponseData>
 </PSRightCheckResponse>
</s:Body>
</s:Envelope>
5.1.2.9 Request message 5
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Header>
 <ns:PIN>5678902276734</ns:PIN>
 <ns:MessageID>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445a
</soapenv:Header>
<soapenv:Body>
 <PSRightCheckRequest xmlns="http://rdw.nl/rpv/1.0">
  <PSRightCheckRequestData>
   <CheckAddress>
     <StreetName>Stadionweg</StreetName>
     <HouseNumber>192</HouseNumber>
     <HouseNumberAdditions>bis</HouseNumberAdditions>
```

<PlaceOfResidence>Amsterdam</PlaceOfResidence>

```
</CheckAddress>
   <UsageId>BETAALDP</UsageId>
   <VehicleId>AB01CD</VehicleId>
   <CountryCodeVehicle>ABC</CountryCodeVehicle>
   <CheckTime>2009-12-10T14:42:00</CheckTime>
   <ReferenceCheckOrg>DEF</ReferenceCheckOrg>
   <ExtraInfoIndicator>Y</ExtraInfoIndicator>
   </PSRightCheckRequestData>
 </PSRightCheckRequest>
 </soapenv:Body>
</soapenv:Envelope>
5.1.2.10 Response message 5
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IEnforcement/CheckPSRightResponse</a:Action>
 <a:RelatesTo>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445e</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <PSRightCheckResponse xmlns="http://rdw.nl/rpv/1.0">
   <PSRightCheckResponseError>
   <VehicleId>AB01CD</VehicleId>
   <CountryCodeCheck>ABC</CountryCodeCheck>
   <CheckTime>2009-12-10T14:42:00</CheckTime>
   <ReferenceCheckOrg>DEF</ReferenceCheckOrg>
   <CheckAddress>
     <StreetName>Stadionweg</StreetName>
     <HouseNumber>192</HouseNumber>
     <HouseNumberAdditions>bis</HouseNumberAdditions>
     <PlaceOfResidence>Amsterdam</PlaceOfResidence>
   </CheckAddress>
   <ExtraInfoIndicator>Y</ExtraInfoIndicator>
   <ErrorCode>102</ErrorCode>
   <ErrorDesc>No Authorisation</ErrorDesc>
   </PSRightCheckResponseError>
 </PSRightCheckResponse>
</s:Body>
</s:Envelope>
5.1.2.11 Request message 6
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns="http://rdw.nl/rpv/1.0">
 <soapenv:Header>
   <ns:PIN>56789043212276734987</ns:PIN>
 </soapenv:Header>
 <soapenv:Body>
   <ns:PSRightCheckRequest>
    <ns:PSRightCheckRequestData>
      <ns:AreaManagerId>9999</ns:AreaManagerId>
      <ns:Areald>NEDERLAND</ns:Areald>
      <ns:UsageId>GPK</ns:UsageId>
      <ns:VehicleId>123456</ns:VehicleId>
      <ns:CheckTime>2011-01-05T17:00:00Z</ns:CheckTime>
      <ns:ReferenceCheckOrg>Parkmeren GPKB 123456</ns:ReferenceCheckOrg>
      <ns:ExtraInfoIndicator>Y</ns:ExtraInfoIndicator>
    </ns:PSRightCheckRequestData>
   </ns:PSRightCheckRequest>
 </soapenv:Body>
</soapenv:Envelope>
```

5.1.2.12 Response message 6

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IEnforcement/CheckPSRightResponse</a:Action>
  <a:RelatesTo>urn:uuid:e6638c6e-bf27-4acd-a689-60aaee83445e</a:RelatesTo>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <PSRightCheckResponse xmlns="http://rdw.nl/rpv/1.0">
    <PSRightCheckResponseData>
      <CheckAnswer>Y</CheckAnswer>
      <AreaTable>
       <AreaData>
        <Areald>NEDERLAND</Areald>
       </AreaData>
      </AreaTable>
      <PSRightCheckPSRightList>
       <PSRightCheckPSRightData>
        <PSRightId>3963960000</PSRightId>
        <Areald>NEDERLAND</Areald>
        <AreaDesc>Nederland</AreaDesc>
        <StartTimePSRight>2011-01-01T00:00:00Z</StartTimePSRight>
        <EndTimePSRight>2015-12-31T23:59:00Z</EndTimePSRight>
        <ReferencePSRight>ABCDE</ReferencePSRight>
        <PSRightIndicator>Y</PSRightIndicator>
        <UsageId>GPKB</UsageId>
        <use><UsageDesc>B (Bestuurderskaart)</UsageDesc></use>
         <RegulationDesc>Nultarief</RegulationDesc>
       </PSRightCheckPSRightData>
      </PSRightCheckPSRightList>
    </PSRightCheckResponseData>
  </PSRightCheckResponse>
 </s:Body>
</s:Envelope>
```

6 Messages to be used by area managers

6.1 RetrieveRightInfo

6.1.1 Message dialogue RetrieveRightInfo

This message can be used to retrieve the rights that were present for a certain vehicle around a certain date-time. Example of usage: in cases of parking tax additional assessments, or objections to additional assessments.

The area manager sends a request message **RetrieveRightInfo**. NPR responds with a message **RetrieveRightInfoResponse**.

	area manager for which information is retrieved, is identified by the OIN or PIN in its certificate. request message contains either the OIN or the PIN from the certificate.
☐ Id (P ☐ In	request message contains the following information: entification of a vehicle or disabled person's parking card (VehicleId) or identification of a right PSRightId) dicatorTime (optional) UID (MessageID)
	is version of the NPR interface the request message has the following change: ndicator time (<i>IndicatorTime</i>) is optional because it only has to be provided in combination with a vehicle identification or a disabled person's parking card identification (<i>VehicleId</i>).
reque conce disab '9999	nicle id or a disabled persons's parking card id can both be provided as a vehicle id in the est message (<i>VehicleId</i>). A disabled person's parking card id can be provided to retrieve the data erning validity of a disabled person's parking card on a specific moment (<i>IndicatorTime</i>). If a oled person's parking card is used the area manager is 'The Netherlands' (area manager id is 9') and the area is always 'The Netherlands' (area id is 'NEDERLAND'.
indic	when retrieving rights with a vehicle id (VehicleId) or a disabled person's parking card id the ator time (IndicatorTime) must be provided. Not when retrieving rights with an identification of nt (PSRightId).
were	he specified area manager, the information of all rights registered in NPR for the vehicle, that started or stopped within 24 hrs. around the IndicatorTime, are returned or all information erning a specified right are returned. If no rights were found, the response consists of an empty sage.
	response message contains the following information: dentification of a vehicle or disabled person's parking card (VehicleId) Fime period for selecting rights to be retrieved (IndicatorTime) Start time and date when a parking or staying right has started (StartTimePSRight) End time and date when a parking or staying right has ended (EndTimePSRight) Adjusted end time and date when a parking or staying right has ended EndTimePSRightAdjusted) dentification of an acquirer (PSRightAcquirerCode) Description of an acquirer (PSRightAcquirerDesc) dentification of an areamanager (AreaManagerId) Description of an areamanageer (AreaManagerDesc) dentification of an area (AreaId)

	Description of an area (AreaDesc)
	Identification of an usage (UsageId)
	Description of an usage (UsageDesc)
In this version of the NPR interface the response message has the following additions:	
	Identification of a right (PSRightId)
	Time and date of registration when a right has been entered in NPR (RegistrationTimePSRight)
	Time and date of registration when a right has been stopped in NPR
	(RegistrationEndTimePSRight)
	Geographical position which was provided with the registration of a right (LocationPSRight)
	The price for a parking right as determined by the provider (AmountPSRight)
	The value added tax (V.A.T.) of the price for a parking right as determined by the provider
	(VATPSRight)
	The price for a parking right as determined on basis of the data in NPR
	(AmountPSRightCalculated)
	The value added tax (V.A.T.) of the price for a parking right as determined on basis of the data in
	NPR (VATPSRightCalculated)
	The price for a parking right as recalculated on basis of the data in NPR
	(AmountPSRightRecalculated)
	The value added tax (V.A.T.) of the price for a parking right as recalculated on basis of the data in
	NPR (VATPSRightRecalculated)
	Time and date when for the last time the price and V.A.T. of a parking right were recalculated
	(TimeRecalculation)

6.1.2 Example messages

The following example messages are given:

Requests

- 1. Standard request with vehicle id
- 2. Standard request with right id

Replies

- 1. Standard response
- 2. Standard response

6.1.2.1 Request message 1

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RetrieveRightInfo</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">00100010</h:OIN>
  <a:MessageID>urn:uuid:1b7a4676-8922-4466-8b1d-00fb34b7a6f4</a:MessageID>
  <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveRightInfoRequest xmlns="http://rdw.nl/rpv/1.0">
  <RightInfoRequestData>
   <VehicleId>HDV182</VehicleId>
   <IndicatorTime>2010-02-10T13:05:00</IndicatorTime>
  </RightInfoRequestData>
  </RetrieveRightInfoRequest>
</s:Body>
</s:Envelope>
```

6.1.2.2 Response message 1

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">

```
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RetrieveRightInfoResponse</a:Action>
 <a:RelatesTo>urn:uuid:25f3fe82-686f-43f7-a9b9-3d5463bc7733</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <RetrieveRightInfoResponse xmlns="http://rdw.nl/rpv/1.0">
  <PSRightInfoResponseData>
   <VehicleId>HDV182</VehicleId>
   <IndicatorTime>2010-02-10T13:05:00</IndicatorTime>
   <PSRightInfoList>
    <PSRightInfoData>
     <PSRightId>62910000</PSRightId>
     <StartTimePSRight>2010-02-10T08:00:00</StartTimePSRight>
     <EndTimePSRight>2010-02-10T18:00:00</EndTimePSRight>
     <EndTimePSRightAdjusted>2010-02-10T09:00:00</EndTimePSRightAdjusted>
     <PSRightAcquirerCode>10</PSRightAcquirerCode>
     <PSRightAcquirerDesc>RechtsVerwerverIntermediair-1</PSRightAcquirerDesc>
     <AreaManagerId>22</AreaManagerId>
     <AreaManagerDesc>Gemeente Leek</AreaManagerDesc>
     <Areald>P1</Areald>
     <AreaDesc>Parkeren centrum</AreaDesc>
     <UsageId>BETAALDP</UsageId>
     <us>UsageDesc>Parkeren</usageDesc>
     <RegistrationTimePSRight>2010-02-10T11:13:05Z</RegistrationTimePSRight>
     <RegistrationEndTimePSRight>2010-02-10T14:13:05Z
     </RegistrationEndTimePSRight>
     <LocationPSRight>
      <Latitude>52.949149</Latitude>
      <Longitude>2.866052</Longitude>
     </LocationPSRight>
     <AmountPSRight>1.00</AmountPSRight>
     <VATPSRight>0.19</VATPSRight>
     <AmountPSRightCalculated>5.00/AmountPSRightCalculated>
     <VATPSRightCalculated>0.21</VATPSRightCalculated>
     <AmountPSRightRecalculated>0.00/AmountPSRightRecalculated>
     <VATPSRightRecalculated>0.00</VATPSRightRecalculated>
     <TimeRecalculation>2012-05-16T14:14:05Z</TimeRecalculation>
    </PSRightInfoData>
    <PSRightInfoData>
     <PSRightId>42130200</PSRightId>
     <StartTimePSRight>2010-01-01T00:00:00</StartTimePSRight>
     <EndTimePSRight>2010-12-31T23:59:00</EndTimePSRight>
     <PSRightWindowList>
      <PSRightWindowData>
            <StartTimePSRightDayWindow>MAANDAG</StartTimePSrightDayWindow>
       <EndTimePSRightDayWindow>VRIJDAG</EndTimePSrightDayWindow>
       <StartTimePSRightWindow>900</StartTimePSRightWindow>
       <EndTimePSRightWindow>1800</EndTimePSRightWindow>
      </PSRightWindowData>
      <PSRightWindowData>
            <StartTimePSRightDayWindow>ZONDAG</StartTimePSrightDayWindow>
       <EndTimePSRightDayWindow>ZONDAG</EndTimePSrightDayWindow>
       <StartTimePSRightWindow>1200</StartTimePSRightWindow>
       <EndTimePSRightWindow>2400</EndTimePSRightWindow>
      </PSRightWindowData>
     </PSRightWindowList>
     <PSRightAcquirerCode>10</PSRightAcquirerCode>
     <PSRightAcquirerDesc>RechtsVerwerverIntermediair-1</PSRightAcquirerDesc>
     <AreaManagerId>22</AreaManagerId>
     <AreaManagerDesc>Gemeente Leek</AreaManagerDesc>
     <Areald>V1</Areald>
     <AreaDesc>Overdag Leek-Nietap-Tolbert-Midwolde</AreaDesc>
     <UsageId>BETAALDP</UsageId>
```

```
<us><usageDesc>Parkeren</usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usageDesc></usage
            <RegistrationTimePSRight>2010-02-10T11:13:05Z</RegistrationTimePSRight>
          <RegistrationEndTimePSRight>2010-02-10T14:13:05Z
           </RegistrationEndTimePSRight>
           <LocationPSRight>
            <Latitude>52.949149</Latitude>
            <Longitude>2.866052</Longitude>
          </LocationPSRight>
          <AmountPSRight>1.00</AmountPSRight>
          <VATPSRight>0.19</VATPSRight>
          <AmountPSRightCalculated>5.00</AmountPSRightCalculated>
          <VATPSRightCalculated>0.21</VATPSRightCalculated>
          <AmountPSRightRecalculated>0.00/AmountPSRightRecalculated>
          <VATPSRightRecalculated>0.00</VATPSRightRecalculated>
          <TimeRecalculation>2012-05-16T14:14:05Z</TimeRecalculation>
         </PSRightInfoData>
       </PSRightInfoList>
     </PSRightInfoResponseData>
   </RetrieveRightInfoResponse>
 </s:Body>
</s:Envelope>
6.1.2.3 Request message 2
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
   <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RetrieveRightInfo</a:Action>
   <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">00100010</h:OIN>
   <a:MessageID>urn:uuid:1b7a4676-8922-4466-8b1d-00fb34b7a6f4</a:MessageID>
   <a:ReplyTo>
     <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
   </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <RetrieveRightInfoRequest xmlns="http://rdw.nl/rpv/1.0">
     <RightInfoRequestData>
       <PSRightId>60130000</PSRightId>
     </RightInfoRequestData>
   </RetrieveRightInfoRequest>
 </s:Body>
</s:Envelope>
6.1.2.4 Response message 2
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
 <s:Header>
   <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RetrieveRightInfoResponse</a:Action>
   <a:RelatesTo>urn:uuid:25f3fe82-686f-43f7-a9b9-3d5463bc7733</a:RelatesTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <RetrieveRightInfoResponse xmlns="http://rdw.nl/rpv/1.0">
      <PSRightInfoResponseData>
       <RightId>60130000</RightId>
              <PSRightInfoList>
        <PSRightInfoData>
          <PSRightId>60130000</PSRightId>
          <CountryCodeVehicle>NL</CountryCodeVehicle>
          <StartTimePSRight>2011-01-03T10:00:00Z</StartTimePSRight>
          <EndTimePSRight>2011-01-03T11:30:00Z</EndTimePSRight>
          <EndTimePSRightAdjusted>2011-01-03T11:30:00Z</EndTimePSRightAdjusted>
          <PSRightAcquirerCode>02701</PSRightAcquirerCode>
          <PSRightAcquirerDesc>Parkmeren ( RDW ITT 1)</PSRightAcquirerDesc>
          <AreaManagerId>2700</AreaManagerId>
          <AreaManagerDesc>Parkmeren (fictief, RDW ITT)/AreaManagerDesc>
```

```
<Areald>CENTRUM</Areald>
      <AreaDesc>Parkmeren Centrum</AreaDesc>
      <UsageId>BETAALDP</UsageId>
      <us>UsageDesc>BetaaldParkeren</usageDesc>
      <RegistrationTimePSRight>2012-05-16T14:13:05Z</RegistrationTimePSRight>
      <RegistrationEndTimePSRight>2012-05-16T14:13:05Z
      </RegistrationEndTimePSRight>
      <LocationPSRight>
       <Latitude>52.949149</Latitude>
       <Longitude>2.866052</Longitude>
      </LocationPSRight>
      <AmountPSRight>1.00</AmountPSRight>
      <VATPSRight>0.19</VATPSRight>
      <AmountPSRightCalculated>5.00/AmountPSRightCalculated>
      <VATPSRightCalculated>0.21</VATPSRightCalculated>
      <AmountPSRightRecalculated>0.00/AmountPSRightRecalculated>
      <VATPSRightRecalculated>0.00</VATPSRightRecalculated>
      <TimeRecalculation>2012-05-16T14:14:05Z</TimeRecalculation>
    </PSRightInfoData>
    </PSRightInfoList>
  </PSRightInfoResponseData>
  </RetrieveRightInfoResponse>
</s:Body>
</s:Envelope>
```

6.2 RetrieveCheckInfo

6.2.1 Message dialogue RetrieveCheckInfo

This message can be used to determine if a certain vehicle was checked around a certain time, and what check result was given by NPR.

Example of usage: in cases of parking tax additional assessments, or objections to additional assessments.

The area manager employee sends a request message **RetrieveCheckInfo**. NPR responds with a message **RetrieveCheckInfoResponse**.

The area manager for which information is retrieved, is identified by the OIN or PIN in its certificate. Each request message contains either the OIN or the PIN from the certificate.

The request message contains the following information:

☐ Identification of a vehicle (VehicleId)

☐ IndicatorTime

☐ UUID (MessageID)

For the specified area manager, information of all logged check answers registered in NPR for the vehicle or disabled person's parking card, with a reference date-time within 24 hrs. of IndicatorTime, are returned. If no check answers were found, the response consists of an empty message.

6.2.2 Example messages

The following example messages are given:

Requests

1. Standard request

Replies

1. Standard response

```
6.2.2.1 Request message
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RetrieveCheckInfo</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">00100010</h:OIN>
  <a:MessageID>urn:uuid:605dd0aa-f5e8-46c4-91e3-5e819060f825</a:MessageID>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveCheckInfoRequest xmlns="http://rdw.nl/rpv/1.0">
   <CheckInfoRequestData>
    <VehicleId>03VB32</VehicleId>
    <IndicatorTime>2010-03-01T13:05:00</IndicatorTime>
   </CheckInfoRequestData>
  </RetrieveCheckInfoRequest>
 </s:Body>
</s:Envelope>
6.2.2.2 Response message
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s·Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/RetrieveCheckInfoResponse</a:Action>
  <a:RelatesTo>urn:uuid:f23f70c1-f593-479b-b2a1-0cd1e1337bfc</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveCheckInfoResponse xmlns="http://rdw.nl/rpv/1.0">
   <CheckInfoResponseData>
    <VehicleId>03VB32</VehicleId>
    <AreaManagerId>22</AreaManagerId>
    <AreaManagerDesc>Gemeente Leek</AreaManagerDesc>
    <CheckInfoList>
    <CheckInfoData>
      <CountryCodeCheck>NL</CountryCodeCheck>
      <CheckTime>2010-03-01T12:00:00</CheckTime>
      <ExtraInfoIndicator>N</ExtraInfoIndicator>
      <ReferenceCheckOrg>X</ReferenceCheckOrg>
      <CheckAnswer>N</CheckAnswer>
      <CheckOrgCode>1</CheckOrgCode>
      <CheckOrgDesc>De 01 handhaver</CheckOrgDesc>
      <UsageId>BETAALDP</UsageId>
      <Areald>P1</Areald>
```

- <AreaDesc>Parkeren centrum</AreaDesc>
- </CheckInfoData>
- <CheckInfoData>
- <CheckTime>2010-03-01T17:00:00</CheckTime>
- <ExtraInfoIndicator>Y</ExtraInfoIndicator>
- <ReferenceCheckOrg>X</ReferenceCheckOrg>
- <CheckAnswer>Y</CheckAnswer>
- <CheckOrgCode>2</CheckOrgCode>
- <CheckOrgDesc>De Graaf voor al uw handhaaf/CheckOrgDesc>
- <CheckLocation>
 - <Latitude>52.36695</Latitude>
- <Longitude>4.91252</Longitude>
- </CheckLocation>
- </CheckInfoData>
- <CheckInfoData>
 - <CheckTime>2010-03-01T19:30:00</CheckTime>
 - <ExtraInfoIndicator>Y</ExtraInfoIndicator>
 - <ReferenceCheckOrg>X</ReferenceCheckOrg>
 - <CheckAnswer>N</CheckAnswer>

7 Messages to be used by all entities

7.1 CalculatePrice

7.1.1 Message dialogue CalculatePrice

An entity sends a request message *CalculatePriceRequest* to NPR, containing the data of a potential or fictional PS Right, to calculate its price. NPR sends a response message *CalculatePriceResponse*, containing the message part *CalculatePriceResponseData* if price calculation was successful. If not, the message contains the element *CalculatePriceResponseError*.

The request message contains the information necessary to calculate the price of a PSRight, that could be an actual PSRight (calculate before recording), a potential PS Right (price inquiry) or a hypothetical PSRight (e.g testing, what if?).

The following information is provided	in the	request r	message:
---------------------------------------	--------	-----------	----------

- ☐ Identification of an area. The way to specify an area should be one of the following:
 - 1. AreaManagerId and AreaId.
 - 2. A location (*PSRightLocation*), consisting of a *Latitude* and *Longitude* in WGS84 format.
 - 3. SellingPointId.

If more than one identification is provided, NPR will use the list above to determine priority, e.g. if *AreaManagerId/AreaId + PSRightLocation* are provided, the combination *AreaManager/AreaId* will be used to specify the area, and the location will be omitted. If the identification provided does not match any of the supported methods, the PSRight will not be recorded and the rights acquirer will receive an error message.

Usageld
StartTimePSRight
EndTimePSRight
UUID (MessageID

To be able to calculate the price of a PSRight properly, NPR needs to know the area and the area manager to which the area belongs.

When an area is specified through *AreaManagerId/AreaId*, these data are known immediately. When an area is specified through a location, NPR collects all areas containing the specified location, and the area corresponding with the specified usage will be selected as the area to calculate a price for

When an area is specified through a selling point, NPR collects all areas containing the specified selling point, and the area corresponding with the specified usage will be selected as the area to calculate a price for.

If the area determination results in "no area found" or "more than one area found", the rights acquirer will receive an error message.

If price calculation fails because of an internal system error (e.g. calculation parameters are set incorrectly), the rights acquirer will receive an error message.

If no error occurs, the response message sent by NPR contains
lacktriangle The area and area manager for which a calculation was done, unless this was already specified
the input (<i>AreaManagerld/Areald</i>)
☐ Calculated price (<i>AmountPSRightCalculated</i> , <i>VATPSRightCalculated</i>), based on the regulation
imposed on the area by the area manager.
☐ A specification of the calculated price is added if the calculation involved another regulation that
the standard regulation, or when more than one regulation was involved in the calculation. In
these cases, the price is lower than the usual price according to the standard regulation, because
a rebate applies. Examples of rebate regulations are day ticket, evening ticket etc.

☐ Adjusted end time (*EndTimePSRightAdjusted*).

NPR will provide an adjusted end time in two cases.

- When a right can only be acquired for a limited duration (e.g. maximum parking time one hour). In this case an adjusted end time will be given when no EndTimePSRight was provided, and also when an EndTimePSRight was provided that extends the maximum allowed duration.
- When the EndTimePSRight was provided in the request, and it is possible to extend duration for the same PS right price.

An adjusted end time overrules the end time provided by the rights acquirer.

7.1.2 Example messages

The following example messages are given:

Requests

- 1. Area identified by AreaManagerId/AreaId.
- 2. Area identified by Location⁴.
- 3. Area identified by SellingPointId.
- 4. Area identified by SellingPointId.
- 5. Erroneous request.

Replies

- 1. Response with standard price calculation, i.e. no specification.
- 2. Response with price calculation including specification.
- 3. Response with price calculation including specification, adjusted time.
- 4. Response when RPV can't calculate a price because the price parameters in RPV are set incorrectly.
- 5. Response when an error situation occurs.

7.1.2.1 Example request message 1

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
 <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePrice</a:Action>
 <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
 <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
 <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
 </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <CalculatePriceRequest xmlns="http://rdw.nl/rpv/1.0">
  <CalculatePriceRequestData>
   <StartTimePSright>2009-12-10T10:00:00</StartTimePSright>
   <EndTimePSright>2009-12-10T12:30:00</EndTimePSright>
   <AreaManagerId>1234</AreaManagerId>
   <Areald>ABCDEFGHIJ</Areald>
   <UsageId>BETAALDP</UsageId>
  </CalculatePriceRequestData>
 </CalculatePriceRequest>
```

7.1.2.2 Example response message 1

</s:Bodv> </s:Envelope>

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing"> <s:Header>

⁴ The location used in the example is the Artis Zoo in Amsterdam.

```
<a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePriceResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
 </s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <CalculatePriceResponse xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceResponseData>
    <AmountPSRightCalculated>10.65/AmountPSRightCalculated>
    <VATPSRightCalculated>0.00</VATPSRightCalculated>
   </CalculatePriceResponseData>
  </CalculatePriceResponse>
 </s:Body>
</s:Envelope>
7.1.2.3 Example request message 2
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePrice</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:PIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d89</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceRequest xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceRequestData>
    <StartTimePSright>2009-12-10T10:00:00</StartTimePSright>
    <EndTimePSright>2009-12-10T23:59:00</EndTimePSright>
    <LocationPSRight>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </LocationPSRight>
   <UsageId>PLANG</UsageId>
   </CalculatePriceRequestData>
  </CalculatePriceRequest>
 </s:Bodv>
</s:Envelope>
7.1.2.4 Example response message 2
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePriceResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceResponse xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceResponseData>
    <AreaManagerId>1234</AreaManagerId>
    <Areald>ABCDEFGHIJ</Areald>
    <AmountPSRightCalculated>22.50/AmountPSRightCalculated>
    <VATPSRightCalculated>2.50</VATPSRightCalculated>
    <SpecifCalcAmountList>
     <SpecifCalcAmountData>
       <RegulationId>DAGKRT</RegulationId>
                  <StartTimeApplied>2009-12-10T10:00:00</StartTimeApplied>
       <EndTimeApplied>2009-12-10T23:59:00</EndTimeApplied>
             <AmountFraction>22.50</AmountFraction>
       <VATAmountFraction>2.50</VATAmountFraction>
     </SpecifCalcAmountData>
    </SpecifCalcAmountList>
   </CalculatePriceResponseData>
  </CalculatePriceResponse>
```

```
</s:Envelope>
7.1.2.5 Example request message 3
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePrice</a:Action>
  <h:PIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:PIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d90</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceRequest xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceRequestData>
    <StartTimePSright>2009-12-10T11:45:00</StartTimePSright>
    <EndTimePSright>2009-12-10T16:45:00</EndTimePSright>
    <SellingPointId>39881</SellingPointId>
    <UsageId>PKORT</UsageId>
   </CalculatePriceRequestData>
  </CalculatePriceRequest>
 </s:Body>
</s:Envelope>
7.1.2.6 Example response message 3
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePriceResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceResponse xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceResponseData>
    <AreaManagerId>1234</AreaManagerId>
    <Areald>ABCDEFGHIJ</Areald>
    <AmountPSRightCalculated>12.50/AmountPSRightCalculated>
    <VATPSRightCalculated>2.51</VATPSRightCalculated>
    <EndTimePSRightAdjusted>2009-12-10T18:00:00</EndTimePSRightAdjusted>
    <SpecifCalcAmountList>
     <SpecifCalcAmountData>
       <RegulationId>1</RegulationId>
                  <StartTimeApplied>2009-12-10T11:45:00</StartTimeApplied>
       <EndTimeApplied>2009-12-10T12:00:00</EndTimeApplied>
            <AmountFraction>0.50</AmountFraction>
       <VATAmountFraction>0.01</VATAmountFraction>
     </SpecifCalcAmountData>
     <SpecifCalcAmountData>
       <RegulationId>MIDDAGKRT</RegulationId>
                  <StartTimeApplied>2009-12-10T12:00:00</StartTimeApplied>
       <EndTimeApplied>2009-12-10T18:00:00</EndTimeApplied>
            <AmountFraction>12.00</AmountFraction>
       <VATAmountFraction>2.50</VATAmountFraction>
    </SpecifCalcAmountData>
    </SpecifCalcAmountList>
   </CalculatePriceResponseData>
  </CalculatePriceResponse>
 </s:Body>
</s:Envelope>
```

7.1.2.7 Example request message 4

</s:Body>

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">

```
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePrice</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d91</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceRequest xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceRequestData>
    <StartTimePSright>2009-12-10T09:00:00</StartTimePSright>
   <EndTimePSright>2009-12-10T12:00:00</EndTimePSright>
   <LocationPSRight>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </LocationPSRight>
   <UsageId>PKORT</UsageId>
   </CalculatePriceRequestData>
  </CalculatePriceRequest>
</s:Body>
</s:Envelope>
7.1.2.8 Example response message 4
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePriceResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d92</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceResponse xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceResponseError>
    <StartTimePSright>2009-12-10T09:00:00</StartTimePSright>
   <EndTimePSright>2009-12-10T11:00:00</EndTimePSright>
    <LocationPSRight>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </LocationPSRight>
    <AreaManagerId>1234</AreaManagerId>
    <Areald>ABCDEFGHIJ</Areald>
    <ErrorCode>132</ErrorCode>
    <ErrorDesc> RPV price parameter error, calculation not possible</ErrorDesc>
   </CalculatePriceResponseError>
  </CalculatePriceResponse>
</s:Body>
</s:Envelope>
7.1.2.9 Example request message 5
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePrice</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d91</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceRequest xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceRequestData>
    <StartTimePSright>2009-12-10T09:00:00</StartTimePSright>
    <EndTimePSright>2009-12-10T12:00:00</EndTimePSright>
```

7.1.2.10 Example response message 5

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/IRegistration/CalculatePriceResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d92</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <CalculatePriceResponse xmlns="http://rdw.nl/rpv/1.0">
   <CalculatePriceResponseError>
    <StartTimePSright>2009-12-10T09:00:00</StartTimePSright>
    <EndTimePSright>2009-12-10T11:00:00</EndTimePSright>
    <LocationPSRight>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </LocationPSRight>
   <ErrorCode>133</ErrorCode>
   <ErrorDesc> Usage Id not provided</ErrorDesc>
   </CalculatePriceResponseError>
  </CalculatePriceResponse>
</s:Body>
</s:Envelope>
```

7.2 RetrieveAreasByLocation

7.2.1 Message dialogue RetrieveAreasByLocation

An entity sends a request message *RetrieveAreasByLocationRequest*, containing a location. NPR sends a response message *RetrieveAreasByLocationResponse*, containing a list of areas matching the specified location, together with their usage, as well as the address that is closest to the specified location.

The following information is provided in the request message:

A location (*AreaLocation*) (mandatory), consisting of a *Latitude* and *Longitude* in WGS84 format. or

An address (*AddressData*) consisting of StreetCode or StreetName, HouseNumber,
HouseNumberAdditionsand PlaceOfResidence.
or
A sellingpoint identification (*SellingPointId*)
If more than one identification is provided, NPR will use the list above to determine priority.
If the identification provided does not match any of the supported methods, NPR will return an error message and no information will be given.

□ (optional) *ReferenceTime*□ (optional) *UsageId*□ *UUID* (MessageID)

If no reference date-time is provided, all current and future areas matching the specified location, are retrieved, otherwise all areas valid at reference date-time, matching the specified location, are retrieved.

If a UsageId is provided, only found areas matching the specified UsageId are returned, otherwise all areas are returned. The hierarchy in the Usagelds is not taken in account.

Besides the area or areas that were found, the address that is closest to the specified location, is returned. Note that an address will only be returned if there were areas found.

If no error	occurs, the response message sent by NPR consists of the following
List of area	s matching the specified location (AreaTable)
□ AreaMa	nagerld
□ Areald	
☐ Usagela	
☐ PriceOn	eHourParking, if applicable.
☐ Address	closest to the specified location (<i>LocationAddress</i>)
0	StreetCode
0	StreetName
0	HouseNumber
0	HouseNumberAdditions
0	PlaceOfResidence

7.2.2 Example messages

The following example messages are given:

Requests

- 1. Maximum request (With a location).
- 2. Minimum request (With a location).
- 3. Erroneous request⁵ (With a location).
- 4. Request with an address as location
- 5. Request with a sellingpoint as location

Replies

- 1. Response with 1 area.
- 2. Response with a list of areas.
- 3. Response when an error situation occurs.
- 4. Response with 1 area and an address
- 5. Response with a list of areas and an address

7.2.2.1 Example request message 1

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocation</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreasByLocationRequest xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationRequestData>
    <AreaLocation>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </AreaLocation>
    <ReferenceTime>2011-01-01T00:00:00</ReferenceTime>
```

⁵ The location specified is somewhere in the Pacific Ocean.

```
<UsageId>BEWVERG</UsageId>
   </RetrieveAreasByLocationRequestData>
  </RetrieveAreasByLocationRequest>
 </s:Body>
</s:Envelope>
7.2.2.2 Example response message 1
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocationResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <RetrieveAreasByLocationResponse xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationResponseData>
    <AreaManagerId>1<AreaManagerId>
    <AreaTable>
     <AreaData>
      <Areald>393</Areald>
      <UsageId>BEWVERG</UsageId>
     </AreaData>
    </AreaTable>
    <LocationAddress>
            <StreetCode>06521</StreetCode>
            <StreetName>Bilderdijkstraat</StreetName>
            <HouseNumber>169</HouseNumber>
       <HouseNumberAdditions>A</HouseNumberAdditions>
            <PlaceOfResidence>Amsterdam</PlaceOfResidence>
    </LocationAddress>
   </RetrieveAreasByLocationResponseData>
  </RetrieveAreasByLocationResponse>
</s:Body>
</s:Envelope>
7.2.2.3 Example request message 2
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocation</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreasByLocationRequest xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationRequestData>
    <AreaLocation>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </AreaLocation>
   </RetrieveAreasByLocationRequestData>
  </RetrieveAreasByLocationRequest>
</s:Body>
</s:Envelope>
```

7.2.2.4 Example response message 2

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing"> <s:Header>

<a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocationResponse</a:Action> <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>

```
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <RetrieveAreasByLocationResponse xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationResponseData>
    <AreaManagerld>1</AreaManagerld>
    <AreaTable>
     <AreaData>
      <Areald>391</Areald>
      <UsageId>INCPARK</UsageId>
      <PriceOneHourParking>4.00</PriceOneHourParking>
     </AreaData>
     <AreaData>
      <Areald>392</Areald>
      <UsageId>BEDRVERG</UsageId>
     </AreaData>
     <AreaData>
      <Areald>393</Areald>
      <UsageId>BEWVERG</UsageId>
     </AreaData>
     <AreaData>
      <Areald>394</Areald>
      <UsageId>INCPARK</UsageId>
      <PriceOneHourParking>2.40</PriceOneHourParking>
    </AreaData>
    </AreaTable>
    <LocationAddress>
            <StreetCode>06521</StreetCode>
            <StreetName>Bilderdijkstraat</StreetName>
            <HouseNumber>169</HouseNumber>
            <PlaceOfResidence>Amsterdam</PlaceOfResidence>
    </LocationAddress>
   </RetrieveAreasByLocationResponseData>
  </RetrieveAreasByLocationResponse>
 </s:Body>
</s:Envelope>
7.2.2.5 Example request message 3
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocation</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
  <a:ReplyTo>
  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreasByLocationRequest xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationRequestData>
    <AreaLocation>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </AreaLocation>
   </RetrieveAreasByLocationRequestData>
  </RetrieveAreasByLocationRequest>
 </s:Body>
</s:Envelope>
```

7.2.2.6 Example response message 3

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing"> <s:Header>

```
<a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocationResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <RetrieveAreasByLocationResponse xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationResponseError>
    <AreaLocation>
     <Latitude>52.36695</Latitude>
     <Longitude>4.91252</Longitude>
    </AreaLocation>
   <ErrorCode>135</ErrorCode>
   <ErrorDesc>No area found</ErrorDesc>
  </RetrieveAreasByLocationResponseError>
  </RetrieveAreasByLocationResponse>
</s:Body>
</s:Envelope>
7.2.2.7 Example request message 4
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocation</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreasByLocationRequest xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationRequestData>
   <RequestAddress>
     <StreetCode>12345</StreetCode>
     <HouseNumber>192</HouseNumber>
     <HouseNumberAdditions>bis</HouseNumberAdditions>
     <PlaceOfResidence>Amsterdam</PlaceOfResidence>
    </RequestAddress>
    <ReferenceTime>2011-01-01T00:00:00</ReferenceTime>
    <UsageId>BEWVERG</UsageId>
   </RetrieveAreasByLocationReguestData>
  </RetrieveAreasByLocationRequest>
</s:Body>
</s:Envelope>
7.2.2.8 Example response message 4
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocationResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
</s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <RetrieveAreasByLocationResponse xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationResponseData>
   <AreaManagerId>1<AreaManagerId>
    <AreaTable>
     <AreaData>
       <Areald>393</Areald>
       <UsageId>BEWVERG</UsageId>
     </AreaData>
    </AreaTable>
    <LocationAddress>
    <StreetCode>12345</StreetCode>
```

```
<StreetName>Stadionweg</StreetName>
   <HouseNumber>192</HouseNumber>
       <HouseNumberAdditions>bis</HouseNumberAdditions>
    <PlaceOfResidence>Amsterdam</PlaceOfResidence>
   </LocationAddress>
   </RetrieveAreasByLocationResponseData>
  </RetrieveAreasByLocationResponse>
 </s:Body>
</s:Envelope>
7.2.2.9 Example request message 5
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocation</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">123</h:OIN>
  <a:MessageID>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:MessageID>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
 </s:Header>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreasByLocationRequest>
   <RetrieveAreasByLocationRequestData>
    <SellingPointId>15813</SellingPointId>
   <ReferenceTime>2011-11-01T09:00:00.000Z</ReferenceTime>
    <UsageId>PARKEREN</UsageId>
   </RetrieveAreasByLocationRequestData>
  </RetrieveAreasByLocationRequest>
 </s:Body>
</s:Envelope>
7.2.2.10 Example response message 5
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreasByLocationResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreasByLocationResponse xmlns="http://rdw.nl/rpv/1.0">
   <RetrieveAreasByLocationResponseData>
    <AreaManagerId>363</AreaManagerId>
    <AreaTable>
    <AreaData>
      <Areald>T13B</Areald>
      <AreaDesc>T13B ma-za 09-24</AreaDesc>
      <StartDateArea>20050101</StartDateArea>
      <UsageId>BETAALDP</UsageId>
      <GracePeriodBefore>1</GracePeriodBefore>
      <GracePeriodAfter>10</GracePeriodAfter>
      <PriceOneHourParking>3.00</PriceOneHourParking>
     </AreaData>
     <AreaData>
      <Areald>OZ25-02</Areald>
      <AreaDesc>OZ25-02 Oud Zuid 2</AreaDesc>
      <StartDateArea>20050101</StartDateArea>
      <UsageId>VERGUNP</UsageId>
      <GracePeriodBefore>1</GracePeriodBefore>
      <GracePeriodAfter>10</GracePeriodAfter>
    </AreaData>
    </AreaTable>
    <LocationAddress>
```

```
<StreetCode>31631</StreetCode>
<StreetName>Ruysdaelkade</StreetName>
<HouseNumber>216</HouseNumber>
<PlaceOfResidence>AMSTERDAM</PlaceOfResidence>
</LocationAddress>
</RetrieveAreasByLocationResponseData>
</RetrieveAreasByLocationResponse>
</s:Body>
</s:Envelope>
```

7.3 RetrieveAreaRegulationFareInfo

7.3.1 Message dialogue RetrieveAreaRegulationFareInfo

An area manager can ask for information about the areas, regulations and fares that are recorded in NPR on his behalf. It is possible to ask information about one specific area, as well as information about all recorded areas.

The area manager for which information is retrieved, is identified by the OIN or PIN in its certificate. Each request message contains either the OIN or the PIN from the certificate.

The request message contains the following information:	
☐ UUID (MessageID)	
☐ Identification of an area manager (AreaManagerId)	
Optionally, the following search criteria can be given: Identification of an area (Areald) Reference date-time (CheckTime)	

The area and regulation and fare data of the area manager denoted in the request message, are retrieved.

If no reference date-time is provided, the current and future data will be retrieved, otherwise the data that are valid on reference date-time will be retrieved.

If no Areald is provided, all recorded areas will be retrieved, as well as all recorded regulations and all recorded fares.

If an Areald is provided, the specified area is retrieved, together with the associated regulation(s) and the associated fare(s).

The area data now also contain the price to pay for one hour of parking, if applicable (*PriceOneHourParking*).

If no areas were found, the response consists of an empty message.

7.3.2 Example messages

The following example messages are given:

Requests

- 1. Request for 1 area
- 2. Request for all areas.

Replies

- 1. Response containing 1 area
- 2. Response containing a list of areas.

7.3.2.1 Request message 1

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"> <s:Header>

```
<a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreaRegulationFareInfo</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">00100010</h:OIN>
  <a:MessageID>urn:uuid:3385bdb3-3e11-407c-8c77-c76ebcf611d7</a:MessageID>
  <a:ReplyTo>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreaRegulationFareInfoRequest xmlns="http://rdw.nl/rpv/1.0">
   <AreaArrangeAccountInfoRequestData>
    <AreaManagerId>1234</AreaManagerId>
   <Areald>P1</Areald>
   <CheckTime>2010-03-23T15:14:00</CheckTime>
   </AreaArrangeAccountInfoRequestData>
  </RetrieveAreaRegulationFareInfoRequest>
</s:Body>
</s:Envelope>
7.3.2.2 Response message 1
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreaRegulationFareInfoResponse</a:Action>
  <a:RelatesTo>urn:uuid:3385bdb3-3e11-407c-8c77-c76ebcf611d7</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreaRegulationFareInfoResponse xmlns="http://rdw.nl/rpv/1.0">
   <AreaRegulationFareInfoResponseData>
    <AreaTable>
    <AreaData>
      <Areald>P1</Areald>
      <AreaDesc>Parkeren centrum</AreaDesc>
      <StartDateArea>20090101</StartDateArea>
      <EndDateArea>29991231</EndDateArea>
      <UsageDesc>GARAGE</UsageDesc>
      <GracePeriodBefore>0</GracePeriodBefore>
      <GracePeriodAfter>0</GracePeriodAfter>
      <PriceOneHourParking>1.00<PriceOneHourParking/>
      <AreaRegulationTable>
       <AreaRegulationData>
         <RegulationIdArea>R1</RegulationIdArea>
         <StartDateAreaRegulation>20090101T09:00:00</StartDateAreaRegulation>
         <EndDateAreaRegulation>29991231T00:00:00</EndDateAreaRegulation>
       </AreaRegulationData>
       <AreaRegulationData>
         <RegulationIdArea>AANV1</RegulationIdArea>
         <StartDateAreaRegulation>20090101T09:00:00</StartDateAreaRegulation>
         <EndDateAreaRegulation>29991231T00:00:00</EndDateAreaRegulation>
       </AreaRegulationData>
      </AreaRegulationTable>
     </AreaData>
    </AreaTable>
    <RegulationTable>
     <RegulationData>
      <RegulationId>R1</RegulationId>
      <RegulationDesc>Regeling-1</RegulationDesc>
      <RegulationType>B</RegulationType>
      <StartDateRegulation>20100101</StartDateRegulation>
      <EndDateRegulation>20101231</EndDateRegulation>
      <TimeFrameTable>
       <TimeFrameData>
```

```
<DayTimeFrame>DINSDAG</DayTimeFrame>
    <StartTimeTimeFrame>0</StartTimeTimeFrame>
    <EndTimeTimeFrame>700</EndTimeTimeFrame>
    <ClaimRightPossible>J</ClaimRightPossible>
    <MaxDurationRight>30</MaxDurationRight>
    <FareTimeFrame>TAR-1</FareTimeFrame>
   </TimeFrameData>
  </TimeFrameTable>
 </RegulationData>
 <RegulationData>
  <RegulationId>AANV1</RegulationId>
  <RegulationDesc>Dagkaart</RegulationDesc>
  <RegulationType>A</RegulationType>
  <StartDateRegulation>20100101</StartDateRegulation>
  <EndDateRegulation>20101231</EndDateRegulation>
  <TimeFrameTable>
   <TimeFrameData>
    <DayTimeFrame>DINSDAG</DayTimeFrame>
    <StartTimeTimeFrame>900</StartTimeTimeFrame>
    <EndTimeTimeFrame>2400</EndTimeTimeFrame>
    <ClaimRightPossible>J</ClaimRightPossible>
    <FareTimeFrame>TAR-2</FareTimeFrame>
   </TimeFrameData>
  </TimeFrameTable>
</RegulationData>
</RegulationTable>
<FareTable>
 <FareData>
  <FareCalculationCode>TAR-1</FareCalculationCode>
  <FareCalculationDesc>TariefBerekeningsCode-1/FareCalculationDesc>
  <StartDateFare>20090101</StartDateFare>
  <EndDateFare>29991231</EndDateFare>
  <VATPercentage>20.0</VATPercentage>
  <FarePartTable>
  <FarePartData>
    <StartDateFarePart>20100101</StartDateFarePart>
   <EndDateFarePart>29991231</EndDateFarePart>
    <StartDurationFarePart>0</StartDurationFarePart>
    <EndDurationFarePart>9999</EndDurationFarePart>
    <TotalAmountParts>0.00</TotalAmountParts>
    <AmountFarePart>0.05</AmountFarePart>
    <StepSizeFarePart>1</StepSizeFarePart>
   </FarePartData>
  </FarePartTable>
 </FareData>
 <FareData>
  <FareCalculationCode>TAR-2</FareCalculationCode>
  <FareCalculationDesc>TariefBerekeningsCode-2/FareCalculationDesc>
  <StartDateFare>20090101</StartDateFare>
  <EndDateFare>29991231</EndDateFare>
  <VATPercentage>20.0</VATPercentage>
  <FarePartTable>
  <FarePartData>
    <StartDateFarePart>20100101</StartDateFarePart>
    <EndDateFarePart>29991231</EndDateFarePart>
    <StartDurationFarePart>0</StartDurationFarePart>
    <EndDurationFarePart>9999</EndDurationFarePart>
    <TotalAmountParts>0.00</TotalAmountParts>
    <AmountFarePart>24.99</AmountFarePart>
    <StepSizeFarePart>900</StepSizeFarePart>
   </FarePartData>
  </FarePartTable>
 </FareData>
```

```
</FareTable>
</AreaRegulationFareInfoResponseData>
</RetrieveAreaRegulationFareInfoResponse>
</s:Body>
</s:Envelope>
```

7.3.2.3 Request message 2

Note: this request message is basically an empty message (the OIN or PIN on the certificate is the only data needed to process the message). This means that in this case the tag AreaArrangeAccountInfoRequestData, which is mandatory, is empty.

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
 <s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreaRegulationFareInfo</a:Action>
  <h:OIN xmlns="http://rdw.nl/rpv/1.0" xmlns:h="rdw.nl/rpv/1.0">00100010</h:OIN>
  <a:MessageID>urn:uuid:3385bdb3-3e11-407c-8c77-c76ebcf611d7</a:MessageID>
   <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
  </a:ReplyTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreaRegulationFareInfoRequest xmlns="http://rdw.nl/rpv/1.0">
   <AreaArrangeAccountInfoRequestData>
    <AreaManagerId>1234</AreaManagerId>
   </AreaArrangeAccountInfoRequestData>
  </RetrieveAreaRegulationFareInfoRequest>
</s:Body>
</s:Envelope>
7.3.2.4 Response message 2
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/RetrieveAreaRegulationFareInfoResponse</a:Action>
  <a:RelatesTo>urn:uuid:3385bdb3-3e11-407c-8c77-c76ebcf611d7</a:RelatesTo>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <RetrieveAreaRegulationFareInfoResponse xmlns="http://rdw.nl/rpv/1.0">
   <AreaRegulationFareInfoResponseData>
    <AreaTable>
     <AreaData>
      <Areald>P1</Areald>
      <AreaDesc>Parkeren centrum</AreaDesc>
      <StartDateArea>20090101</StartDateArea>
      <EndDateArea>29991231</EndDateArea>
      <usaseDesc>GARAGE</usageDesc>
      <GracePeriodBefore>0</GracePeriodBefore>
      <GracePeriodAfter>0</GracePeriodAfter>
      <PriceOneHourParking>2.00<PriceOneHourParking/>
      <AreaRegulationTable>
       <AreaRegulationData>
         <RegulationIdArea>R1</RegulationIdArea>
         <StartDateAreaRegulation>20090101T09:00:00</StartDateAreaRegulation>
         <EndDateAreaRegulation>29991231T00:00:00</EndDateAreaRegulation>
       </AreaRegulationData>
       <AreaRegulationData>
         <RegulationIdArea>AANV1</RegulationIdArea>
         <StartDateAreaRegulation>20090101T09:00:00</StartDateAreaRegulation>
         <EndDateAreaRegulation>29991231T00:00:00</EndDateAreaRegulation>
```

</AreaRegulationData>

```
</AreaRegulationTable>
 </AreaData>
 <AreaData>
 <Areald>P2</Areald>
 <AreaDesc>Parkeren buitenwijken</AreaDesc>
 <StartDateArea>20090101</StartDateArea>
 <EndDateArea>29991231</EndDateArea>
 <UsageDesc>GARAGE</UsageDesc>
 <GracePeriodBefore>5</GracePeriodBefore>
 <GracePeriodAfter>10</GracePeriodAfter>
  <PriceOneHourParking>0.50<PriceOneHourParking/>
  <AreaRegulationTable>
   <AreaRegulationData>
    <RegulationIdArea>R2</RegulationIdArea>
    <StartDateAreaRegulation>20090101T09:00:00</StartDateAreaRegulation>
     <EndDateAreaRegulation>29991231T00:00:00</EndDateAreaRegulation>
  </AreaRegulationData>
   <AreaRegulationData>
    <RegulationIdArea>AANV1</RegulationIdArea>
    <StartDateAreaRegulation>20090101T09:00:00</StartDateAreaRegulation>
     <EndDateAreaRegulation>29991231T00:00:00</EndDateAreaRegulation>
  </AreaRegulationData>
  </AreaRegulationTable>
</AreaData>
</AreaTable>
<RegulationTable>
 <RegulationData>
 <RegulationId>R1</RegulationId>
 <RegulationDesc>Regeling-1</RegulationDesc>
 <RegulationType>B</RegulationType>
 <StartDateRegulation>20100101</StartDateRegulation>
 <EndDateRegulation>20101231</EndDateRegulation>
 <TimeFrameTable>
  <TimeFrameData>
   <DayTimeFrame>MAANDAG/DayTimeFrame>
   <StartTimeTimeFrame>900</StartTimeTimeFrame>
   <EndTimeTimeFrame>1700</EndTimeTimeFrame>
   <MaxDurationRight>60</MaxDurationRight>
   <ClaimRightPossible>Y</ClaimRightPossible>
   <FareTimeFrame>TAR-1</FareTimeFrame>
   </TimeFrameData>
   <TimeFrameData>
   <DayTimeFrame>DINSDAG</DayTimeFrame>
   <StartTimeTimeFrame>800</StartTimeTimeFrame>
   <EndTimeTimeFrame>2000</EndTimeTimeFrame>
   <ClaimRightPossible>Y</ClaimRightPossible>
   <FareTimeFrame>TAR-2/FareTimeFrame>
  </TimeFrameData>
 </TimeFrameTable>
 </RegulationData>
 <RegulationData>
 <RegulationId>R2</RegulationId>
 <RegulationDesc>Regeling-2</RegulationDesc>
 <StartDateRegulation>20100101</StartDateRegulation>
 <EndDateRegulation>20101231</EndDateRegulation>
 <TimeFrameTable>
   <TimeFrameData>
   <DayTimeFrame>DINSDAG</DayTimeFrame>
   <StartTimeTimeFrame>900</StartTimeTimeFrame>
   <EndTimeTimeFrame>1700</EndTimeTimeFrame>
   <ClaimRightPossible>N</ClaimRightPossible>
   </TimeFrameData>
```

</TimeFrameTable>

```
</RegulationData>
 <RegulationData>
 <RegulationId>AANV1</RegulationId>
 <RegulationDesc>Dagkaart</RegulationDesc>
 <RegulationType>A</RegulationType>
 <StartDateRegulation>20100101</StartDateRegulation>
 <EndDateRegulation>20101231</EndDateRegulation>
 <TimeFrameTable>
  <TimeFrameData>
   <DayTimeFrame>DINSDAG</DayTimeFrame>
   <StartTimeTimeFrame>900</StartTimeTimeFrame>
   <EndTimeTimeFrame>2400</EndTimeTimeFrame>
   <ClaimRightPossible>J</ClaimRightPossible>
   <FareTimeFrame>TAR-3</FareTimeFrame>
  </TimeFrameData>
 </TimeFrameTable>
 </RegulationData>
</RegulationTable>
<FareTable>
 <FareData>
 <FareCalculationCode>TAR-1</FareCalculationCode>
 <FareCalculationDesc>TariefBerekeningsCode-1</FareCalculationDesc>
 <StartDateFare>20080101</StartDateFare>
 <EndDateFare>29991231</EndDateFare>
 <VATPercentage>7.5</VATPercentage>
 <FarePartTable>
  <FarePartData>
   <StartDateFarePart>20100101</StartDateFarePart>
   <EndDateFarePart>20101231</EndDateFarePart>
   <StartDurationFarePart>0</StartDurationFarePart>
   <EndDurationFarePart>9999</EndDurationFarePart>
   <TotalAmountParts>0.00</TotalAmountParts>
   <AmountFarePart>1.00</AmountFarePart>
   <StepSizeFarePart>1</StepSizeFarePart>
   </FarePartData>
  </FarePartTable>
</FareData>
<FareData>
 <FareCalculationCode>TAR-2</FareCalculationCode>
 <FareCalculationDesc>TariefBerekeningsCode-2/FareCalculationDesc>
 <StartDateFare>20080101</StartDateFare>
 <EndDateFare>29991231</EndDateFare>
  <FarePartTable>
  <FarePartData>
   <StartDateFarePart>20100101</StartDateFarePart>
   <EndDateFarePart>20101231</EndDateFarePart>
   <StartDurationFarePart>0</StartDurationFarePart>
   <EndDurationFarePart>600</EndDurationFarePart>
   <TotalAmountParts>0.00</TotalAmountParts>
   <AmountFarePart>0.06</AmountFarePart>
   <StepSizeFarePart>1</StepSizeFarePart>
  </FarePartData>
  <FarePartData>
   <StartDateFarePart>20100101</StartDateFarePart>
   <EndDateFarePart>20101231</EndDateFarePart>
   <StartDurationFarePart>601</StartDurationFarePart>
   <EndDurationFarePart>9999</EndDurationFarePart>
   <TotalAmountParts>36.00</TotalAmountParts>
   <AmountFarePart>1.00</AmountFarePart>
   <StepSizeFarePart>30</StepSizeFarePart>
  </FarePartData>
  </FarePartTable>
</FareData>
```

```
<FareData>
     <FareCalculationCode>TAR-3</FareCalculationCode>
     <FareCalculationDesc>TariefBerekeningsCode-3/FareCalculationDesc>
     <StartDateFare>20090101</StartDateFare>
     <EndDateFare>29991231</EndDateFare>
     <VATPercentage>20.0</VATPercentage>
     <FarePartTable>
      <FarePartData>
       <StartDateFarePart>20100101</StartDateFarePart>
       <EndDateFarePart>29991231</EndDateFarePart>
       <StartDurationFarePart>0</StartDurationFarePart>
       <EndDurationFarePart>9999</EndDurationFarePart>
       <TotalAmountParts>0.00</TotalAmountParts>
       <AmountFarePart>24.99</AmountFarePart>
       <StepSizeFarePart>900</StepSizeFarePart>
      </FarePartData>
     </FarePartTable>
    </FareData>
   </FareTable>
  </AreaRegulationFareInfoResponseData>
</s:Body>
</s:Envelope>
```

7.4 StatusRequest

A Connected system is always allowed to send a Status Request in order to check the availability of NPR and the connection. The Response by NPR (if possible) contains OK or NOK and the error.

7.4.1 Message dialogue StatusRequest

An entity sends a request message *StatusRequestRequest*. NPR sends a response message *StatusRequestResponse*, containing the status OK/NOK and if applicable an error or information message

The following information is provided in the request message:

StatusTime (request)

(optional) StatusReference

UUID (MessageID)

The response message sent by NPR contains

7.4.2 Example messages

☐ *StatusTime* (response)

Request

1. Request

☐ StatusRPV

Replies

- 1. Response with OK.
- 2. Response with NOK.

7.4.2.1 Example request message

```
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  < StatusRequestRequest xmlns="http://rdw.nl/rpv/1.0">
   <StatusRequestRequestData>
    <StatusTime>2010-09-24T16:45:00</StatusTime>
         <StatusReference>Test5</StatusReference>
   </StatusRequestRequestData>
  </StatusRequestRequest>
 </s:Body>
</s:Envelope>
7.4.2.2 Example response message 1
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/StatusResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <StatusRequestResponse xmlns="http://rdw.nl/rpv/1.0">
   <StatusRequestResponseData>
         <StatusTime>2010-09-24T16:45:03</StatusTime>
         <StatusRPV>OK</StatusRPV>
  </StatusRequestResponseData>
  </StatusRequestResponse>
</s:Bodv>
</s:Envelope>
7.4.2.3 Example response message 2
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/" xmlns:a="http://www.w3.org/2005/08/addressing">
<s:Header>
  <a:Action s:mustUnderstand="1">rdw.nl/rpv/1.0/Iregistration/StatusResponse</a:Action>
  <a:RelatesTo>urn:uuid:53d5046f-f8c4-422e-a5ad-0ae640ab3d88</a:RelatesTo>
 <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
 <StatusRequestResponse xmlns="http://rdw.nl/rpv/1.0">
   <StatusRequestResponseData>
         <StatusTime>2010-09-24T16:45:03</StatusTime>
         <StatusRPV>NOK</StatusRPV>
  </StatusRequestResponseData>
  </StatusRequestResponse>
</s:Body>
</s:Envelope>
```

8 Error handling

8.1 Error procedure

In this chapter the procedure for connected systems is described in case of an error situation. From the point of view of the connected system two types of errors can occur after sending a Request⁶ to NPR:

- 1. Error: Reply from NPR with an error message 1-206
- 2. Communication lost and error messages 302 and 999: no Reply from NPR is received within a time-out period, set by the Connected system (e.g. 10s) or a Reply with error code 302 and 999.

Ad 1 Reply with an error messsage 1 – 206:

All error messages except 302 and 999 are errors in the content of the Request. A resend of the Request is useless because it will result in the same error: repair of the content of the Request is required. Contact the help desk if analysis of the Request shows that a parameter in NPR seems incorrect.

Ad 2 State "Communication lost":

This state is started when the Connected system does not get a Reply on a Request within a certain period (e.g. a time-out after 10 seconds). Or when the Reply indicates error code 302 or 999. The following procedure starts:

- 1. The Connected system should decide after certain retries (e.g. 3 times) to stop sending Requests to NPR and buffer them.(In case of error code 302 or 999, the NPR system will, after a certain period, automatically stop sending error code 302 or 999 and produce a time-out)
- 2. Start sending StatusRequests, for example every 60 seconds.
- 3. After 5 minutes of communication loss, contact Help desk at SHPV
- 4. After communication is re-established (according to Help desk SHPV or when StatusResponse OK is received), start sending buffered messages with the original UUID.

8.2 Resending a Request

A connected system can always resend a Request with the original UUID. If NPR already replied with a response, the original Response based on the UUID is replied, if the message type of the resent Request is the same as the original Request. In this situation changes in the content of the resent Request in comparison to the original Request are neglected and the original Reply is send, even if it contains error messages.

If the original Response contained an error code 302 or 999, the resent Request is processed as a regular Request.

A. Annex A – Description of XML elements

In alphabetical order this annex the elements used in the messages are described in detail. The following information is provided:

Item

The name of the XML element. Some elements have values, others have not, e.g. nesting elements to support multiple occurrences.

Type

The data type, only applicable to those elements that have a value.

Type	Description					
Text	A sequence of characters.					
DT	Date and Time in UTC format (Co-ordinated Universal Time) as 'CCYY-MM-					
	DDThh:mm:ssZ' or Date and Time in local time ± offset to UTC 'CCYY-MM-					
	DDThh:mm:ss±hh:mm'					
Date	Date in format CCYYMMDD, area manager local time.					
Int	Numeric, integer values only.					
Dec	Numeric, fractional numbers possible.					
Enum	Enumeration; the element has a specified set of values. The possible values will be					
	listed.					

• Len

This column indicates the length of the element.

- 'n' indicates a fixed length where 'n' is the number of characters
- 'm-n' indicates a variable length where "m" is the minimum and "n" is the maximum
- Description

Information about the purpose of the element, rules for usage and examples of usage. For elements of type "Enum", i.e. elements with a fixed set of values, in the description the possible values will be listed.

General message rules

- ☐ The order in which to put tags, is specified in the XSD. Putting tags in the wrong order, will result in an error while processing the request. The XSD is leading for defining the tag order.
- ☐ In request messages, optional elements that are not applicable, can be delivered in two ways:
 - o Leave out the tag
 - o Include the tag, but state explicitly that it has no value, i.e. value xsi:nil="**true**". Note: If an empty tag is sent with no explicit "nil" value, this will result in an XSD validation error.
- ☐ In response messages, NPR delivers optional elements that have no value, by including the tag in the message, stating explicitly that it has no value, i.e. value xsi:nil="true".
- □ Dates and times of PS Rights and reference date-times are either delivered as UTC, i.e. format *CCYY-MM-DDThh:mm:ss*Z, or delivered in local time with an offset to UTC, i.e. format *CCYY-MM-DDThh:mm:ss*±*hh:mm*. If no Z or offset is provided, UTC is assumed.
- ☐ Dates and times used for managing areas, regulations and fares, as well as dates and times concerning price calculation, are area manager local dates and times.
- ☐ The format of tags with price values is €.cc

Item	Туре	Len	Description
AmountFarePart	Dec	1.8-	Amount per step size that has to be paid in this fare
		7.8	
AmountFraction	Dec	1.2-	Amount, being a fraction of
		8.2	AmountPSRightCalculated. Is used within a

AmountPSRight Dec 1.2- The price to pay for the PS right. VAT included. Format 4.c The price for the PS right, calculated by the rights acquirer or the selling point (e.g., parking meter) that was used for acquiring the PS right. AmountPSRightCalculated Dec 1.2- Price to pay for the PS right, VAT included. Format was used for acquiring the PS right. WAT included. Format was used for acquiring the PS right. WAT included. Format Price to pay for the PS right, VAT included. Format Price and the passed on the regulation applicable to the area where the PS right was acquired, and depends on the day or days the right was acquired, and depends on the day or days the right was acquired, and depends on the day or days the right was acquired, the duration of the right, and the fare per hour. A price is calculated anytime a request message is sent that contains EndTimePSRight (new or changed). AmountRatePart Dec 1.2- The minimum amount that has to be paid for acquiring a PS right. Format 4.cc. This amount is the minimum timeframe to pay, multiplied by the fare at time = CheckTime. Data of 1 specific area. AreaData Text 1-80 Description of the Area in the NPR, as set by the area manager. Arealoscation Text 1-80 Identification of the Area in the NPR. The area idis in NPR are set by the area manager, they are unique for NPR. AreaLocation Text 1-80 Description of the Area in the NPR. The area idis in NPR are set by the area manager but not necessarily unique for NPR. AreaRegulationData Text 1-80 Description of the Area Manager in NPR. Area manager identifications are unique in NPR, and are issued by SHPV. Description of the Area Manager in NPR. Description of the Area Manager in NPR. AreaTable Text 1-80 Description of the Area Manager in NPR. AreaTable Text 1-80 Description of the Area Manager in NPR. AreaTable Text 1-80 Description of the Area Manager in NPR. AreaTable Text 1-80 Description of the Area Manager in NPR. AreaTable Text 1-80 Description of the Area manager. AreaTable Text 1-80 Description of the	Item	Туре	Len	Description
AmountPSRight Dec 1.2- Format €.cc. The price to pay for the PS right, calculated by the rights acquirer or the selling point (e.g., parking meter) that was used for acquiring the PS right. AmountPSRightCalculated Dec 1.2- Price to pay for the PS right, calculated by PS right. AmountPSRightCalculated Dec 1.2- Price to pay for the PS right, calculated PS right was used for acquiring the PS right. AmountPsRightCalculated Dec 1.2- Price to pay for the PS right, valued by PSR, being the price set by the area manager. The calculation is based on the regulation applicable to the area where the PS right was acquired, the duration of the right, and the fare per hour.	110111	.,,,,	20	-
Second	AmountPSRight	Dec	1.2-	•
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CheckAddress Node in which an address is given, specifying the area that should be checked for the presence of PSRights. CheckAnswer Text 1 Answer given by NPR at a request to check for a PS Right for a certain vehicle in a certain area at a certain time. Value list: Y = Yes, a PS right is found. N = No, a PS right is not found. CheckInfoData CheckInfoList CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.				certain area.
area that should be checked for the presence of PSRights. CheckAnswer Text 1 Answer given by NPR at a request to check for a PS Right for a certain vehicle in a certain area at a certain time. Value list: Y = Yes, a PS right is found. N = No, a PS right is not found. CheckInfoData CheckInfoList CheckLocation A list of information on logged checks. Node in which a location is given, specifying the area that should be checked for the presence of PSRights.	AreaTable			Table containing the data of 1 or more areas.
PSRights. CheckAnswer Text 1 Answer given by NPR at a request to check for a PS Right for a certain vehicle in a certain area at a certain time. Value list: Y = Yes, a PS right is found. N = No, a PS right is not found. CheckInfoData CheckInfoList CheckLocation A list of information on logged checks. Node in which a location is given, specifying the area that should be checked for the presence of PSRights.	CheckAddress			<u> </u>
CheckAnswer Text 1 Answer given by NPR at a request to check for a PS Right for a certain vehicle in a certain area at a certain time. Value list: Y = Yes, a PS right is found. N = No, a PS right is not found. CheckInfoData CheckInfoList A list of information on logged checks. CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.				·
Right for a certain vehicle in a certain area at a certain time. Value list: Y = Yes, a PS right is found. N = No, a PS right is not found. Information on one specific logged check. CheckInfoList A list of information on logged checks. CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.		_		-
certain time. Value list: Y = Yes, a PS right is found. N = No, a PS right is not found. CheckInfoData Information on one specific logged check. CheckInfoList A list of information on logged checks. CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.	CheckAnswer	Text	1	
Y = Yes, a PS right is found. N = No, a PS right is not found. CheckInfoData Information on one specific logged check. A list of information on logged checks. CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.				-
N = No, a PS right is not found. CheckInfoData Information on one specific logged check. CheckInfoList A list of information on logged checks. CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.				
CheckInfoData CheckInfoList CheckLocation Information on one specific logged check. A list of information on logged checks. Node in which a location is given, specifying the area that should be checked for the presence of PSRights.				_
CheckInfoList A list of information on logged checks. CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.	ChackInfoData			_
CheckLocation Node in which a location is given, specifying the area that should be checked for the presence of PSRights.				
area that should be checked for the presence of PSRights.				
PSRights.	Checkededion			
	CheckOrgCode	Int	5	Code of a PS Right checking organisation.

Item	Туре	Len	Description
item	Турс	LCII	CheckOrgCodes are unique in NPR, and are issued
			by SHPV.
CheckOrgDesc	Text	1-80	Description of a PS Right checking organisation.
CheckTime	DT	1 00	Date and time at which must be checked whether
Checkinie	٥,		or not a PS Right is present.
ClaimRightPossible	Int	1	Indicator whether or not its possible to claim rights
Giaining it is a said in		_	in this timeframe.
			Y = Yes, it's possible to claim rights.
			N = No, it's not possible to claim rights.
CountryCodeCheck	Text	1-3	Denotes the country of origin of the vehicle licence
,			plate, as provided by the enforcer in a check for PS
			rights. The coding scheme used is UN agreed. For
			the list of possible codes
			http://www.unece.org/trans/conventn/Distsigns.p
			df.
CountryCodeVehicle	Text	1-3	Denotes the country of origin of the vehicle licence
•			plate. The coding scheme used is UN agreed. For
			the list of possible codes
			.http://www.unece.org/trans/conventn/Distsigns.p
			df.
			Advise: to avoid problems in enforcement, omit
			the CountryCode if unknown: don't use NL as
			default.
DayTimeframe	Text	20	Name of a regular day of the week, in the language
			of the area manager (i.e. zondag, maandag etc.), or
			name of a special day where special fares apply
			(e.g. marktdag or christelijke feestdag).
EndDateArea	Date	8	End date of an area (exclusive).
EndDateAreaRegulation	DT		End date-time of a regulation of an area (exclusive,
			time included).
EndDateFare	Date	8	End date of a fare (exclusive).
EndDateFarePart	Date	8	End date of a fare part (exclusive).
EndDateRegulation	Date	8	End date of a regulation (exclusive).
EndDurationFarePart	Int	6	Duration of the PS Right when this fare part ends to
			be applicable (minutes).
EndTimeApplied	DT		Date and time when a certain regulation ends to be
			applicable (time exclusive).
		_	Is used within a SpecifCalcAmountList.
EndTimeTimeFrame	Int	4	End time of a timeframe, format uumm (time
			exclusive). This is the area manager local time when
F. J.T DCD: J.	D.T.		a certain fare ends to be applicable.
EndTimePSRight	DT		Date and time when the PS right ends (time
			exclusive). In price calculations, maximum
			significance is minutes, i.e. the seconds are ignored.
			However, if seconds are delivered, they will be
EndTimeDCDichtAdicated	D-T		recorded.
EndTimePSRightAdjusted	DT		System calculated date and time (time exclusive)
			when a PS Right ends, overrules the
EndTimoDCDigh+DovAVindo	Toyt	1 20	EndTimePSRight provided by the rights acquirer.
EndTimePSRightDayWindow	Text	1-20	If this element is present,

Item	Туре	Len	Description
			StartTimePSRightDayWindow is also present. The
			day provided is inclusive. For further information
			see StartTimePSRightDayWindow.
EndTimePSRightWindow	Int	4	If this element is present, StartTimePSRightWindow
			is also present. Consists of a time value in format
			hhmm (time exclusive).
			For further information see
			StartTimePSRightWindow.
EndTimeRemark	DT		Time associated with a PSRightRemark. Date and
	٠.		time at which the remark ends to be applicable
			(time exclusive)
ErrorCode	Int	3	Code explaining an error situation.
ErrorDesc	Text	1-80	Description explaining an error situation.
ErrorVariable	Text	1-200	In this element, when an error situation occurs,
			extra information that might be useful for the
			recipient can be given.
ExtraInfoIndicator	Text	1	Indicator denoting if the checking organisation
			wants to receive extra information, on checking for
			PS rights. Value list:
			Y = Yes, I want extra information
			N = No, I don't want extra information
FareCalculationCode	Text	1-10	Code of a certain fare. The fare calculation ids in
			NPR are set by the area manager, they are unique
			for the area manager but not necessarily unique for
Francis Intim Provi	. .	4.00	NPR.
FareCalculationDesc	Text	1-80	Description of a certain fare, as set by the area
FareData			manager. Data of one specific fare
FarePartData			Data of one specific fare part
FarePartTable			Table containing the data of 1 or more fare parts
FareTable			Table containing the data of 1 or more fares
FareTimeFrame	Text	10	Code of the fare that is applied within this
	. 67.0		timeframe.
GracePeriodAfter	Int	2	Grace period to apply beyond end date-time PS
			Right, e.g. after expiration of a parking right, the
			time in minutes a customer is still allowed to stay
			on the parking spot.
GracePeriodBefore	Int	2	Grace period to apply before start date-time PS
			Right, e.g. after actual parking, time in minutes a
			customer is granted to acquire a parking right.
IndicatorTime	DT		Date and time around which something should be
InfoMosos == CI-	1,-+	2	retrieved, e.g. rights or check answers.
InfoMessageCode	Int	3	Code denoting an informational message.
InfoMessageDesc Latitude	Text	1-80 3.10	Description of an informational message.
Latitude	Dec	3.10	Latitude of a location for which a PSRight is acquired Coordinate frame WGS84, decimal
			format. If no sign is provided, a positive sign is
			assumed. Maximum significance: 10 digits behind
			the decimal point.
			are desirial points

Item	Туре	Len	Description
AddressLocation	Турс	LCII	Node containing the data of an address related to
AddressLocation			(closest to) a certain location.
LocationPSRight			Node in which a location is given, specifying the
LocationF3Kignt			area for which a PSRight should be recorded.
Longitude	Dec	4.10	Longitude of a location for which a PSRight is
Longitude	Dec	4.10	acquired Coordinate frame WGS84, decimal
			format. If no sign is provided, a positive sign is
			assumed. Maximum significance: 10 digits behind
			the decimal point.
MaxDurationRight	Int	4	Maximum possible duration of a PS Right (in
			minutes) within this timeframe.
MessageID	Byte	16	Universally Unique identifier which uniquely
			identifies a message (UUID (GUID)). A description of
			the UUID/GUID is found at:
			http://en.wikipedia.org/wiki/Universally_unique_id
			entifier#Version_428random.29
			In NPR a version is used with 36 digits in the form:
			XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX
			where hexadecimal digit 'x' is one of
			0,1,2,3,4,5,6,7,8,9,a,b,c,d,e,f.
PlaceOfResidence	Text	1-24	The place of residence of an address.
PriceOneHourParking	Dec	1.2-	The price to pay for one hour of parking, using the
		8.2	fare applicable at a certain referencetime, and
			applying it for exactly 60 minutes.
PSRightAcquirerCode	Int	5	The code of the right acquirer as known in NPR.
			Right acquirer codes are unique in NPR, and are
			issued by SHPV.
PSRightAcquirerDesc	Text	1-80	The description of the right acquirer as recorded in NPR.
PSRightCheckPSRightData			Element containing the data of a single PSRight,
BCB: 1.61 1BCB: 1.B			associated with a check for PS rights.
PSRightCheckPSRightDataList			Element containing a list of 1 or more PS Rights,
			associated with a check for PS rights, for which
DCD: Lud		4.40	information is given
PSRightId	Int	1-10	Unique, system issued, identification of a PS right in NPR.
PSRightIndicator	Text	1	Indicator denoting whether or not acquired rights
			are usable.Value list
			Y = Usage of acquired rights is possible
			N = Usage of acquired rights is not possible
PSRightInfoData			Information of one specific PS Right.
PSRightInfoList			A list of information on PS Rights
PSRightRemarkData			Element containing the data of a single
			PSRightRemark. On registering a right, NPR gives
			remarks if applicable. Known remarks are:
			a. Periods when it is forbidden to acquire a PS
			Right.
PSRightRemarkList			Element containing a list of 1 or more remarks
			given by NPR
PSRightRemarkType	Int		Denotes the kind of remark. For more information

Item	Туре	Len	Description
item	Type	Len	on remark types, see Appendix B.
PSRightWindowData			Element containing the data of one validity
			window.
PSRightWindowList			List of validity windows of a PSRight, PSRights with
3			1 or more validity windows are only valid during
			window days/times and not outside the windows
			days/times.
ReferenceCheckOrg	Text	1-40	Identification or description that a checking
			organisation can register with the logging in NPR of
			a check. If, how and when to use this element, is to
			be decided by the checking organisation.
ReferencePSRight	Text	1-40	Identification or description that a rights acquirer
			can register with a PS right. If, how and when to
			use this element, is to be decided by the rights
Defense Time	DT		acquirer.
ReferenceTime	DT		Reference time used for selection of data, in UTC. Reference time used to select the valid
ReferenceTimeRegulation	DT		
RegulationData			regulation(s) to apply. Data of 1 specific regulation
RegulationDesc	Text	1-80	Description of a regulation imposed by the area
RegulationDesc	TEXT	1-00	manager.
RegulationId	Text	1-10	Identification of a regulation imposed by the area
negalationa	TCAC	1 10	manager. The regulation ids in NPR are set by the
			area manager, they are unique for the area
			manager but not necessarily unique for NPR.
RegulationIdArea	Text	1-10	RegulationId that is applicable to the associated
			area.
RegulationTable			Table containing the data of 1 or more regulations
RegulationType	Enu		Denotes the kind of regulation. Possible values:
	m		B = base regulation, i.e. the regulation applying for
			paid parking.
			A = additional regulation, e.g. discount regulations
			like evening ticket or day ticket.
SellingPointId	Int	1-10	Identification of the selling point where the right
Semingromitia	IIIC	1-10	was acquired. Selling point ids are unique within
			NPR, and are issued by SHPV.
SpecifCalcAmountData			This node contains one specific entry in a
			SpecifCalcAmountList.
SpecifCalcAmountList			List that further specifies AmountPSRightCalculated
·			The list is only present when the calculated amount
			is based on additional regulation(s), besides the
			standard regulation, of the area.
StartDateArea	Date	8	Start date of an area (inclusive).
StartDateAreaRegulation	DT		Start date-time of a regulation of an area
			(inclusive).
StartDateFare	Date	8	Start date of a fare (inclusive).
StartDateFarePart	Date	8	Start date of a fare part (inclusive).
StartDateRegulation	Date	8	Start date of a regulation (inclusive).
StartDurationFarePart	Int	6	Duration of a PS Right when this fare part starts to

Item	Туре	Len	Description
recin	· ypc	Len	be applicable.
StartTimeApplied	DT		Date and time (inclusive) when a certain regulation
The state of the s			starts to be applicable. Is used within a
			SpecifCalcAmountList.
StartTimeTimeFrame	Int	4	Start time of a timeframe, format uumm (inclusive).
			This is the area manager local time when a certain
			fare starts to be applicable.
StartTimePSRight	DT		Date and time when the PS right starts (inclusive).
			In price calculations, maximum significance is
			minutes, i.e. the seconds are ignored. However, if
			seconds are delivered, they will be recorded.
StartTimePSRightDayWindo	Text	1-20	If this element is present,
w			EndTimePSRightDayWindow is also present.
			Consists of a day name value. The day name values
			that can be used are ZONDAG, MAANDAG,
			DINSDAG, WOENSDAG, DONDERDAG, VRIJDAG,
			ZATERDAG. The day provided is inclusive.
StartTimePSRightWindow	Int	4	If this element is present, EndTimePSRightWindow
			is also present. Consists of a time value in format
			uumm (inclusive).
			Used when a PS right is only valid only during a
			time window per day.
			The right itself is valid for a period of 1 day or more,
			but each day the validity is only a few hours.
			Examples monthly parking ticket for mornings:
			08.00-12.00 or evenings. 19.00-23.00.
StartTimeRemark	DT		Time associated with a PS RightRemark (inclusive).
			Date and time at which the remark starts to be
			applicable
StatusReference	Text	1-10	A reference that the initiator of a status request
			can provide with the status request. It will be
			returned in the status request response.
StatusTime	DT		Time at which a StatusRequest was sent (in the
			request) or processed (in the response).
StatusRPV	Text	1-10	OK or NOK: NPR available or not
StepSizeFarePart	Int	6	Step size (in minutes) of the fare. The amount to
			pay for a PS Right is always equal to N times the
			step size of the fare, i.e. the minimum amount to
			pay is one step.
StreetCode	Text	1-5	The code of a street. Using a street code instead of
			a street name in the geographic determination of
			NPR areas, eliminates the influence of spelling
			errors, mismatch in diacritic characters etc. Street
			codes shorter than 5 digits should be preceded by
			leading zeroes.
StreetName	Text	1-24	The street name of an address
HouseNumber	Int	5	The house number of an address, without
			additions, i.e. without "huisnummertoevoeging" or
			"huisletter" or "aanduiding bij huisnummer".

Item	Туре	Len	Description	
HouseNumberAdditions	Text	10	Additions to the house number, like	
			"huisnummertoevoeging" and/or "huisletter"	
			and/or "aanduiding bij huisnummer".	
TimeFrameTable			A table containing timeframes when a certain fare	
			applies.	
TimeFrameTableData			The data of one individual timeframe	
TotalAmountParts	Dec	1.2-	Total amount in €.cc of the previous fare parts	
		8.2	before this fare part.	
UsageDesc	Text	1-80	Description of the usage of a certain area (or set of areas) in NPR.	
Usageld	Text	1-10	Identification of the usage of an area, regulation or	
Osageia	TCAC	1 10	PSRight in the NPR. A general set of usage	
			identifications are issued by SHPV, to be used by all	
			area managers. Each area manager can extend the	
			general usages, subdividing the general usages into	
			more specific usages. To correctly determine the	
			validity of rights, it is necessary that the subdivision	
			of usages matches the ruling set in parking	
			legislation. E.g. when the validity rules of a parking	
			permit for residents and the validity rules of a	
			parking permit for companies are not the same, it is	
			required that a PSRight "parking permit resident"	
			has a different UsageId than a PSRight "parking	
			permit company", therefore, the area manager will	
			distinguish these usages. However, when the	
			validity rules for these two permits are the same	
			any time, any place, then it is not necessary to	
			distinguish, and the PSRights of these two permits	
			can have the same UsageId.	
VATAmountFraction	Dec	1.2-	Amount, being a fraction of VATPSRightCalculated.	
		8.2	Is used within a SpecifCalcAmountList.	
VATPercentage	Dec	3.1	Percentage VAT of a certain fare.	
VATPSRight	Dec	1.2-	Format €cc.VAT portion of <i>AmountPSRight</i> , only	
-		8.2	present if applicable.	
VATPSRightCalculated	Dec	1.2-	Format €.cc.VAT portion of	
		8.2	AmountPSRightCalculated, only present if	
			applicable.	
VehicleId	Text	1-25	Usually the licence plate number of a vehicle, in	
			some cases another identification, e.g. the number	
			of a disabled person's parking card.	
			Before storage in NPR, or before retrieval, the	
			vehicle id provided in a request message is stripped	
			of non alphabetical characters (-, spaces) and	
			converted to uppercase.	

B. Annex B – Remarks

Some response messages contain an optional table (PSRightRemarkList), containing one or more remarks. A remark might be accompanied by a StartTimeRemark and/or an EndTimeRemark, both in UTC.

The following table lists the remarks that can be given and the meaning of the remark.

PSRightRemarkType	StartTimeRemark	EndTimeRemark	Meaning of the remark
1	Present	Present	Period in which an acquired PS Right is not valid. The remark is given when a PSRight is acquired without an end time, or when a PSRight is acquired or revoked, with an end time that lies in or beyond the period in which the remark applies. The remark is only given when the period starts within 24 hours of StartTimePSRight.
2	Not present	Present	This remark is given when a PSRight is acquired without an end time, and a maximum parking duration applies. NPR now returns the last time at which the PSRight is valid. Beyond EndTimeRemark, NPR will consider the PSRight to be invalid.

The handling of the remark is up to the rights acquirer. The acquirer can present them as warnings to its customers (but leave the responsibility to terminate a PSRight in time to the customer). He can also actively ensure that an acquired PSRight cannot lose its validity before its end of use e.g. by sending a Revoke.

C. Annex C – List of error messages and informational messages

ErrorCode	ErrorDesc				
1	No current regulation for areamanager id				
	<areamanagerid>, area id <areaid></areaid></areamanagerid>				
2	Local time for areamanager id <areamanagerid>,</areamanagerid>				
	area id <areald>unknown</areald>				
3	No timeframe for day <daytimeframe>,</daytimeframe>				
	areamanager id <areamanagerid>, area id <areaid></areaid></areamanagerid>				
4	Fare for area manager id <areamanagerid>, area id</areamanagerid>				
	<areald>, <calculationcode> unknown</calculationcode></areald>				
5	No PSRight required				
7	No information available for price calculation				
8	Usage Id does not exist or is not valid				
9	Area could not be determined uniquely				
10	Area does not exist or is not valid				
11	Area manager does not exist or is not valid				
12	Geographical position is not provided				
13	Sellingpoint is not valid				
14	Date input is not valid				
100	Area is not provided				
101	Area is not valid				
102	No authorisation				
103	Invalid parking duration				
104	Checking organisation has no authorisation to check				
110	PS right not found				
111	Erroneous validity restricting window				
	Invalid AmountPSRight				
113	Invalid VATPSRight				
114	Extension of parking duration is not allowed				
115	Message already sent; deviating start or end time				
123	No information found for provided selection criteria				
201	Invalid process function				
202	Tag is not filled properly				
203	Rights acquirer not known				
204	It is not possible tot grant PSRightId				
205	Selling point not known				
206					
302	Technical failure, please contact Service House				
	Parking				
999	Technical failure, please contact ICT Servicedesk				

D. Annex D – XSD

This section contains version 4.10 of the XSD as defined for URL https://psb.rdw.nl/bevraging/rpv/201205/registration.svc.

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://rdw.nl/rpv/1.0" elementFormDefault="qualified" targetNamespace="http://rdw.nl/rpv/1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema">
 <xs:annotation>
  <xs:documentation>Content:
                                             RPV messages</xs:documentation>
  <xs:documentation>Interface description:
                                             v2.10</xs:documentation>
  <xs:documentation>Includes message:
                                             PSRightEnrollRequest</xs:documentation>
                                             PSRightEnrollResponse</xs:documentation>
  <xs:documentation>Includes message:
  <xs:documentation>Includes message:
                                             PSRightRevokeRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             PSRightRevokeResponse</xs:documentation>
  <xs:documentation>Includes message:
                                             PSRightCheckRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             PSRightCheckResponse</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveAreaRegulationFareInfoReguest</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveAreaRegulationFareInfoResponse</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveRightInfoRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveRightInfoResponse</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveCheckInfoRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveCheckInfoResponse</xs:documentation>
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                                             RecalculatePriceRequest</xs:documentation>
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                                             RecalculatePriceResponse</xs:documentation>
  <xs:documentation>Includes message:
                                             CalculatePriceRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             CalculatePriceResponse</xs:documentation>
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                                             RetrieveAreasByLocationRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             RetrieveAreasByLocationResponse</xs:documentation>
  <xs:documentation>Includes message:
                                             StatusRequestRequest</xs:documentation>
  <xs:documentation>Includes message:
                                             StatusRequestResponse</xs:documentation>
  <xs:documentation>Status:
                                             Draft</xs:documentation>
 </xs:annotation>
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                      <xs:complexType>
                                             <xs:element minOccurs="1" maxOccurs="1" name="PSRightEnrollRequestData" type="tns:PSRightEnrollRequestData" />
                                  </xs:sequence>
                       </xs:complexType>
           </xs:element>
           <xs:complexType name="PSRightEnrollRequestData">
                       <xs:sequence>
                                 <xs:element minOccurs="1" maxOccurs="1" name="VehicleId" type="tns:StringOf25Type" />
                                 <xs:element minOccurs="0" maxOccurs="1" nillable="true" name="CountryCodeVehicle" type="tns:UneceLandCodesType" />
                                 <xs:element minOccurs="0" maxOccurs="1" nillable="true" name="AreaManagerId" type="tns:Numeric4Type" />
                                  <xs:element minOccurs="0" maxOccurs="1" nillable="true" name="AreaId" type="tns:StringOf10Type" />
                                 <xs:element minOccurs="0" maxOccurs="1" name="LocationPSRight">
                                             <xs:complexType>
                                              <xs:sequence>
                                                         <xs:element minOccurs="1" maxOccurs="1" name="Latitude" type="tns:CoordinatesType" />
                                                        <xs:element minOccurs="1" maxOccurs="1" name="Longitude" type="tns:CoordinatesType" />
```

```
</xs:sequence>
                                       </xs:complexType>
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```

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<xs:documentation>*** Section 3: DateTime types ***</xs:documentation>
</xs:annotation>
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<xs:annotation>
<xs:documentation>*** Section 4: Types with a complex restriction ***</xs:documentation>
<xs:documentation>*** Items in alphabetical order ***</xs:documentation>
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 <xs:enumeration value="DONDERDAG"/>
 <xs:enumeration value="VRIJDAG"/>
 <xs:enumeration value="ZATERDAG"/>
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<xs:simpleType name="IndicatorYNType">
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```
<xs:enumeration value="N"/>
 <xs:enumeration value="y"/>
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</xs:restriction>
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<xs:restriction base="xs:nonNegativeInteger">
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 <xs:enumeration value="2"/>
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</xs:simpleType>
<xs:annotation>
<xs:documentation>Over MessageCodesRPV</xs:documentation>
<xs:documentation>Nu een "losse" validatie toegepast
<xs:documentation>Deze kan in de toekomst strikter</xs:documentation>
</xs:annotation>
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 <xs:enumeration value="AZ"/>
 <xs:enumeration value="B"/>
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```

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<xs:enumeration value="BW"/>
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```

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```