RIMS Interface Technical Specification

Online Driver’s License Renewal

Version 1.6

**Purpose:** Technical Specification for facilitating Online Driver’s License Renewal for RI DMV customer through DMV website

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**Audience:** Developers, Testers, Third Parties, Trainers

**Inputs:** I38A – Interface Spec-L1 Issuance

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**Version History**

|  |  |  |  |
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# Overview

This document will serve to describe the technical details of the web service interface between the RI.Gov and the RI DMV for allowing Online Driver’s License Renewal for RI DMV customer via DMV website.

# Architecture Diagram

## Communication Mechanism

The interface will be implemented via web service. The service will expose the appropriate web method and will be used to receive and return SOAP messages. The interface will receive and process the SOAP messages and respond with additional information based on business rules.

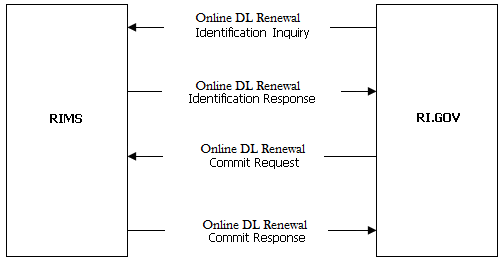
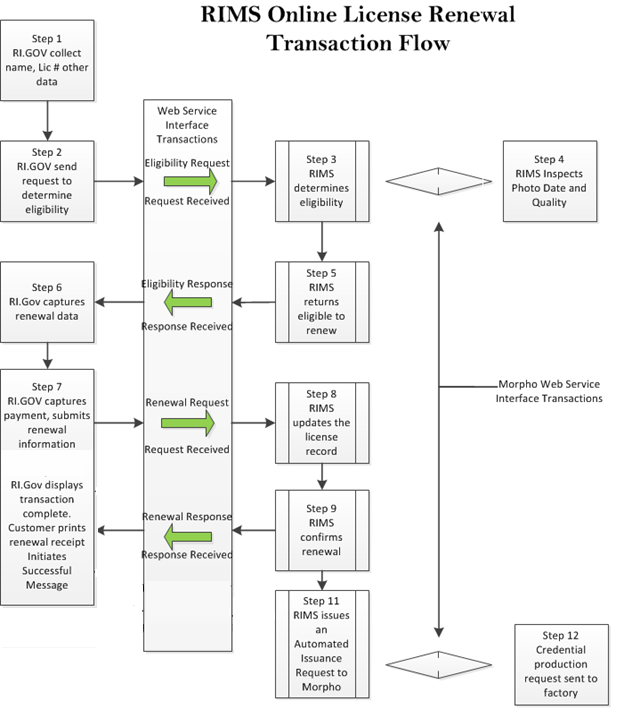


Figure -: Context Diagram

The RIMS interface will expose two web server methods for Online DL Renewal Identification and Online DL Renewal Commit.

Online DL Renewal Identification – This web method is used to perform customer identification and validation in RIMS database based of input parameters.

Online DL Renewal Commit – This web method is used to perform actual driver license renewal using Online DL Renewal Identification Method.



# Message Description

### Online DL Renewal Identification Message

## Input Message Fields (RI.Gov→RIMS)

| Field Name | Field Description |
| --- | --- |
| License number | Driver’s license number that needs to be renewed |
| Last name | Operator’s last name |
| Date of birth | Operator’s date of birth |
| Zip code | Operator’s zip code |

## Response Message Fields (RIMS→RI.Gov)

|  |  |
| --- | --- |
| Field Name | Field Description |
| Eligibility Response Code | Numeric response code that indicates the following:  00 – Missing Mandatory fields  01 – Eligible for renewal  02 – No license record was found matching your input  03 – Record Error  04 – Driver License number is invalid  05 – Too Early to Renew  06 – Too Late to Renew  07 – SSN Verification Failed  08 - CDL  09 – ID Card Assigned  10 – PDPS Match  11 – CDLS Match  12 – Income Tax  13 – Temporary License  14 – Military License  15 – Consecutive Renewal  16 – Failed Age Requirement  17 - A new photo is required  18- Suspended License  19 – Insurance  20 – Learner Permit  21 – Toll Block  99 – Default DMV Error |
| License number | Driver’s license number that needs to be renewed. As received in input record. |
| Last name | Operator’s last name. As received in input record. |
| Date of birth | Operator’s date of birth. As received in input record. |
| Zip code | Operator’s zip code. As received in input record. |
| First Name | First Name form matching customer record |
| Current Street Address | Street1 + Street2 from matching customer record |
| Current City | Current City |
| Current State | Current State from Customer record. |
| Current Zip | Current Zip from Customer record. |
| Current Mailing Street Address | Mailing Street1 + Street2 from matching customer record |
| Current Mailing City | Mailing Current City |
| Current Mailing State | Mailing Current State from Customer record. |
| Current Mailing Zip | Mailing Current Zip from Customer record. |
| Statutory Renewal Fee | Statutory fee, numeric value with 2 decimal places. Only for transactions that are eligible for renewal, otherwise null value is returned. |
| DMV Technology Fee | Technology fee, numeric value with 2 decimal places. Only for transactions that are eligible for renewal, otherwise null value is returned |
| DOT Surcharge Fee | Surcharge fee, numeric value with 2 decimal places. Only for transactions that are eligible for renewal, otherwise null value is returned |
| Next License Expiration Date | Date in mmddyyyy format, which will be the date of next expiration, if the license were to be successfully renewed. Only for transactions that are eligible for renewal, otherwise null value is returned |
| License Restriction | List of restriction on Customer record. |
| License Endorsements | List of endorsements on the Customer record. |
| Gender Code | Gender code for matching customer record  M-Male  F-Female  U-Unknown |
| Current Expiration | Current expiration date on matching license |
| Veteran Designation | Veteran Status on License  True- Veteran  False – Non Veteran |
| Disabled Veteran Designation | Disabled Veteran Status on License  True- Disabled Veteran  False – Not a Disabled Veteran |

# Business Rules

|  |  |
| --- | --- |
| Business Rule# | Business Rule Description |
| 1 | Following fields are mandatory in input record.   * License number * Last name * Date of birth * Zip code   If input record fails this validation, the system will return 00 – Missing Mandatory fields as the response code. |
| 2 | If the given input fields is found with an error, the system will return ‘03 as the response code.  If DOB is not with the given format mm/dd/yyyy  Zip code with ‘5’ integers  Customer Last Name, DOB and Zip code will be validated first. |
| 3 | If the given license number is found invalid, then the system will return 04 as the response code. If the License is <> 7 or 8 integers then the license number is considered to be invalid. |
| 4 | RIMS will use following fields to find a matching customer in RIMS   * License number (Include match on CDL\State ID\Learner Permit while matching on License Number) * Last name * Date of birth * Zip code   If no record is found RIMS will return 02 – No license record was found matching your input as the response code. |
| 5 | If the customer holds an Active Driver License, the customer can renew their license up to 90 days prior to the expiration date of the license. If the user starts this transaction more than 90 days before the expiration date, the system will return 05 – Too Early to Renew as the response code. |
| 6 | If the customer’s Driver license has been expired for 5 years or more, the system will return 06 – Too Late to Renew as the response code. |
| 7 | System will check if customer have an SSN on record and has not been successfully verified with SSOLV in past. If Not, the system will initiate SSOLV interface to check the SSN associated with the customer’s record. If the SSOLV fails to verify SSN the system will return 07 – SSN Verification Failed as the response code. |
| 8 | If the matching license record is an active CDL in RIMS, the system will return 08 - CDL as the response code. |
| 9 | If the matching license record is an active State ID in RIMS, the system will return 09 - ID Card as the response code. |
| 10 | RIMS will perform the PDPS check on the matching license record. If any hit with DL Eligibility status as Not Eligible or Reported Deceased (RPD) is found in PDPS system, RIMS will return 10 – PDPS Match as the response code. |
| 11 | RIMS will perform the CDLIS check on the matching license record. If any hit with DL Eligibility status as Not Eligible or Reported Deceased (RPD) is found in CDLIS system, RIMS will return 11 – CDLIS Error Match as the response code. |
| 12 | If an Income Tax Block is found on customer record the system will return 12 – Income Tax Block record as the response code. |
| 13 | If the user is on temporary status (all Non-US citizens – including permanent residents) the system will 13 – Temporary License as the response code. |
| 14 | If the user is on military status, the system will) the system will return 14– Military License as the response code. |
| 15 | If the user renewed online during the last five-year renewal period, system will return 15 – Consecutive renewal as the response code. |
| 16 | RIMS will perform the upper age requirement check based on the defined in underlying DL renewal transaction, if the validation fails the system will return 16 – Cannot be renewed online as the response code. |
| 17 | For a matching customer, RIMS will check if a recently issued Photo is available in Morpho record. If a Photo is available it must not be more than 5 Years and 90 days older.  If record fails this validation, RIMS will return 17 – Photo validation fail as the response code. |
| 18 | If an Active DL Suspension is found on customer record the system will return 18 – Suspended License record as the response code. |
| 19 | If an active ‘ZM’ block is found on the customer record the system will return 19 - Insurance as the response code. |
| 20 | If the matching license record is a Learner Permit, the system will return 20 – Learner Permit as the response code. |
| 21 | If an active Toll block is found on the customer record the system will return 21 – Toll Block, as the response code. |
| 22 | In the case of technical error on RIMS side, the system will return 99 – DMV Error as the response code |
| 23 | If none of the above error found on matching customer record, RIMS will return 01 – Eligible for renewal as the response code.  RIMS will also return following fields:   * First Name - First Name form matching customer record * Current Street Address - Street1 + Street2 from matching customer record * Current City - Current City * Current State - Current State from Customer record. * Current Zip - Current Zip from Customer record. * Current Mailing Street Address - Street1 + Street2 from matching customer record * Current Mailing City - Current City * Current Mailing State - Current State from Customer record. * Current Mailing Zip - Current Zip from Customer record. * Statutory Renewal Fee – The DL Renewal fee for the matching DL Record. * Gender Code – Gender code of matching customer * Veteran Indicator – Veteran Indicator * Current Expiration Date- Current Expiration date on matching license * Restrictions- List of Restrictions on Customer Record * DMV Technology Fee – DMV Technology Fee * DOT Surcharge Fee – DOT Surcharge * Next License Expiration Date – The Expiration date that will be on renewed license. |

# Online DL Renewal Commit Message

## Input Message Fields (RI.Gov→RIMS)

| Field Name | Field Description |
| --- | --- |
| License Number | Driver’s license number that needs to be renewed |
| Last Name | Operator’s last name |
| Date of Birth | Operator’s date of birth |
| Zip Code | Operator’s zip code |
| Organ Donor | Customer’s response on whether the customer wants to be an organ donor |
| Voter Registration | Customer’s response on whether the customer wants to register to vote |
| Party Affiliation | Customer response on the corresponding party affiliation |
| Transaction Date Time | Transaction Date Time |
| Transaction ID | Transaction identification number |
| Prohibit disclosure of personal information | True  False |

## Response Message Fields (RIMS→RI.Gov)

| Field Name | Field Description |
| --- | --- |
| Transaction Response Code | Numeric response code that indicates the following:  00 – Unable to renew license  01 – Renewal successful |
| Renewal Status Code | Renewal Status code from Online DL Renewal Identification |
| Transaction Number | Unique sequential number generated by RIMS if the transaction is successful |
| License Expiration Date | Date in mmddyyyy format, the expiration date calculated by RIMS upon renewal of the license |
| License Number | Driver’s license number that needs to be renewed. As received in input record. |
| Last Name | Operator’s last name. As received in input record. |
| Date of Birth | Operator’s date of birth. As received in input record. |
| Zip Code | Operator’s zip code. As received in input record. |

# Business Rules

|  |  |
| --- | --- |
| Business Rule# | Business Rule Description |
| 1 | The following fields are mandatory in input record.   * License Number * Last Name * Date of Birth * Zip Code * Organ Donor * Voter Registration * Party Affiliation(Only when Voter Registration is Yes)   If input record fails this validation, the system will return 00 – Unable to renew license as the Transaction response code and 00 as the Renewal Status Code. |
| 2 | If all mandatory fields are provided in request message, RIMS will run the License Renewal Verification message internally.  If the response code for the License Renewal Verification message is not 01, the system will return 00 – Unable to renew license as the Transaction response code and Renewal Status Code as generated by the License Renewal Verification. |
| 3 | If the response code returned by the License Renewal Verification is 01, RIMS will renew the license. In additional to renewal RIMS will also update the Voter Registration and Organ Donor choice of the customer as received in the License Renewal Commit message. |
| 4 | Upon License renewal, RIMS will send the Print Credential Request to the Morpho System. For the Print Credential Request, RIMS will use the Most Recently Issue Photo on the customer record.  The RIMS transaction type will be DL Renewal, and the user assigned to the transaction will be RI.gov to represent the transaction was done online. |
| 5 | If RIMS is successfully able to renew the license of matching customer, it will return the Transaction Number and License Expiration date in the Response message, otherwise these two field will be left blank in response message. |

# Sample Message

* 1. **License Renewal Verification XML Message**
     1. **Inquiry Message**

<hp:LicenseRenewalIdentificationInquiry>

<hp:renewalIdentificationInquiry>

<hp1:DateofBirth>?</hp1:DateofBirth>

<hp1:LastName>?</hp1:LastName>

<hp1:LicenseNumber>?</hp1:LicenseNumber>

<hp1:ZipCode>?</hp1:ZipCode>

</hp:renewalIdentificationInquiry>

</hp:LicenseRenewalIdentificationInquiry>

* + 1. **Response Message**

<LicenseRenewalIdentificationInquiryResponsexmlns="HP.Comet.External.Inbound.Services.Contracts">

<LicenseRenewalIdentificationInquiryResult xmlns:a="HP.Comet.External.Inbound.Data.Contracts" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<a:CurrentExpiration>?</a:CurrentExpiration>

<a:CurrentMailingAddress>

<a:City>?</a:City>

<a:State>?</a:State>

<a:StreetAddress>?</a:StreetAddress>

<a:ZipCode>?</a:ZipCode>

</a:CurrentMailingAddress>

<a:CurrentPhysicalAddress>

<a:City>?</a:City>

<a:State>?</a:State>

<a:StreetAddress>?</a:StreetAddress>

<a:ZipCode>?</a:ZipCode>

</a:CurrentPhysicalAddress>

<a:DLEndorsements xmlns:b="HP.Comet.Business.Driver.Data.Contracts">

<b:DLEndorsement xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">

<c:string>M</c:string>

</b:DLEndorsement>

</a:DLEndorsements>

<a:DLRestrictions xmlns:b="HP.Comet.Business.Driver.Data.Contracts">

<b:DLRestriction xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">

<c:string>?</c:string

</b:DLRestriction>

</a:DLRestrictions>

<a:DateofBirth>?</a:DateofBirth>

<a:DisabledVeteran>?</a:DisabledVeteran>

<a:EligibilityResponseCode>?</a:EligibilityResponseCode>

<a:FirstName>?</a:FirstName>07/02

<a:GenderCode>?</a:GenderCode>

<a:LastName>?</a:LastName>

<a:LicenseNumber>?</a:LicenseNumber>

<a:NextLicenseExpirationDate>?</a:NextLicenseExpirationDate>

<a:RenewalFee>

<a:DmvTechnologyFee>?</a:DmvTechnologyFee>

<a:DotSurchargeFee>?</a:DotSurchargeFee>

<a:StatutoryRenewalFee>?</a:StatutoryRenewalFee>

</a:RenewalFee>

<a:VeteranDesignation>?</a:VeteranDesignation>

<a:ZipCode>?</a:ZipCode>

</LicenseRenewalIdentificationInquiryResult>

</LicenseRenewalIdentificationInquiryResponse>

**License Renewal Commit XML Message**

* + 1. **Inquiry Message**

<hp:LicenseRenewalCommitRequest>

<hp:renewalCommitRequest>

<hp1:DateofBirth>?</hp1:DateofBirth>

<hp1:LastName>?</hp1:LastName>

<hp1:LicenseNumber>?</hp1:LicenseNumber>

<hp1:OrganDonor>?</hp1:OrganDonor>

<hp1:PartyAffiliation>?</hp1:PartyAffiliation> <hp1:ProhibitDisclosureOfPersonalInformation>?</hp1:ProhibitDisclosureOfPersonalInformation>

<hp1:TransactionDateTime>?</hp1:TransactionDateTime> <hp1:TransactionId>?</hp1:TransactionId>

<hp1:VoterRegistration>?</hp1:VoterRegistration>

<hp1:ZipCode>?</hp1:ZipCode>

</hp:renewalCommitRequest>

</hp:LicenseRenewalCommitRequest>

* + 1. **Response Message**

<LicenseRenewalCommitRequestResponse xmlns="HP.Comet.External.Inbound.Services.Contracts">

<LicenseRenewalCommitRequestResult xmlns:a="HP.Comet.External.Inbound.Data.Contracts" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">

<a:DateOFBirth>?</a:DateOFBirth>

<a:LastName>?</a:LastName>

<a:LicenseExpirationDate>?</a:LicenseExpirationDate>

<a:LicenseNumber>?</a:LicenseNumber>

<a:RenewalStatusCode>?</a:RenewalStatusCode>

<a:TransactionNumber>?</a:TransactionNumber>

<a:TransactionResponseCode>?</a:TransactionResponseCode>

<a:ZipCode>?</a:ZipCode>

</LicenseRenewalCommitRequestResult>

</LicenseRenewalCommitRequestResponse>

# Additional Requirements

## Logging

Every Inbound and outbound message will be archived by RIMS for logging purposes at the framework level. Please Refer to RIMS Interface Technical Specification-Common Feature for more details.

## Technical Contacts

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