



TRANSPORT

 **ITDB** Web Service

ITDB Seminar - Geneva 14th of June 2018



Web Interface



Web Service Interface



API



Customs National System

## Web application Interface



get Holder information



*Request*

 ITDB





## Web application Interface



The screenshot shows a web browser window with the URL <https://itdb.unece.org/holders/transporter/show/>. The page displays a 'Holder' profile for a TIR Carnet Holder. The profile includes the following information:

- TIR Carnet Holder**
  - Holder ID: PL-00-00000000000000000000000000000000
  - Company Name: [REDACTED]
  - Association: [REDACTED]
  - Business registration or license number: [REDACTED]
- Business Address**
  - Street, no.: [REDACTED]
  - City: [REDACTED]
  - PO Box: [REDACTED]
  - Country: Poland
  - Zip Code: PL-75-000
- Contact**
  - Phone: +48 24 342 08 10
- Holder Status**
  - Status: Authorized
  - Authorization Date: 17/02/1999
- Metadata**
  - Created by: [REDACTED]
  - Creation Date: 08 May 2017 10:02:00
  - Modified by: [REDACTED]
  - Last Updated: 08 May 2017 10:02:00

At the bottom of the page, it says 'Version 2.0 (S.12)' and 'Copyright © - UNECE. All rights reserved.'



*Response*

## Web service

Customs  
National System



get Holder information



*Request*

 ITDB





## Web service

### Customs National System



```
{
  "error": null,
  "functionalReference": "",
  "holder": {
    "address": {
      "cityName": "City",
      "country": "Country Code",
      "postCode": "Post Code",
      "streetAndPoBox": "Street"
    },
    "authorization": {
      "activeExclusion": null,
      "activeWithdrawal": null,
      "currentStatus": "001"
    },
    "code": "Holder ID",
    "name": "Company Name"
  },
  "messageFunction": "11",
  "messageReferenceNumber": "",
  "type": "I4"
}
```

*Response*

 ITDB





*What we did  
to facilitate its use*



## Old ITDB - SOAP Web Service



Modify National System



Generate the client certificate



Generate the public and private keys



Create a trust-store and a key-store and connect them to the application



Install the server's certificate and public key

## New ITDB - REST Web Service



Modify National System

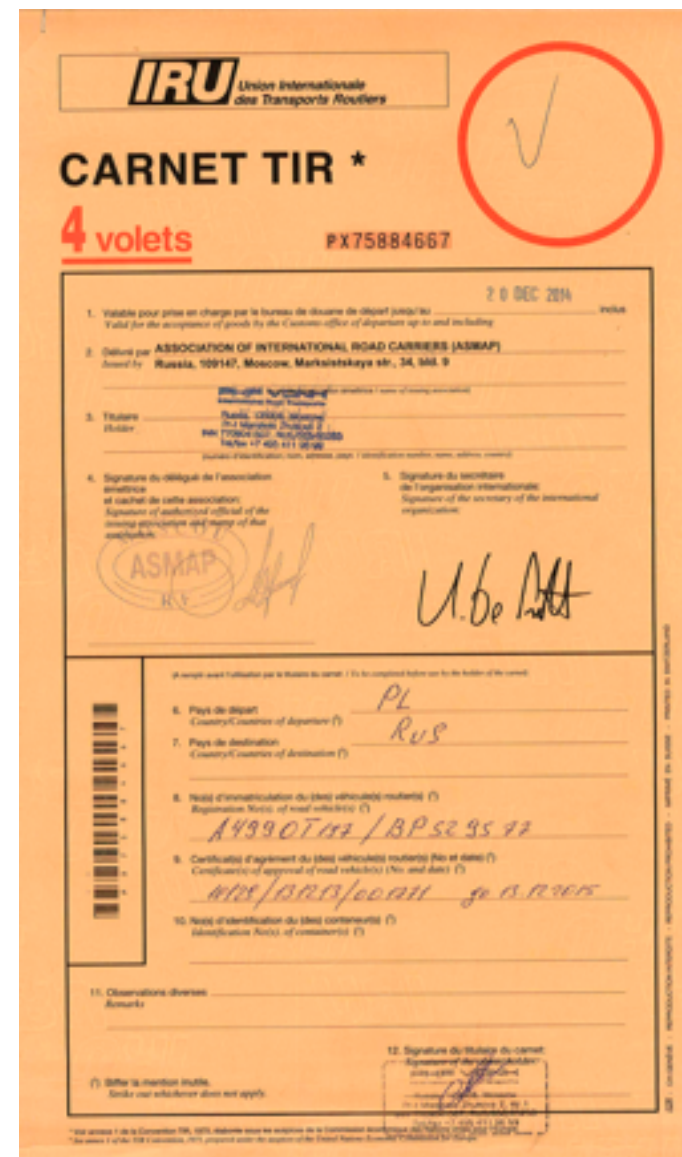


Install UNECE's certificate





# *Benefits*

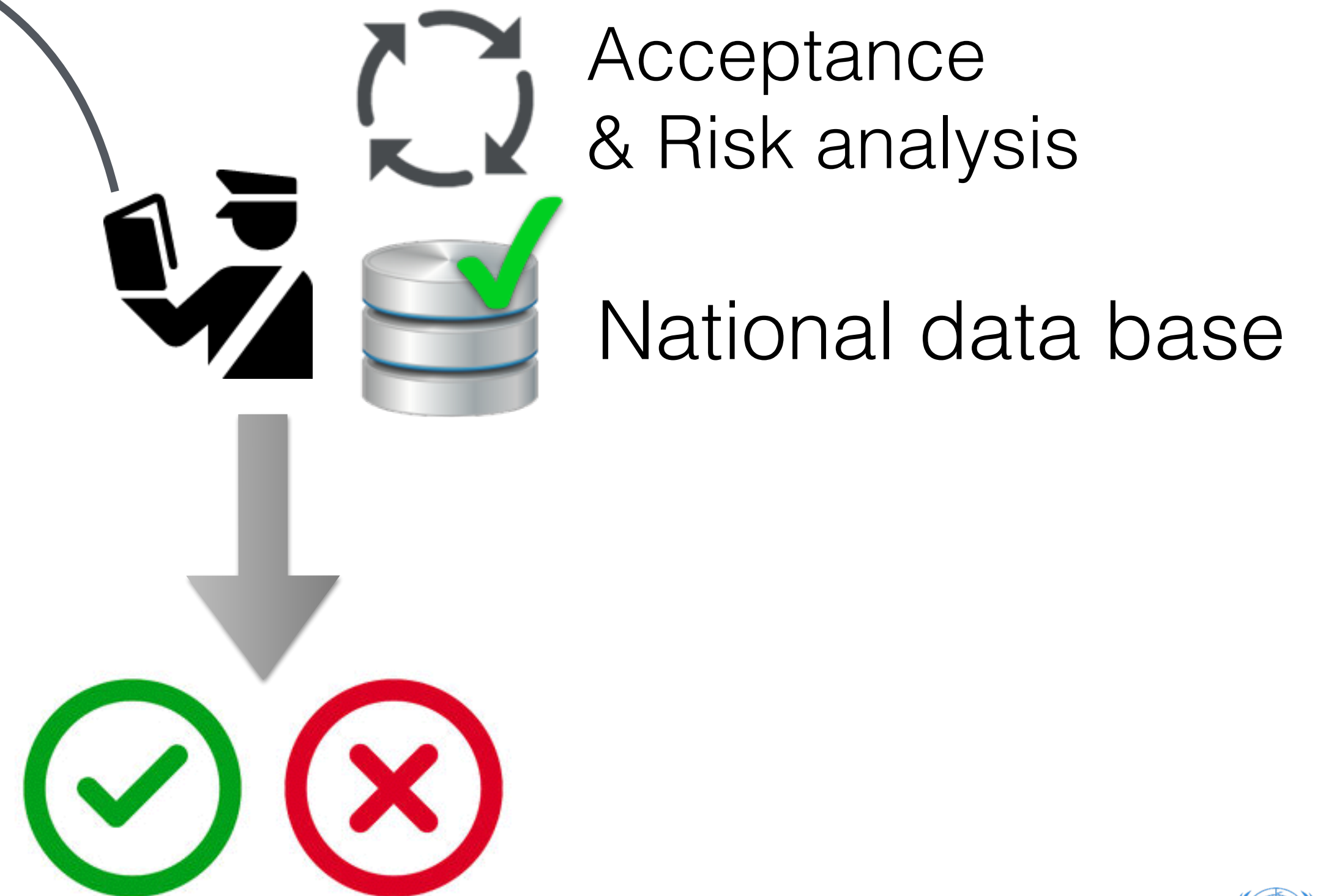
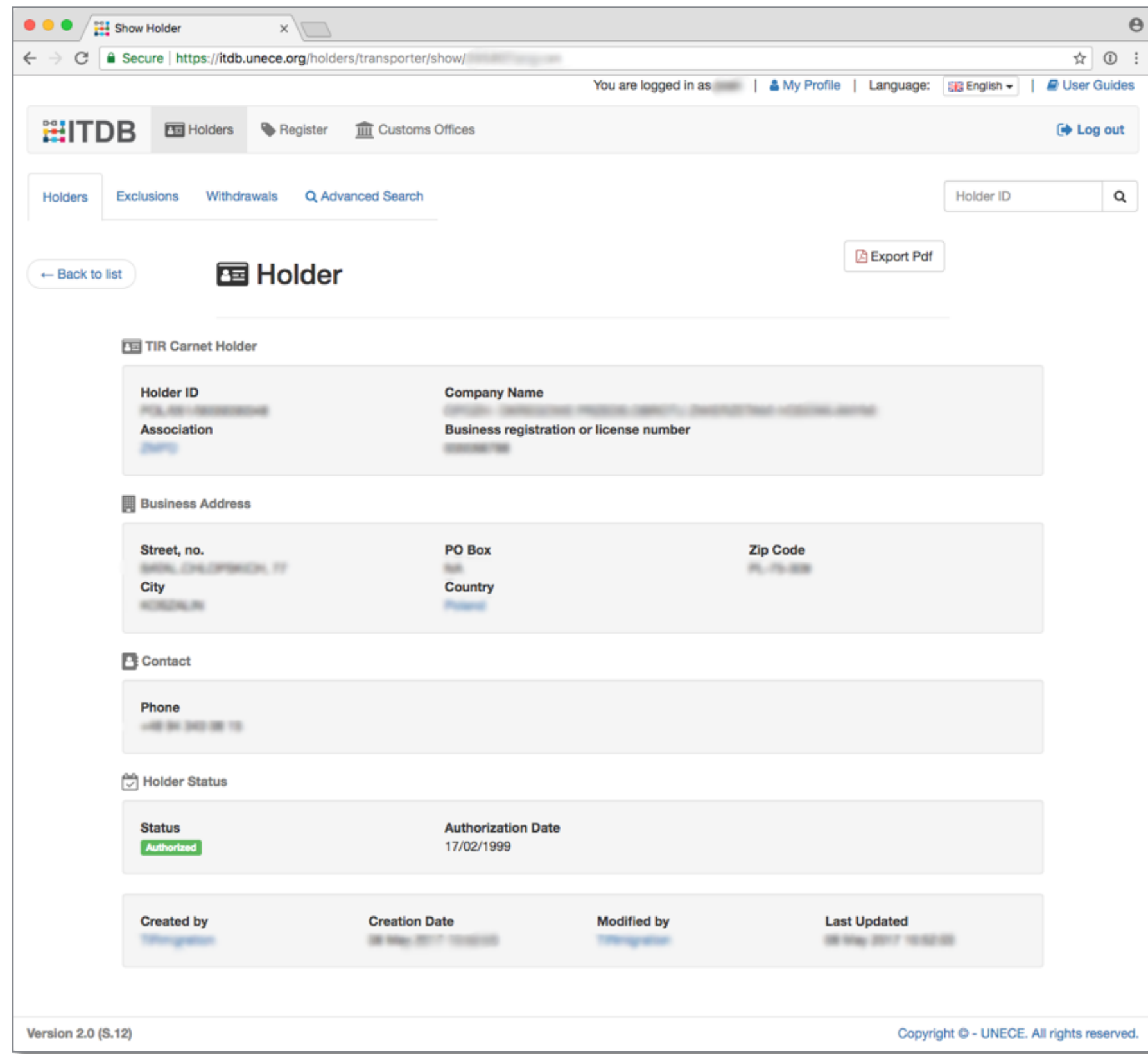


Acceptance & Risk analysis



National data base







The screenshot displays the ITDB web service interface for a 'Holder' profile. The page is titled 'Holder' and includes a search bar for 'Holder ID'. The profile details are as follows:

TIR Carnet Holder	
Holder ID	Company Name
Association	Business registration or license number

Business Address		
Street, no.	PO Box	Zip Code
City	Country	

Contact	
Phone	

Holder Status	
Status	Authorization Date
Authorized	17/02/1999

Created by	Creation Date	Modified by	Last Updated

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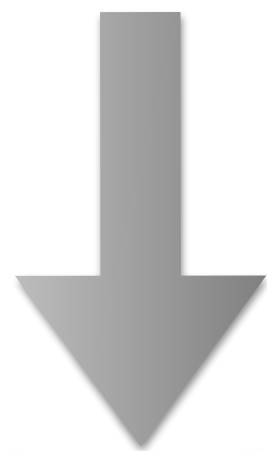


Acceptance  
& Risk analysis



National data base

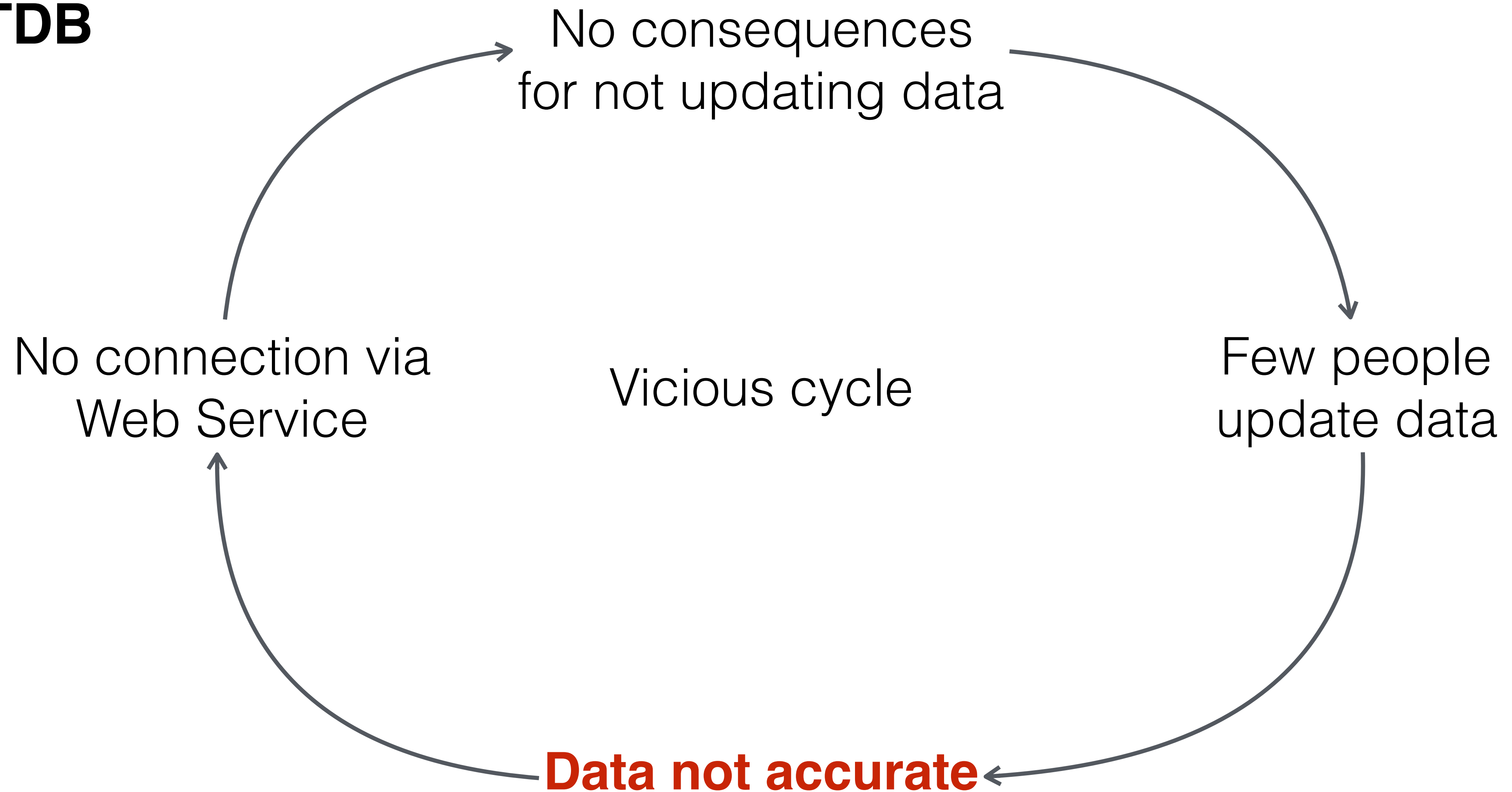
 **ITDB**  
Web Service



**100% Holders Checked**

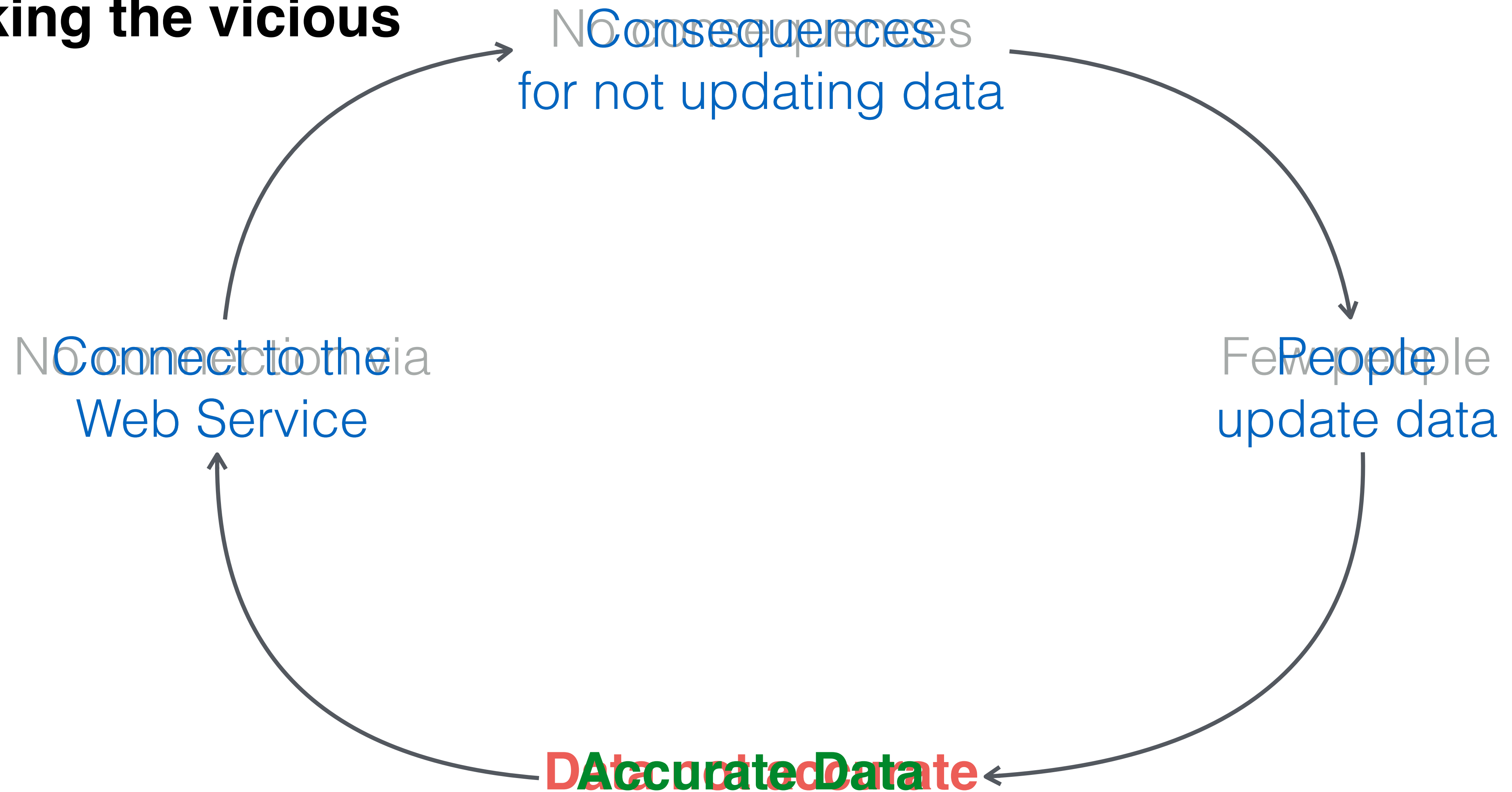


## Old ITDB Issues





## Breaking the vicious cycle





# *How it works*





## Web service

Customs  
National System



get Holder information ( **Holder ID** )



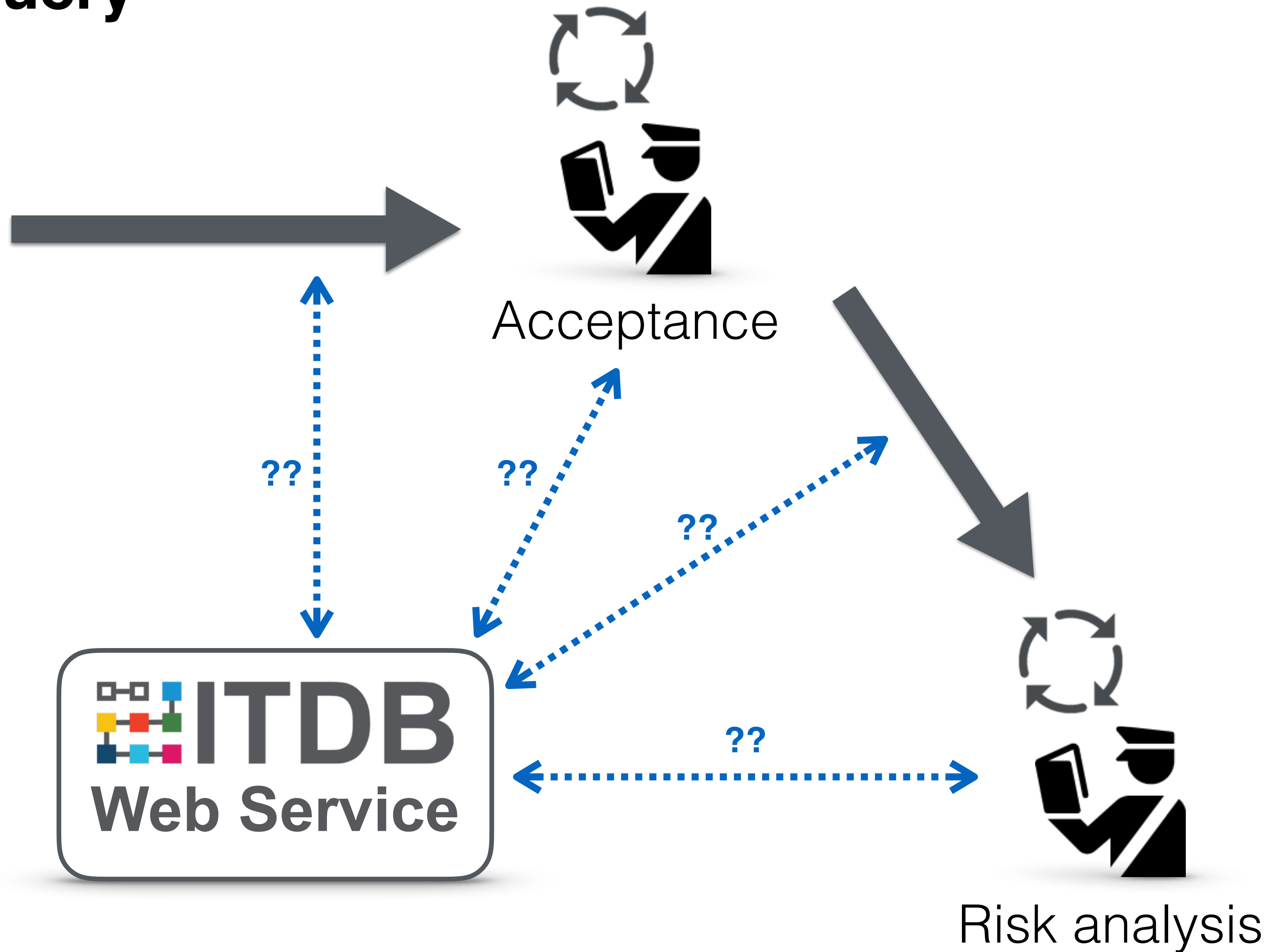
*Request*

 ITDB





## When to make the query

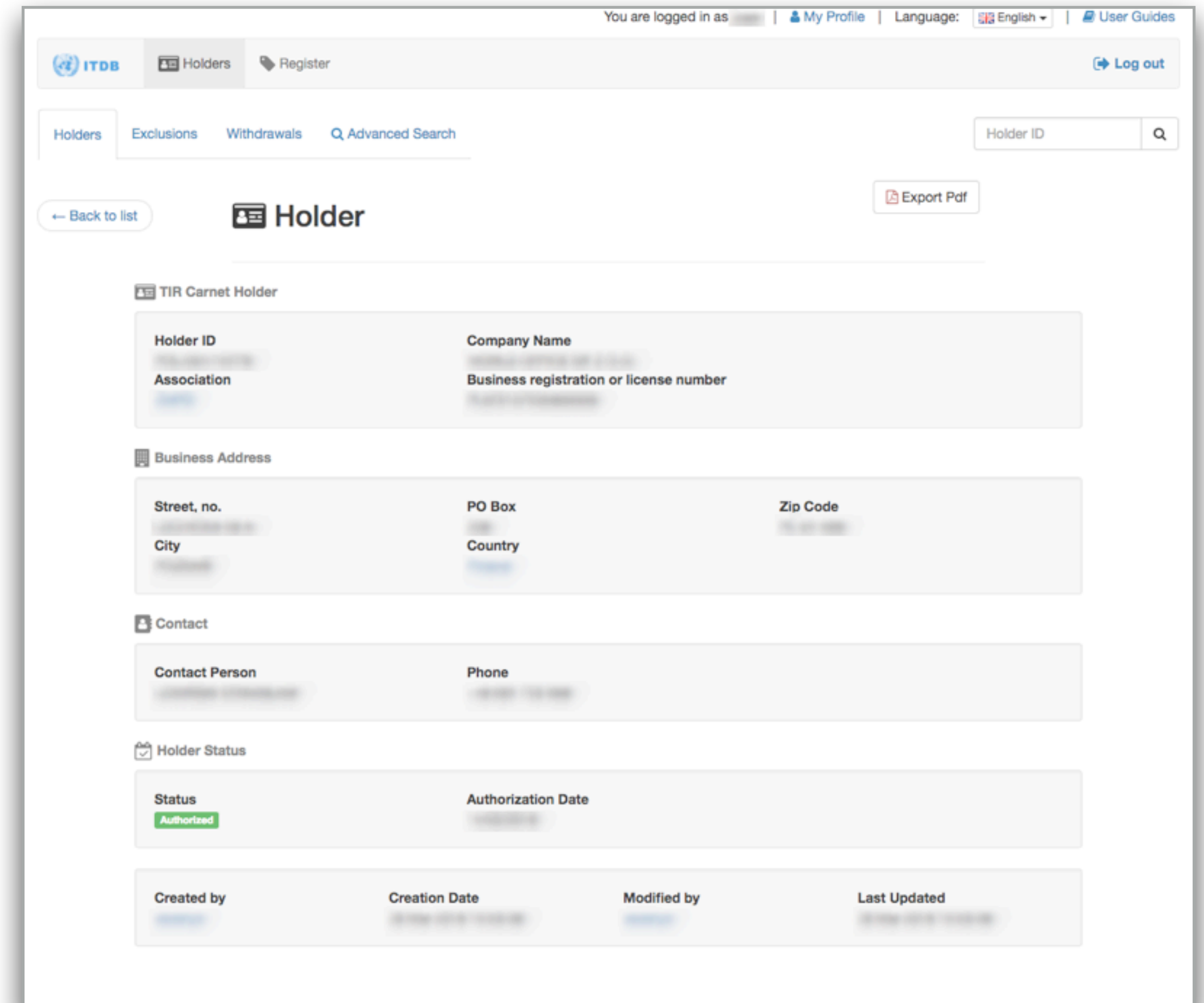




I4 message  
eTIR ref. Model

get Holder Information ( **Holder ID** )

```
{
  "error": null,
  "functionalReference": " ",
  "holder": {
    "address": {
      "cityName": "City",
      "country": "Country Code",
      "postCode": "Post Code",
      "streetAndPoBox": "Street"
    },
    "authorization": {
      "activeExclusion": null,
      "activeWithdrawal": null,
      "currentStatus": "001"
    },
    "code": "Holder ID",
    "name": "Company Name"
  },
  "messageFunction": "11",
  "messageReferenceNumber": " ",
  "type": "I4"
}
```





get Holder Information ( **Holder ID** )

*Holder status*

Code	Description
001	Authorized
002	Withdrawn (according to Annex 9, Part II)
003	End of activity
004	Excluded (according to Article 38)

```

{
  "error": null,
  "functionalReference": " ",
  "holder": {
    "address": {
      "cityName": "City",
      "country": "Country Code",
      "postCode": "Post Code",
      "streetAndPoBox": "Street"
    },
    "authorization": {
      "activeExclusion": [
        {
          "country": "RUS",
          "endDate": null,
          "startDate": "01/01/2015"
        }
      ],
      "activeWithdrawal": null,
      "currentStatus": "001"
    },
    "code": "Holder ID",
    "name": "Company Name"
  },
  "messageFunction": "11",
  "messageReferenceNumber": " ",
  "type": "I4"
}
    
```

**Authorized**

*See paragraph 31, WS - Customs Guide*



## get Holder Information ( **Holder ID** )

*Holder status*

Code	Description
001	Authorized
002	Withdrawn (according to Annex 9, Part II)
003	End of activity
<b>004</b>	<b>Excluded</b> (according to Article 38)

```

{
  "error": null,
  "functionalReference": " ",
  "holder": {
    "address": {
      "cityName": "City",
      "country": "Country Code",
      "postCode": "Post Code",
      "streetAndPoBox": "Street"
    },
    "authorization": {
      "activeExclusion": [
        {
          "country": "DEU",
          "endDate": null,
          "startDate": "01/01/2015"
        }
      ],
      "activeWithdrawal": null,
      "currentStatus": "004"
    },
    "code": "Holder ID",
    "name": "Company Name"
  },
  "messageFunction": "11",
  "messageReferenceNumber": " ",
  "type": "I4"
}
    
```

**Excluded**

*See paragraph 31, WS - Customs Guide*



## National TIR Program

TIR Program

Form fields and sections:

- Section 1: Name No. [input] [button]
- Section 2: Name No. [input] [button] / Transit Party [input] [button]
- Section 3: Transit Office [input] [button] / Transit Office [input] [button]
- Section 4: Transit Office [input] [button] / Transit Office [input] [button]
- Section 5: Transit Office [input] [button] / Transit Office [input] [button]
- Section 6: Transit Office [input] [button] / Transit Office [input] [button]
- Section 7: Transit Office [input] [button] / Transit Office [input] [button]
- Section 8: Transit Office [input] [button] / Transit Office [input] [button]
- Section 9: Transit Office [input] [button] / Transit Office [input] [button]
- Section 10: Transit Office [input] [button] / Transit Office [input] [button]
- Section 11: Transit Office [input] [button] / Transit Office [input] [button]
- Section 12: Transit Office [input] [button] / Transit Office [input] [button]
- Section 13: Transit Office [input] [button] / Transit Office [input] [button]
- Section 14: Transit Office [input] [button] / Transit Office [input] [button]
- Section 15: Transit Office [input] [button] / Transit Office [input] [button]
- Section 16: Transit Office [input] [button] / Transit Office [input] [button]
- Section 17: Transit Office [input] [button] / Transit Office [input] [button]
- Section 18: Transit Office [input] [button] / Transit Office [input] [button]
- Section 19: Transit Office [input] [button] / Transit Office [input] [button]
- Section 20: Transit Office [input] [button] / Transit Office [input] [button]



## Adapt your National System interface





# *Current status*





## Connected

CZE



FIN

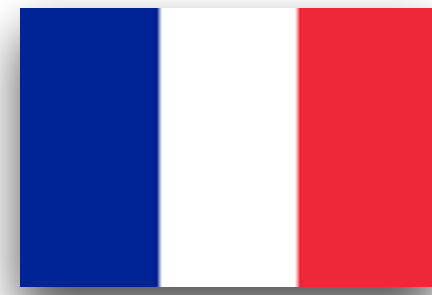


UZB



## In test

FRA



HUN



LVA



## Analysing

AZE



BIH



DNK



GRE



POL



ROU

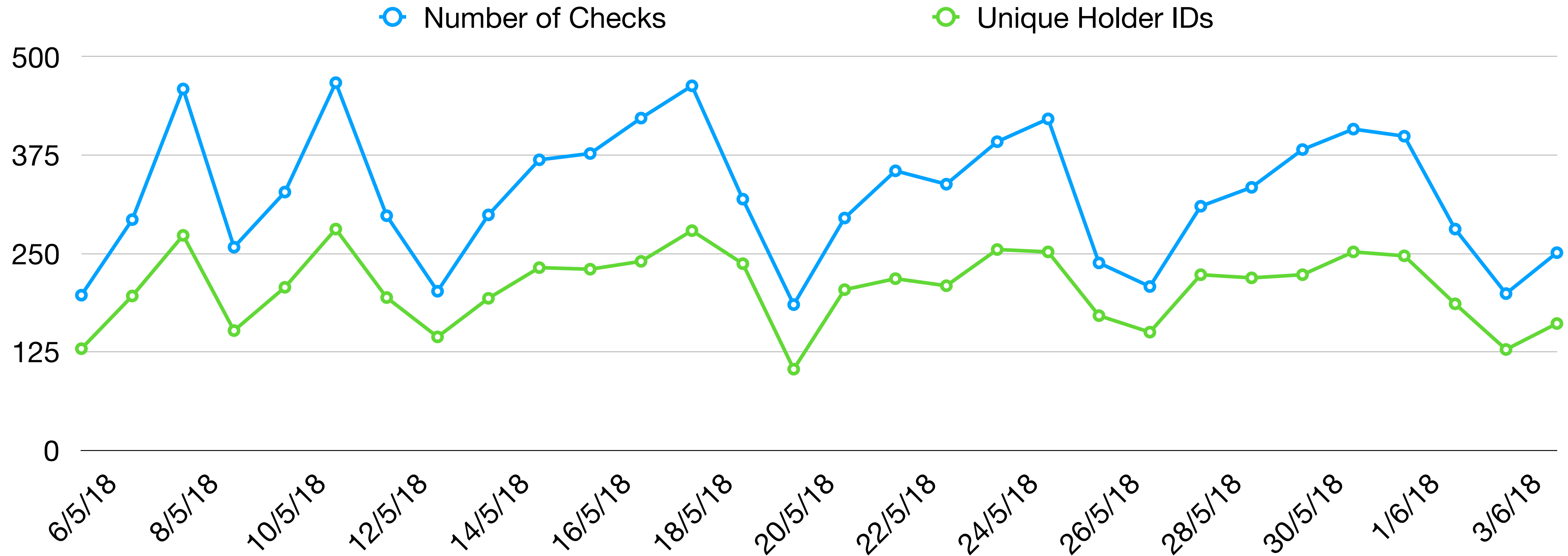


TUR



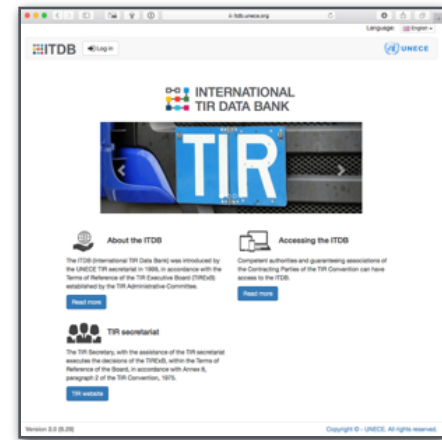


## Number of queries per day (3 connected countries)





## Current functionality



Web Interface

### HOLDERS:

- Holder list
- show Holder
- create/edit Holder
- Withdrawal list
- create/edit Withdrawal
- Exclusion list
- create/edit Exclusion

### REGISTER STAMPS & SEALING:

- country list
- show country details



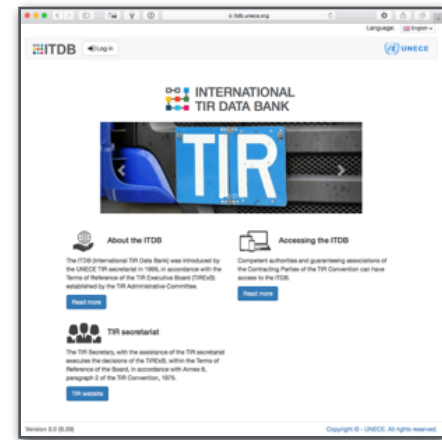
Web Service Interface

### HOLDERS:

- get Holder Information



## Current functionality



Web Interface

### HOLDERS:

- Holder list
- **show Holder**
- create/edit Holder
- Withdrawal list
- create/edit Withdrawal
- Exclusion list
- create/edit Exclusion

### REGISTER STAMPS & SEALING:

- country list
- show country details



Web Service Interface

### HOLDERS:

- **get Holder Information**



## Assistance by TIR secretariat



IT Guide & Customs Guide



IT department → contact TIR secretariat



Video conference



TRANSPORT



# Thank you!

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TIR secretariat  
**UNECE**

Mr. Joan Padreny  
Information Systems Officer  
TIR secretariat  
**UNECE**

