International TIR Data Bank

I19/I20 - web service for eTIR customs office validation

TIR Secretariat – GE.1 31st, 10-11 March 2020

In brief

- Context: eTIR international system (eTIR IS) implementation – Customs Office data validation

- Who: eTIR IS application (customs authorities and transporters only)
- What: customs office IDs/Codes received in "Ex" and "Ix" messages
- When: upon processing of E9, I7, I9, I11, I13 messages in eTIR IS
- Where: online in ITDB web services
- How: validation against ITDB Customs Offices data
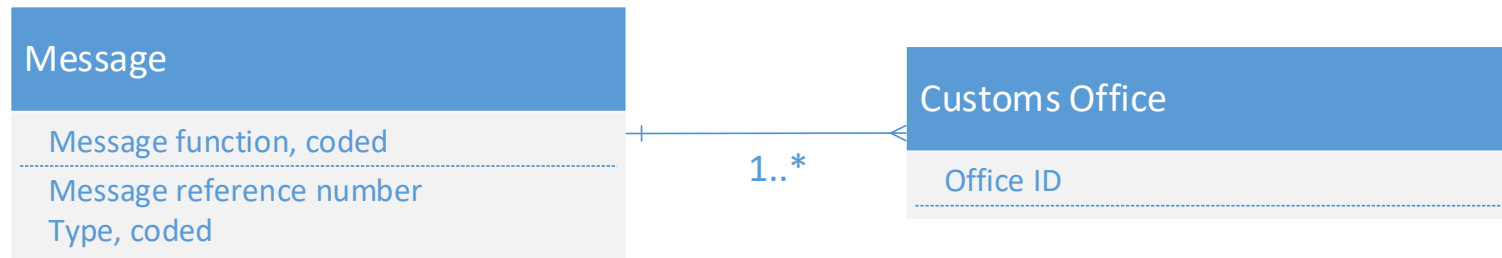→ Proposed name I19-I20: customs offices validation

Important note:
- This WS is not intended to be accessed by the public
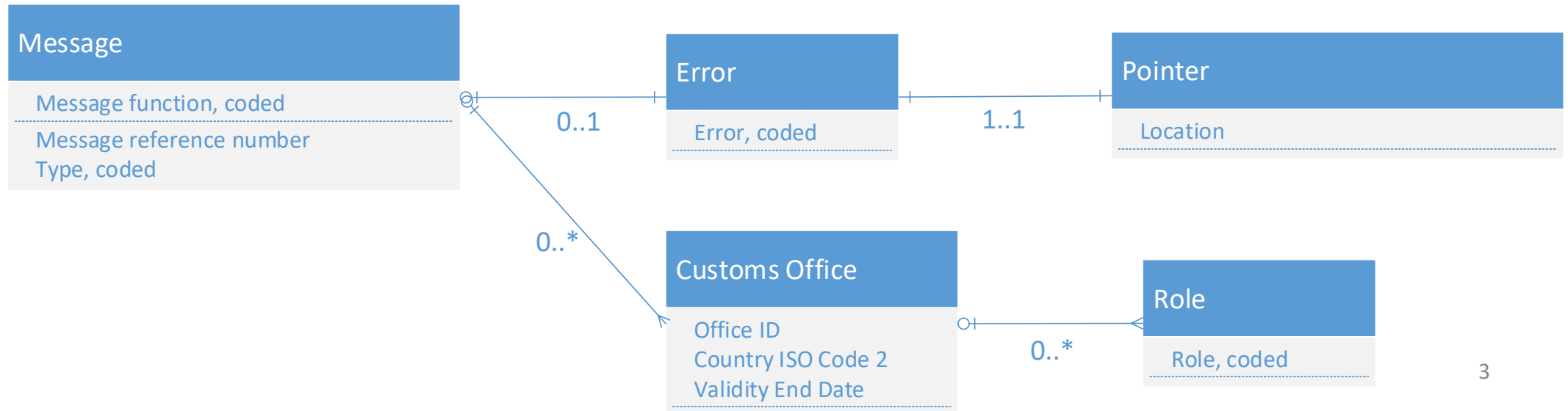- Transparent to customs authorities (no direct impact)

Message content and structure

- **I19:** check customs offices

Message		Customs Office
Message function, coded		Office ID
Message reference number		
Type, coded		

1..*

- **I20:** customs offices validation

Message		Error		Pointer
Message function, coded		Error, coded		Location
Message reference number				
Type, coded				

0..1

1..1

0..*

Customs Office		Role
Office ID		Role, coded
Country ISO Code 2		
Validity End Date		

0..*
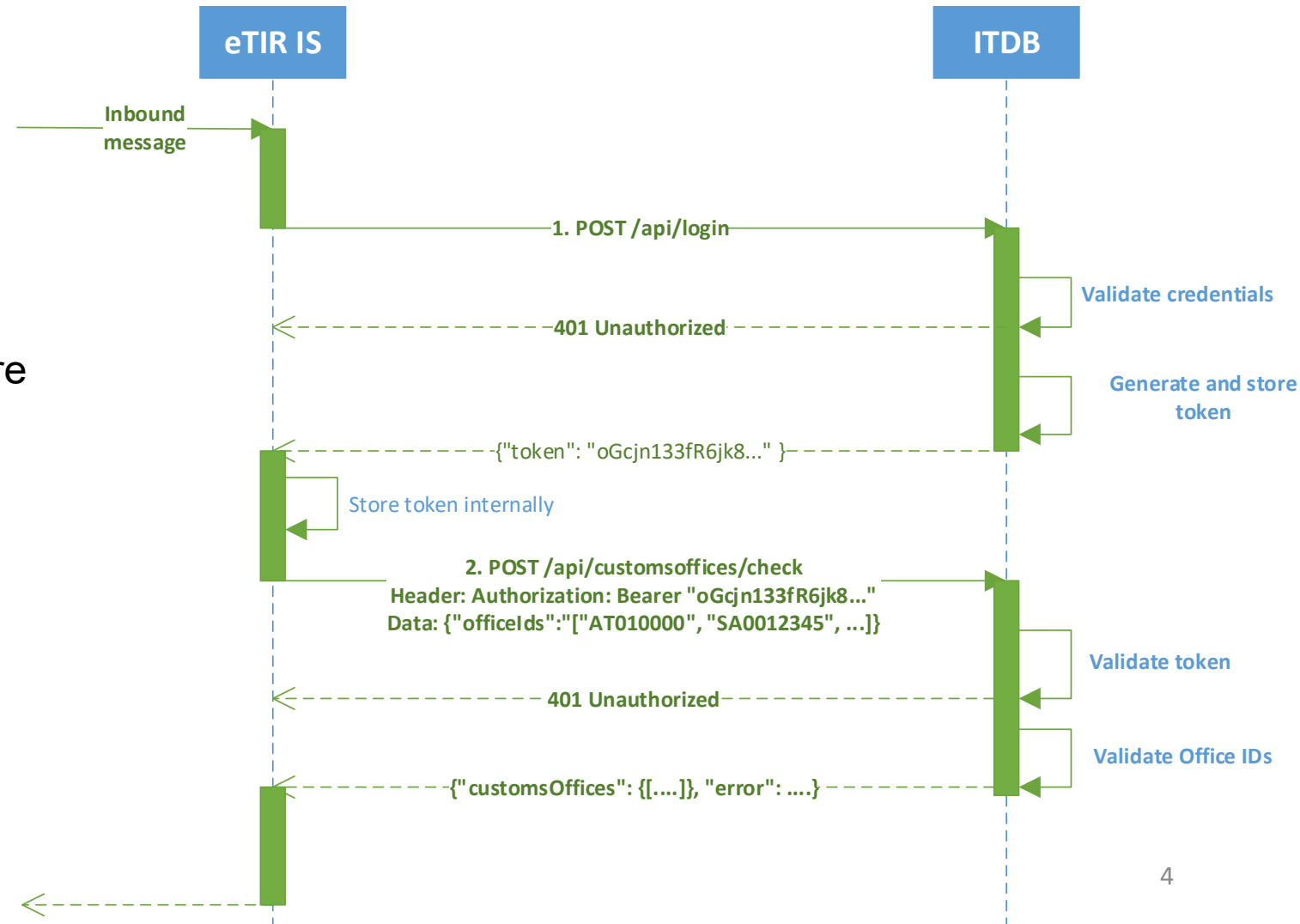
eTIR to ITDB communication diagram

- Same technical requirement as for holder validation web service (authentication using JWT)

- I20 error codes:
  - "12": Incorrect value
  - "13": Incorrect message structure
  - "14": Expired customs offices
  → Will be aligned with eTIR international system error codes

eTIR IS

ITDB

Inbound message

1. POST /api/login

Validate credentials

401 Unauthorized

Generate and store token

{"token": "oGcjn133fR6jk8..." }

Store token internally

2. POST /api/customsoffices/check
Header: Authorization: Bearer "oGcjn133fR6jk8..."
Data: {"officeIds":"["AT010000", "SA0012345", ...]}

Validate token

401 Unauthorized

Validate Office IDs

{"customsOffices": {[....]}, "error": ....}

Demo in DEV environment

2 min demo

Questions

- ## Questions?

- ## Remaining items requiring guidance:
  - Agreement on format? Immediate request/recommendation for changes?
  - Confirm this web service is to be opened to Customs Authorities (like for holder validation web service)?
  - Should the customs office ID follow a specific format (recommended)?
    <Country ISO Code 2><10 digit country internal identifier>

- ## Next steps:
  - GE.1 review and feedback implementation
  - Inclusion into the Approved amendments
  - Integration with the eTIR international system

Thank you!

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10-11/03/2020, Genève