



Progress status report

TIB – 1st session

TIR secretariat – 18 January 2022





- The eTIR data model
- The eTIR specifications
- The eTIR international system (eTIR IS)
- Brief technical introduction of the eTIR IS
- The International TIR Data Bank (ITDB)
- Additional documentation
- Interconnection projects
- Next steps

The eTIR data model



Recent achievements

- ✓ Aligned with the WCO data model 3.10 (with a few additions)
- ✓ Updated to reflect the amendments approved during the 3rd session of WP.30/GE.1 in September

Next steps

- Upgrade to the WCO data model 3.11
- Include translations in French and Russian to make the eTIR data model multilingual
- Refactor the notes in the eTIR DM to better support the various reports
- Create new Excel reports of the messages for developers

The eTIR specifications



Recent achievements

- ✓ Integrated the decisions taken during the 3rd session of WP.30/GE.1 in September
- ✓ Parts of the eTIR specifications are now available as formal document here:
 - ✓ **Introduction:** [ECE/TRANS/WP.30/AC.2/TIB/2022/2](https://www.unece.org/transport/wplist/2022/2)
 - ✓ **eTIR concepts:** [ECE/TRANS/WP.30/AC.2/TIB/2022/3](https://www.unece.org/transport/wplist/2022/3)
 - ✓ **eTIR functional specifications:** [ECE/TRANS/WP.30/AC.2/TIB/2022/4](https://www.unece.org/transport/wplist/2022/4)
 - ✓ **eTIR technical specifications :** [ECE/TRANS/WP.30/AC.2/TIB/2022/5](https://www.unece.org/transport/wplist/2022/5)

The eTIR international system



Recent achievements

- ✓ Implemented the amendments approved during the 3rd session of WP.30/GE.1 in September
- ✓ Development of messages “Check Customs Offices” (I19/I20)

Next steps

- Implement and test all functional fallback procedures
- Implement the data replication mechanism for ITDB

Brief technical introduction of the eTIR IS



Our development approach

- ✓ Following Agile principles and DevOps best practices
- ✓ Technology stack: Java, SOAP/XML, PostgreSQL
- ✓ Using three backed up and secured environments: SIT (internal), UAT and Production

Three guiding principles

- ✓ Information security
- ✓ High reliability and quality
- ✓ Ease of connectivity for the eTIR stakeholders

Brief technical introduction of the eTIR IS



Information security

- ✓ SOAP messages electronically signed using X.509 certificates (non-repudiation)
- ✓ TLS protocol used for encryption (confidentiality)

High reliability and quality

- ✓ Using Continuous Integration (CI/CD) pipeline to build, test and deploy the system
- ✓ Strict versioning rules on the source code and database changes
- ✓ Automated test coverage using unit and validation tests
- ✓ Static code analysis to ensure a proper maintainability of the source code

Ease of connectivity for the eTIR stakeholders

- ✓ Guidelines for the interconnection project
- ✓ Excel files to help with the gap analysis
- ✓ Latest documentation available on the eTIR documentation portal

Additional documentation



Recent achievements

- ✓ Completed the guide listing code lists v4.3
- ✓ Migrated all technical guides on the new etir.org web site
- ✓ Updated all technical guides:
 - ✓ Aligned with the eTIR technical specifications
 - ✓ Updated the links and references to the new documentation and its new hosting on etir.org
- ✓ A total of 20 guides to help contracting parties to perform their interconnection projects



The International TIR DataBank (ITDB)



Recent achievements

- ✓ Continued working on the implementation of the TIR Carnet holder web portal (*deployed for internal testing*)
- ✓ Started working on improvements in ITDB to notify by email Holders of change of status (*deployed for internal testing*)
- ✓ Continued working on system integration with the eTIR international system

Next steps

- Complete ITDB related survey answers analysis and reports (related to the future Certificate of Approval module)
- Complete the TIR Carnet holder web portal development and present it for UAT
- Continue supporting contracting parties in customs offices data import
- Continue aligning ITDB with the requirements of the eTIR international system

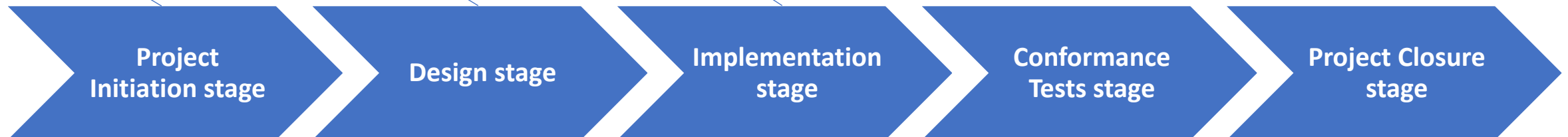
Interconnection projects



Azerbaijan
Georgia
Tunisia
Turkey
Pakistan
Uzbekistan

Kyrgyzstan
Tajikistan

Armenia
Iran



Next steps



- Continue preparing the conformance tests
- Finalize the implementation of the eTIR international system as per the eTIR specifications v4.3
- Continue to support customs authorities in connecting to the eTIR international system
- Continue improving our development practices
- Continue working on the new server hosting arrangement

Thank you!

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