UN Economic Commission for Europe
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Item 8a: 2020 and 2025 E-Rail traffic censuses
Annex V ex-G and RINF
(follow-up of presentation for item 7 in 74th session)

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Follow-up of last year presentation: 2 maps for 2020 rail traffic on TEN-T network were published in Regional Yearbook 2023

More relevant and nice maps were made possible from Register of Infrastructure (RINF) managed by ERA, an example was released in a recent Statistics Explained article

New template and organisation imagined for Annex V ex-G (rail traffic flows) on reference year 2025, relying on RINF terminology
Since reference year 2005, the target is not only to collect data on traffic flows, but to collect them by network segments:

- With characteristics (by principle the same as in Common Questionnaire);
- With geographical coordinates;
- Which can make a map.

Only the TEN-T network is compulsory for this census; it corresponds to the E-Rail census.
1. First maps published on Regional Yearbook!

These maps were elaborated on the geographical coordinates provided for Annex V ex-G without the help of RINF.
2. Annex V data not meant for mapping

Annex V does not collect “maps”, but geographical coordinates of starting and ending points. If we draw straight lines, we do not get necessarily plausible networks.

But the detail of RINF is enough (all operational points are there)…
2. Another example: Czechia

- In red: Annex V
- In blue: RINF
2. The delicate issues: “National line” and “Operational Points” for start and end

<table>
<thead>
<tr>
<th>Country</th>
<th>Network segment identifier</th>
<th>From</th>
<th>To</th>
<th>From latitude</th>
<th>From longitude</th>
<th>To latitude</th>
<th>To longitude</th>
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- Is there a “national line” in RINF connecting the start and end of Annex V? Sometimes there are several, therefore it is better to know a priori.
- If yes, which “sections of lines” are to associate to the network segment?
2. A nicer map in the recent SE article on the railway network in Europe

Thank you to UIC for some time series and to ERA for some geometry (from RINF).

This publication should be updated every year, from CQ.

The network map could also be updated every 5 years, from Annex V… but possibly every year, from RINF!
3. New template for Annex V network segments on reference year 2025

- **3 or 4 variables** could be enough for the network under interoperability directive (the name or code of the Infrastructure Manager is redundant with the national line, but makes the description clearer)...

- But we would also appreciate a full description of the network out of interoperability directive (including candidate countries)!

Even without data on traffic flow.

<table>
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<tr>
<th>Country</th>
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<th>From</th>
<th>To</th>
<th>From latitude</th>
<th>To latitude</th>
<th>From longitude</th>
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<th>Type of current (AC/DC, frequency, voltage)</th>
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</table>
3. What Eurostat will do on traffic by network segments for reference year 2025 (for EU+EFTA)

Infrastructure Managers

Traffic by network segments

G₁, G₂, G₃

Network segments defined by RINF “national lines” and by starting and ending “operational points”

National Statistical Institutes

New Excel file template

Eurostat

ERA

RINF

geometry and semantic

Annex V ex-G (Polish example)

Polish example RINF

+ traffic
Thank you

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