



Moving Europe towards a sustainable and safe railway system without frontiers.

Marco Mattiocco
 Direzione Organizzazione e Digital Transformation
 Agenzia delle Dogane e dei Monopoli
 Piazza Mastai 12
 00153 Roma
 Italy

Valenciennes, 4/7/2024

IRAIL Project Compliance Test – CEF Grant Agreement INEA/CEF/TRAN/M2018/ 1777054

Dear Marco Mattiocco,

I confirm and certify herewith that the following TAF TSI functionalities implemented by the company Agenzia delle Dogane e dei Monopoli (Italy), within the project “CEF Grant Agreement INEA/CEF/TRAN/M2018/ 1777054”, are compliant with the appropriate provisions of the [TAF-TSI Regulation \(EU\) 2021/541](#) and its [Technical Documents](#) (XSD version 2.1.0) as follows:

TAF function / milestone tested	TAF TSI chapter	Type of Compliance	Activity Number
M19 - Train composition	4.2.3.2. Train Composition message	Soft	Activity 2

Above *soft* compliance is based on the fact that above message carries all mandatory elements from the TAF TSI XSD (see chapter 6.2.1 of the TAF TSI).

To enable the ERA verification, Agenzia delle Dogane e dei Monopoli has sent on 30.04.2024 to ERA TAF TSI compliant

- Train composition

messages / datasets implemented and used in operation in its own IT system (see Annexes).

Mickael VARGA
European Union Agency for Railways
Operational Data Unit
Project Officer
Email: mickael.varga@era.europa.eu

Annex – Message / Datasets

Train Composition message in Hermes H30 format :

```
<?xml version="1.0" encoding="UTF-8"?>
<HE30XML_2.0_2016 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="file:///C:/Users/.../H30XML_2.0_2016_12_15.xsd">
  <G1>
    <H1>3513</H1>
    <H2>3513</H2>
    <H3>2023-11-16T00:00:00+01:00</H3>
    <H4>1</H4>
  </G1>
  <GT1>
    <T1_1_1>01734</T1_1_1>
    <T1_1_2>2023-11-16T11:18:00+01:00</T1_1_2>
    <T1_1_3>2023-11-16T11:18:00+01:00</T1_1_3>
    <T1_1_4>2023-11-16T08:00:00+01:00</T1_1_4>
  </GT1>
  <GT2>
    <T2_1>1</T2_1>
    <T2_2>3513</T2_2>
    <T2_3>3513</T2_3>
    <GT2_2>
      <T2_2_1>83</T2_2_1>
      <T2_2_2>06004</T2_2_2>
    </GT2_2>
  </GT2>
  <GW>
    <GW1>
      <I1_0>379998765432</I1_0>
      <I1_1>4</I1_1>
      <I1_2>100</I1_2>
      <I1_3>1304</I1_3>
      <I1_4>26720</I1_4>
    </GW1>
    <GWC>
      <GWC4>
        <WC4_1>83</WC4_1>
      </GWC4>
    </GWC>
    <GWL>
      <WL0>0</WL0>
      <WL1>0</WL1>
      <GWL3>
        <WL3>11111111</WL3>
      </GWL3>
    </GWL>
    <GWLS/>
    <GWA>
      <WA_1>61</WA_1>
      <WA_2>G</WA_2>
      <WA_2_1>X</WA_2_1>
      <WA_3>100</WA_3>
```

```

                <WA_4>26720</WA_4>
                <WA_5>GTS XXX</WA_5>
            </GWA>
        </GW>
        <GW>
            <GW1>
                <I1_0>331112345678</I1_0>
                <I1_1>4</I1_1>
                <I1_2>100</I1_2>
                <I1_3>1304</I1_3>
                <I1_4>29000</I1_4>
            </GW1>
            <GWC>
                <GWC4>
                    <WC4_1>83</WC4_1>
                </GWC4>
            </GWC>
            <GWL>
                <WL0>0</WL0>
                <WL1>0</WL1>
                <GWL3>
                    <WL3>911111111</WL3>
                </GWL3>
            </GWL>
            <GWLS/>
        ...
    </GWA>
</GW>
</HE30XML_2.0_2016>

```

Train Composition message transformed into TAF TSI format:

```

<?xml version="1.0" encoding="UTF-8"?>
<TrainCompositionMessage xmlns:tap="http://www.era.europa.eu/schemes/TAPT/1.3"
xsi:schemaLocation="http://www.era.europa.eu/schemes/TAFTSI/2.1
file:///C:/Users/.../taf_cat_complete_baseline_2.1.xmd.xsd"
xmlns="http://www.era.europa.eu/schemes/TAFTSI/2.1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <MessageHeader>
        <MessageReference>
            <MessageType>3003</MessageType>
            <MessageTypeVersion>2.0</MessageTypeVersion>
            <MessageIdentifier>Transform H30 to TAF
XSD.mfd</MessageIdentifier>
            <MessageDateTime>2023-11-16T00:00:00+01:00</MessageDateTime>
        </MessageReference>
        <Sender>3513</Sender>
        <Recipient>3513</Recipient>
    </MessageHeader>
    <MessageStatus>1</MessageStatus>
    <OperationalTrainNumberIdentifier>
        <OperationalTrainNumber>01734</OperationalTrainNumber>

```

```

    <ScheduledTimeAtHandover>2023-11-
16T11:18:00+01:00</ScheduledTimeAtHandover>
    <ScheduledDateTimeAtTransfer>2023-11-
16T11:18:00+01:00</ScheduledDateTimeAtTransfer>
    </OperationalTrainNumberIdentifier>
    <OperationalTrainNumber>01734</OperationalTrainNumber>
    <TrainCompositionJourneySection>
      <JourneySection>
        <JourneySectionOrigin>
          <CountryCodeISO>83</CountryCodeISO>
          <LocationPrimaryCode>6004</LocationPrimaryCode>
        </JourneySectionOrigin>
        <JourneySectionDestination>
          <CountryCodeISO>83</CountryCodeISO>
          <LocationPrimaryCode>6004</LocationPrimaryCode>
        </JourneySectionDestination>
        <ResponsibilityActualSection>
          <ResponsibleRU>3513</ResponsibleRU>
          <ResponsibleIM>3513</ResponsibleIM>
        </ResponsibilityActualSection>
        <ResponsibilityNextSection>
          <ResponsibleRU>3513</ResponsibleRU>
          <ResponsibleIM>3513</ResponsibleIM>
        </ResponsibilityNextSection>
      </JourneySection>
    <TrainRunningData>
      <TrainRunningTechData>
        <TrainType>2</TrainType>
        <TrainWeight>33658</TrainWeight>
        <TrainLength>1695</TrainLength>
      </TrainRunningTechData>
    </TrainRunningData>
    <LivestockOrPeopleIndicator>0</LivestockOrPeopleIndicator>
    <WagonData>
      <WagonNumberFreight>379998765432</WagonNumberFreight>
      <WagonTrainPosition>99</WagonTrainPosition>
      <WagonOperationalData>
        <BrakeType>G</BrakeType>
        <BrakeWeight>61</BrakeWeight>
        <WagonMaxSpeed>100</WagonMaxSpeed>
        <TotalLoadWeight>0</TotalLoadWeight>
      </WagonOperationalData>
      <WagonTechData>
        <WagonLength>1304</WagonLength>
        <WagonNumberOfAxles>4</WagonNumberOfAxles>
        <WagonWeightEmpty>26720</WagonWeightEmpty>
      </WagonTechData>
    </WagonData>
    <WagonData>
      <WagonNumberFreight>331112345678</WagonNumberFreight>
      <WagonTrainPosition>99</WagonTrainPosition>
      <WagonOperationalData>
        <BrakeType>G</BrakeType>
        <BrakeWeight>61</BrakeWeight>
        <WagonMaxSpeed>100</WagonMaxSpeed>

```

```
        <TotalLoadWeight>0</TotalLoadWeight>
    </WagonOperationalData>
    <WagonTechData>
        <WagonLength>1304</WagonLength>
        <WagonNumberOfAxles>4</WagonNumberOfAxles>
        <WagonWeightEmpty>29000</WagonWeightEmpty>
    </WagonTechData>
</WagonData>
...
    </WagonData>
</TrainCompositionJourneySection>
</TrainCompositionMessage>
```