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Subject: Multiple ocpTT within a station

Posted by [Stefan de Konink](#) on Wed, 11 Mar 2020 14:15:26 GMT

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I have a question regarding the use of ocpTT's within a station.

Considering the following sample:

```
<ocpTT ocpRef="ARR-StopArea-Vvl" ocpType="stop" sequence="10" trackInfo="252">
  <times arrival="19:09:00" arrivalDay="0" departure="19:09:00" departureDay="0"
scope="scheduled"/>
  <sectionTT>
    <trackRef ref="ARR-ServiceLink--667658658"/>
  </sectionTT>
</ocpTT>
<ocpTT ocpRef="ARR-StopArea-Gn" ocpType="pass" sequence="11" trackInfo="7A">
  <times arrival="19:09:00" arrivalDay="0" departure="19:09:00" departureDay="0"
scope="scheduled"/>
  <sectionTT>
    <trackRef ref="ARR-ServiceLink--1709210067"/>
  </sectionTT>
</ocpTT>
<ocpTT ocpRef="ARR-StopArea-Gn" ocpType="stop" sequence="12" trackInfo="7B">
  <times arrival="19:09:00" arrivalDay="0" departure="19:09:00" departureDay="0"
scope="scheduled"/>
</ocpTT>
</ocpsTT>
```

Is the ocpTT of 7A allowed as pass? Or is it never allowed to use the same ocp in a ocpsTT?

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Subject: Re: Multiple ocpTT within a station

Posted by \_\_\_\_\_ on Thu, 12 Mar 2020 08:14:58 GMT

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Dear Stefan,

it is not intended to have ocpRef="ARR-StopArea-Gn" (nor any ocpRef) two times \_immediately following\_ each other.

It is allowed that the same ocpRef occurs two times in the same <trainPart> or <train> in case the train really passes the station two times, running a loop or reversing at an intermediate station, but this needs a different intermediate station.

You can only express one @trackInfo per ocpRef. To encode several (serially passed) tracks in the same station, a different approach would be needed, for instance multiple <trackRef> or a

combined code in one @trackInfo.

Best regards,  
Dirk.

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Subject: Re: Multiple ocpTT within a station  
Posted by [Stefan de Konink](#) on Thu, 12 Mar 2020 22:18:50 GMT  
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Dirk do I understand your comment correct that if I would slightly change it to 19:09:00, 19:09:15, 19:09:45 it still would be invalid because they are referring to the same OCP?

```
<ocpTT ocpRef="ARR-StopArea-Vvl" ocpType="stop" sequence="10" trackInfo="252">
  <times arrival="19:09:00" arrivalDay="0" departure="19:09:00" departureDay="0"
scope="scheduled"/>
  <sectionTT>
    <trackRef ref="ARR-ServiceLink--667658658"/>
  </sectionTT>
</ocpTT>
<ocpTT ocpRef="ARR-StopArea-Gn" ocpType="pass" sequence="11" trackInfo="7A">
  <times arrival="19:09:15" arrivalDay="0" departure="19:09:15" departureDay="0"
scope="scheduled"/>
  <sectionTT>
    <trackRef ref="ARR-ServiceLink--1709210067"/>
  </sectionTT>
</ocpTT>
<ocpTT ocpRef="ARR-StopArea-Gn" ocpType="stop" sequence="12" trackInfo="7B">
  <times arrival="19:09:45" arrivalDay="0" departure="19:09:45" departureDay="0"
scope="scheduled"/>
</ocpTT>
</ocpsTT>
```

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Subject: Re: Multiple ocpTT within a station  
Posted by [Vasco Paul Kolmorgen](#) on Fri, 13 Mar 2020 14:58:29 GMT  
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Dear Stefan,

thank you for the interesting question. First of all I would like to learn for what kind of use case this need for a railway data exchange is given in the Netherlands. Could you describe a little bit more detailed?

From my opinion your sample should not be used for semantic reasons.

As good practice in the files I had seen in the past and also described in the railML 2 wiki (<https://wiki2.railml.org/index.php?title=TT:ocpTT#Semantics>) each ocpTT shall only appear once within a trainPart. Unfortunately this issue is described there on German only ("Als Regel darf jeder ocpTT nur einmal innerhalb eines trainParts auftauchen.") However, I will gladly take your question and suggestion to one of the next telephone conferences of TT developers and ask for contributions to the discussion and opinions. I would also like to suggest a possibly clearer presentation in the section "Semantic Constraints" as well as a statement for the current development of railML 3.x.

Let me highlight some other problems in your example:

- Your example uses "speaking ID's" like ocpRef="ARR-StopArea-Vvl" which should be avoided, as 'StopArea' could be parsed and used by a reading programme. See <https://wiki2.railml.org/index.php?title=Dev:identities> for more information.

- Independent of the concrete times at the individual <ocpTT> I consider the double use to be very problematic, because different further characteristics can exist. In your example this is given by ocpType="stop" and ocpType="pass".

Best regards,

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Vasco Paul Kolmorgen - Governance Coordinator  
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Altplauen 19h; 01187 Dresden; Germany [www.railML.org](http://www.railML.org)

Am 11.03.2020 um 15:15 schrieb Stefan de Konink:

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> I have a question regarding the use of ocpTT's within a
> station.
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> Considering the following sample:
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> sequence="10" trackInfo="252">
>       <times arrival="19:09:00" arrivalDay="0"
> departure="19:09:00" departureDay="0" scope="scheduled"/>
>       <sectionTT>
>         <trackRef ref="ARR-ServiceLink--667658658"/>
>       </sectionTT>
>     </ocpTT>
>     <ocpTT ocpRef="ARR-StopArea-Gn" ocpType="pass"
> sequence="11" trackInfo="7A">
>       <times arrival="19:09:00" arrivalDay="0"
> departure="19:09:00" departureDay="0" scope="scheduled"/>
```

> <sectionTT>  
> <trackRef ref="ARR-ServiceLink--1709210067"/>  
> </sectionTT>  
> </ocpTT>  
> <ocpTT ocpRef="ARR-StopArea-Gn" ocpType="stop"  
> sequence="12" trackInfo="7B">  
> <times arrival="19:09:00" arrivalDay="0"  
> departure="19:09:00" departureDay="0" scope="scheduled"/>  
> </ocpTT>  
> </ocpsTT>  
>  
>  
> Is the ocpTT of 7A allowed as pass? Or is it never allowed  
> to use the same ocp in a ocpsTT?

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Subject: Re: Multiple ocpTT within a station  
Posted by on Mon, 16 Mar 2020 10:26:40 GMT  
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Dear Stefan,

> Dirk do I understand your comment correct that if I would  
> slightly change it to 19:09:00, 19:09:15, 19:09:45 it still  
> would be invalid because they are referring to the same OCP?

Yes of course, it still would be invalid. As I wrote: It is not intended to have  
ocpRef="ARR-StopArea-Gn" (nor any ocpRef) two times immediately following each other.

If the train passes two parts of the same station in sequence (e. g. two signals, signal boxes etc.),  
and you want to give passing times for each part of the station, these station-parts have to  
become separate <ocp>s. See also [1].

Best regards,  
Dirk.

[1]  
[https://wiki2.railml.org/index.php?title=Dev:Types\\_of\\_ocps#Bahnhofsteile\\_.E2.80.A2\\_Longer\\_station\\_with\\_more\\_than\\_one\\_.E2.80.9Cstopping\\_place.E2.80.9D\\_per\\_route](https://wiki2.railml.org/index.php?title=Dev:Types_of_ocps#Bahnhofsteile_.E2.80.A2_Longer_station_with_more_than_one_.E2.80.9Cstopping_place.E2.80.9D_per_route)

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Subject: Re: Multiple ocpTT within a station  
Posted by [Milan Wölke](#) on Mon, 06 Apr 2020 18:47:23 GMT  
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Hi Stefan,

as Vasco said, we will need to know a little more about what you are trying to achieve. Depending on the use case I think a possible way of modelling this could be to break up your OCP "ARR-StopArea-Gn" into several ones and group those using parentOcpRef (microscopic view of the infrastructure), like Dirk suggested. Knowing the use case would help us to determine if this would be a feasible solution or if other constraints apply.

Best regards, Milan

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