
Subject: Infrastructure semantics

Posted by [tuomas.tiihonen](#) on Fri, 06 May 2011 09:33:56 GMT

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Hi,

I would appreciate some infrastructure semantics explanations.

Are the translations only supported in OCP (in additionalName)?

Is there possibility to define language code for OCP's default name?

Is there possibility to give timezone for OCP?

Is there possibility to define OCP (if it is a station) to have platforms and those platforms different segments?

How about side of a platform in relation to train?

Could OCP have different heads (heads could be used for resolving orientation of the train in relation to stop)? So that line would link from ocpA head1 to ocpB head2.

Is the OCP->number unique?

How to get distance between OCPs, is it with trackend/trackbegin->pos?

What is the relation of pos to ocpTT->SectionTT->distance in timetable?

Kindest Regards,
Tuomas Tiihonen

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----- posted via PHP Headliner -----

Subject: Re: Infrastructure semantics

Posted by [coordination](#) on Mon, 09 May 2011 14:31:00 GMT

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Dear Mr. Tiihonen,

Thank you for your enquiries to RailML.infrastructure.

Tuomas Tiihonen wrote:

> I would appreciate some infrastructure semantics explanations.

On behalf of the infrastructure coordinator I will try to answer some of

> Are the translations only supported in OCP (in additionalName)?

> Is there possibility to define language code for OCP's default name?

We added a ticket in our SVN (<http://trac2.assembla.com/railML/ticket/121>) and will integrate additional names and language codes on short notice in

RailML's version 2.1.

> Is there possibility to give timezone for OCP?

We added a ticket in our SVN (<http://trac2.assembla.com/railML/ticket/120>) and will integrate time zones on short notice in RailML's version 2.1.

> Is there possibility to define OCP (if it is a station) to have platforms
> and those platforms different segments?

We added a ticket in our SVN (<http://trac2.assembla.com/railML/ticket/122>) and had an intense discussion about this. To avoid an incompatible extension of RailML due to the wide range of facilities beside a track,

version 2.1. We will see the discussion and remarks of the users within the next weeks.

> How about side of a platform in relation to train?

The platforms are defined with their properties (e.g. with platformSides)

in RailML.timetable. The reading programme may combine this information

> Could OCP have different heads (heads could be used for resolving
> orientation of the train in relation to stop)? So that line would link
> from ocpA head1 to ocpB head2.

Would you be so kind to specify this question?

> Is the OCP->number unique?

No. Please do not use this value anymore, because it's deprecated. You may use OCP->code instead of this.

Best regards,

Dipl.-Ing. Vasco Paul Kolmorgen

Telephone: +49-351-46676939
Zeunerstrasse 1; D-01069 Dresden www.railml.org

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----- posted via PHP Headliner -----

Subject: Re: Infrastructure semantics

Posted by [tuomas.tiihonen](#) on Tue, 10 May 2011 07:03:14 GMT

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>> Could OCP have different heads (heads could be used for resolving
>> orientation of the train in relation to stop)? So that line would link
>> from ocpA head1 to ocpB head2.

>

> Would you be so kind to specify this question?

If two OCPs are linked together how can you know which side of the OCP the train enters the OCP?

I will try to illustrate:

Track: "="

Station OCP: /////OCP/////

H1 = Head1

H2 = Head 2

=====H1////////OCP1////////H2=====H1////////OCP2 /////H2===== (this connects back to OCP1/H1)

Now if I make connection from OCP1 to OCP2 the connection would know that it starts from OCP1->Head2 and ends at OCP2->Head1. This way the data tells the exact orientation of the train when it arrives from OCP1 to OCP2. But I could also make connection from OCP1 head1 to OCP2 head2 and again I know which side of the OCP the train comes from (if illustrated, this example would make loop).

If in other hand you do not specify whether the train comes from head 1 side or head 2 side you can't know the orientation of the train in relation to the stop. In essence when you make connection between two OCP it can be interpreted as the train would arrive the station from two different sides and you can't know which.

I use term "connection" loosely here as I am not quite sure what is the correct term in RailML in this context.

--

----- posted via PHP Headliner -----

Subject: Language-sensitive names

Posted by [Susanne Wunsch railML](#) on Thu, 12 May 2011 09:15:26 GMT

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coordination@railml.org (Vasco Paul Kolmorgen) writes:

Hello Tuomas (and others interested in this thread),

- >> Are the translations only supported in OCP (in additionalName)?
- >> Is there possibility to define language code for OCP's default name?
- >
- > We added a ticket in our SVN (<http://trac2.assembla.com/railML/ticket/121>)
- > and will integrate additional names and language codes on short notice in
- > RailML's version 2.1.

I committed this change according to mentioned ticket.

All elements with id/code/name/description will include the optional xml:lang attribute for defining the defaults language code.

All these elements offer the optional element "additionalName" for defining further names/descriptions with its language codes.

Current ocp element "ocp/propOther/additionalName" is marked "deprecated" for better using above mentioned structure starting with railML 2.1.

Is there any need for attribute "type" in "additionalName"? Or is there any other attribute which is needed in addition to the now provided ones.

Please, checkout/download current development version and check, if it works for your needs.

Thank you for revising and improving railML.

Kind regard...
Susanne

--

Susanne Wunsch
Schema Coordinator: railML.common

Subject: Re: Language-sensitive names
Posted by [tuomas.tiihonen](#) on Thu, 12 May 2011 12:55:40 GMT
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Hi,

Looks good to me, however I wonder why the lang does not follow "ISO 639-1" anymore. If I understand correctly it now uses basically IETF BCP 47. Does someone know if ISO 639-1 has some language mapped differently

than in IETF BCP 47? If those are different, it can cause problems, at least changes in the software if extra mapping is needed between the two language standards.

Br,
Tuomas

Susanne Wunsch wrote:

>
> coordination@railml.org (Vasco Paul Kolmorgen) writes:
>
> Hello Tuomas (and others interested in this thread),
>
>>> Are the translations only supported in OCP (in additionalName)?
>>> Is there possibility to define language code for OCP's default name?
>>
>> We added a ticket in our SVN (<http://trac2.assembla.com/railML/ticket/121>)
>> and will integrate additional names and language codes on short notice in
>> RailML's version 2.1.
>
> I committed this change according to mentioned ticket.
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> All elements with id/code/name/description will include the optional
> xml:lang attribute for defining the defaults language code.
>
> All these elements offer the optional element "additionalName" for
> defining further names/descriptions with its language codes.
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> Current ocp element "ocp/propOther/additionalName" is marked
> "deprecated" for better using above mentioned structure starting with
> railML 2.1.
>
> Is there any need for attribute "type" in "additionalName"? Or is there
> any other attribute which is needed in addition to the now provided
> ones.
>
> Please, checkout/download current development version and check, if it
> works for your needs.
>
> Thank you for revising and improving railML.
>
> Kind regard...
> Susanne
>

--

----- posted via PHP Headliner -----

Subject: Re: Language-sensitive names

Posted by [Susanne Wunsch railML](#) on Thu, 12 May 2011 21:11:03 GMT

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Hi Tuomas,

thanks for your quick followup.

tuomas.tiihonen@mitron.com (Tuomas Tiihonen) writes:

> Looks good to me, however I wonder why the lang does not follow "ISO
> 639-1" anymore. If I understand correctly it now uses basically IETF BCP
> 47. Does someone know if ISO 639-1 has some language mapped differently
> than in IETF BCP 47? If those are different, it can cause problems, at
> least changes in the software if extra mapping is needed between the two
> language standards.

That's "old" XML style.

ISO 639-1 defines the alpha-2 language code. There are already another
alpha-3 language codes defined in ISO639-2. IETF BSP 47 mostly recycles
ISO 639-1 codes. For mapping hints see:

http://en.wikipedia.org/wiki/IETF_language_tag
("Relation to other standards")

639-1 639-2 IETF

German: 'de' 'ger' 'de', 'de-AT', 'de-CH', 'de-DE'

English: 'en' 'eng' 'en', 'en-US', 'en-GB'

Finnish: 'fi' 'fin' 'fi', 'fi-FI', 'fi-SE'

Swedish: 'sv' 'swe' 'sv', 'sv-SE', 'sv-FI'

N. Sami: 'se' 'sme' 'se'

Sorry for the disappointing answer.

Kind regards...

Susanne

--

Susanne Wunsch

Schema Coordinator: railML.common

Subject: Re: Language-sensitive names

Posted by [tuomas.tiihonen](#) on Fri, 13 May 2011 05:49:10 GMT

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Hi Susanne,

thanks for the reply and the link. Yes, perhaps little disappointment, but not impossible one to overcome ;)

Br,
Tuomas

> That's "old" XML style.
>
> ISO 639-1 defines the alpha-2 language code. There are already another
> alpha-3 language codes defined in ISO639-2. IETF BSP 47 mostly recycles
> ISO 639-1 codes. For mapping hints see:
>
> http://en.wikipedia.org/wiki/IETF_language_tag
> ("Relation to other standards")
>
> 639-1 639-2 IETF
>
> German: 'de' 'ger' 'de', 'de-AT', 'de-CH', 'de-DE'
> English: 'en' 'eng' 'en', 'en-US', 'en-GB'
> Finnish: 'fi' 'fin' 'fi', 'fi-FI', 'fi-SE'
> Swedish: 'sv' 'swe' 'sv', 'sv-SE', 'sv-FI'
> N. Sami: 'se' 'sme' 'se'
>
> Sorry for the disappointing answer.
>
> Kind regards...
> Susanne
>

--
----- posted via PHP Headliner -----

Subject: Ocp Timezones

Posted by [Christian Rahmig](#) on Mon, 16 May 2011 07:24:25 GMT

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Hello Tuomas,

hello railML-Community,

>> Is there possibility to give timezone for OCP?

>

> We added a ticket in our SVN (<http://trac2.assembla.com/railML/ticket/120>)

> and will integrate time zones on short notice in RailML's version 2.1.

>

I implemented a new attribute "timezone" within the ocp's datatype <OperationControlPoint>. It has an enumerator type <tOcpTimeZone>, which contains all the various timezones on earth based on UTC and the offset. The values range from "utc-12" via "utc+0" to "utc+14". Some timezones differ from others by fractions of hours, e.g. "utc-9.30".

Time changes that are only temporarily, e.g. daylight saving time, are not considered in this list and shall not be used in the infrastructure schema.

See the changes in <http://trac2.assembla.com/railML/changeset/390>
Comments and questions on this topic are always appreciated.

Best regards
Christian

Christian Rahmig
railML.infrastructure coordinator

Subject: Re: Ocp Timezones

Posted by [tuomas.tiihonen](#) on Mon, 16 May 2011 12:58:11 GMT

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Hi Christian,

Great to see that my comments were quickly adapted! Thanks!

> Time changes that are only temporarily, e.g. daylight saving time, are
> not considered in this list and shall not be used in the infrastructure
> schema.

Could there be some solution for daylight saving time implemented? One option would be boolean like "OCPinDaylightSavingArea", or what would be the preferred way to know if OCP obeys daylight saving time or not?
Comments, please.

--
----- posted via PHP Headliner -----

Subject: Re: Ocp Timezones
Posted by [Christian Rahmig](#) on Mon, 16 May 2011 19:34:04 GMT
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Hello Tuomas,

>> Time changes that are only temporarily, e.g. daylight saving time, are
>> not considered in this list and shall not be used in the infrastructure
>> schema.
>
> Could there be some solution for daylight saving time implemented? One
> option would be boolean like "OCPinDaylightSavingArea", or what would be
> the preferred way to know if OCP obeys daylight saving time or not?
> Comments, please.

That is a difficult question. In my understanding the daylight saving time resp. the boolean you suggested is a changing parameter and not fixed like the timezone information of an ocp. Therefore, I would not consider it within the infrastructure schema, but somewhere in the timetable schema, since it is relevant for operation and depends on the current date/time.

However, I want to hear Joachim's opinion on this first before implementing it.

Best regards
Christian

Christian Rahmig
railML.infrastructure coordinator

Subject: Re: Ocp Timezones
Posted by [Joerg von Lingen](#) on Tue, 17 May 2011 05:07:59 GMT
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Hi everybody,

although it is not relevant for rolling stock I would add some thoughts on daylight saving time.

1) A simple flag (boolean) can only be used in timetable as it has a meaning only in relation to a

certain date.

2) The information is a "feature" of an ocp, however, it has to be much more detailed in order to be valid in general for an infrastructure item independent of any date. Subsequently it would require to name start and end date/time of the daylight saving period for each year as this may be subject to changes.
But do we really need that information?

Regards,
Jörg.

Christian Rahmig wrote:

> Hello Tuomas,
>
>>> Time changes that are only temporarily, e.g. daylight saving time, are
>>> not considered in this list and shall not be used in the infrastructure
>>> schema.
>>
>> Could there be some solution for daylight saving time implemented? One
>> option would be boolean like "OCPinDaylightSavingArea", or what would be
>> the preferred way to know if OCP obeys daylight saving time or not?
>> Comments, please.
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> That is a difficult question. In my understanding the daylight saving time resp. the boolean you
> suggested is a changing parameter and not fixed like the timezone information of an ocp.
Therefore,
> I would not consider it within the infrastructure schema, but somewhere in the timetable
schema,
> since it is relevant for operation and depends on the current date/time.
>
> However, I want to hear Joachim's opinion on this first before implementing it.
>
> Best regards
> Christian
>
> ---
> Christian Rahmig
> railML.infrastructure coordinator

Subject: Re: Ocp Timezones

Posted by [Susanne Wunsch railML](#) on Wed, 18 May 2011 07:43:06 GMT

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Hi,

Joerg von Lingen <coord@rollingstock.railml.org> writes:

- > 1) A simple flag (boolean) can only be used in timetable as it has a meaning only in relation to a certain date.

I would interpret the flag as "the ocp is located in an area, where daylight saving is used". This is an geographical feature which is independent from actual date and time.

It is a very political issue wether DST is used or not. Countries' time offset to UTC do also change by some reasons.

- > 2) The information is a "feature" of an ocp, however, it has to be much more detailed in order to be valid in general for an infrastructure item independent of any date. Subsequently it would require to name start and end date/time of the daylight saving period for each year as this may be subject to changes.

These data are already collected and active maintained in the "tz database". [1] It also hosts the history of time zone/DST regulations for each region.

- > But do we really need that information?

We already offer time zone dependent date and time tags in "timetable" subschema.

You could fill the timetable with UTC values and the software transforms it to the actual time according to the regional time zone specified in ocp.

I think it's a proper enhancement which is worth implementing as flexible and reliable as possible.

How about the W3C Guideline for "Working with time zones"? [2]

I hope it helps...
Susanne

[1] http://en.wikipedia.org/wiki/Tz_database

[2] <http://www.w3.org/International/wiki/WorkingWithTimeZones>

--

Susanne Wunsch
Schema Coordinator: railML.common

Subject: Re: Ocp Timezones

Hi,

good comments.

In our implementation timezone is specified like "Europe/Vienna", from this it is possible to determine the rules of daylight saving time (of course you would have to know the rules for Vienna).

If we define the timezone with +2/-2 and so on, we can't interpret if there is daylight saving time in use or not.

Of course if OCP would know the area where it stands, the interpretation can be made. However I am not sure what is the semantically correct place to put location information as the location information should be in similar format as in timezone definitions (usually capital city). Now if I consider OCP->area that is not quite suitable for this.. (A <area> specifies the region, an operation control point is responsible for.)

- 1) I could use ocp->area anyway
- 2) OCP->timezone could have also optional field to define timezone like "Europe/Vienna"
- 3) or the idea Joerg introduced
- 4) Or I will just not consider daylight in relation to OCP

Br,
Tuomas

Joerg von Lingen wrote:

- >
 - > Hi everybody,
 - >
 - > although it is not relevant for rolling stock I would add some thoughts on daylight saving time.
 - >
 - > 1) A simple flag (boolean) can only be used in timetable as it has a meaning only in relation to a
 - > certain date.
 - >
 - > 2) The information is a "feature" of an ocp, however, it has to be much more detailed in order to be
 - > valid in general for an infrastructure item independent of any date.
- Subsequently it would require
- > to name start and end date/time of the daylight saving period for each year as this may be subject

> to changes.
> But do we really need that information?
>
> Regards,
> Jiří ½rg.
>
> Christian Rahmig wrote:
>> Hello Tuomas,
>>
>>>> Time changes that are only temporarily, e.g. daylight saving time, are
>>>> not considered in this list and shall not be used in the infrastructure
>>>> schema.
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>> Best regards
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>>
>> ---
>> Christian Rahmig
>> railML.infrastructure coordinator
>
>
>

--
-----== posted via PHP Headliner =====

Subject: Re: Ocp Timezones
Posted by [Christian Rahmig](#) on Sat, 21 May 2011 10:44:13 GMT

Hello Tuomas (and everybody),

>> 2) The information is a "feature" of an ocp, however, it has to be
>> much more detailed in order to be valid in general for an
>> infrastructure item independent of any date. Subsequently it would
>> require to name start and end date/time of the daylight saving period
>> for each year as this may be subject to changes.
>
> These data are already collected and active maintained in the "tz
> database". [1] It also hosts the history of time zone/DST regulations
> for each region.

Regarding your comments I changed the timezone definition in
<http://trac2.assembla.com/railML/changeset/394>

Now, the tz database (Olson database) defines the format of the timezone
attribute, which is a simple string.
The entry, e.g. "Europe/Paris" or "America/New_York", does not refer to
a special UTC time offset, but a location. Thus, it is possible to
consider temporary time changes like DST within the timezone attribute
implicitly.

Best regards
Christian

> [1] http://en.wikipedia.org/wiki/Tz_database

Christian Rahmig
railML.infrastructure coordinator

Subject: Re: Ocp Timezones
Posted by [tuomas.tiihonen](#) on Mon, 23 May 2011 05:40:18 GMT
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Hi Christian,

This sounds great, thank you!

Br,
Tuomas

> Regarding your comments I changed the timezone definition in
> <http://trac2.assembla.com/railML/changeset/394>
>

> Now, the tz database (Olson database) defines the format of the timezone
> attribute, which is a simple string.
> The entry, e.g. "Europe/Paris" or "America/New_York", does not refer to
> a special UTC time offset, but a location. Thus, it is possible to
> consider temporary time changes like DST within the timezone attribute
> implicitly.
>
> Best regards
> Christian
>
>> [1] http://en.wikipedia.org/wiki/Tz_database
>

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-----== posted via PHP Headliner ==-----
