Subject: Extension suggestion for <upTime>
Posted by Torben Brand on Mon, 17 Feb 2020 14:06:57 GMT

Dear railML-community,

For the Norwegian railway sector, we are looking for a way to model an ocp, that is unmanned on certain timely restrictions. The restrictions we would like to model are specific days, for example Saturdays or public holidays.

The element <upTime> (https://wiki2.railml.org/index.php?title=IS:uptime) makes it possible to state that an ocp is unmanned with @mode="unmanned". But it doesn't give us the possibility to restrict this property to certain days, but only certain times in a day with @from and @until.

The element <propOther/states/state> on the other hand would give us the option to refer to an operating period via @operatingPeriodRef and thus makes it possible to model restrictions for certain days (in the sub element <operatingDay>).

We would like to propose a solution to extend the element <upTime> with the time attributes of <state>: @operatingPeriodRef and @endDayOffset. The existing attributes @from and @until seem to be semantically equivalent to @startTime and @endTime. So, we suggest keeping them as is, but to change their semantic constraint from mandatory to optional.

Furthermore, we are looking for a description of the value "off" in <upTime>@mode. What does this value stand for?

What does the community think?

Subject: Description of <upTime>@mode (Re: Extension suggestion for <upTime>)
Posted by Vasco Paul Kolmorgen on Fri, 21 Feb 2020 20:40:33 GMT

Dear Torben, dear all,

I don't want to anticipate the discussion by the community about the
proposed extensions, but I would like to contribute something to the
meaning of the individual values at <ocp> <propOperational><uptime>@mode:

Am 18.02.2020 um 03:06 schrieb Torben Brand:
> Furthermore, we are looking for a description of the value
> "off" in <upTime>@mode. What does this value stand for?

 - „manned": The <ocp> is operational/usable and staffed with IM's
personnel ready for operation on site (in the area of the <ocp>).
 - „unmanned": The <ocp> is operational/usable and not staffed with on
site personnel by the IM. Even the <ocp> is not controlled or is remote

controlled by any staff of the IM and there is no IM's staff is
available in the area of the <ocp>.
 - „off": The <ocp> is temporarily not operational/usable. No
information about local staff is given by this value. Please note that
the values <ocp><states><state>@status={disabled|closed} shall be used
for a long-term non-defined or permanent disabling of an <ocp>.

Additonally the following semantic constraints should apply:
 - an <ocp> with attribute @operationalType"blockSignal" shall not have
<propOperational><uptime>@mode="manned" (as a manned blockSignal shall
be modelled in railML 2.x as blockPost),
 - an <ocp> with attribute @operationalType="stoppingPoint" shall not
have <propOperational><uptime>@mode="manned" (as a stoppingPoint has no
operational usage and therefore no operational staff by the IM),
 - an enumeration of several time periods by @from and @until for one
<ocp> shall not overlap so that for every time there shall be a unique
status of <uptime>.

What do you think about?
Are there additional semantic constraints to be described?

Best regards,
--
Vasco Paul Kolmorgen - Governance Coordinator
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Subject: Re: Description of <upTime>@mode (Re: Extension suggestion for <upTime>)
Posted by Torben Brand on Tue, 25 Feb 2020 09:46:53 GMT
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Excellent! This explains a lot! Could you post the definitions to the wiki?

Subject: Re: Extension suggestion for <upTime>
Posted by christian.rahmig on Wed, 26 Feb 2020 20:58:10 GMT
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Torben Brand wrote on Mon, 17 February 2020 15:06Dear railML-community,

For the Norwegian railway sector, we are looking for a way to model an ocp, that is unmanned on certain timely restrictions. The restrictions we would like to model are specific days, for example Saturdays or public holidays.

The element <upTime> (https://wiki2.railml.org/index.php?title=IS:uptime:wink: makes it possible to state that an ocp is unmanned with @mode="unmanned". But it doesn't give us the possibility to restrict this property to certain days, but only certain times in a day with @from and @until.

The element <propOther/states/state> on the other hand would give us the option to refer to an operating period via @operatingPeriodRef and thus makes it possible to model restrictions for certain days (in the sub element <operatingDay>).

We would like to propose a solution to extend the element <upTime> with the time attributes of <state>: @operatingPeriodRef and @endDayOffset. The existing attributes @from and @until seem to be semantically equivalent to @startTime and @endTime. So, we suggest keeping them as is, but to change their semantic constraint from mandatory to optional.

Dear Torben, dear all,

the current implementation of <ocp><propOperational><uptime> is not usable for regular/repeating time patterns as descibed by you. Your proposal to add an attribute @operatingPeriodRef as it is already available in <ocp><propOther><states><state> sounds reasonable.

However, for version compatibility reasons (within railML 2.x), we are not able to set <uptime> attributes @from and @to from mandatory to optional. Further, I see a semantic overlap between the usage of <ocp><propOperational><uptime> and <ocp><propOther><states><state>. I would like to solve this potential conflict by clarifying the current practical usage of both elements. Therefore, any feedback from the community is very much welcome.

Thank you very much and best regards
Christian

Subject: Re: Description of <upTime>@mode
Posted by Ferri Leberl on Fri, 28 Feb 2020 15:00:47 GMT
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Dear Mr. Brand,
I have added the explanations and semantic constraints.
Let me know, if any adaptions are required.
Yours, Ferri

Subject: Re: Extension suggestion for <upTime>
Posted by christian.rahmig on Mon, 08 Mar 2021 10:07:38 GMT
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Dear Torben,

I filed a Trac ticket for the remaining issue of clarifying OCP state and OCP uptime and their harmonisation. Please see [1]

[1] https://trac.railml.org/ticket/467

Best regards
Christian

Subject: Re: Semantic constraints for <upTime>
Posted by Vasco Paul Kolmorgen on Thu, 25 Mar 2021 14:39:52 GMT
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Dear all!

Am 25.02.2020 um 10:46 schrieb Torben Brand:
> Excellent! This explains a lot! Could you post the
> definitions to the wiki?

As the semantic constraints IS:008, IS:009 and IS:010 are in the
railML's wiki (https://wiki2.railml.org/index.php?title=IS:uptime) since
more than a year without objection I suggest to set the status of these
to "accepted".

Please let us know up to April 15th, if this is not okay for you.

Best regards,
--
Vasco Paul Kolmorgen - Governance Coordinator
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