So I suggest to form a new group of attributes for the train:

<dataSource>   the former <source>
<dataDateTime>   the former <date>, now with expanded type "dateTime"
<dataStatus>   new data, changed data, deleted data, ...

in addition there will be the two new attributes

<trainNumber>   the train number (not unique)
<trainStatus>   planned train, canceled train, ...

I think this should solve the problems about "Timetable updates"?
best regards,

J.Rubröder

Thomas Kauer schrieb:
> I agree that we need a technical trainID that is independent of the
> "outside" used train number.
> On european level there is a project in work to follow international
> trains between NL and I passing the alps (Europtirails). For this there
> will be introduced a global trainID over all the way the train runs (over
> all companies and countries) to which the locally used train numbers have
> to be associated.
>
> Actually the idea is to use a combination of:
>
> - the train number at the beginning of the train
> - the departure station
> - the departure day/time (important since such trains can run for
>   more than 24h)
>
> but there is no final format defined yet as far as I know.
>
> The <status> would be needed not to identify the train but as additional
> information.
> By the way, I see at least two kinds/groups of informations that could be
> treated as status:
> - information about the train (running, canceled, planned, ...)
> - information about the data (as suggested below: new data/train,
>   changed data for an excisting train, ...)
>

> best regards
> Thomas Kauer
>
>
> Joachim Rubröder wrote:
>
>
>> I agree that a trainID like "4712" is not enough to identify a train.
>> For german DB we use a combination of line number, train number,
>> operating period and the timetable period as trainID and there are still
>> some identification problems to solve.
>
>
>> What abuot:
>
>
>> <trainID>   technical ID to identify a train, used by the programs
>> (most often based on the train number)
>
>
>> <trainNumber>   new element for the train number, as used by railways
>> like "4712"
>
>
>> <status>   as suggested below, like "changed"
>
>
>> <date>   with new ISO8601-format xsd:dateTime instead of
>> xsd:date (a date with optional time, fractional seconds up to
>> nanoseconds are possible like "19941105T08:15:00301")
>
>
>> best regards,
>> Joachim Rubröder
>
>
>
>
>> Tobias Bende schrieb:
>>
>>> Thomas Kauer wrote:
>>>
>>>
>>>
>>>> In respect to possible future use of the timetable-schema as an interface
>>>> for programs that treat with actual trains and not only with longtime
>>>> planning it should support the possibility to give delta-informations for
>>>> existing timetable data. So it would be useful to add the proposed

>>>> attribute <status>.
>>>> The <date> of the last change would be used in this respect to decide for
>>>> multiple changes which one is the last, that is to say which one is valid.
>>>
>>>
>>>
>>> An example where one would definitely need delta-information is a
>>> day-of-operation system for railway companies. In such a system there
>>> would be several updates per second.
>>>
>>> It has to be asked if the <status> attribute is adequate for indicating
>>> changes. It could be if there existed some identity for each train, but an
>>> artificial identity (like train number + date) is not enough. For example,
>>> how would I send the information that train number 4711 is now called
>>> 4712?
>>>
>>>
>>>
>>>
>>>
>>>> Joachim Rubröder wrote:
>>>
>>>
>>>> >This case is not especially treated in the schema. But you are free to
>>>> >put a whole big timetable with thousand trains in a file, or to send
>>>> >just a few update-trains. I think this is a task for the receiving
>>>> >program to identify the trains as new or known ones.
>>>>
>>>> >There is the <date> attribute in <train> which could be used as date of
>>>> >the last change and I thought about adding another optional attribute
>>>> ><status> in the <train> element (as used within SBB) wich could have
>>>> >values like "new", "changed", "omitted", ...
>>>> >Would this be helpful?
>>>>
>>>> >Joachim Rubröder
>>>>
>>>> >Tobias Bende schrieb:
>>>> >
>>>> >
>>>> >>I have a question on updates of existing timetables. Given that a file
>>>> >>with a complete timetable (especially in a format like RailML) is very
>>>> >>large it is in practice often desirable to be able to send updates when
>>>> >>something changes as opposed to recreate and send the entire file. Is
>>>> >
>>> this
>>>
>>>
>>>> >>something that has been considered?

>>>> >>
>>>> >>Tobias Bende
>>>> >>
>>>> >>
>>>> >
>>>
>
>