MINUTES OF THE MARIBOR TC/278 WG3 SG9 MEETING (NeTEx)
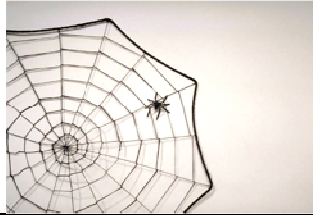
Location	**Maribor (University of Maribor)**		Date	2013-06-18 & 2013-06-19
Project	NeTEx			
Subject	*SG9*			
	Kasia	**Bourée** (KBIC) – *video conference*		
	Christophe	**Duquesne** (Aurige) – *video conference*		
	Nick	**Knowles** (Tapeze)		
	Patrik	**Lorenc** (UVT)		
	Jan	**Tijmensen** (InTraffic)		
	Andrej	**Tibaut** (University of Maribor)		
	Gustav	**Thiesing** (Blic)		
	Bart	**Van Der Worp** (Humiq)		
Writer	Christophe DUQUESNE (Aurige)			

Main conclusions and important issues

- **NeTEx Part 3 work is going on:**
  - **Update conceptual model to take into account requirement from several examples (rail & urban transport)**
  - **Work on various example to map to the model**
  - **Start of the work on the Part 3 document production**
  - **Work on requests**

Next meetings:

16th & 17th of September 2013 in Turin   Part 3 – Fare information exchange
(note that the date was changed since previous minutes)
18th & 19th of November 2013 in Delft   Part 3 – Fare information exchange

The presentations are too big to be attached to the minutes' mail. They are temporarily available on the following URL ***https://www.dropbox.com/sh/fpxr1jcwqvcj9w5/rmjd4LLO2y*** . If they are not available any more, just ask for them by mail to christophe.duquesne@aurigetech.com .

Action plan

What	Who	When
Write minutes of the meeting	Christophe Duquesne	ASAP
Analyse the validation issues that have been raised on NeTEX P1&2 with the XML tool Oxygen.	Nick Knowles	ASAP
As the PI Query work has some connection with the SG8 scope (SG8 will probably be reactivated soon), Nick Knowles will contact Roger Slevin (SG8 leader), to see how work can be coordinated.	Nick Knowles (possible support from Christophe Duquesne if needed)	ASAP
Add a PI Query annex in NeTEx Part 3	Christophe Duquesne	ASAP
Send requirements and questions to Nick in order to finalize this PI Query model.	All	Before Turin meeting
Integrate last version of Use Case document in the Part 3 documents following CEN rules	Christophe Duquesne	Beginning of July
Jan and Andrej will check it for consistency and completeness, and send questions to the group if necessary	Andrej Tibaut Jan Tijmensen	Turin meeting
Generate terms and definitions from Part 3 Model	Christophe Duquesne	Beginning of July
Review Part 3 terms and definitions	Gustav Thiesing	Turin meeting
Send last EA template used for attribute's table generation	Christophe Duquesne	Beginning of July
The real Meaning of a "pictogram" has to be checked with Stefan Jugelt (is it a facility, an access right, a usage parameter ?…. all together ?).	Nick Knowles	ASAP
Update conceptual model according to the meeting decisions	Kasia Bourée	ASAP
Sum up extensions required by Oyster card and London fares, in order to integrate them in conceptual model (and also include requirements for Elipsos Train-Hotel). Organise a video conference on it if necessary.	Nick Knowles (Kasia and Christophe for integration in the MODEL)	ASAP
Update the Munich Short Trip Ticket instance diagram and circulate and discuss it (may be using video conference). Once stabilized produce an XML example from it.	Kasia Bourée for model Christophe Duquesne fir XSD	July
Provide examples for Berlin urban network.	Gustav Thiesing Patrick Lorenc	July
Hold a video conference on examples on July 22nd	ALL interested (Gustav, Patrick, Nick, Kasia, Christophe, Andrej, etc.)	July 22nd
Detailed mapping and a list of possible required enhancements from Flexible transport requirements concerning fares.	Christophe Duquesne	Turin meeting

Write the first version of a paper explaining why CEN editorial rules have a lot of counterproductive issue when used on IT standard (UML based data model, XML/XSD exchange protocols, etc.) and how to enhance them, and circulate it for additional contributions from the group.	Nick Knowles	ASAP
Walk through the Part 3 UML compositions in order to clean them	Christophe Duquesne	Once the model stabised
Work on the SALES PACKAGE ELEMENT to FARE PRODUCT relation to solve the identified issue (see Paris minutes)	Kasia Bourée Christophe Duquesne	Turin meeting
Provide Bison mapping (part 1&2)	Bart van der Worp	ASAP
Update part 1&2 documents according to CEN rules	Christophe Duquesne	October 2013
Provide details why Visual studio, seems not to be "NeTEx friendly".	Bart van der Worp	ASAP
Integrate the Railteam glossary in the term and definition harmonization work.	Christophe Duquesne	Turin meeting
Experiment free or inexpensive XSD tools to be able to tell which are ok for NeTEx	ALL	ASAP

Minutes

TOPIC	COMMENTS
General issues	*All* *See Document: NeTEx-Maribor-18-19-June-2013-CD-Slides.ppt* **Possible funding from EU** Some progress were made on this issue and the call for expert is expected at the end of summer. **Work item status** Fore part 1 and 2, the 3 months inquiry is schedule for 2013-07-11. Validation is therefore expected for October 2013. Part 3 has been opened as a NWI (and not as a pWI as required). But projects that are subfunded by the EC are not subject to cancelation so there is no worries about any CEN deadlines. **Part 1** The NeTEx compliant open source tool, CHOUETTE presented in Paris, is available for demo (***http://chouette.dryade.net/chouette2*** login **opendata@cityway.fr** password **opendata**). It can export and export NeTEx compliant data (network description and timetables). Some validation issues have been raised during the development phase with the XML toll Oxygen. These issues have been transmitted to Nick Knowles who will analyse them. **OSI** Due to some political issues, and main target disagreement between UIC members, the OSI project has suddenly been stopped. Chris Querée will try to see how to continue working on the technical issues which still need to be solved and remain open. **Transmodel** A new work item will be opened in September to go on working on the needed Transmodel update. This SG4 work is of course connected to SG9/NeTEx, SG6/IFOPT and SG8 (distributed Journey Planning). **Video Conference** Some bad weather condition led to cancellation of Christophe Duquesne and Kasia Bourée's flight: so they both attended the meeting using Maribor University video conference system. While not as efficient as physical presence, it has proved to be quite usable. The video conference provided by Maribor University will remain available for intermediate NeTEx meeting.

TOPIC	COMMENTS
PI Queries	*Nick Knowles* *Input model: PI Query folder and all includes schemas* Nick has provided a set of Transmodel based schemas for queries (this is following requests from UIC, in order to provide request and trip description to OSI). This is a starting work that could be added to NeTEx Part 3 as an annexe (not really in the NeTEx scope, but very useful for usage, especially as OSI has now been stopped). Some of the group expectation on such request are : • Query for the price of a trip • Query for the lowest price of a trip, for a single day travel, 10 times the trip, a one month every day or week day trip, etc. • A season ticket request (for a trip or a set of trip…) • Request using an already owned fare product • Keep in mind that such queries will also be used for end client service, and therefore requires ergonomic consideration that may influence it. Some point I have in mind: o possible suggestion even when there is only a partial input (for Stop Finding) o provide answers as soon as the are available (without waiting for the end of the all calculation).... and therefore, probably be able to refine a previously notified answer It may seem that PI Query, especially for fares, could be slightly different between rail and urban transport, but more and more today's urban transport have time an day type dependent fare (for example, TfL Oyster card has peak hour fares, and day type related fares). It is agreed that everybody will send requirements and questions to Nick in order to finalize this PI Query model. As this work has some connection with the SG8 scope (SG8 will probably be reactivated soon), Nick Knowles will contact Roger Slevin (SG8 leader), to see how work can be coordinated. It is asked to see if we could have some SG9 member involved in SG8 in order to take care of the consistency of both works.

TOPIC	COMMENTS
NeTEx Part 3 Document	*Christophe Duquesne* *Input slides: NeTEx-Maribor-18-19-June-2013-CD-Slides.ppt*

Summary of discussions and complement to slides

Writing Part 3 document will be started during summer (a first outline is already available).

Concerning Use Case, the process will be the following:
1. Start from the last version of the document circulated by Bart
2. Christophe integrate in in the Part 3 documents following CEN rules (beginning of July)
3. Jan and Andrej will check it for consistency and completeness, and send questions to the group if necessary.
4. From here Jan (with support from Bart) and Andrej will take care of the use case part of the document in order to have it ready in December.

A use case should be added to express that NeTEx P3 can be used to exchange rail fare information following TAP-TSI Annexes B1/2/3.

The NeTEx objects pointed out by uses cases are only the main object involved in the use case, not a detailed set of all needed objects.

Terms and definition are useful for use cases. Christophe Duquesne will generate them (beginning of July) and circulate them. Gustav Thiesing will review them.

Contribution from all is expected to write and review the document.

TOPIC	COMMENTS
NeTEx Part 3 Model **Recent conceptual enhancements**	*Nick Knowles* *Input file: Conceptual update table_v0526 - MariborDiscussion.pdf* The conceptual model has been enhanced in order to take into account the agreed extensions presented by Nick Knowles during Paris meeting. These extensions were proposed in order to manage the TAP-TSI Annexe B1/2/3 mapping with NeTEx Part 3. A small set of points still needs to be clarified and or listed in the attached file. **Decisions, discussions and complements to the file** A BORDER POINT should inherit from a ROUTE POINT at conceptual level (even if the Physical model shows it inheriting from TimingPoint, in order to solve the multiple inheritance Transmodel issues). The link between SCHEDULED STOP POINT and FARE POINT IN JOURNEY PATTERN can be removed since it is already available between SCHEDULED STOP POINT and POINT IN JOURNEY PATTERN (and FARE POINT IN JOURNEY PATTERN inherits from POINT IN JOURNEY PATTERN). The real Meaning of a "pictogram" has to be checked with Stefan Jugelt (is it a facility, an access right, a usage parameter ?…. all together ?).

It is Ok for SERIES & DISTANCE MATRIX ELEMENT to be assigned using ACCESS RIGHT PARAMETER ASSIGNMENT (align conceptual with the corresponding diagram in the physical model, not the one in the slides).

The DISTRIBUTION CONDITION is not a CONDITION but an ASSIGNMENT, and therefore should be renamed.
The DISTRIBUTION can be restricted to some specific PLACEs: this should be added to the model.
DISTRIBUTION CHANNEL should have CONTACT DESTAILS

The STANDARD FARE TABLE is mainly a physical "trick" (providing a set of standard/usual information, but not carrying any new concept) and can be removed from the CONCEPTUAL MODEL.

CellPrice should be split in Cell + Price for more consistency with other use of PRICE.
A FareTable ins mainly a list of Cells (but this is a purely physical view).

ENTITLEMENT should be expressed as a inheritance of a SALE DISCOUNT RIGHT (itself being a FARE PRODUCT). It should also use a (new) recursive relation linking a FARE PRODUCT to another expressing their dependency (you need the ENTITLEMENT FARE PRODUCT to get some other FARE PRODUCTs).
It may be consider to make a difference between entitlement to buy and to use, through a usage parameter. Experiment in this direction will be done by Kasia and Nick.

The SPECIFIC PARAMETER ASSIGNMENT relate to a specific SALES TRANSACTION: therefore it should be linked to PI Request and moved to the specific PI Request annex.

A categorization of ACCESS RIGHT PARAMETER would be useful: this can be done through a Type property added to assignments.

A SALES PACKAGE SUBSTITION must be more described (not only in Physical Intro).

A TYPE OF PRODUCT CATEGORY (not TYPE OF TRAIN CATEGORY) must be added.

Concerning dynamic price, a specific PRICE must be added, including attributes like URL and Contact to know where to go to get a price. This will be done in a specific package.

TOPIC	COMMENTS
Oyster mapping	*Nick Knowles* *Input slides: Encoding TfL Oyster in NeTEX v0.2.ppt* **Summary of discussions and complement to slides**

	Slides 52 to 62 presents the required NeTEx extensions
	The price is higher during peak hours, and peak hours are different from one station to another: this has to be modelled in NeTEx.
	To be senior (and get associated rights) you need to be 60 on the 6th of April (not 1st of July) if you live in London… that's different outside of London !
	Main required enhancements are: • Create a FARE TIME DEMAND TYPE (or FARE DEMAND FACTOR, specializing QUALITY STRUCTURE FACTOR) • Having VALIDITY PERIOD depending on DAY TYPE and ZONE • Add a CAPPED DISCOUNT RIGHT with associated CAPPING RULES • Need for a GROUP OF SECTIONS (addition to FARE ZONE) • Other points require more thinking
	A summary of extensions required by Oyster card and London fares will be provided by Nick Knowles in order to integrate them in conceptual model. Organise a video conference on it if necessary. Kasia and Christophe will integrate them in the conceptual model.

TOPIC	COMMENTS
Instance diagram and examples	*Kasia Bourée* *Input slides: NeTEx FC Examples_Urban_Maribor.ppt* **Summary of discussions and complement to slides** The main discussions were about the Short Trip Ticket in the Munich Area (and are a bit difficult to report as minutes). Kasia Bourée will send an update of the instance diagram and circulate and iscuss it (may be using video conference). Once stabilized, Christophe will produce an XML example from it. A similar work needs to be done on the Berlin example. Gustav Thiesing and Patrick Lorenc will work on it. A video conference on this topic will be held on July 22nd.

TOPIC	COMMENTS
Train-Hotel examples	*Nick Knowles* *Input slides: Gamme_de_prix_Elipsos_18_juin12_HS_BSv2.pdf* **Summary of discussions and complement to slides** This Train Hotel fare provides an example where fare is depending on accommodations. It also requires a few NeTEx enhancement

	• You may be required to book a full compartment (if you have a baby for exemple) • There are some specific reimbursement conditions Nick will include this requirement in the list from London requirements.

TOPIC	COMMENTS
FTS requirements for fares	*Christophe Duquesne* *Input slides: NeTEx-Maribor-18-19-June-2013-CD-Slides.ppt* **Summary of discussions and complement to slides** Flexible transport requirements concerning fares were presented. Christophe will provide a detailed mapping and a list of possible required enhancements.