

Fares and NeTEx Workshop

Manchester



November 2018



Requirements for Complex Fares

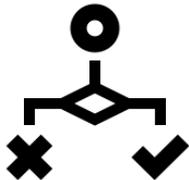
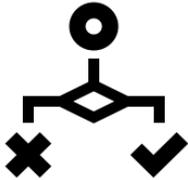
Objectives of this session

- ❖ Discuss further features that are more complex to implement
 - ▶ Discount Rights
 - ▶ Coaches
 - ▶ Dynamic Prices



Modelling complex products

- ❖ Multiple products in one package
- ❖ Products supported by multiple operators
- ❖ Large scale tariffs



Some types of Complexity found of fares

▶ More complex Products & Tariff structures

- ▶ E.g. Capped Pay as You Go

▶ Compound products / offers:

- Multiple products in one package
 - E.g. Oyster , Plusbus
- Products that are available both as separate offers and as single purchase
 - E.g. Plusbus

▶ Products supported by multiple operators

- Tariff structures covering large networks
 - E.g. *Plusbus*
- Local variation in rules ?

▶ Complex rules for a fare product, notably

- Day types / Timebands / Fare demand typs
 - E.g. *Metro & rail peak/offpeak into London*
 - Plusbus exceptions Night buses after 11.30
- Exclusions / inclusions of services
 - E.g. all Metrobus in Crawley region except and line 4
- Eligibility conditions

▶ Combining rules specified at different levels

- E.g. Temporal Validity conditions on tariff, product, sales offer



Additional Tariff Structures & Product Types

Capped Sales Rights
Sales Discounts



Complex UK Bus Fare Products

Discount cards, etc










	FARE PRODUCT	Peak / Off Peak	(Can) or Must be Account Based	Notes
SALES DISCOUNT	SALES DISCOUNT RIGHT	✓	✓	E.g. like a Railcard
	CAPPED SALES DISCOUNT RIGHT	✓	✓	PAYG e.g. Oyster
USAGE DISCOUNT	USAGE DISCOUNT RIGHT	✓	✓	Rebate for use, e.g. mileage
STORED VALUE	AMOUNT OF PRICE UNIT	-	✓	Stored value
ENTITLING PRODUCT	THIRD PARTY PRODUCT	-	-	E.g. Military Pass












Some Exclusions Not needed?



► Fare Structures

- Mileage based distance fares?
- Routing Constraints



Complex Sales Offers

Multiple Product Bundles
Capped Pay as You go



Describing a complex product – TfL Oyster



Fares example - TfL Oyster

Accessibility Help & Contact Sitemap

Search: Search

Home Live travel news Getting around **Tickets** Road users Corporate Business & partners

Tickets > Fares

Tube, DLR and London Overground | National Rail | Single fare finder | Bus and trams

Save money with Oyster

- Store credit and use it journey after journey
- Never run out of credit with Oyster
- Cheaper than cash for single fares

Travelcards

- Travel as much as you like, as often as you like
- Add Travelcards to your Oyster card

Adult 18+ student 16-18 11-15 5-10 Jobcentre Plus Bus & Tram Railcard Groups

Adult

You need an Oyster card to:

- Use pay as you go and daily price capping
- Buy 7 Day, Monthly and longer period Travelcards

You do not need an Oyster card to pay cash single fares or to buy Day Travelcards.

Zone	Cash	Oyster pay as you go				Travelcards				
		Peak single	Off-peak single	Peak price cap	Off-peak price cap	Day Anytime	Day Off-peak	7 Day	Monthly	Annual
Zone 1 only	£4.50	£2.10	£2.10	£8.40	£7.00	£8.80	£7.30	£30.40	£116.80	£1,216
Zones 1-2	£4.50	£2.80	£2.10	£8.40	£7.00	£8.80	£7.30	£30.40	£116.80	£1,216
Euston - Zone 2*	£4.50	£2.20	£2.10	£8.40	£7.00	£8.80	£7.30	£30.40	£116.80	£1,216
Zones 1-3	£4.50	£3.20	£2.70	£10.60	£7.70	£11.00	£8.00	£35.60	£136.80	£1,424
Euston - Zone 3*	£4.50	£3.00	£2.70	£10.60	£7.70	£11.00	£8.00	£35.60	£136.80	£1,424
Zones 1-4	£5.50	£3.80	£2.70	£10.60	£7.70	£11.00	£8.00	£43.60	£167.50	£1,744
Euston - Zone 4*	£5.50	£3.40	£2.70	£10.60	£7.70	£11.00	£8.00	£43.60	£167.50	£1,744

TYPEs OF TRAVEL DOCUMENTS

USER PROFILES

FARE PRICES

FARE PRODUCTS

SALES PACKAGES

FARE ZONES

GROUP TICKETS

FARE PRODUCTS

MODEs

FARE DEMAND FACTOR

TIME INTERVALS

Fares example - TfL Oyster

Transport for London

Search: Search

Home Live travel news Getting around **Tickets** Road users Corporate Business & partners

Tickets > Fares

Tube, DLR and London Overground | National Rail | Single fare finder | Bus and t

GROUP TICKETS

DISCOUNT RIGHTS

MODEs

FARE DEMAND FACTOR

TIME INTERVALS

TYPEs OF TRAVEL DOCUMENTs

USER PROFILEs

FARE PRODUCTs

SALEs PACKAGEs

FARE PRICEs

FARE ZONEs

Save money with Oyster pay as you go

- Store credit and use it journey by journey
- Never run out of credit with Auto top up
- Cheaper than cash for single fares

Travelcards

- Travel as much as you like, as often as you like
- Add Travelcards to your Oyster card

Adult 18+ student 16-18 11-15 5-10 Jobcentre Plus Bus & Tram Railcard Groups

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GROUP TICKETS

DISCOUNT RIGHTS

MODEs

FARE DEMAND FACTOR

TIME INTERVALS

TYPEs OF TRAVEL DOCUMENTs

USER PROFILEs

FARE PRODUCTs

SALEs PACKAGEs

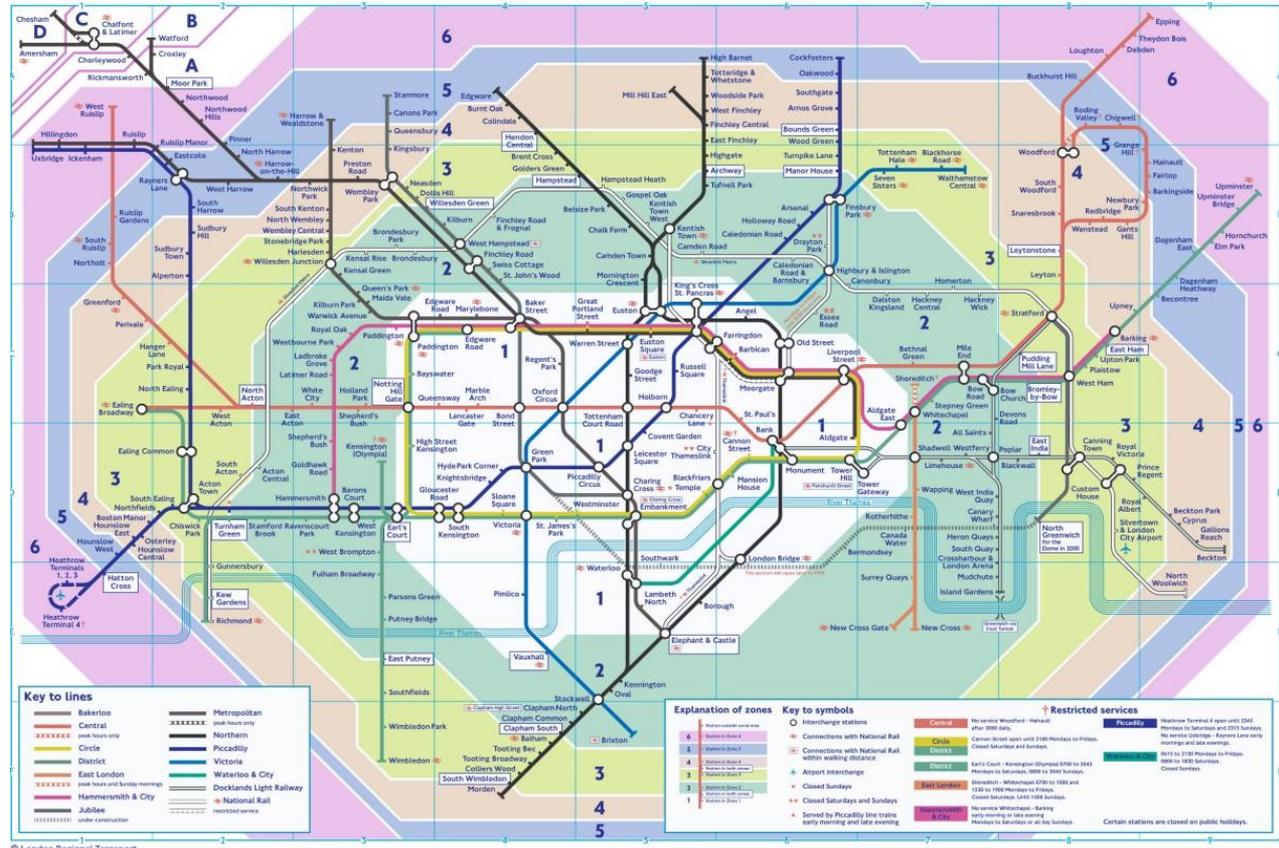
FARE PRICEs

FARE ZONEs

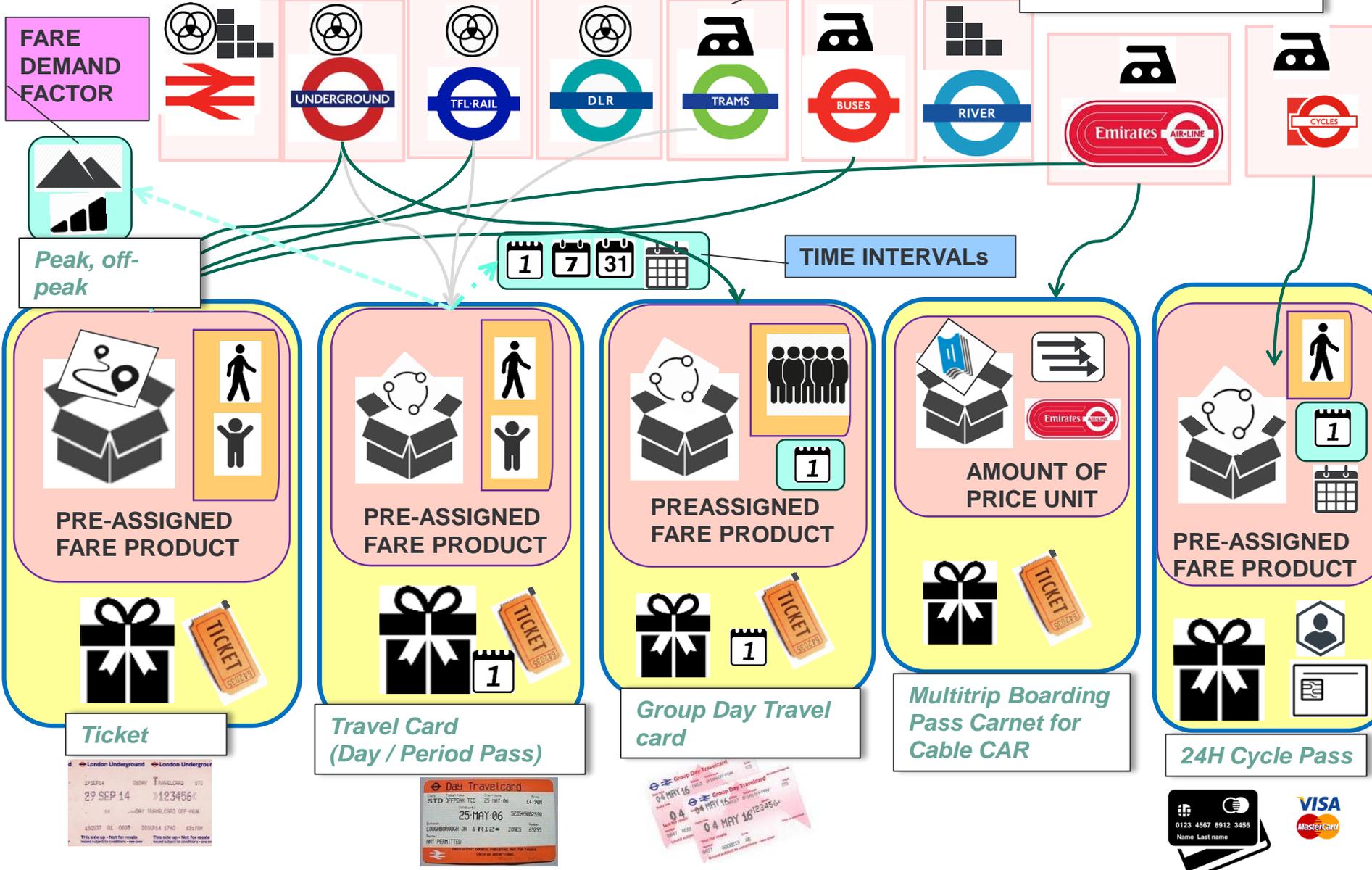




Zone Doughnut - TfL Zones

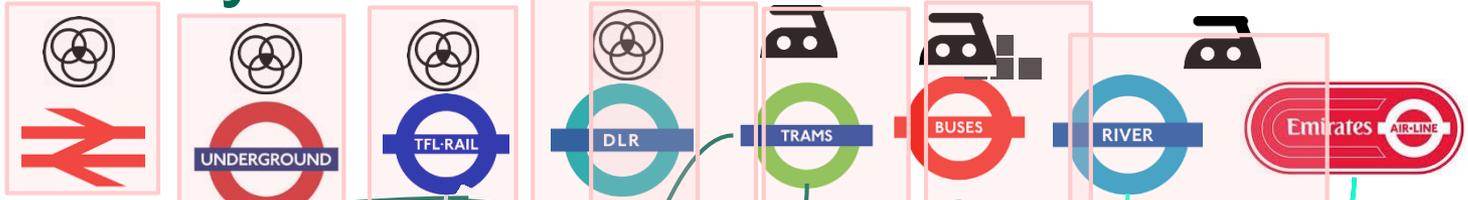


Classic TfL Products



What's in an Oyster ?

TIME INTERVALS
Day, Week, Season.rtv



TARIFFS

FARE DEMAND
Peak, Offpeak

5+reward

PRE-ASSIGNED FARE PRODUCT

AMOUNT OF PRICE UNIT

CAPPED SALE DISCOUNT RIGHT

SALE DISCOUNT RIGHT

USAGE DISCOUNT RIGHT

CAPPED DISCOUNT RIGHT

SALE DISCOUNT RIGHT

USAGE DISCOUNT RIGHT

CUSTOMER ACCOUNT

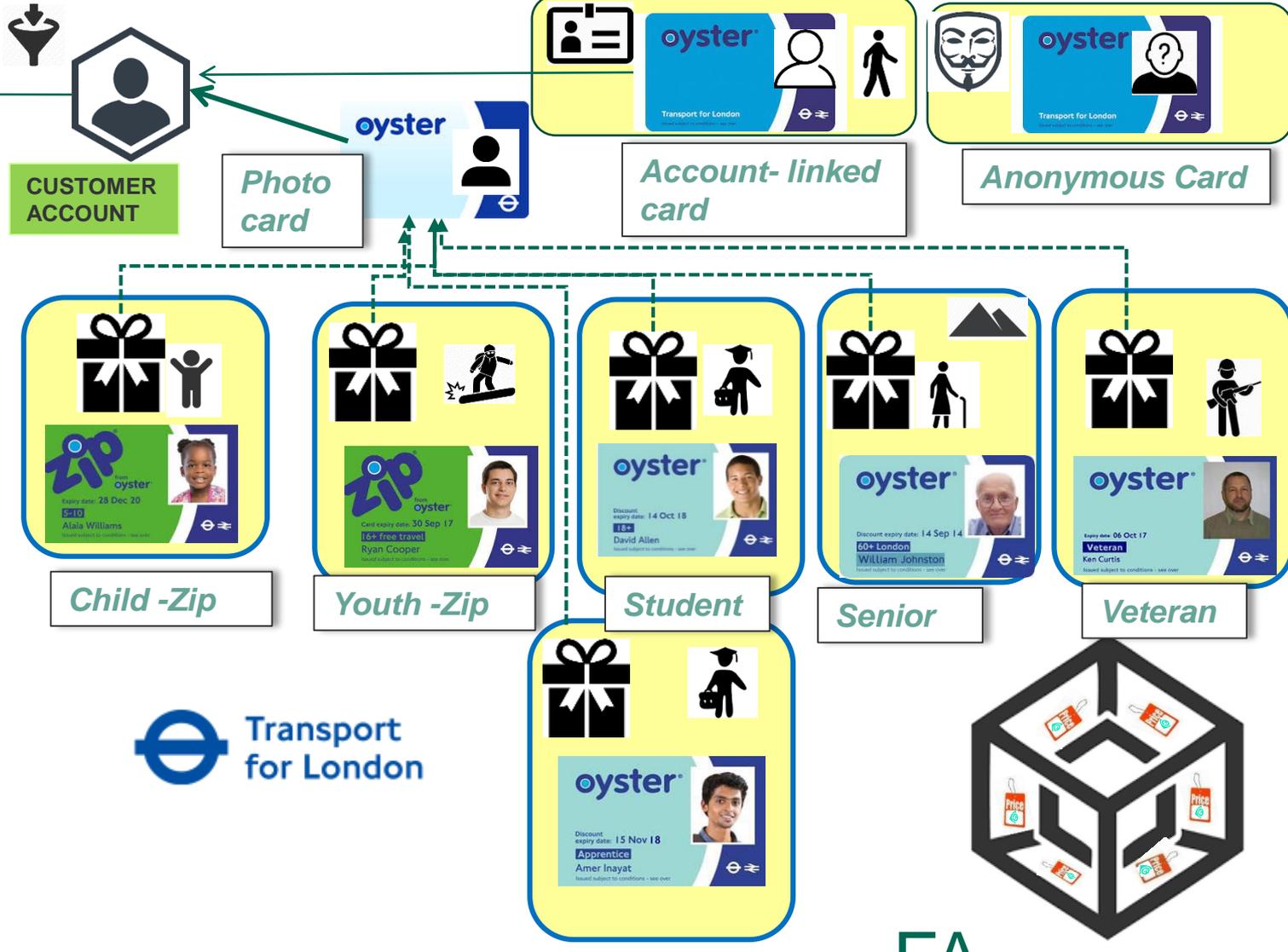
Oyster Pay As You Go



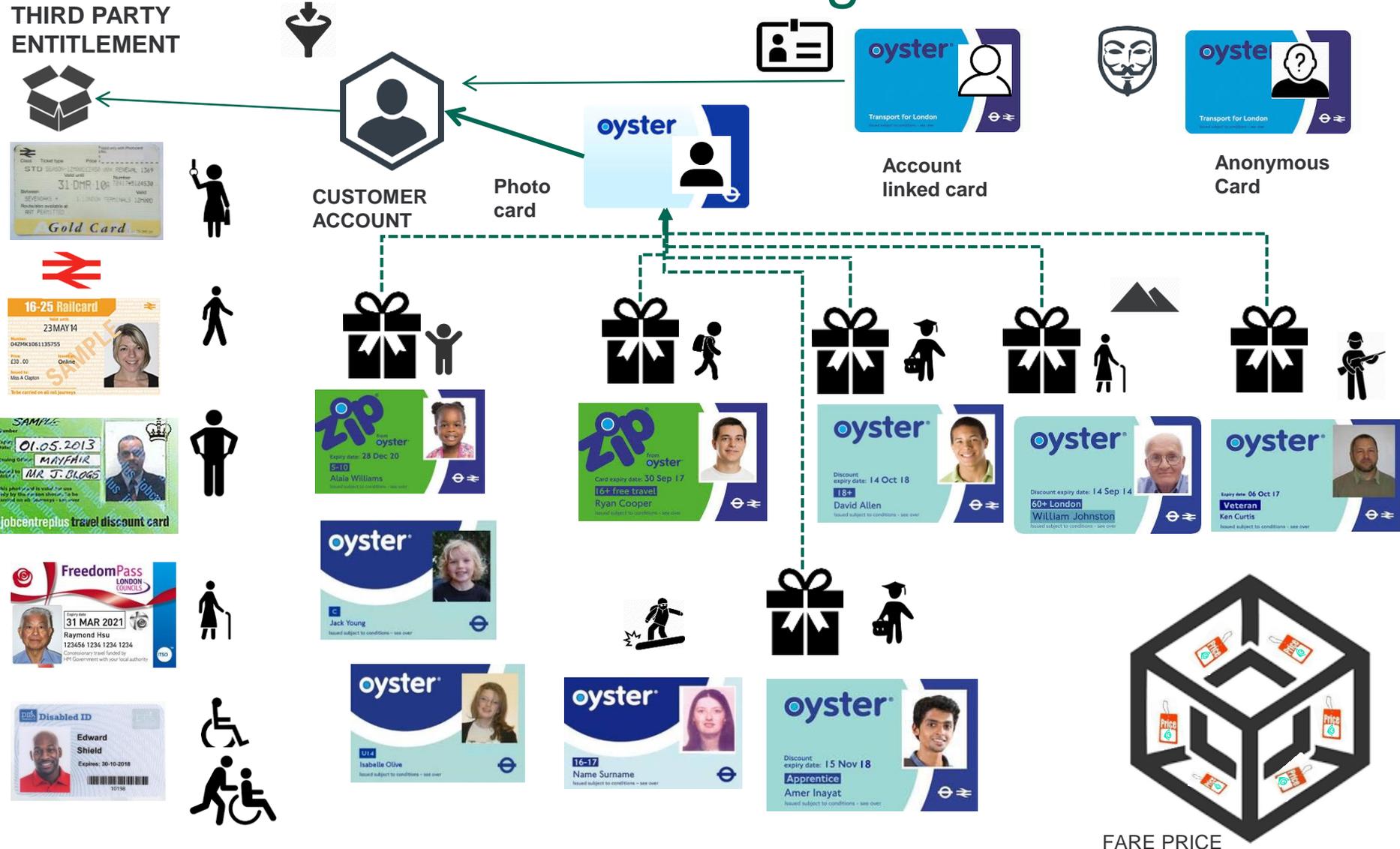
Oyster Contactless



Sales Offer Packages & Accounts



Sales Offer Packages & Accounts



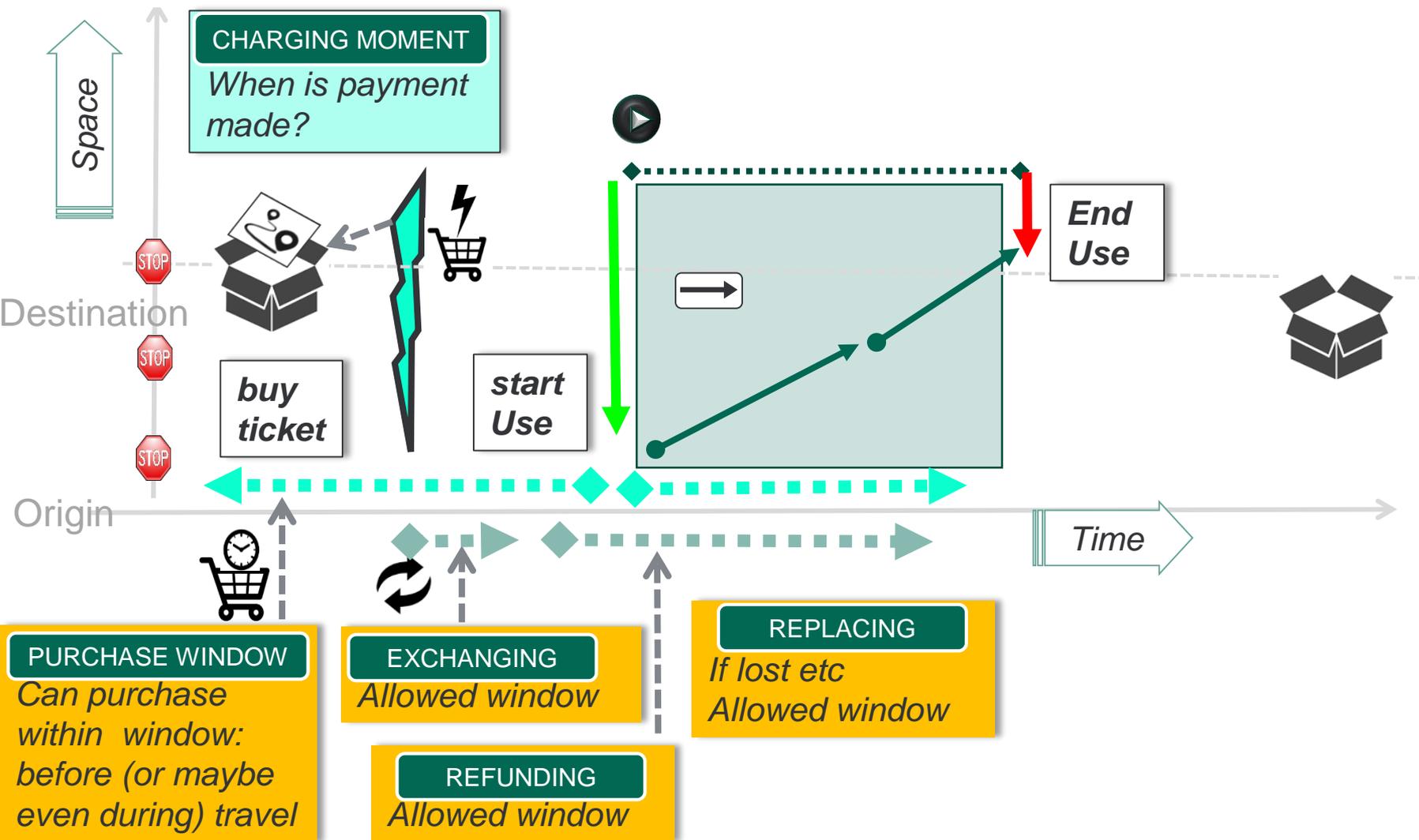


Pay as you go products

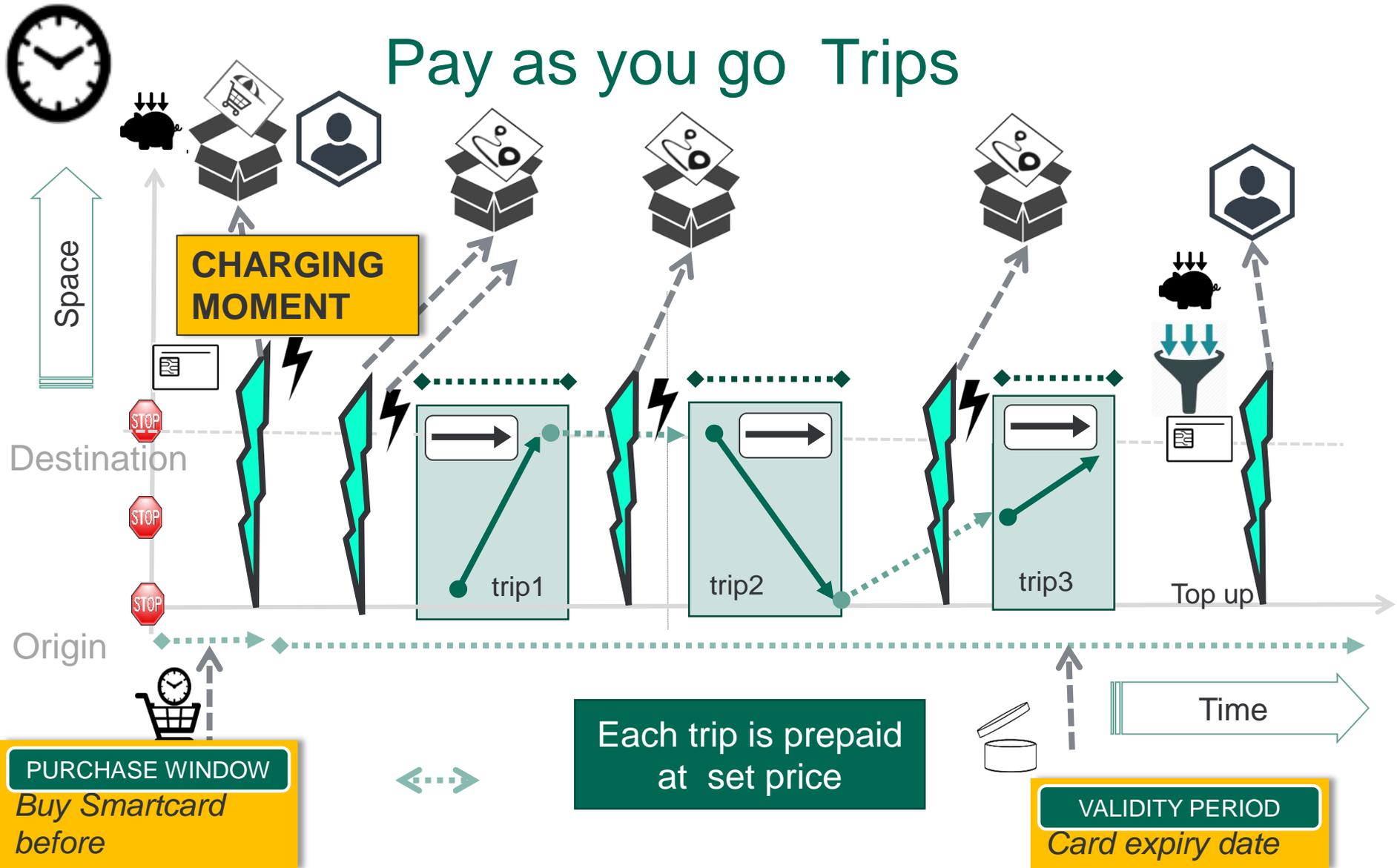
1. Simple pre-payment for each trip from stored value on card



Products – Prepaid CHARGING MOMENT

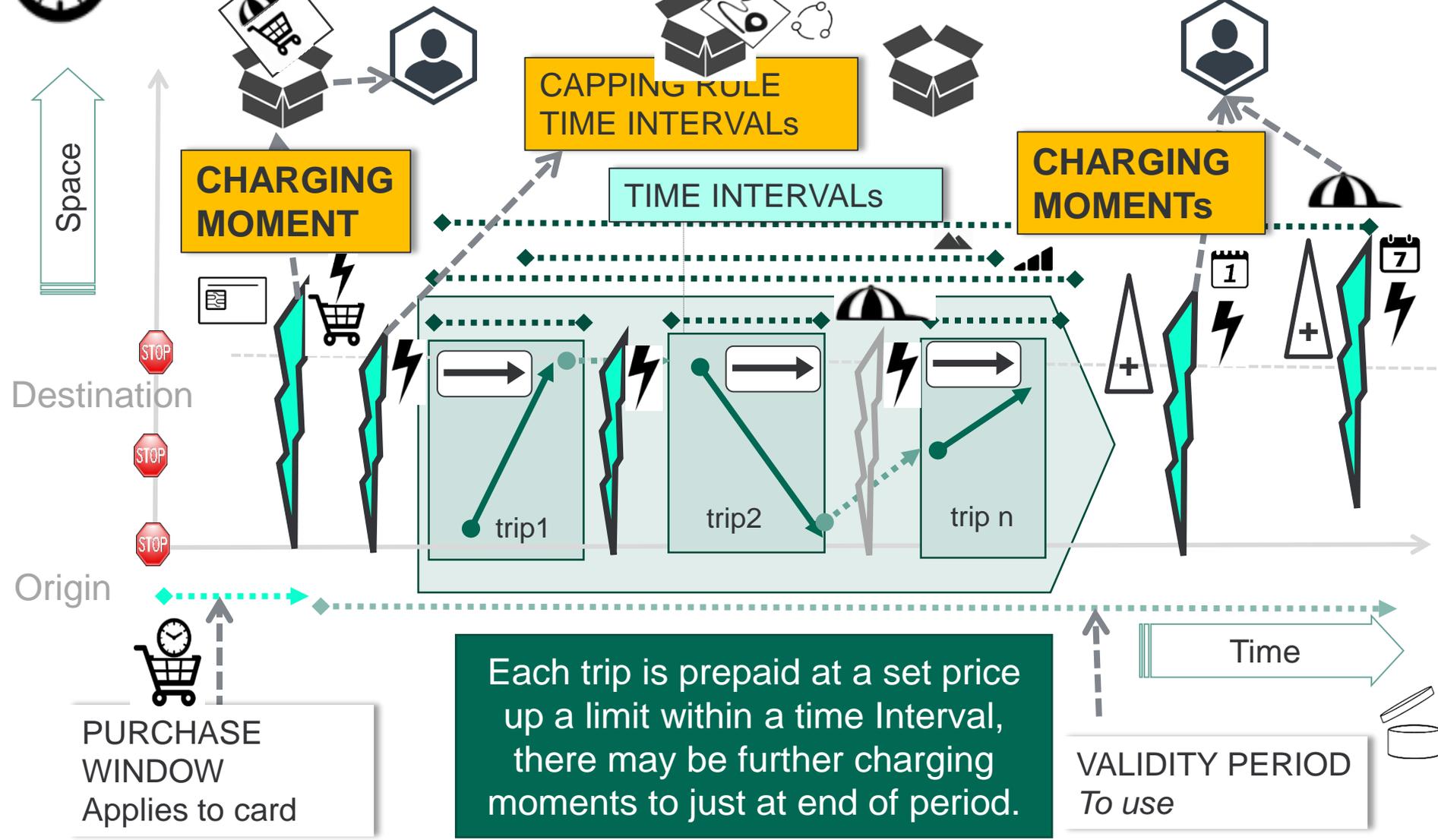


Pay as you go Trips





Pay as you go - Trips - Capped



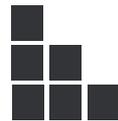


Notes on Complex Sales Offers

- ▶ Quite straightforward to use existing NeTEx data elements to describe.
 - ▶ SALES OFFER PACKAGE + SALES OFFER PACKAGE ELEMENT + FARE PRODUCT
 - ▶ ENTITLEMENT REQUIRED / ENTITLEMENT GIVEN can be used to stated prerequisites
- ▶ Potential semantic complexity as to use
 - ▶ how to interpret combining conditions at different levels
- ▶ Important to modularise products in to manageable groupings – use Version Frames
 - ▶ Eg Separate FARE FRAMES for different types fo Product



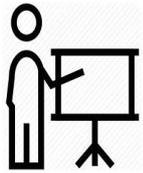
Modelling Multioperator Fares





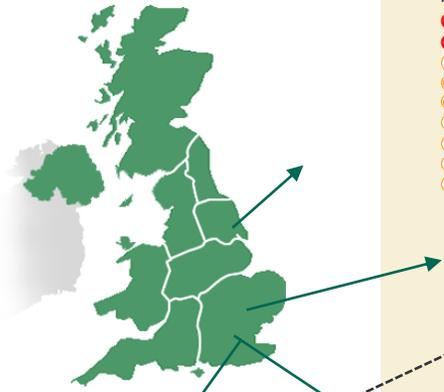
Department for Transport

Interoperating fares – eg Plus Bus : Zonal add on for rail tickets



FARE ZONES

TOPOGRAPHIC PLACES

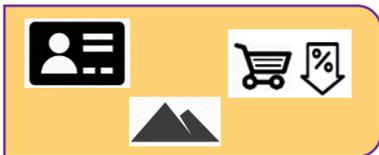


Zones around country

- Multiple participating Bus operators
- Sold via rail sales channels



PLUS BUS – National bus fare trip supplements



- ▶ Available as
 - Zonal day pass origin and destination stations
 - Zonal Season pass origin and destination stations
- ▶ Coverage
 - ▶ City wide Tariff zones around stations,
 - ▶ Named operators & Lines
 - ▶ Local exceptions
- ▶ Sales Packages / Distribution / Media
 - Add-on purchased with rail ticket /season pass
 - Bought separately to rail ticket or season pass
 - As paper ticket, on smartcard some areas
- Further discounts
 - Rail cards
 - ▶ Peak/off peak restrictions on railcard discounts
- ▶ Product Owner: JSP: Branding?



Department for Transport

Plus Bus tariff - Crawley

DISCOUNT RIGHT



SALES PACKAGES

USER PROFILES

FARE PRODUCTS

TARIFFS

FARE ZONE

PlusBus Adds urban bus travel to your train ticket.

search by postcode: GO > search by town: GO >

Crawley, Gatwick Airport, Horley, & Three Bridges PlusBus

A **Crawley, Gatwick, Horley** or **Three Bridges PlusBus** ticket gives you **unlimited bus travel** on participating operators' services, around the whole urban area of **Crawley, Gatwick, Horley, and Three Bridges**, as shown by the travel maps (below).

Interchange stations ⇄
Crawley (Station Way), **Gatwick Airport**, **Horley** (Victoria Rd), **Three Bridges** (Haslett Ave).

Day prices:
 Adult: £3.70
 Child: £1.85
 Railcard holder: £2.45

Season prices:

	Adult	Price / Day
7-days	£16.00	£3.20
Month	£52.00	£2.60
Quarter	£125.00	£2.08
Annual	£440.00	£1.83

Child discounts: half adult season ticket prices.

TIME INTERVALS



FARE PRICES

USER PROFILES



Railcard discount restrictions for PLUSBUS

Railcard holders get 1/3 off the adult price of PLUSBUS day
Some Railcards have retail restrictions, see individual
 Sorry, Railcards do **NOT** give a discount off any **season ticket price**

NETWORK Railcard (Annual Gold Card) holders get 1/3 off the adult price of PLUSBUS day tickets for towns and cities located in the South East of England, upon presentation of their valid Network Railcard (Annual Gold Card), as follows:-
 Mondays to Fridays **after 10:00hours**;
 Saturday, Sunday, Bank Holidays any time.
 The £13 minimum fare restriction does not apply to PLUSBUS day ticket purchases.

Two Together Railcard holders get 1/3 off the adult price of PLUSBUS day tickets, upon presentation of their valid Two Together Railcard, as follows:-
 Mondays to Fridays **after 09:30hours**;
 Saturday, Sunday, Bank Holidays any time.
 You must buy 2 tickets at the same time.

16-25 Railcard, 26-30 Railcard & HM Forces Railcard holders get 1/3 off the adult price of PLUSBUS day tickets, upon presentation of their valid 16-25 or 26-30 Railcard or HM Forces Railcard, **at all times**.
 The £12 minimum fare restriction does not apply to PLUSBUS day ticket purchases.

Senior Railcard holders get 1/3 off the adult price of PLUSBUS day tickets, upon presentation of their valid Senior Railcard, as follows:-
 outside of the South East of England at all times;
 in the South East after the Monday to Friday morning peak period* (excluding Bank Holidays) for a journey wholly within the South East region.
 * times of off-peak services vary by route, but generally related to the availability of Off-Peak tickets.

Disabled Persons Railcard holders get 1/3 off the adult price of PLUSBUS day tickets, upon presentation of their valid Disabled Persons Railcard at all times, when purchased with the following rail ticket types:-
 Off-Peak Day Singles, Off-Peak Day Returns;
 Anytime Singles, Anytime Returns;
 Advance fares.
 Disabled Persons discounts are valid during the morning peak hours.

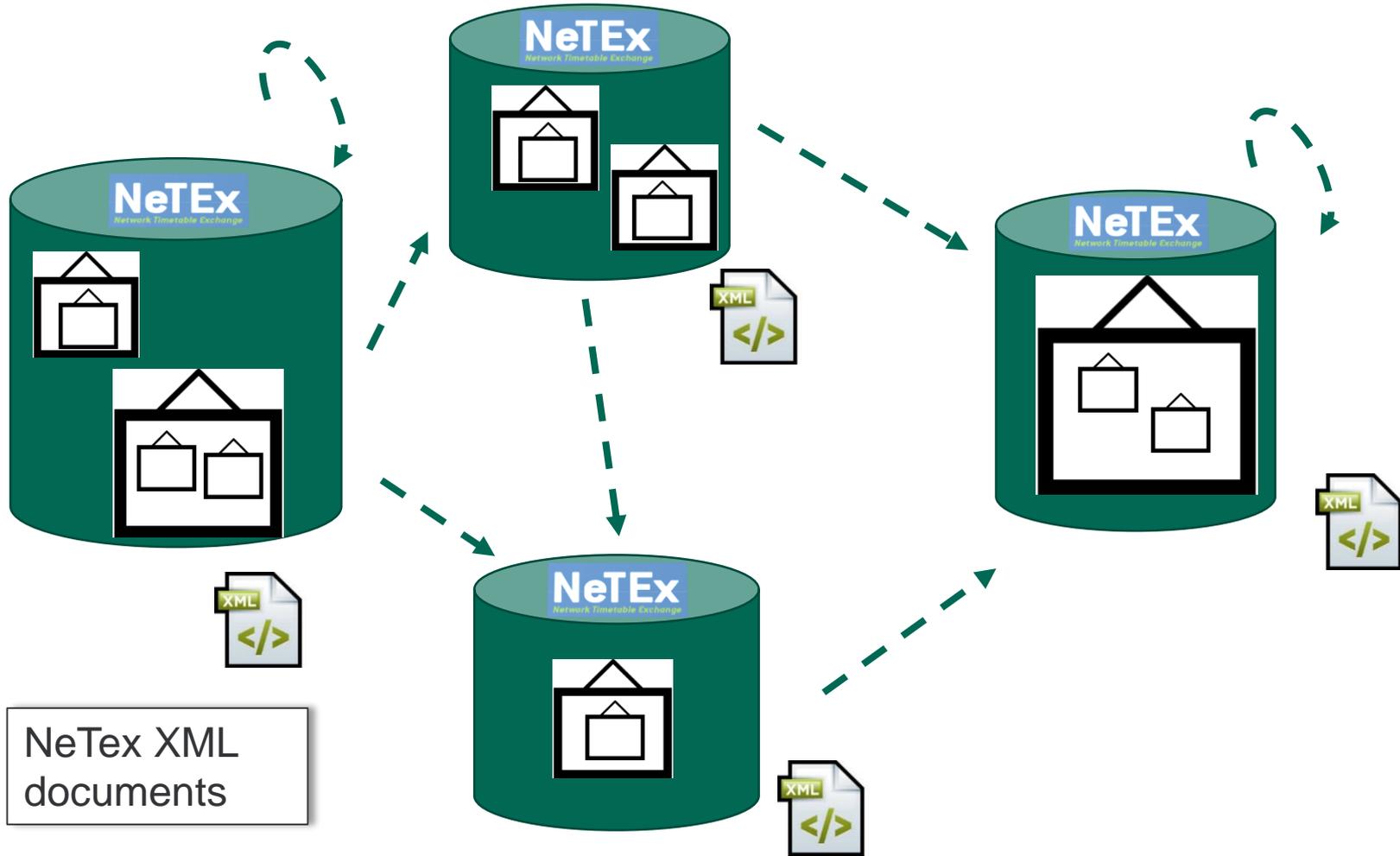
Family&Friends Railcard
Adult travellers get one third off the adult PLUSBUS day ticket price upon presentation of their valid Family&Friends Railcard:
 outside of the South East of England at all times;
 in the South East after the Monday to Friday morning peak period* (excluding Bank Holidays) for a journey wholly within the South East region.
 * times of off-peak services vary by route, but generally related to the availability of Off-Peak tickets.

Children **MUST** be charged the normal child PLUSBUS day ticket price (which is half the adult fare).

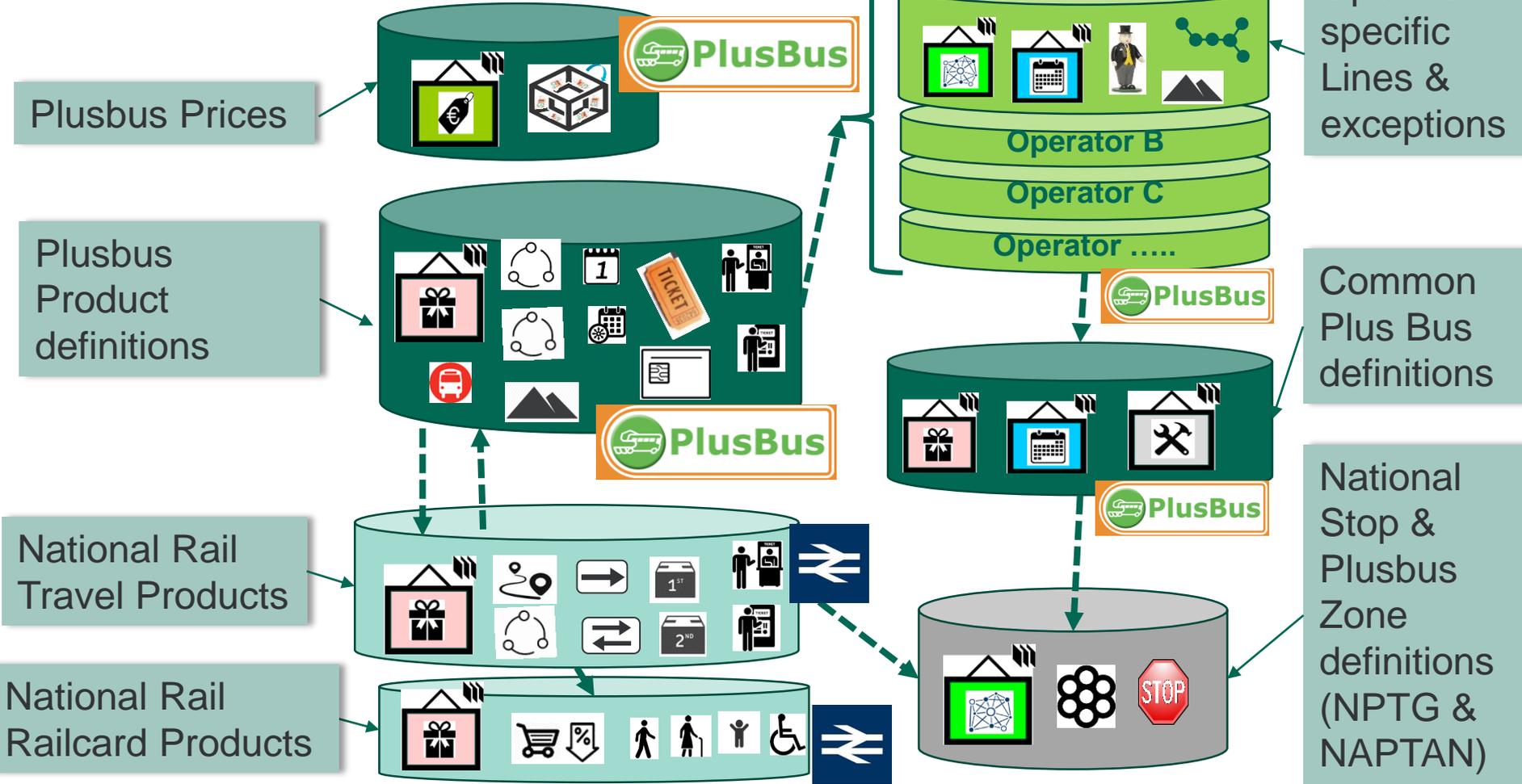
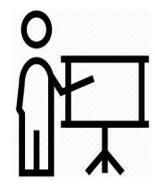
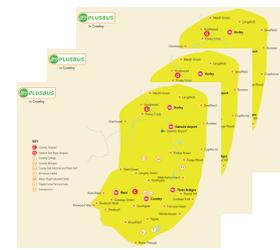
Railcard discount restrictions for PLUSBUS. Updated: 06/12/2017



Modularise ; references may be internal or external



How to partition a Multi-operator product





Rail Cards

**SALE
DISCOUNT
RIGHT (FARE
PRODUCT)**

**DISCOUNTING
RULE**

**SALES
OFFER
PACKAGES**

**USER
PROFILES**

The screenshot shows the Railcard website with a dark blue header containing the Railcard logo, 'Contact Us', 'National Rail', and 'railcard.co.uk'. Below the header is a navigation bar with icons for Home, About Railcards, Travel Inspiration, and Railcard Savings, along with a search box. The main content area features a large banner with the text '1/3 off rail fares. with our range of Railcards.' and a background image of a child flying a kite. Below the banner is a grid of railcard options, each with a colored button and a dropdown arrow:

- 16-25 Railcard
- Two Together Railcard
- Network Railcard
- 26-30 Railcard Trial
- Family & Friends Railcard
- Senior Railcard
- Disabled Persons Railcard

<https://www.railcard.co.uk/about-railcards/>



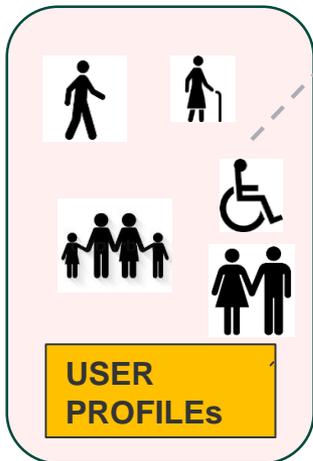
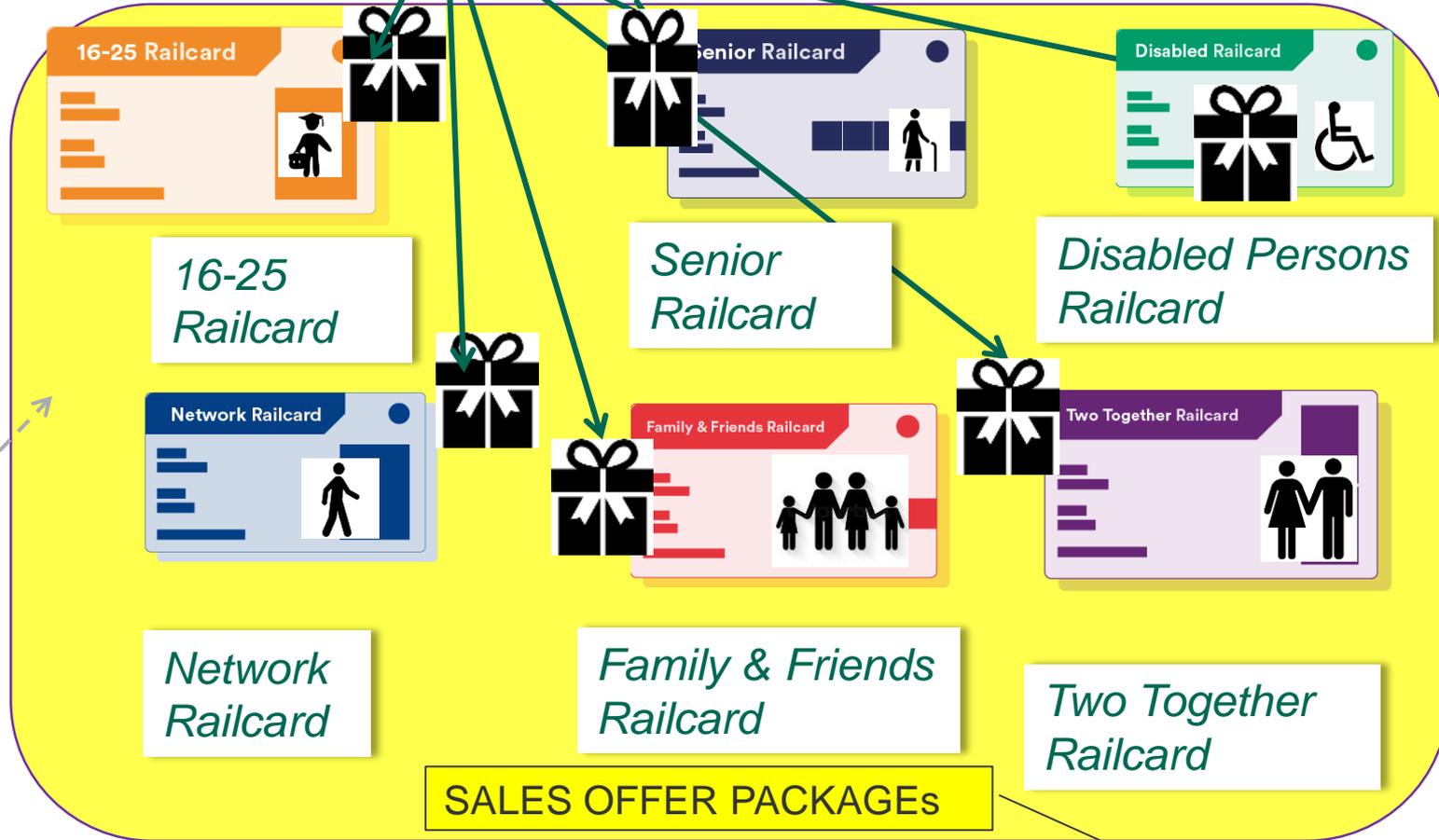
Department for Transport

UK Rail card products

- ▶ Single FARE PRODUCT
- ▶ Multiple SALES OFFER PACKAGES
 - ▶ Different USER PROFILES
- ▶ Shared properties defined by GROUP OF SALES OFFER PACKAGES



Flat rate



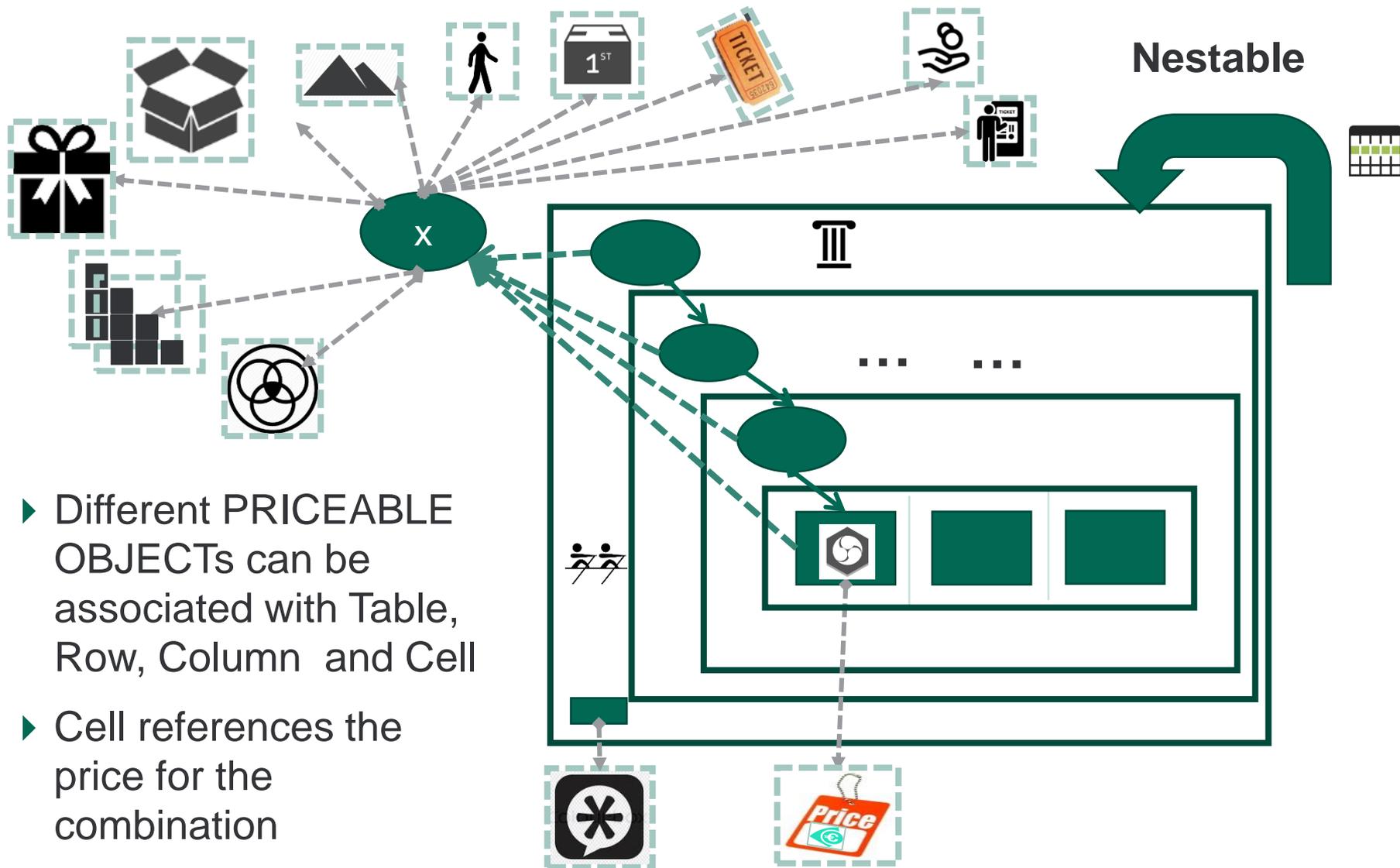


Further Aspects of Modelling Fares

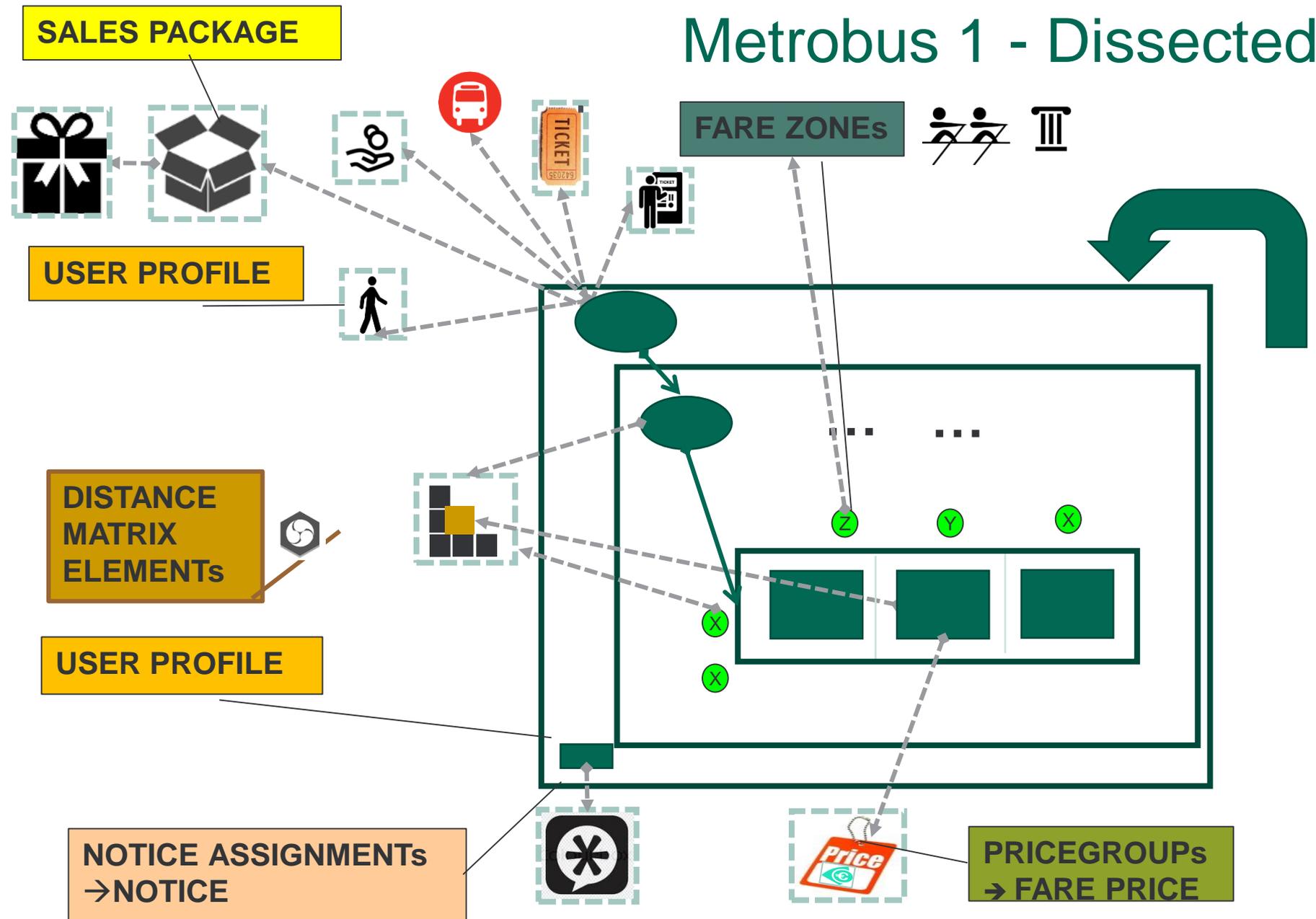
Prices



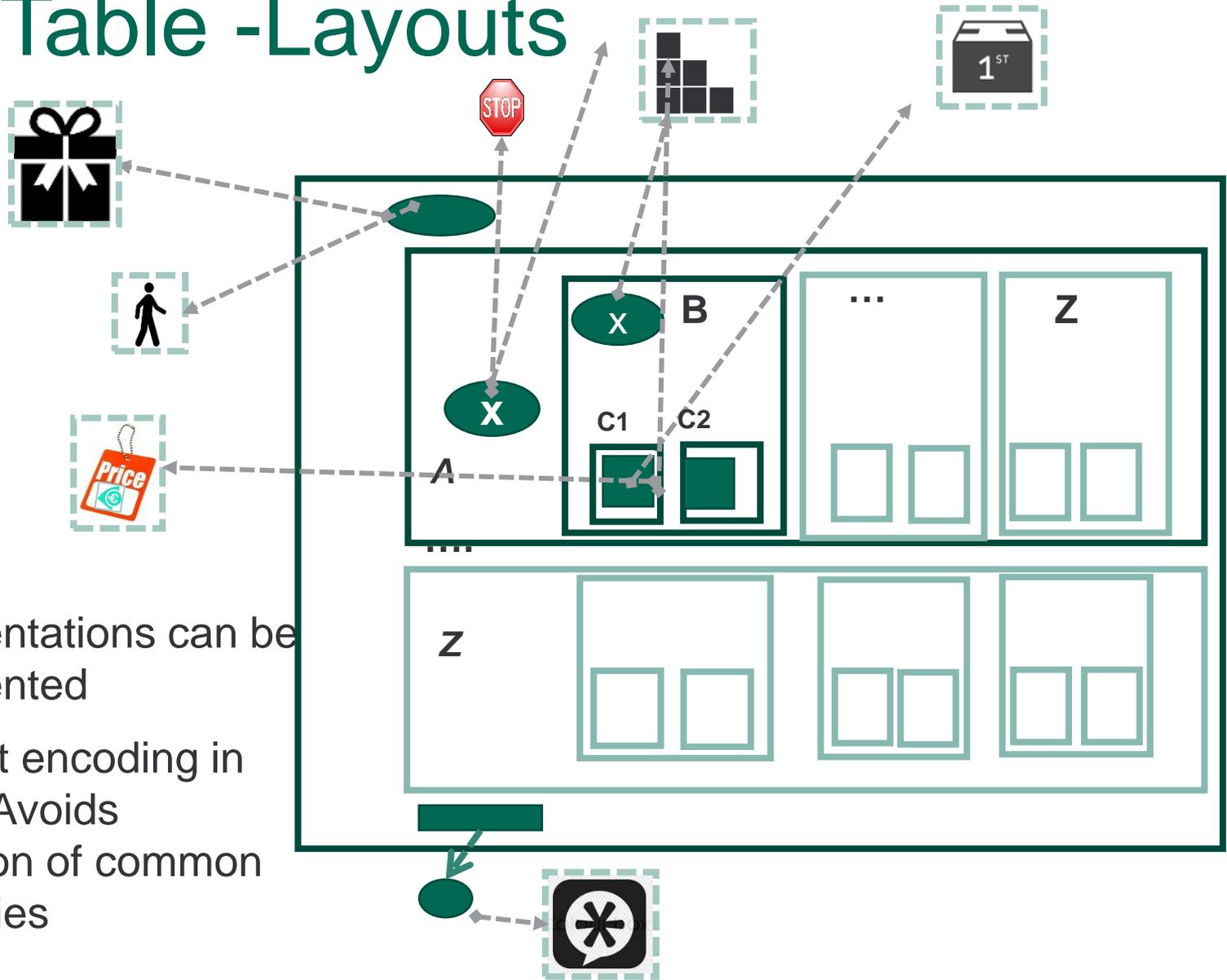
Fare Tables – Organising Price Combinations



Metrobus 1 - Dissected



Fare Table -Layouts



- ▶ Tabular representations can be represented
- ▶ Efficient encoding in XML – Avoids repetition of common properties





Fare Tables – Formatting

► Presentation of fares in tabular form



► Table of price cells



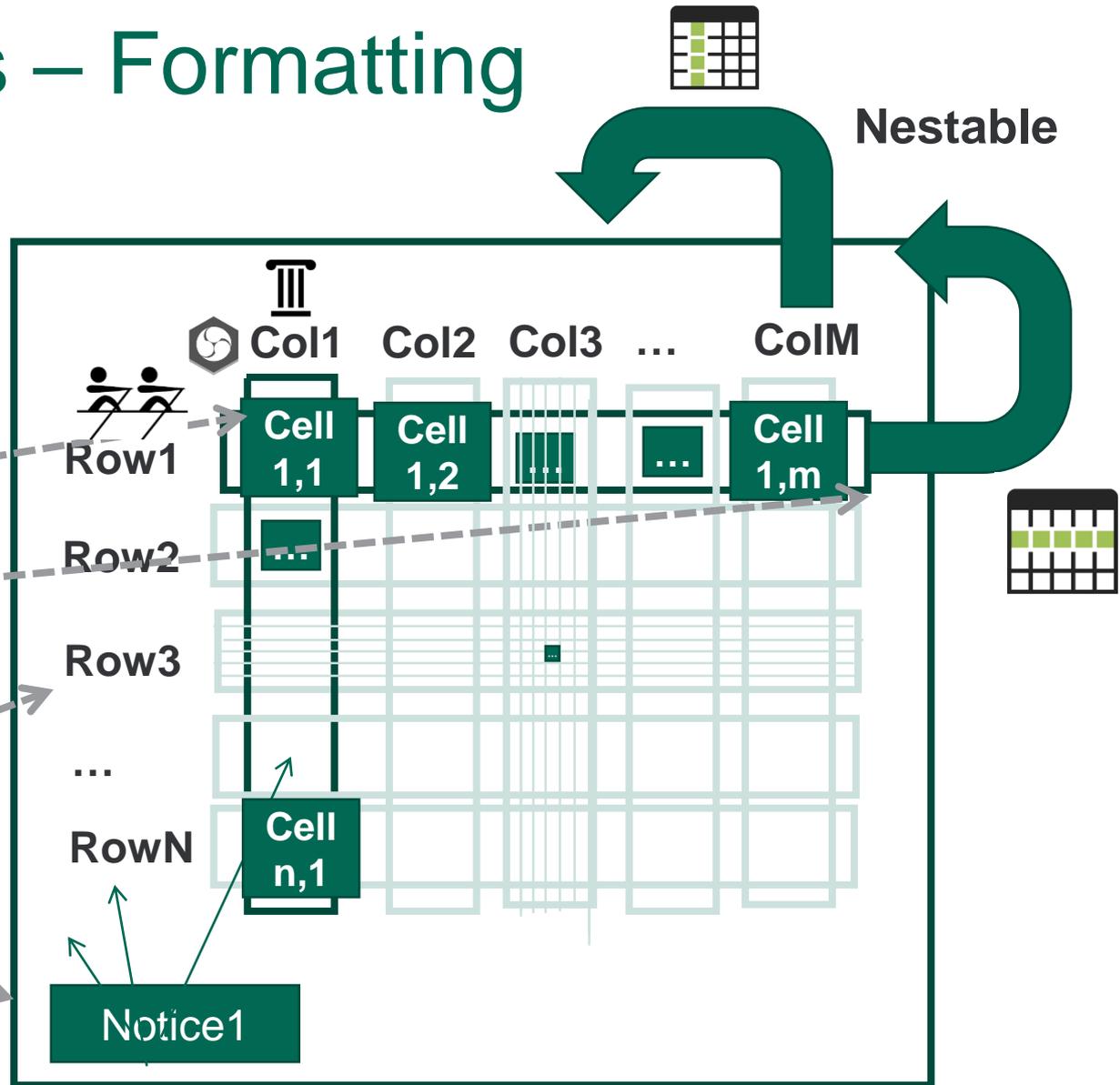
► Row or column can be another nested table



► Can have row and column headers



► Notices may relate to any element



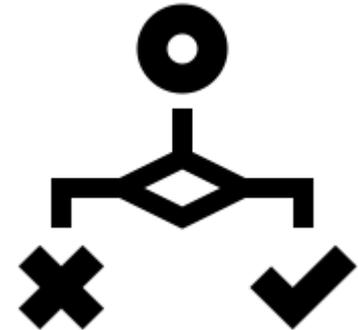


Department
for Transport

Specifying Complex Conditions

Parameter Assignments

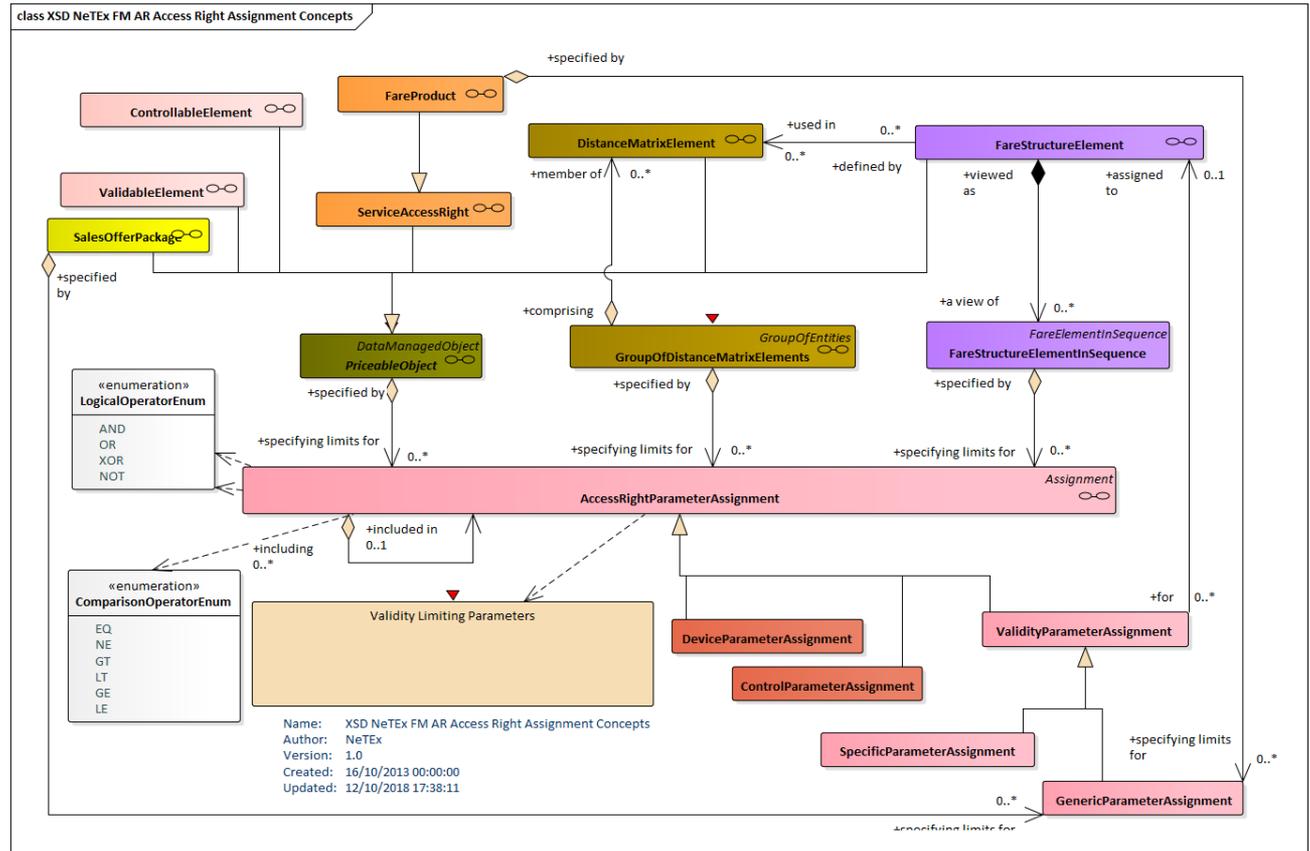
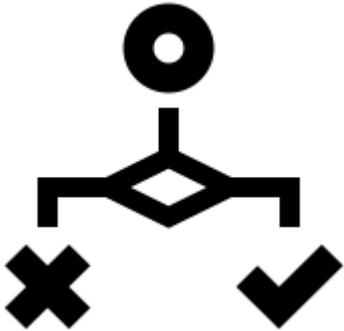
Using Parameters #1



- ▶ Generic Assignment:
 - ▶ List of parameters. Can be Ored or ANDed
 - *Eg 1st Class | Second Class*
 - *E.g. 1st Class & Private Compartment | 2nd Class & Couchette Berth*
 - **Can be used to build complex conditions:**
 - *Eg Travel times for zones.*
 - *Eceptions toPlus bus services*
 - *Timebands into Lndon etc*



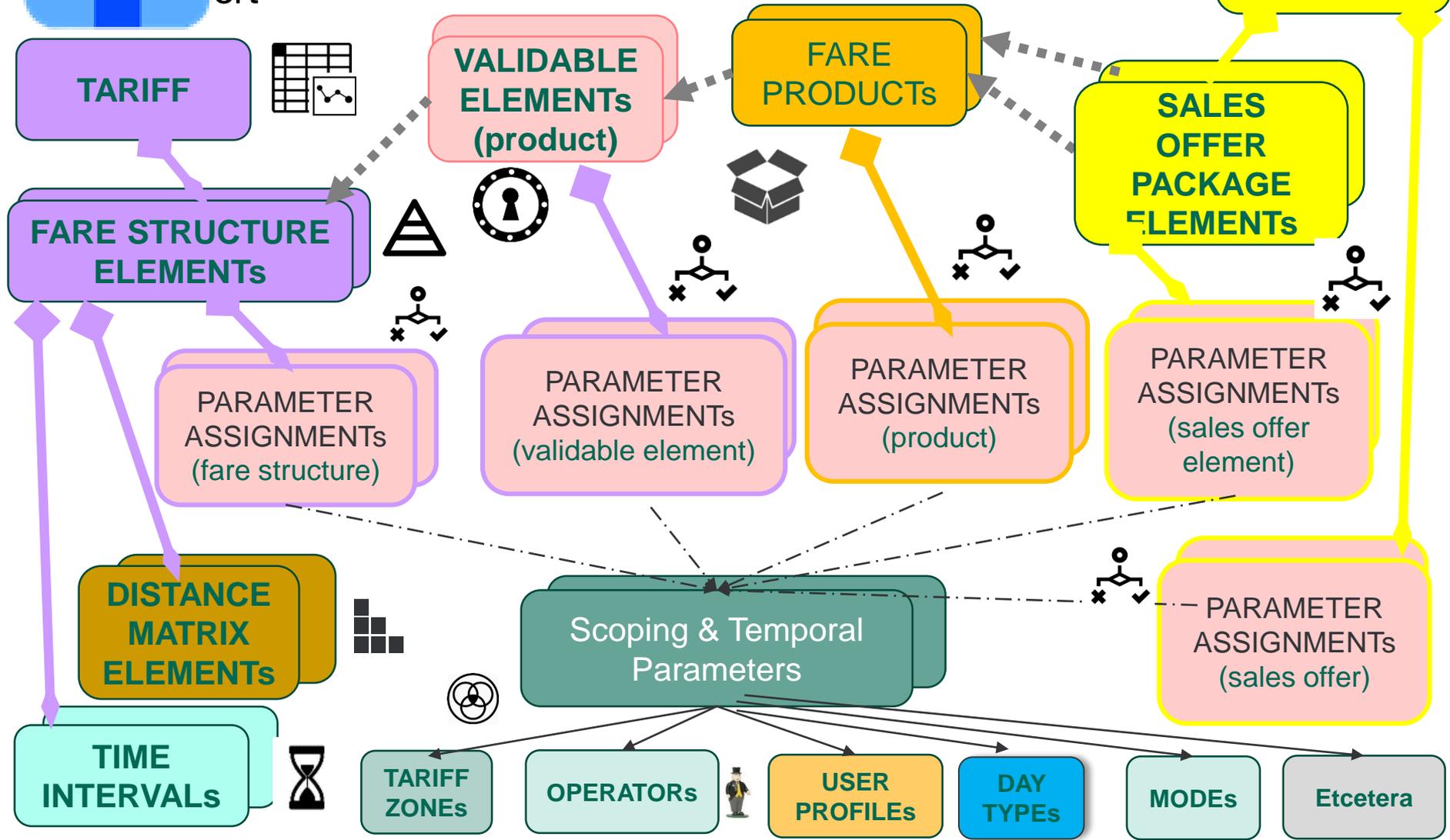
Assignments can be ANDed and ORed together and nested to build complex conditions





Department for Transport

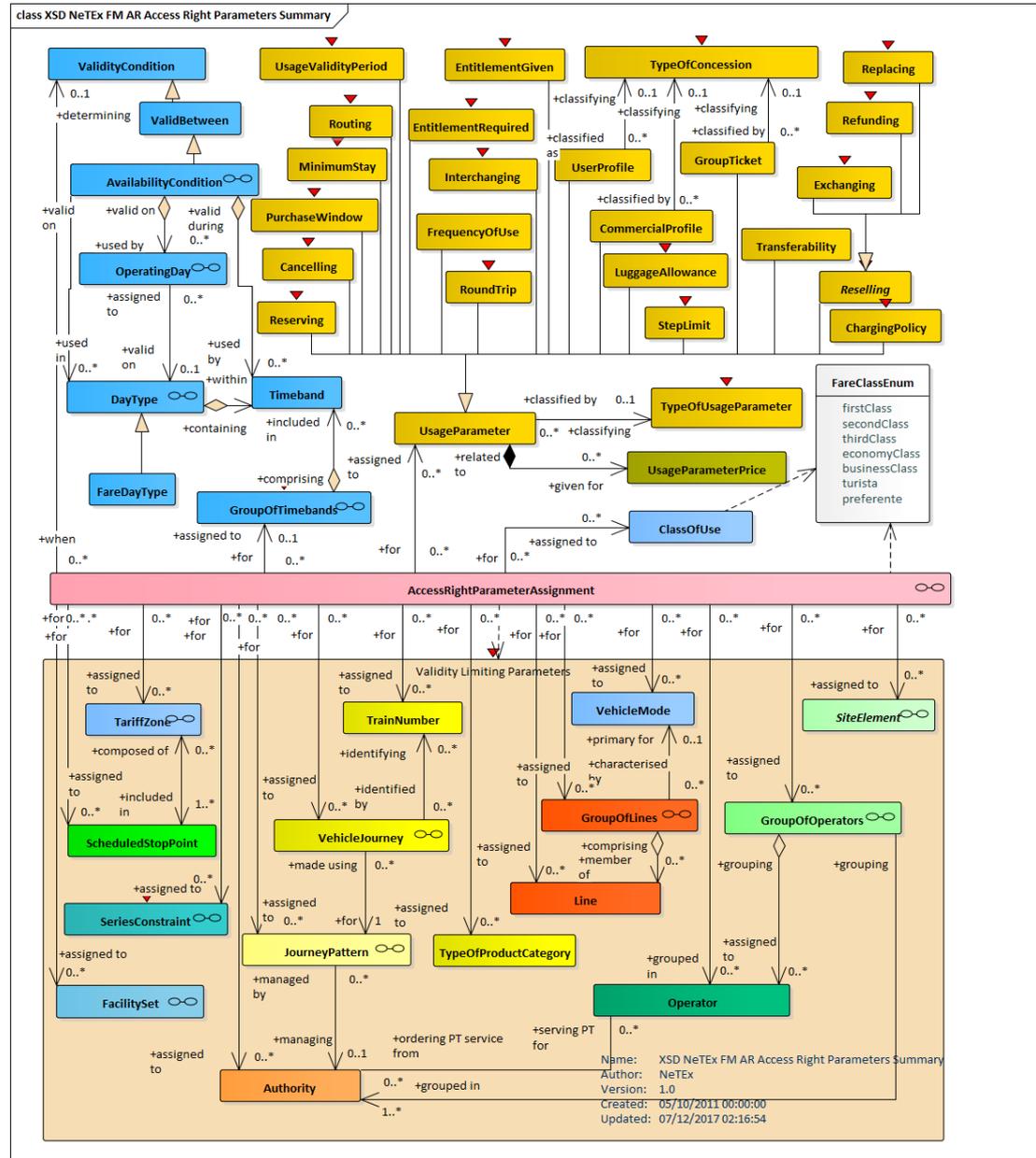
Instances for a typical Fare Product & Sales Offer



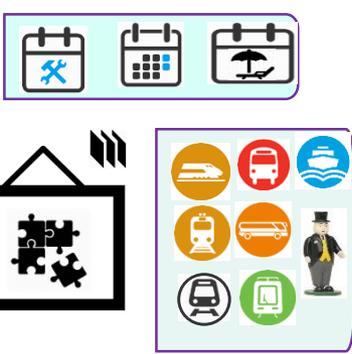


Validity Parameters

Most Network elements, Temporal elements and product components can be used as validity parameters



Common Framework



Describing Fares with NeTeX





Additional Tariffs

Mileage Distance



Distance



- ▶ Price depends on distance
- ▶ Other Parameters: Rounding steps, minima and maxima.
- ▶ Distance may be in arbitrary units
- ▶ Given “Fare distance” between stops may be notional



Department
for Transport

Distance based Fares

CLASS OF USE

TARIFF

GEOGRAPHICAL
INTERVAL PRICES

TIMETABLE

GEOGRAPHICAL
INTERVALS

SCHEDULED
STOP POINTS

- ▶ Distance steps specified as GEOGRAPHICAL INTERVALS

- ▶ Each interval has a price or prices

DISTANCE MATRIX
ELEMENTS
distance

BUCURESTI NORD - BUZĂU	km	15061 **)	15051	15
THE STATION		IR	IR	IR
BUCURESTI NORD	0	8:32	10:10	12
PERIS	30	8:56	10:34	1:0 p.r
Scrovistea	35	9:02	-	-
CRIVINA	39	9:08	10:43	1:1 p.r
BRAZI	51	9:21	10:57	1:2 p.r
PLOIESTI VEST	57	-	-	-
PLOIESTI SUD	60	9:36	11:14	1:4 p.r
PLOIESTI EST	64	-	-	-
MURU HC.	75	-	-	-
CRICOV HM.	77	-	-	-
TOMSANI HC.	82	-	-	-
MIZIL	94	-	11:48	2:1 p.r
SAHATENI HM	101	-	-	-
ULMENI	113	-	-	-
Buzau	129	-	12:24	2:5 p.r

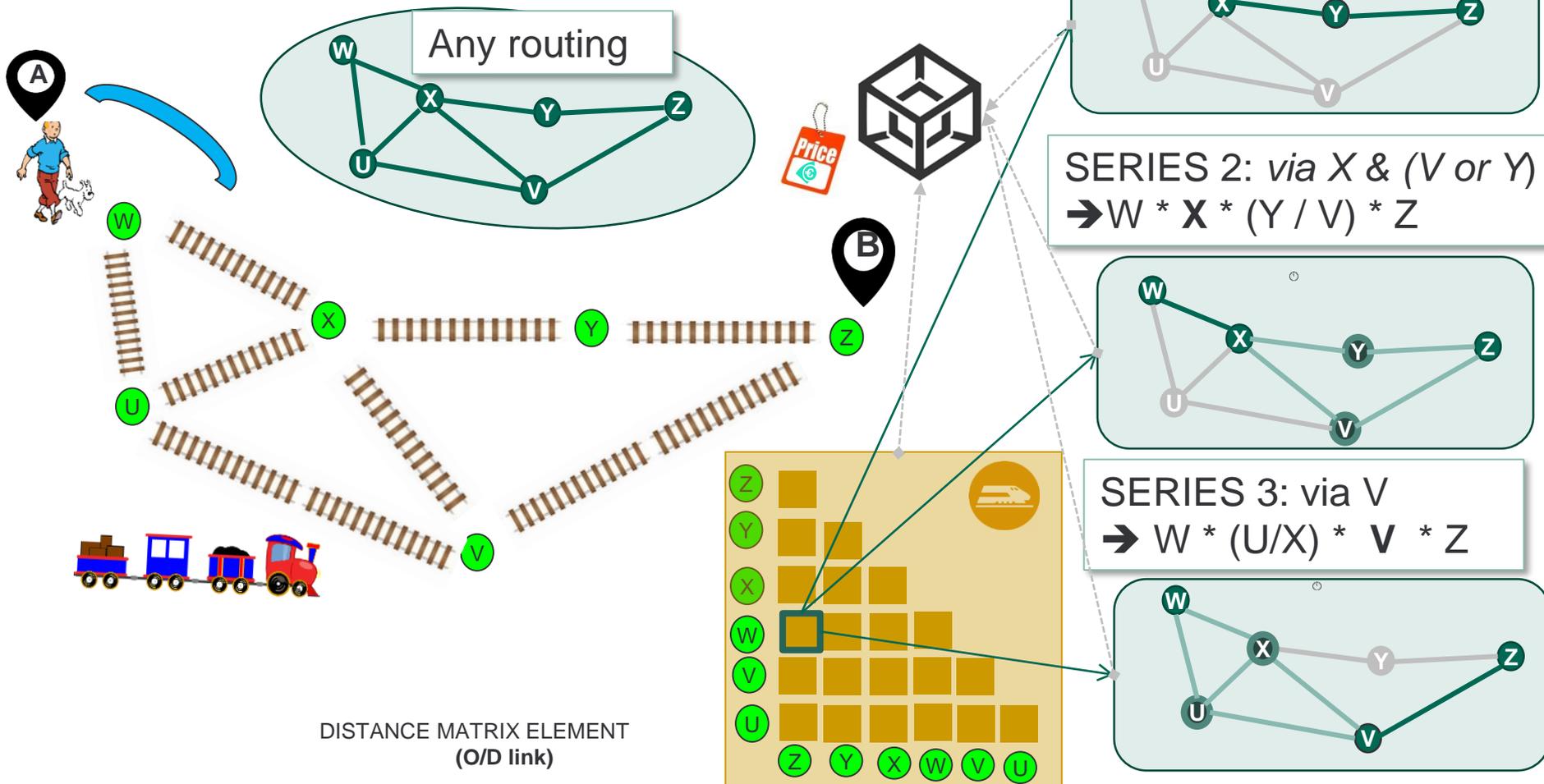
TARIF DE TAXARE ÎN TREN

Regio-R și Interregio-IR

Zona km	clasa 1		clasa 2	
	LEI	din care tva 19%	LEI	din care tva 19%
1-10	6,00	0,96	5,50	0,88
11-20	7,50	1,20	6,00	0,96
21-30	10,00	1,60	6,50	1,04
31-40	11,50	1,84	7,50	1,20
41-50	14,50	2,32	9,00	1,44
51-60	15,00	2,39	9,50	1,52
61-70	17,50	2,79	11,50	1,84
71-80	19,50	3,11	13,00	2,08
81-90	21,50	3,43	14,50	2,32
91-100	24,00	3,83	15,50	2,47
101-120	28,00	4,47	18,00	2,87
121-140	32,50	5,19	21,00	3,35
141-160	36,00	5,75	23,50	3,75
161-180	41,00	6,55	27,00	4,31
181-200	45,00	7,18	28,50	4,55
201-250	51,50	8,22	32,50	5,19
251-300	59,50	9,50	38,00	6,07
301-350	67,50	10,78	44,00	7,03

Routing constraints specify an allowed envelope for travel over a network.

- The same O/D pair may have multiple alternate routings, each with a different price.

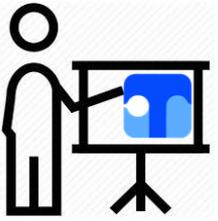




Further Aspects of Modelling Fares

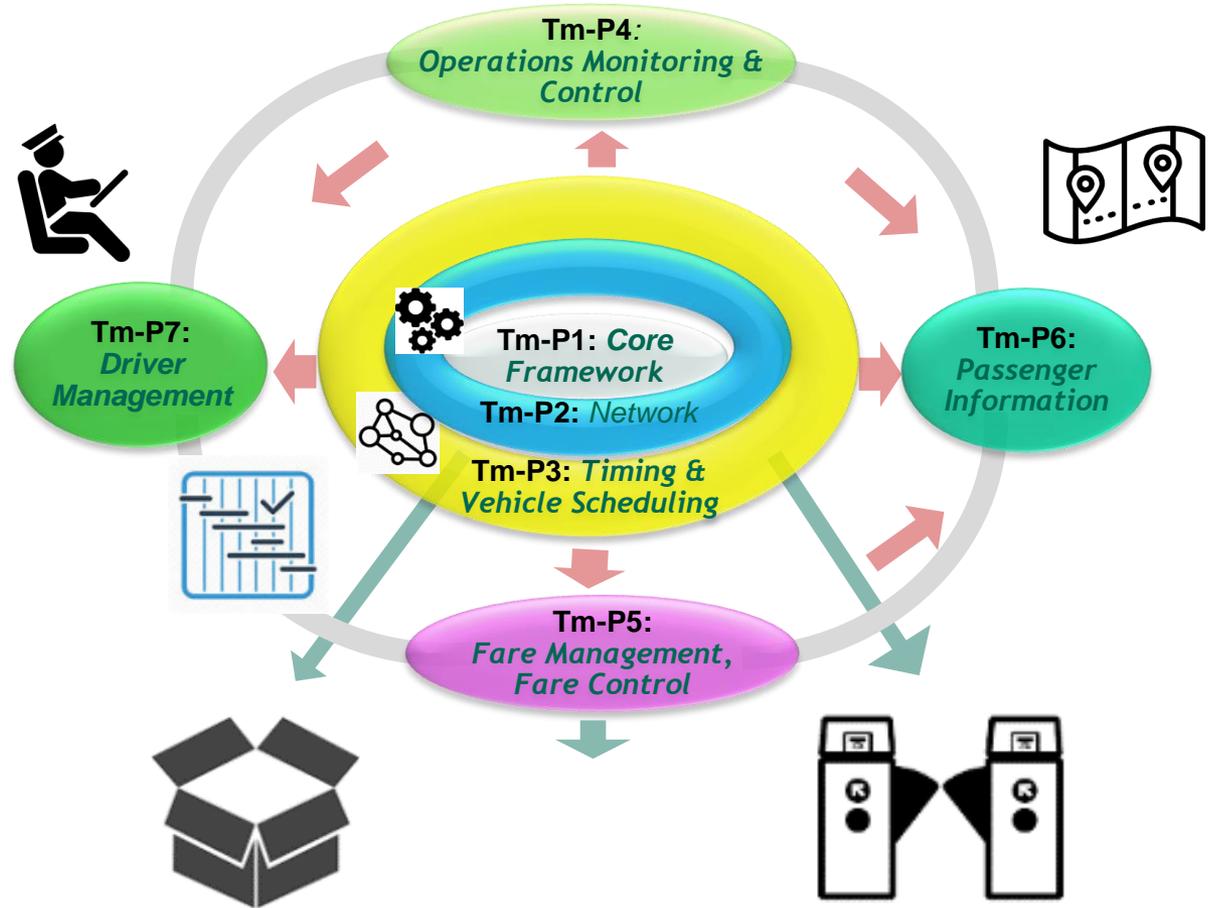
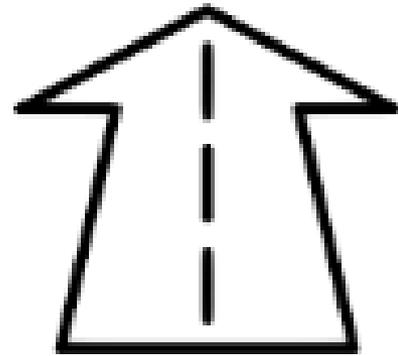
VALidation & COntrol





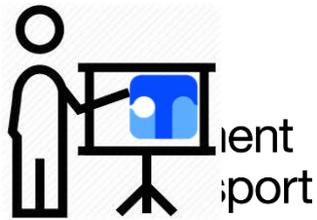
Transmodel 6.0

Also includes Validation & Control



Tm-P8: Management Information & Statistics



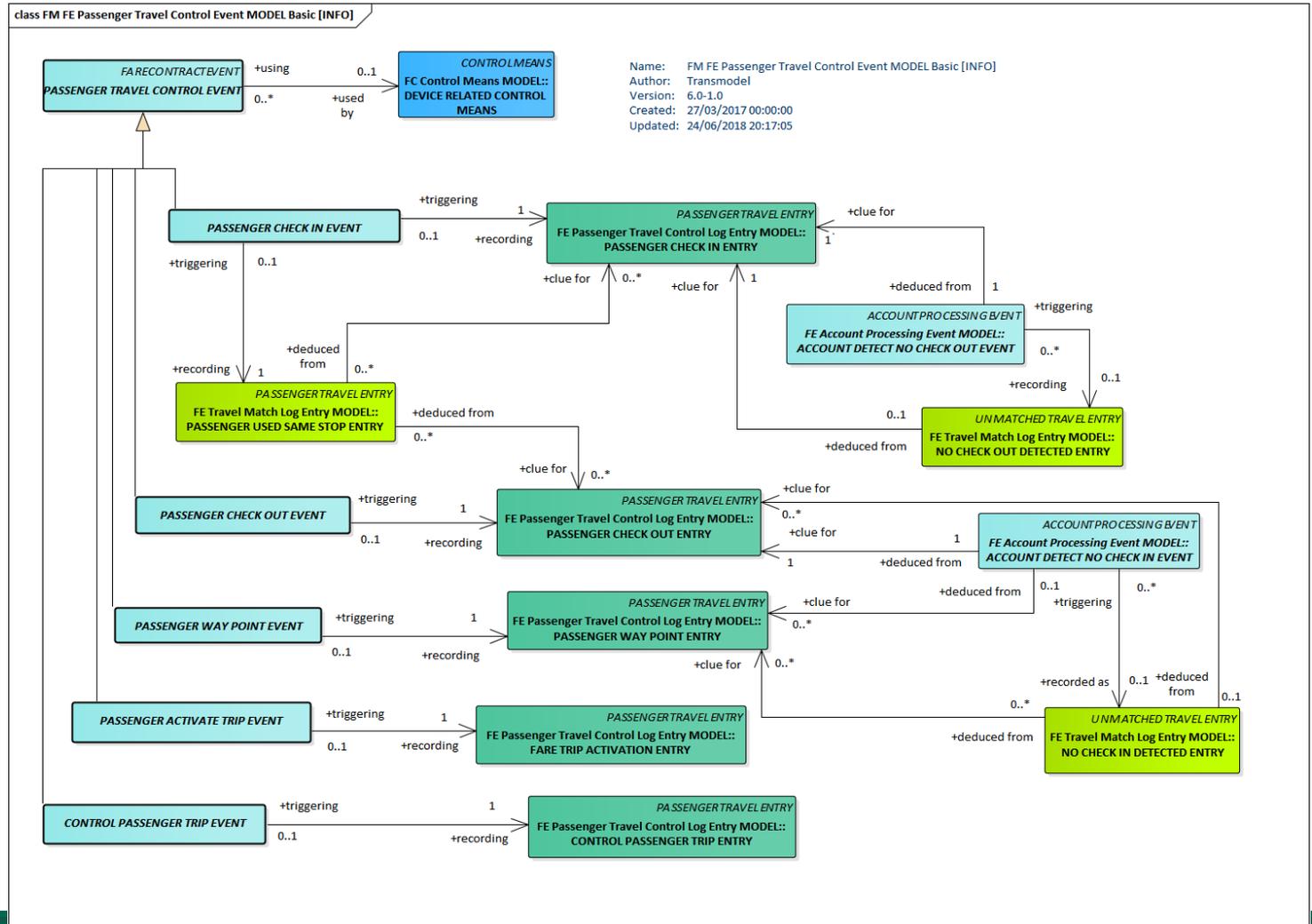


Transmodel Fare concepts not encoded in NeTEx

(1) Validation & Control Events

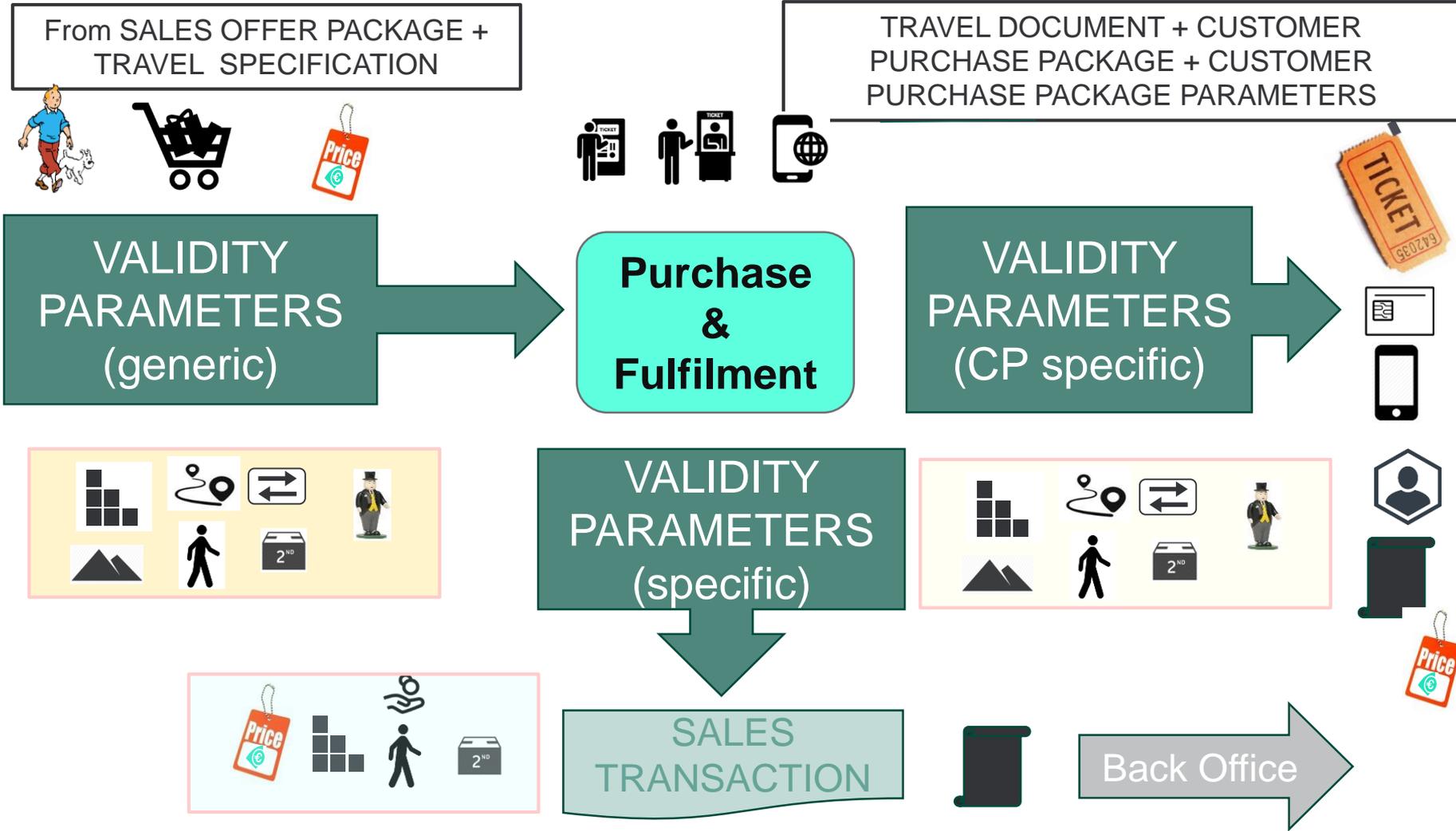
- ▶ User Interaction with system can be described as events & as log entries
 - **Sales**
 - ❑ **Registration:** Account creation, update, delete, etc
 - ❑ **Purchase, fulfilment,** Selection, payment, collection, app installation, subscription, etc
 - ❑ **After Sales:** Exchange, Refund, Reinstallation, Replacement, etc
 - **Control & Validation**
 - ❑ **Travel:** Activation, Check-in, Control, Checkout..., etc
 - ❑ **Control:** No Check in, No Check out, Repeated check in, etc
 - ❑ **Revenue protection:** Access rights, No Proof of Travel, Suspicious behaviour, etc
 - ❑ **Security Action:** Suspend, Activate, Place on Security List, Delist, etc
- ▶ Useful for aligning fare with various standard, proprietary and informal descriptions of Fare Processes that generate data for control, clearing and settlement systems
 - ▶ eg IFM, FSM, UIC Account Based Ticketing report etc

Harmonising Fare Validation





PURCHASE & FULFILMENT EVENTS





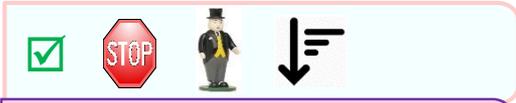
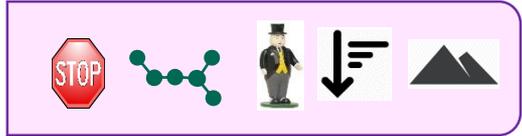
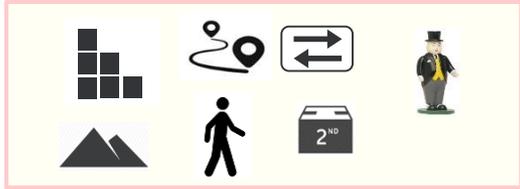
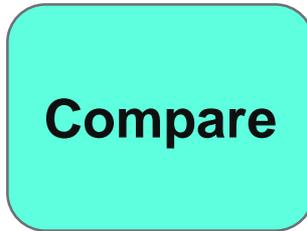
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VALIDATION & CONTROL of

From TRAVEL DOCUMENT / CUSTOMER PURCHASE PACKAGE (Media centric) or ACCOUNT (ABT)



CONTROL MEANS:
From CONTROL DEVICE or TCO



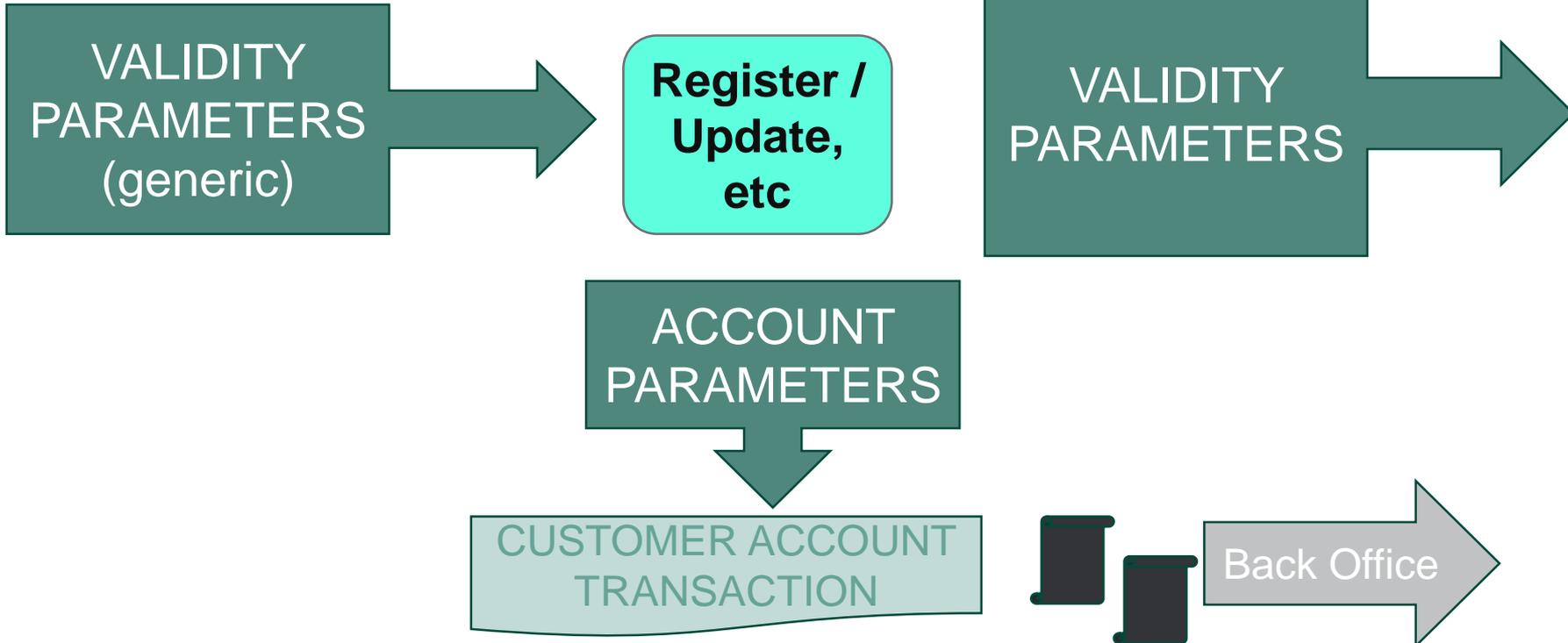


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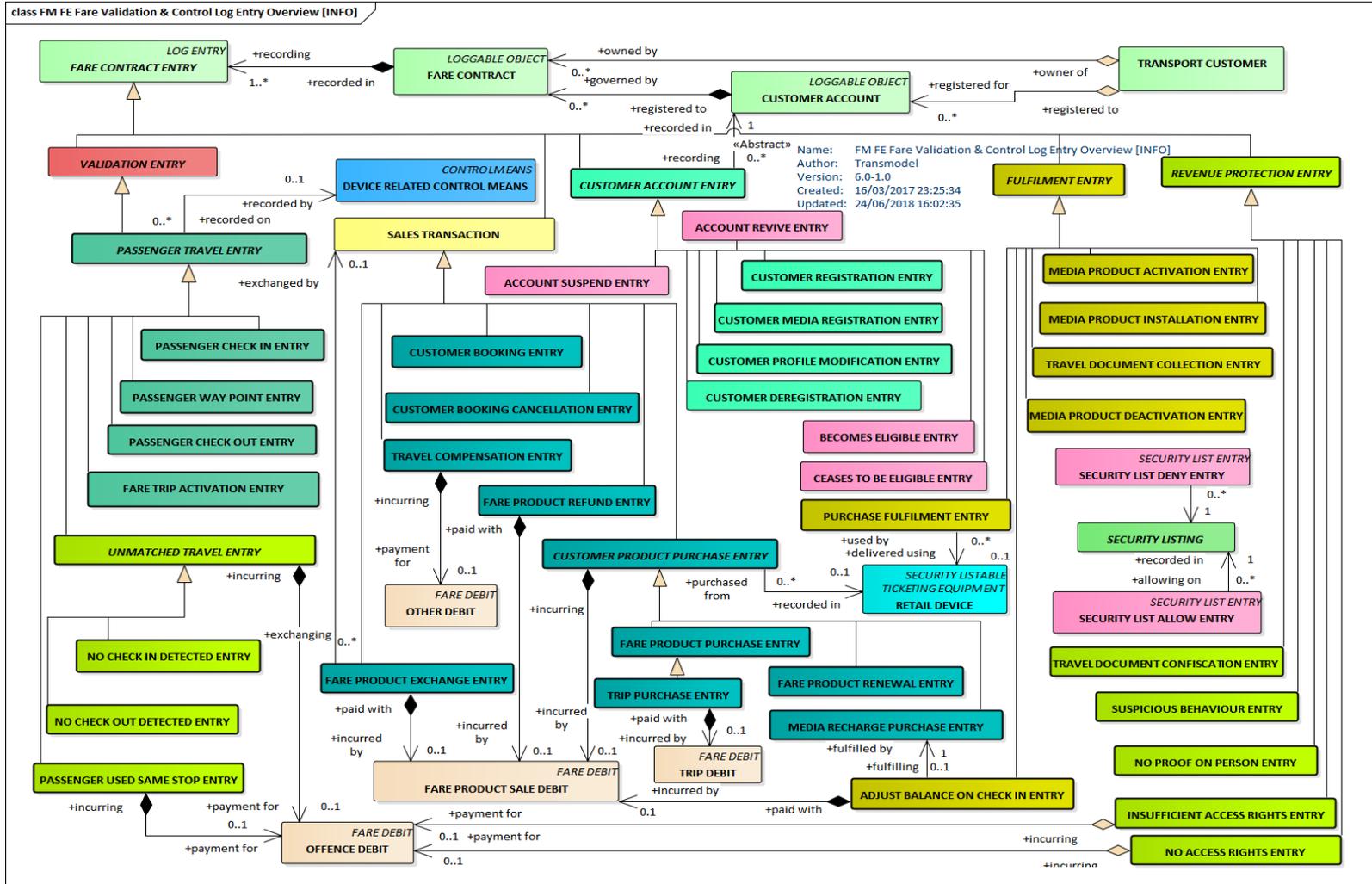
ACCOUNT MANAGEMENT

From CUSTOMER

To CUSTOMER ACCOUNT



Recording Events – Log Entries





Account Sales and Fare Transactions

Account



➤ Events to record purchase and fulfilment

	Action Name	Classical	Media Centric	ABT	Note
Customer Purchase & After Sales	FARE PRODUCT PURCHASE ENTRY	Applicable	Applicable	Applicable	
	TRIP PURCHASE ENTRY	Applicable	Applicable	Applicable	
	FARE PRODUCT RENEWAL ENTRY	Applicable	Applicable	Applicable	
	MEDIA RECHARGE PURCHASE ENTRY	n/a	Applicable	Applicable	
	FARE PRODUCT REFUND EVENT	Applicable	Applicable	Applicable	
	FARE PRODUCT EXCHANGE ENTRY	Applicable	Applicable	Applicable	
	TRAVEL COMPENSATION ENTRY	Applicable	Applicable	Applicable	
	CUSTOMER BOOKING ENTRY	Applicable	Applicable	Applicable	
	CUSTOMER BOOKING CANCELLATION ENTRY	Applicable	Applicable	Applicable	
Account Auto Sales	ACCOUNT AUTO RENEWAL ENTRY	n/a	Applicable	Applicable	
	ACCOUNT AUTO TOP UP ENTRY	n/a	Applicable	Applicable	
	ACCOUNT AWARD REFUND ENTRY	n/a	n/a	Applicable	
Fulfilment	TRAVEL DOCUMENT COLLECTION ENTRY	Applicable	Applicable	Applicable	
	PURCHASE FULFILMENT ENTRY	n/a	Applicable	Applicable	
	MEDIA PRODUCT INSTALLATION ENTRY	n/a	Applicable	Applicable	Account may have media
	MEDIA PRODUCT ACTIVATION ENTRY	n/a	Applicable	Applicable	ditto
	MEDIA PRODUCT DEACTIVATION ENTRY	n/a	Applicable	Applicable	to
	MEDIA RESTORE ENTRY	n/a	Applicable	Applicable	to
	MEDIA APPLICATION RESTORE ENTRY	n/a	Applicable	Applicable	to
	TRAVEL DOCUMENT ANNULMENT ENTRY	Applicable	Applicable	Applicable	



Account Events



➤ Events to create or change a customer account

	Action Name	Classical	Media Centric	ABT	Note
Customer Account	CUSTOMER REGISTRATION ENTRY	Applicable	Applicable	Applicable	Classical may register for season pass
	CUSTOMER DEREGISTRATION ENTRY	Applicable	Applicable	Applicable	
	CUSTOMER PROFILE MODIFICATION ENTRY	Applicable	Applicable	Applicable	
	CUSTOMER MEDIA REGISTRATION ENTRY	n/a	Applicable	Applicable	
	RESTORE CUSTOMER ACCOUNT ENTRY	n/a	Applicable	Applicable	
	BECOMES ELIGIBLE ENTRY	n/a	n/a	Applicable	



Travel Control & Validation Events

	Action Name	Classical	Media Centric	ABT	Note
Travel	PASSENGER CHECK IN ENTRY	n/a	Applicable	Applicable	
	PASSENGER CHECK OUT ENTRY	n/a	Applicable	Applicable	Post payment only
	PASSENGER WAY POINT ENTRY	n/a	Applicable	Applicable	Post payment only
	FARE TRIP ACTIVATION ENTRY	Applicable	Applicable	Applicable	
	CONTROL PASSENGER TRIP ENTRY	Applicable	Applicable	Applicable	
Travel Match	NO CHECK OUT DETECTED ENTRY	n/a	Applicable	Applicable	Post payment only
	NO CHECK IN DETECTED ENTRY	n/a	Applicable	Applicable	
	PASSENGER USED SAME STOP ENTRY	n/a	Applicable	Applicable	
Revenue Protection	NO ACCESS RIGHTS ENTRY	Applicable	Applicable	Applicable	
	INSUFFICIENT ACCESS RIGHTS ENTRY	Applicable	Applicable	Applicable	Depends on Policy
	SUSPICIOUS BEHAVIOUR ENTRY	Applicable	Applicable	Applicable	
	NO PROOF ON PERSON ENTRY	Applicable	Applicable	Applicable	
	TRAVEL DOCUMENT CONFISCATION ENTRY	Applicable	Applicable	Applicable	
Account Security	ACCOUNT SUSPEND ENTRY	n/a	n/a	Applicable	
	ACCOUNT REVIVE ENTRY	n/a	n/a	Applicable	
	SECURITY LIST ALLOW ENTRY	n/a	Applicable	Applicable	
	SECURITY LIST DENY ENTRY	n/a	Applicable	Applicable	
	CEASES TO BE ELIGIBLE ENTRY	n/a	n/a	Applicable	
	BECOMES ELIGIBLE ENTRY	n/a	n/a	Applicable	





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Thank You !