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CONFORMITÉ À TRANSMODEL

Cas de SIRI et approche de généralisation des règles de conformité

Annexe 2 : Tableau de comparaison

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Annexe 2 : Tableau de comparaison

La présente annexe fournit le tableau de comparaison détaillée entre SIRI et Transmodel (cf. § 2.2.3).

Les lignes décrivant une classe (du modèle d'étude) sont en grisé. Les éventuels attributs d'une classe sont décrits dans les lignes qui suivent celles-ci.

Les premières colonnes du tableau résument les principales caractéristiques de l'élément SIRI considéré :

- numéro d'ordre indicatif (#) ;
- nom de la classe du modèle d'étude (*Class*) ;
- nom de l'attribut (*Attribute*) ;
- indication (A) du fait que l'attribut est proprement (P) une donnée élémentaire d'un message SIRI ou qu'il décrit une relation (R) à une autre classe complexe du modèle d'étude (que l'on peut rechercher dans le tableau) ; les relations à une classe simple sont notées P ;
- type d'attribut, selon la typologie SIRI (*Attribute type*) ;
- multiplicité de l'attribut (*UML multiplicity*) telle que spécifiée par SIRI, en notation UML : 1 (1 et 1 seul) ; 1..* (1 à n) ; 0..1 (0 ou 1) ; * (0 à n), etc. ;
- contenu (c'est-à-dire le plus souvent la définition) de la classe ou de l'attribut, tel qu'accessible dans la documentation SIRI (*Siri message documentation*) ; certaines définitions ne sont pas rappelées dans le tableau, lorsqu'elles figurent déjà ailleurs ou qu'elles sont triviales.

Dans le cas d'une classe du modèle d'étude, seules les deux premières informations sont données.

Les colonnes suivantes du tableau indiquent la classification des concepts vis-à-vis de leur comparaison à Transmodel, comme décrit ci-dessous.

Les deux premières colonnes considérées fournissent des indications générales :

- Texte résumant le résultat de la comparaison (*TM correspondence indication*) : équivalence, chemin de dérivabilité, spécificité SIRI, commentaires... ;
- Classe Transmodel correspondante (*Corresponding TM class*) : classe équivalente ou dérivable, classe ayant fait l'objet d'une extension ou d'un ajout d'attribut.

Les colonnes suivantes servent à indiquer le fait que l'élément considéré correspond (une croix) ou non (vide) à la classification de la colonne. Ces classifications sont mutuellement exclusives. Les colonnes sont les suivantes :

- exactement conforme (sémantiquement équivalent) à une classe Transmodel (*Exact correspondence to TM class*) : même définition et mêmes attributs obligatoires ;
- exactement conforme à un attribut de Transmodel (*Exact correspondence to TM attribute*) : même définition et même utilisation de l'attribut ;
- l'élément considéré ne se trouve pas tel quel dans Transmodel mais ses propriétés y existent sous une autre forme (*Derived from TM (class/attr.)*) : en d'autres termes, l'élément considéré (classe du modèle d'étude ou attribut) peut être dérivé de Transmodel sans ajout ni perte d'information ; la sémantique est alors équivalente dans les deux modèles, seule la présentation formelle diffère ;
- propriété équivalente à un attribut ajouté à ceux de Transmodel pour une classe donnée, sans que cet ajout ne contredise la sémantique de la classe en question (*Additional attribute without contradiction*) : il s'agit alors d'une extension autorisée à Transmodel, afin de satisfaire des besoins non couverts par le modèle de référence ;
- extension fonctionnelle d'une classe de Transmodel (*Siri extension to semantically equivalent TM class*) : l'élément considéré est analogue à une classe Transmodel, mais avec une définition et une utilisation étendue, sans que cette extension ne contredise la sémantique de la classe en question : il s'agit alors d'une extension autorisée à Transmodel, afin de satisfaire des besoins non couverts par le modèle de référence ;
- classe ou attribut spécifique à SIRI (*Siri specific-new (class/attr.)*) : l'élément considéré n'a aucune correspondance dans Transmodel (ni classe ni attribut, ni propriété dérivable) ; sa sémantique ne contredit toutefois pas celle du modèle de référence ;
- extension spécifique présentant une différence sémantique avec Transmodel (*Siri specific - modified*), c'est-à-dire une différence susceptible d'engendrer une perte d'information lors d'un échange de données.

Le tableau donne ainsi un exemple des informations nécessaires pour la vérification de conformité à Transmodel ainsi que la forme du résultat de la vérification.

#	Class	A	Attribute	Attribute type	UML multiplicity	Siri message documentation	TM correspondence indication; comments	Corresponding TM class	Exact correspondence to TM class	Exact correspondence to TM attribute	SIRI specific - derived from TM (class/attr.)	Additional attribute without contradiction	SIRI extension to semantically equivalent TM class	SIRI specific - new (class/attr.)	SIRI specific - Modified
1	AbstractMonitoredCall					CALL – SIRI (Candidate to add to TransModel)A visit by a VEHICLE to a specific STOP POINT as it follows the JOURNEY PATTERN of its VEHICLE JOURNEY. A VEHICLE may make more than one Call to the same stop in the course of a JOURNEY: different calls may typically be distinguished by a Visit Number count.	Extended meaning of DATED PASSING TIME from TM V5.	DATED PASSING TIME					X		
2	AbstractMonitoredCall	P	StopPointref	StopPointCode	0..1		POINT ID of the STOP POINT where the call takes place.	STOP POINT			X				
3	AbstractMonitoredCall	P	VisitNumber	VisitNumber	0..1		Siri specific if the numbers are not consecutive. Consecutive visit numbers can be derived from the Order of the POINT IN JOURNEY PATTERN							X	
4	AbstractMonitoredCall	P	Order	Bearing	0..1		Order of the STOP POINT IN JOURNEY PATTERN.	STOP POINT IN JOURNEY PATTERN		order					
5	AbstractMonitoredCall	P	StopPointName	nlString	0..1		POINT Name of the STOP POINT where the call takes place.	STOP POINT		name	X				
6	AimedArrivalInfo					not found	Various information on the arrival at the call.	PASSING TIME					X		
7	AimedArrivalInfo	P	AimedArrivalTime	dateTime	0..1	A non-displayable status describing the running of this vehicle	Equivalent to the Aimed arrival time attribute from TARGET PASSING TIME.	TARGET PASSING TIME		aimed arrival time					
8	AimedArrivalInfo	P	ArrivalPlatformName	nlString	0..1	see the related item	Siri specific. Would be VEHICLE STOPPING PLACE in IFOPT (cf. Stop Place Model CENTC278WG3)							X	
9	AimedArrivalInfo	P	ArrivalBoardingActivity	ArrivalActivity	0..1	see the related item	Siri specific. Default values for the JOURNEY PATTERN can be derived from the STOP POINT IN JOURNEY PATTERN attributes							X	
10	AimedArrivalTimes						Time arrival information on a call.				X				
11	AimedArrivalTimes	P	AimedArrivalTime	dateTime	0..1	(1) Aimed Arrival Time at the connection link (2) Aimed Arrival Time in either the original or Production Timetable. Can be omitted at the end stop (cf. DatedCall)	Aimed arrival time attribute of an TARGET PASSING TIME.	TARGET PASSING TIME		aimed arrival time					
12	AimedArrivalTimes	P	ExpectedArrivalTime	dateTime	0..1	(1) Estimated time of arrival (cf. xxCall) (2) Estimated arrival time at the connection link (cf. MonitoredFeederArrival)	Expected arrival time attribute of an ESTIMATED PASSING TIME.	ESTIMATED PASSING TIME		expected arrival time					
13	AimedDepartureInfo						Various information on the departure from the call.	PASSING TIME					X		
14	AimedDepartureInfo	P	AimedDepartureTime	dateTime	0..1	Departure Time in either the original or Production Timetable. .	Equivalent to the Aimed departure time attribute from TARGET PASSING TIME.	TARGET PASSING TIME		aimed departure time					
15	AimedDepartureInfo	P	DeparturePlatformname	nlString	0..1		Siri specific. Would be VEHICLE STOPPING PLACE in IFOPT							X	
16	AimedDepartureInfo	P	DepartureBoardingActivity	DepartureActivity	0..1	see the related item	Siri specific. Default values for the JOURNEY PATTERN can be derived from the STOP POINT IN JOURNEY PATTERN attributes.							X	
17	AimedDepartureTimes						Time departure information on a call.				X				
18	AimedDepartureTimes	P	AimedDepartureTime	dateTime	0..1	Departure Time in either the original or Production Timetable.	Aimed departure time attribute of a TARGET PASSING TIME.	TARGET PASSING TIME		aimed departure time					
19	AimedDepartureTimes	P	ExpectedDepartureTime	dateTime	0..1	Estimated time of departure	Expected departure time attribute of an ESTIMATED PASSING TIME.	ESTIMATED PASSING TIME		expected departure time					
20	ArrivalActivity					not found								X	

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21	ArrivalInfo						Information on arrival at a call.							X	
22	ArrivalInfo	P	ArrivalStatus	ProgressStatus	0..1		Siri specific.							X	
23	ArrivalInfo	P	ArrivalPlatformName	niString	0..1	Bay or platform name. Inherited property. Can be omitted if the same as the DeparturePlatformName. If there not an arrival platform name separate from the departure platform name, the precedence is (i) any arrival platform on any related dated timetable call element, (ii) any departure platform name on this call element; (iii) any departure platform name on any related dated timetable call. Detail_Level: basic.	Siri specific. Would be VEHICLE STOPPING PLACE in IFOPT							X	
24	ArrivalInfo	P	ArrivalBoardingActivity	ArrivalActivity	0..1	Type of alighting allowed at stop. Default is alighting	Siri specific. Default values can be derived for planned journeys							X	
25	ArrivalTimes						Time arrival information on a call.	PASSING TIME					X		
26	ArrivalTimes	P	AimedArrivalTime	dateTime	0..1	see the related item	Aimed arrival time attribute of an TARGET PASSING TIME.	TARGET PASSING TIME		aimed arrival time					
27	ArrivalTimes	P	ActualArrivalTime	dateTime	0..1	Observed time of arrival.	Actual arrival time attribute of an OBSERVED PASSING TIME.	OBSERVED PASSING TIME		actual arrival time					
28	ArrivalTimes	P	ExpectedArrivalTime	dateTime	0..1	Estimated time of arrival.	Expected arrival time attribute of an ESTIMATED PASSING TIME.	ESTIMATED PASSING TIME		expected arrival time					
29	Bearing						Siri specific.							X	
30	BlockCode					Block that vehicle is running		BLOCK	X	id					
31	CallInfo						Various information on the call.	PASSING TIME					X		
32	CallInfo	P	TimingPoint	boolean	0..1	Whether the stop is a timing point, i.e. times are measured at it. In Some systems this is a measure of data quality as non-timing points are interpolated.	Whether the STOP POINT where the call takes place is TIMING POINT IN JOURNEY PATTERN as well.				X				
33	CallInfo	P	BoardingStretch	boolean	0..1	Whether this is a Hail and Ride Stop. Default is false.	Siri specific.							X	
34	CallInfo	P	RequestStop	boolean	0..1	Whether Vehicle stops only if requested explicitly by passenger. Default is false.	Siri specific.							X	
35	CallInfo	P	DestinationDisplay	niString	0..1	not found	Siri specific if this display overrides the default DESTINATION DISPLAY of the JOURNEY PATTERN covered. Extensions to Transmodel for displays changing along a journey pattern.						X		
36	CleardownCode					Identifier associated with Stop Visit for use in direct wireless communication between bus and stop display. Cleardown codes are short arbitrary identifiers suitable for radio transmission. Their scope may be transient, that is they may be unique only to a day and sector.	Siri specific.							X	

#	Class	A	Attribute	Attribute type	UML multiplicity	Siri message documentation	TM correspondence indication; comments	Corresponding TM class	Exact correspondence to TM class	Exact correspondence to TM attribute	SIRI specific - derived from TM (class/attr.)	Additional attribute without contradiction	SIRI extension to semantically equivalent TM class	SIRI specific - new (class/attr.)	SIRI specific - Modified
37	ConnectionLink						Equivalent to CONNECTION LINK.	CONNECTION LINK	X						
38	ConnectionLink	P	ConnectionLinkCode	ConnectionLinkCode	0..1		Siri specific (optional external identifier).	CONNECTION LINK				X			
39	ConnectionLink	P	StopPointRef	StopPointCode	0..1		POINT ID of the distributor STOP POINT of the CONNECTION LINK (the other being the feeder stop where the considered interchange takes place). It is assumed that the orientation of the CONNECTION LINKs is clarified in Siri	STOP POINT			X				
40	ConnectionLink	P	StopPointName	niString	0..1		POINT Name of the distributor STOP POINT of the CONNECTION LINK (the other being the feeder stop where the considered interchange takes place). It is assumed that the orientation of the CONNECTION LINKs is clarified in Siri	POINT		name	X				
41	ConnectionLink	P	DefaultDuration	PositiveDurationType	0..1		Equivalent to the Default duration attribute of CONNECTION LINK.	CONNECTION LINK		default duration					
42	ConnectionLink	P	FrequentTravellerDuration	PositiveDurationType	0..1		Equivalent to the Frequent traveller duration attribute of CONNECTION LINK.	CONNECTION LINK		frequent traveller duration					
43	ConnectionLink	P	OccasionalTravellerDuration	PositiveDurationType	0..1		Equivalent to the Occasional traveller duration attribute of CONNECTION LINK.	CONNECTION LINK		occasional traveller duration					
44	ConnectionLink	P	ImpairedAccessDuration	PositiveDurationType	0..1		Equivalent to the Mobility restricted traveller duration attribute of CONNECTION LINK.	CONNECTION LINK		mobility restricted traveller duration					
45	ConnectionLinkCode					(1) Identifier of connection link whose data participant is allowed to access (ConnectionLinkPermissions) (2) Identifier of the ConnectionLink or ConnectionArea for which data is to be returned. Associated with known feeder arrival and distributor departure stop points (TimetabledFeederArrival) (3) Identifies the Connection Link for which data is to be returned (TimetabledFeederArrivalCancellation)	CONNECTION LINK SIRI specific id	CONNECTION LINK				X			
46	Coordinates						Coordinates of points in a GML compatible format, as indicated by srsName attribute.	LOCATION	X	coordinate 1, 2 3					
47	CourseOfJourneyCode						not found	COURSE OF JOURNEYS	X	id					
48	DataFrameCode						Unique identifier of data frame within participant service. Used to ensure that the DatedVehicleJourneyRef is Unique with the data horizon of the producer. Often the OperationalDayType is used for this purpose	VALIDITY CONDITION	X						

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50	DatedCall					Provides information about a call in a dated vehicle	Equivalent to a TARGET PASSING TIME for STOP POINTs that are TIMING POINTs IN JOURNEY PATTERN. Derived information for other STOP POINTs	DATED PASSING TIME			X				
51	DatedCall	R	StopPointInSequence	StopPointInSequence	1	see the related item	Derived information on the STOP POINT IN JOURNEY PATTERN where the call takes place.	STOP POINT IN JOURNEY PATTERN			X				
52	DatedCall	R	CallInfo	CallInfo	0..1	see the related item	Various information on the call.							X	
53	DatedCall	P	CallNote	ntString	0..1	Text annotation that applies to this call	Siri specific. Default values can be derived from a FOOTNOTE assigned to a POINT IN JOURNEY PATTERN, a JOURNEY PATTERN or a COMMON SECTION.							X	
54	DatedCall	R	FacilityChange	FacilityChange	0..1	see the related item	Siri specific.							X	
55	DatedCall	R	AimedArrivalInfo	AimedArrivalInfo	0..1	see the related item	Various information on the arrival at the call.						X		
56	DatedCall	R	AimedDepartureInfo	AimedDepartureInfo	0..1	see the related item	Various information on the departure from the call.						X		
57	DatedCall	P	AimedHeadwayInterval	PositiveDurationType	0..1	Target interval for frequency based services	Siri specific.							X	
58	DatedCall	P	Extensions	anyType	0..1		Siri specific.							X	
59	DatedTimetableVersionFrame					A version of the timetable to run on a specified date. See DatedTimetableVersionFrame element.	A specialisation of VERSION FRAME, aimed at gathering DATED VEHICLE JOURNEYs sharing the same LINE and the same DIRECTION.	VERSION FRAME					X		
60	DatedTimetableVersionFrame	P	VersionRef	TimetableVersionCode	0..1		Siri specific (optional external identifier).	VERSION FRAME				X			
61	DatedTimetableVersionFrame	P	LineRef	LineCode	1		ID of the LINE object of the concerned VERSION FRAME.	LINE		id					
62	DatedTimetableVersionFrame	P	DirectionRef	DirectionCode	1	see the related item	ID of the DIRECTION object of the concerned VERSION FRAME.	DIRECTION		id					
63	DatedTimetableVersionFrame	R	JourneyPatternInfo	JourneyPatternInfo	0..1	see the related item	JOURNEY PATTERN covered by default (unless overridden) by journeys of the VERSION FRAME.	JOURNEY PATTERN					X		
64	DatedTimetableVersionFrame	R	ServiceInfo	ServiceInfo	0..1	see the related item	Default (unless overridden) information on journeys of the VERSION FRAME.						X		
65	DatedTimetableVersionFrame	R	DatedVehicleJourneyRef	FramedVehicleJourneyRef	0..1	see the related item	Seems inopportune (restricts the frame to only one journey).								X
66	DatedTimetableVersionFrame	P	Extensions	anyType	0..1		Siri specific.							X	
67	DatedTimetableVersionFrame	R	DatedVehicleJourney	DatedVehicleJourney	0..*			DATED VEHICLE JOURNEY					X		
68	DatedTimetableVersionFrame	R	DatedVehicleJourneyInfo	DatedVehicleJourneyInfo	0..1		Default (unless overridden) information on journeys of the VERSION FRAME.	DATED VEHICLE JOURNEY					X		

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69	DatedVehicleJourney						Equivalent to DATED VEHICLE JOURNEY.	DATED VEHICLE JOURNEY					X		
70	DatedVehicleJourney	P	DatedVehicleJourneyCode	DatedVehicleJourneyCode	0..1	see the related item		DATED VEHICLE JOURNEY		id					
71	DatedVehicleJourney	P	VehicleJourneyRef	DatedVehicleJourneyCode	0..1		ID of the parent VEHICLE JOURNEY, if it is a NORMAL DATED VEHICLE JOURNEY.	VEHICLE JOURNEY			X				
72	DatedVehicleJourney	P	ExtraJourney	boolean	0..1	Whether this journey is an addition to the plan Can only be used when both participants recognise the same schedule version. If omitted, defaults to false: the journey is not an addition	Whether it is a NORMAL DATED VEHICLE JOURNEY or not.	DATED VEHICLE JOURNEY			X				
73	DatedVehicleJourney	P	Cancellation	boolean	0..1	Whether this journey is a Cancellation of a journey in the plan. Can only be used when both participants recognise the same schedule version. If omitted, defaults to false: Journey is not a Cancellation	Siri specific (may be derived if a JOURNEY CANCELLATION control action has been specified).	DATED VEHICLE JOURNEY				X			
74	DatedVehicleJourney	R	JourneyPatternInfo	JourneyPatternInfo	0..1	see the related item	JOURNEY PATTERN covered by the journey.	JOURNEY PATTERN					X		
75	DatedVehicleJourney	R	ServiceInfo	ServiceInfo	0..1	see the related item	Various general information on the journey.						X		
76	DatedVehicleJourney	P	VehicleJourneyNote	niString	0..1	not found	Siri specific. Possible default values (see CallNote)	DATED VEHICLE JOURNEY				X			
77	DatedVehicleJourney	P	JourneyNote	niString	0..1	Additional descriptive text associated with journey. Inherited property	Siri specific.	DATED VEHICLE JOURNEY				X			
78	DatedVehicleJourney	P	BlockRef	BlockCode	0..1		DATED BLOCK including the journey.	DATED BLOCK		id	X				
79	DatedVehicleJourney	P	CourseOfJourneyRef	CourseOfJourneyCode	0..1		Dated COURSE OF JOURNEYS including the journey. Dated Courses of journeys are not explicit in Transmodel.	COURSE OF JOURNEYS					X		
80	DatedVehicleJourney	R	DatedCalls	DatedCall	2..*	see the related item	Calls operated by the journey.	DATED PASSING TIME			X				
81	DatedVehicleJourney	R	DatedVehicleJourneyInfo	DatedVehicleJourneyInfo	0..1		Default (unless overridden) information on journeys of the VERSION FRAME.	DATED VEHICLE JOURNEY					X		
82	DatedVehicleJourney	P	Extensions	anyType	0..1									X	
83	DatedVehicleJourneyCode					A reference to the dated vehicle journey that the vehicle is making.		DATED VEHICLE JOURNEY	X	id					
84	DatedVehicleJourneyIndirectRef					If no vehicle journey reference is available, identify it by origin and destination and the scheduled times at these stops					X				
85	DatedVehicleJourneyIndirectRef	P	OriginRef	StopPointCode	1	not found	POINT ID of the first STOP POINT IN JP within the JP covered.	STOP POINT IN JOURNEY PATTERN			X				
86	DatedVehicleJourneyIndirectRef	P	AimedDepartureTime	dateTime	1	not found	Departure time from this first point.	TARGET PASSING TIME		aimed departure time					
87	DatedVehicleJourneyIndirectRef	P	DestinationRef	StopPointCode	1	not found	POINT ID of the last STOP POINT IN JP within the JP covered.	STOP POINT IN JOURNEY PATTERN			X				
88	DatedVehicleJourneyIndirectRef	P	AimedArrivalTime	dateTime	1	not found	Arrival time at this last point.	TARGET PASSING TIME		aimed arrival time	X				

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89	DatedVehicleJourneyInfo						Specific information on a DATED VEHICLE JOURNEY, or possible default values for a schedule.	DATED VEHICLE JOURNEY					X		
90	DatedVehicleJourneyInfo	P	DestinationDisplay	niString	0..1	not found	Text of the DESTINATION DISPLAY for the JOURNEY PATTERN covered by the journey.	DESTINATION DISPLAY		name					
91	DatedVehicleJourneyInfo	P	LineNote	niString	0..1	Message associated with delivery	Siri extension of FOOTNOTE. Transmodel cares with FOOTNOTEs for elements (eg JOURNEY PATTERN), not for a whole LINE.	FOOTNOTE					X		
92	DatedVehicleJourneyInfo	P	HeadwayService	boolean	0..1	Whether this is a Headway Service, that is one shown as operating at a prescribed interval rather than to a fixed timetable.	Siri specific.	DATED VEHICLE JOURNEY				X			
93	DatedVehicleJourneyInfo	P	Monitored	boolean	0..1	not found	Whether it is a MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY			X				
94	DepartureActivity					not found								X	
95	DepartureInfo						Information on departure from a call.							X	
96	DepartureInfo	P	DepartureStatus	ProgressStatus	0..1		Siri specific.							X	
97	DepartureInfo	P	DeparturePlatformName	niString	0..1	Bay or platform name from which vehicle will depart	Siri specific. See IFOPT							X	
98	DepartureInfo	P	DepartureBoardingActivity	DepartureActivity	0..1		Siri specific. Default values can be derived for planned journeys							X	
99	DepartureTimes						Time departure information on a call.				X				
100	DepartureTimes	P	AimedDepartureTime	dateTime	0..1	see the related item	Aimed departure time attribute of an TARGET PASSING TIME.	TARGET PASSING TIME		aimed departure time					
101	DepartureTimes	P	ActualDepartureTimes	dateTime	0..1	not found	Actual departure time attribute of an OBSERVED PASSING TIME.	OBSERVED PASSING TIME		actual departure time		X			
102	DepartureTimes	P	ExpectedDepartureTimes	dateTime	0..1	not found	Expected departure time attribute of an ESTIMATED PASSING TIME.	ESTIMATED PASSING TIME		expected departure time					
103	DestinationCode					(1) Identifies the Direction (TimetabledFeederArrivalCancellation/MonitoredFeederArrivalCancellation) (2) Identifier of Destination of line of notice being deleted (Identifier of Destination of line of notice being deleted)	May be derived from JOURNEY PATTERN description.				X				
104	DirectionCode					Identifier of direction of line that participant is allowed to access(LinePermissions) (2) Filter the results to include only vehicles going to the specified direction (VehicleMonitoringRequest) (3)Identifier of Direction of journey that is being deleted (VehicleActivityCancellation) (4)Filter for the feeder direction, for which data is to be supplied (ConnectionTimetableRequest)		DIRECTION		id					
105	DisruptionInfo						Information on a journey situation.							X	
106	DisruptionInfo	P	SituationRef	SituationCode	0..1	see the related item								X	
107	DisruptionInfo	R	FacilityChange	FacilityChange	0..1	see the related item								X	
108	Distance					not found								X	
109	DurationType					not found								X	

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110	EndPointAddress					Address to which response is to be sent; [Notify] endpoint. If omitted, this may also be determined from RequestorRef and preconfigured data, or the http request								X	
111	EquipmentAvailability					def. not found									
112	EquipmentAvailability	P	Description		0..1	def. not found									
113	EquipmentAvailability	P	EquipmentFeature	EquipmentFeatureCode	*	def. not found									
114	EquipmentAvailability	P	EquipmentRef	EquipmentCode	0..1	def. not found									
115	EquipmentAvailability	P	EquipmentStatus	EquipmentStatus	1	def. not found									
116	EquipmentAvailability	P	EquipmentTypeRef	EquipmentTypeCode	0..1	def. not found									
117	EquipmentAvailability	P	ValidityPeriod	HalfOpenTimestampRange	0..1	def. not found									
118	EquipmentCode					def. not found									
119	EquipmentFeatureCode					def. not found									
120	EquipmentStatus					def. not found									
121	EquipmentTypeCode					def. not found									
122	ErrorDescription													X	
123	EstimatedCall							ESTIMATED PASSING TIME					X		
124	EstimatedCall	R	StopPointInSequence	StopPointInSequence	0..1		Derived information on the STOP POINT IN JOURNEY PATTERN where the call takes place.	STOP POINT IN JOURNEY PATTERN			X				
125	EstimatedCall	P	ExtraCall	boolean	0..1									X	
126	EstimatedCall	P	Cancellation	boolean	0..1									X	
127	EstimatedCall	R	CallInfo	CallInfo	0..1		Various information on the call.							X	
128	EstimatedCall	P	DestinationDisplay	nlString	0..1		Siri specific if this display overrides the default DESTINATION DISPLAY of the JOURNEY PATTERN covered. Extensions to Transmodel for displays changing along a journey pattern.						X		
129	EstimatedCall	P	CallNote	nlString	0..1	Text annotation that applies to this call.	Siri specific.							X	
130	EstimatedCall	R	FacilityChange	FacilityChange	0..1									X	
131	EstimatedCall	R	AimedArrivalTimes	AimedArrivalTimes	0..1			ESTIMATED PASSING TIME		aimed arrival time					
132	EstimatedCall	R	ArrivalInfo	ArrivalInfo	0..1									X	
133	EstimatedCall	R	AimedDepartureTimes	AimedDepartureTimes	0..1			ESTIMATED PASSING TIME		aimed departure time					
134	EstimatedCall	R	DepartureInfo	DepartureInfo	0..1									X	
135	EstimatedCall	R	HeadwayInterval	HeadwayInfo	0..1									X	
136	EstimatedCall	P	Extensions	anyType	0..1									X	

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137	EstimatedJourneyVersionFrame						A use of VERSION FRAME.	VERSION FRAME					X		
138	EstimatedJourneyVersionFrame	P	VersionRef	TimetableVersionCode	0..1		Siri specific (optional external identifier).	VERSION FRAME				X			
139	EstimatedJourneyVersionFrame	P	LineRef	LineCode	1		ID of the LINE object of the concerned VERSION FRAME.	LINE		id					
140	EstimatedJourneyVersionFrame	P	DirectionRef	DirectionCode	1		ID of the DIRECTION object of the concerned VERSION FRAME.	DIRECTION		id					
141	EstimatedJourneyVersionFrame	R	JourneyPatternInfo	JourneyPatternInfo	0..1		JOURNEY PATTERN covered by default (unless overridden) by journeys of the VERSION FRAME.	JOURNEY PATTERN					X		
142	EstimatedJourneyVersionFrame	R	ServiceInfo	ServiceInfo	0..1		Default (unless overridden) information on journeys of the VERSION FRAME.						X		
143	EstimatedJourneyVersionFrame	R	DatedVehicleJourneyRef	FramedVehicleJourneyRef	0..1		Seems inopportune (restricts the frame to only one journey).								X
144	EstimatedJourneyVersionFrame	P	Extensions	anyType	0..1		Siri specific.							X	

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145	EstimatedVehicleJourney							MONITORED VEHICLE JOURNEY					X		
146	EstimatedVehicleJourney	P	LineRef	LineCode	0..1			LINE		id					
147	EstimatedVehicleJourney	P	DirectionRef	DirectionCode	1		DIRECTION of the ROUTE followed by the journey.	DIRECTION		id					
148	EstimatedVehicleJourney	P	DatedVehicleJourneyRef	DatedVehicleJourneyCode	0..1		The DATED VJ to which the MONITORED VJ can be related.				X				
149	EstimatedVehicleJourney	R	DatedVehicleJourneyIndirectRef	DatedVehicleJourneyIndirectRef	0..1		Siri specific additional identifier.					X			
150	EstimatedVehicleJourney	P	EstimatedVehicleJourneyCode	EstimatedVehicleJourneyCode	0..1			MONITORED VEHICLE JOURNEY		id					
151	EstimatedVehicleJourney	P	ExtraJourney	boolean	0..1		Whether it corresponds to a NORMAL DATED VEHICLE JOURNEY or not.				X				
152	EstimatedVehicleJourney	P	Cancellation	boolean	0..1		Siri specific (may be derived if a JOURNEY CANCELLATION control action has been specified).							X	
153	EstimatedVehicleJourney	R	JourneyPatternInfo	JourneyPatternInfo	0..1		JOURNEY PATTERN covered by the journey.	JOURNEY PATTERN					X		
154	EstimatedVehicleJourney	R	ServiceInfo	ServiceInfo	0..1		Various general information on the journey.						X		
155	EstimatedVehicleJourney	P	VehicleJourneyName	niString	0..1			MONITORED VEHICLE JOURNEY				X			
156	EstimatedVehicleJourney	P	JourneyNote	niString	0..1		Siri specific.	MONITORED VEHICLE JOURNEY				X			
157	EstimatedVehicleJourney	P	HeadwayService	boolean	0..1									X	
158	EstimatedVehicleJourney	R	DisruptionInfo	DisruptionInfo	0..1									X	
159	EstimatedVehicleJourney	P	Monitored	boolean	0..1		Whether it is a MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY			X				
160	EstimatedVehicleJourney	P	PredictionInaccurate	boolean	0..1									X	
161	EstimatedVehicleJourney	P	Occupancy	Occupancy	0..1									X	
162	EstimatedVehicleJourney	R	OperationalInfo	OperationalInfo	0..1		Various operational information on the journey.				X				
163	EstimatedVehicleJourney	R	EstimatedCalls	EstimatedCall	2..*			ESTIMATED PASSING TIME					X		
164	EstimatedVehicleJourney	P	IsCompleteStopSequence	boolean	0..1									X	
165	EstimatedVehicleJourney	P	Extensions	anyType	0..1									X	
166	EstimatedVehicleJourneyCode							MONITORED VEHICLE JOURNEY		id					

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167	FacilityChange					Information about a change of Equipment availability at stop that may affect access or use.								X	
168	FacilityChange	R	EquipmentAvailability	EquipmentAvailability	0..1	see the related item								X	
169	FacilityChange	R	MobilityDisruption	MobilityDisruption		see the related item								X	
170	FacilityChange	P	SituationRef	SituationCode	0..1	see the related item								X	
171	FramedVehicleJourneyRef					The FramedVehicleJourneyRef identifies a DatedVehicleJourney within the data horizon of the referencing system. In practice the OperationalDayType may be used as a unique qualifier of the Data Frame.	Information on a DATED VEHICLE JOURNEY associated with a MONITORED VEHICLE JOURNEY.	DATED VEHICLE JOURNEY					X		
172	FramedVehicleJourneyRef	P	DataFrameRef	DataFrameCode	1	see the related item	A use of VALIDITY CONDITION, e.g. a DAY TYPE or other properties, used to specify the VERSION FRAME.	VALIDITY CONDITION		id					
173	FramedVehicleJourneyRef	P	DatedVehicleJourneyRef	DatedVehicleJourneyCode	1	see the related item	ID of the DATED VEHICLE JOURNEY.	DATED VEHICLE JOURNEY		id					
174	HalfOpenTimestampRange					Siri complex data type (StartTime[1], EndTime[0..1])								X	
175	HeadwayInfo						Quality parameter on intervals.							X	
176	HeadwayInfo	P	AimedHeadwayInterval	PositiveDurationType	0..1	Target interval for frequency based services.	Siri specific.							X	
177	HeadwayInfo	P	ExpectedHeadwayInterval	PositiveDurationType	0..1	Estimated interval for frequency based service	Siri specific.							X	
178	IdentifiedItemCode						Siri specific.							X	
179	InfoChannelCode						Siri specific.							X	
180	InfoMessageIdentifier						Siri specific.							X	
181	InfoMessageVersion						Siri specific.							X	
182	InterchangeCode					Identifies the Interchange between two journeys for which data is being returned	Siri specific identifier of a SERVICE JOURNEY INTERCHANGE extended to a dated interchange.	SERVICE JOURNEY INTERCHANGE					X		

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183	InterchangeJourney					(1) Information about a feeder journey that arrives at a connection link.(2) The FeederJourney element is an instance of the InterchangeJourney structure that can be populated with information about the Feeder Journey.(3) Planned interchange from a feeder vehicle journey at a ConnectionLink	SERVICE JOURNEY arriving at a CONNECTION LINK and associated information (extended to a dated interchange).	SERVICE JOURNEY					X		
184	InterchangeJourney	P	LineRef	LineCode	1	Identifier for the line	Information on the SERVICE JOURNEY arriving at the CONNECTION LINK.	LINE		id					
185	InterchangeJourney	P	DirectionRef	DirectionCode	1	Identifier of the relative direction the vehicle is running along the line, for example, "in" or "out", "clockwise". Distinct from a destination	Information on the SERVICE JOURNEY arriving at the CONNECTION LINK.	DIRECTION		id					
186	InterchangeJourney	R	FramedVehicleJourneyRef	FramedVehicleJourneyRef	0..1	A reference to the dated vehicle journey that the vehicle is making, unique within data horizon of producer.	Information on a DATED VEHICLE JOURNEY associated with the concerned journey.	DATED VEHICLE JOURNEY			X				
187	InterchangeJourney	R	JourneyPatternInfo	JourneyPatternInfo	0..1	see the related item	JOURNEY PATTERN and associated information.	JOURNEY PATTERN					X		
188	InterchangeJourney	R	VehicleJourneyInfo	VehicleJourneyInfo	0..1	see the related item	Various information on a journey.	SERVICE JOURNEY					X		
189	InterchangeJourney	R	DisruptionInfo	DisruptionInfo	0..1		Information on journey situation.							X	
190	InterchangeJourney	R	OperationalInfo	OperationalInfo	0..1		Information on the vehicle running the SERVICE JOURNEY arriving at the CONNECTION LINK.				X				
191	InterchangeJourney	P	Monitored	boolean	0..1	flag indicating whether there is real-time information available for journey, if not present, not known.	Whether it is a MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY			X				
192	InterchangeJourney	P	AimedDepartureTime	dateTime	0..1	(should be AimedArrivalTime) Existing definition: Additional descriptive text associated with journey.To be modified.	Aimed arrival time of the SERVICE JOURNEY arriving at the CONNECTION LINK.	TARGET PASSING TIME		aimed arrival time					
193	InterchangeJourney	P	Extensions	anyType	0..1									X	
194	JourneyPatternCode							JOURNEY PATTERN		id					

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195	JourneyPatternInfo						JOURNEY PATTERN and associated information.	JOURNEY PATTERN					X		
196	JourneyPatternInfo	P	JourneyPatternRef	JourneyPatternCode	0..1		Siri specific (optional external identifier).	JOURNEY PATTERN		id		X			
197	JourneyPatternInfo	P	VehicleMode	VehicleMode	0..1		No assignment of a TRANSPORT MODE to a JP in Transmodel.	TRANSPORT MODE		name			X		
198	JourneyPatternInfo	P	RouteRef	RouteCode	0..1		ROUTE served by the JOURNEY PATTERN.	ROUTE		id					
199	JourneyPatternInfo	P	PublishedLineName	nString	0..1	Name or Number by which the line is known to the public	Public Name of the JOURNEY PATTERN. The JP name is the published name.	JOURNEY PATTERN		name					
200	JourneyPatternInfo	P	DirectionName	nString	0..1	Name of the relative direction the vehicle is running along the line, for example, "inbound" or "outbound"	DIRECTION of the ROUTE served by the JOURNEY PATTERN.	DIRECTION		name					
201	JourneyPatternInfo	P	ExternalLineRef	LineCode	0..1		ID of the LINE including the JOURNEY PATTERN.	LINE		id					
202	JourneyPlaceCode					The identifier of the origin of the journey; used to help identify the vehicle journey on arrival boards.	Name of a POINT where a STOP POINT (eg origin) is located.	POINT		name			X		
203	Latitude					Latitude from equator. -90° (South) to +90° (North). Decimal degrees. e.g. 56.356		LOCATION					X		
204	LineCode					Identifier for the line		LINE		id					
205	Location					Siri complex data type		LOCATION					X		
206	Location	R	Coordinates		0..1	see the related item	Alternative to latitude & longitude.	LOCATION		coordinate n					
207	Location	P	id		0..1	identifier	ID of the located point. Arbitrary ID.	POINT		id					
208	Location	R	Latitude		0..1	see the related item		LOCATION					X		
209	Location	R	Longitude		0..1	see the related item		LOCATION					X		
210	Location	R	Precision		0..1	see the related item	Siri specific.							X	
211	Location	P	srsName		0..1	Precision for point measurement. In meters.								X	
212	Longitude					Longitude from Greenwich Meridian. 180° (East) to +180° (West). Decimal degrees. e.g. 2.356		LOCATION					X		
213	MessageQualifier					Arbitrary identifier that may be given to message								X	
214	MobilityDisruption					not found								X	
215	MobilityDisruption	P	MobilityFacility	MobilityFacility	0..1	see the related item								X	
216	MobilityDisruption	P	MobilityImpairedAccess		0..1	see the related item								X	
217	MobilityFacility					Siri simple data type								X	
218	MonitoredCall					Information about a call at stop	A MONITORING OPERATION describing an OBSERVED PASSING TIME in progress.	OBSERVED PASSING TIME					X		
219	MonitoredCall	P	VehicleAtStop	boolean	0..1	not found	Siri specific.							X	
220	MonitoredCall	R	VehicleLocationAtStop	Location	0..1	see the related item	Location of a vehicle detecting, at the stop.	VEHICLE DETECTING			X				
221	MonitoredCall	P	ReversesAtStop	boolean	0..1	Whether vehicle reverses at stop. Default is false.	Siri specific.							X	
222	MonitoredCall	P	PlatformTraversal	boolean	0..1	not found	Siri specific.							X	
223	MonitoredCall	P	SignalStatus	NMTOKENS	0..1	not found	Siri specific.							X	
224	MonitoredCall	P	CallNote	nString	0..1	Text annotation that applies to this call.	Siri specific. See Dated Call/CallNote.							X	
225	MonitoredCall	R	Disruption	DisruptionInfo	0..1	see the related item	Information on a journey situation.							X	
226	MonitoredCall	R	ArrivalTimes	ArrivalTimes	1	see the related item		DATED PASSING TIME		expected arrival time + aimed arrival time + actual arrival time					
227	MonitoredCall	R	ArrivalInfo	ArrivalInfo	0..1	see the related item								X	
228	MonitoredCall	R	DepartureTimes	DepartureTimes	1	see the related item		DATED PASSING TIME		expected departure time + aimed departure time + actual departure time					
229	MonitoredCall	R	DepartureInfo	DepartureInfo	0..1	see the related item								X	
230	MonitoredCall	R	HeadwayInfo	HeadwayInfo	0..1	see the related item								X	

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231	MonitoredJourneyIdentity						Various information on a MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY					X		
232	MonitoredJourneyIdentity	P	LineRef	LineCode	0..1	see the related item	LINE of the covered ROUTE.	LINE		id					
233	MonitoredJourneyIdentity	P	DirectionRef	DirectionCode	0..1	see the related item	DIRECTION of the ROUTE followed by the journey.	DIRECTION		id					
234	MonitoredJourneyIdentity	R	FramedVehicleJourneyRef	FramedVehicleJourneyRef	1	see the related item	Refers to a DATED VEHICLE JOURNEY associated with a MONITORED VEHICLE JOURNEY. This Siri relationship should be optional.				X				
235	MonitoredVehicleJourney					Provides real-time information about the vehicle journey along which a vehicle is running	Equivalent to MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY					X		
236	MonitoredVehicleJourney	R	MonitoredVehicleJourneyIdentity	MonitoredJourneyIdentity	1	see the related item	Various information on the MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY		id					
237	MonitoredVehicleJourney	R	JourneyPatternInfo	JourneyPatternInfo	1	see the related item	Information on the JOURNEY PATTERN covered by the monitored journey (possibly different from the dated journey).	JOURNEY PATTERN					X		
238	MonitoredVehicleJourney	R	VehicleJourneyInfo	VehicleJourneyInfo	1	see the related item	Various information on a journey.	VEHICLE JOURNEY					X		
239	MonitoredVehicleJourney	R	DisruptionInfo	DisruptionInfo	0..1	see the related item	Siri specific.							X	
240	MonitoredVehicleJourney	R	JourneyProgress	ProgressInfo	0..1	see the related item	Information on the monitored journey.							X	
241	MonitoredVehicleJourney	R	TrainBlockPart	TrainBlockPart	0..1	see the related item	Information on the TRAIN BLOCK PART the journey is part of. Probably more a dated TRAIN BLOCK PART, not explicit in Transmodel	TRAIN BLOCK PART					X		
242	MonitoredVehicleJourney	R	OperationalInfo	OperationalInfo	0..1	see the related item	Various operational information on the journey.				X				
243	MonitoredVehicleJourney	R	PreviousCall	PreviousCall	*	see the related item	Information on previous calls.				X				
244	MonitoredVehicleJourney	R	MonitoredCall	MonitoredCall	0..1	see the related item	Information on the currently monitored call.				X				
245	MonitoredVehicleJourney	R	OnwardCall	OnwardCall	*	see the related item	Information on onward calls.				X				
246	MonitoredVehicleJourney	P	IsCompleteCallSequence	boolean	0..1	not found	Siri specific.							X	
247	MonitoringCode					= VehicleMonitoringCode ? Identifier of vehicle monitoring reference whose data participant is allowed to access								X	
248	niString													X	
249	Occupancy					How full vehicle is. Enumeration. If omitted, not known.								X	
250	OnwardCall					Information on a call at a stop after the current call.	Similar to ESTIMATED (or TARGET) PASSING TIME.	DATED PASSING TIME					X		
251	OnwardCall	P	VehicleAtStop	boolean	0..1	Whether Vehicle is at stop. If absent unknown	Seems useless.								
252	OnwardCall	P	TimingPoint	boolean	0..1	Whether the stop is a timing point, i.e. times are measured at it. In Some systems this is a measure of data quality as non-timing points are interpolated.	Whether the STOP POINT where the call takes place is TIMING POINT IN JOURNEY PATTERN as well. Can be derived from the covered JOURNEY PATTERN description.				X				
253	OnwardCall	R	AimedArrivalTimes	AimedArrivalTimes	0..1	see the related item	Time arrival information on an onward call.	DATED PASSING TIME		aimed arrival time + expected arrival time					
254	OnwardCall	R	ArrivalInfo	ArrivalInfo	0..1	see the related item	Information on arrival at an onward call.							X	
255	OnwardCall	R	AimedDepartureTimes	AimedDepartureTimes	0..1	see the related item	Time departure information on an onward call.	DATED PASSING TIME		aimed departure time + expected departure time					
256	OnwardCall	R	DepartureInfo	DepartureInfo	0..1	see the related item	Information on departure from an onward call.							X	
257	OnwardCall	R	HeadwayInfo	HeadwayInfo	0..1	see the related item	Quality parameter on intervals.							X	

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258	OperationalInfo						Various operational information on a journey.				X				
259	OperationalInfo	P	BlockRef	BlockCode	0..1	see the related item	ID of the DATED BLOCK the journey is part of.	DATED BLOCK		id	X				
260	OperationalInfo	P	CourseOfJourneyRef	CourseOfJourneyCode	0..1	see the related item	Dated COURSE OF JOURNEYS including the journey. Dated courses of journeys are not explicit in Transmodel.	COURSE OF JOURNEYS					X		
261	OperationalInfo	P	VehicleRef	VehicleCode	0..1	see the related item	ID of the VEHICLE. Including complete TRAINs.	VEHICLE		id	X				
262	OperatorCode					(1) Identifier of operator whose data participant is allowed to access (OperatorPermissions) (2) Operator of Journey (ServiceInfoGroup)		OPERATOR				X			
263	ParticipantCode					(1) Identifies the Producer or Service whose status is being checked. (2) Participant reference that identifies producer of data. May be available from context.								X	
264	PositiveDurationType					Siri simple data type								X	
265	PreviousCall					Information on a stop called at previously	Similar to OBSERVED PASSING TIME.	OBSERVED PASSING TIME					X		
266	PreviousCall	P	VehicleAtStop	boolean	0..1	Whether vehicle is at stop at the current time.	Seems useless.								
267	ProductCategoryCode					Product Category of journey – subdivides a transport mode. E.g. express, local	Similar to TYPE OF SERVICE. Marketing classification.	TYPE OF SERVICE					X		
268	ProgressInfo						Information on a monitored journey.	MONITORED VEHICLE JOURNEY					X		
269	ProgressInfo	P	Monitored	boolean	0..1		Whether it is a MONITORED VEHICLE JOURNEY.	MONITORED VEHICLE JOURNEY			X				
270	ProgressInfo	P	MonitoringError	NMTOKEN	0..1		Siri specific.							X	
271	ProgressInfo	P	InCongestion	boolean	0..1	Whether the vehicle is in congestion. If not, present, not known	Siri specific.							X	
272	ProgressInfo	P	InPanic	boolean	0..1	Whether the vehicle alarm is on. Likely to indicate unpredictable progress. If not, present, false.	Siri specific.							X	
273	ProgressInfo	P	PredictionInaccurate	boolean	0..1	Whether the vehicle is in congestion. If not, present, not known. Inheritable	Siri specific.							X	
274	ProgressInfo	P	DataSource	string	0..1	not found		DATA SYSTEM	X						
275	ProgressInfo	P	ConfidenceLevel	boolean	0..1	A confidence level associated with data.	Siri specific.							X	
276	ProgressInfo	R	VehicleLocation	Location	0..1	see the related item	Location of a vehicle detecting.	VEHICLE DETECTING			X				
277	ProgressInfo	P	Bearing	Bearing	0..1	Bearing in degrees in which vehicle is heading.	Siri specific.							X	
278	ProgressInfo	P	ProgressRate	ProgressRate	0..1	see the related item	Siri specific.							X	
279	ProgressInfo	R	Occupancy	Occupancy	0..1	see the related item	Siri specific.							X	
280	ProgressInfo	P	Delay	DurationType	0..1	see the related item	Can be derived from target and observed times.				X				
281	ProgressInfo	P	ProgressStatus	nString	0..1	A non-displayable status describing the running of this vehicle.	Siri specific.							X	
282	ProgressRate					Classification of the rate of progress of vehicle.								X	
283	ProgressStatus					A non-displayable status describing the running of this vehicle.								X	
284	RouteCode					not found		ROUTE		id					
285	ServiceFeatureCode					Classification of service into arbitrary Service Features, e.g. school bus	Details on TYPE OF SERVICE. See also ProductCategoryRef	TYPE OF SERVICE					X		

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286	ServiceInfo						Various information on a VEHICLE JOURNEY.	VEHICLE JOURNEY					X		
287	ServiceInfo	P	OperatorRef	OperatorCode	0..1	see the related item	OPERATOR of which an ORGANISATIONAL UNIT operates the covered JOURNEY PATTERN.	OPERATOR			X				
288	ServiceInfo	P	ProductCategoryRef	ProductCategoryCode	0..1		Similar to TYPE OF SERVICE. Marketing classification.	TYPE OF SERVICE					X		
289	ServiceInfo	P	ServiceFeatureRef	ServiceFeatureCode	*		Siri specific. Details on TYPE OF SERVICE.							X	
290	ServiceInfo	P	VehicleFeatureRef	VehicleFeatureCode	*		Instances of ACTUAL VEHICLE EQUIPMENT on the VEHICLE operating the journey.	ACTUAL VEHICLE EQUIPMENT					X		
291	SituationCode					Reference to a Situation associated with the element								X	
292	StopPointCode					Identifier of stop	Siri specific ID of the STOP POINT.	STOP POINT				X			
293	StopPointInSequence						Various information related to the STOP POINT IN JOURNEY PATTERN where the call takes place.	STOP POINT IN JOURNEY PATTERN					X		
294	StopPointInSequence	P	StopPointRef	StopPointCode	1		POINT ID of the STOP POINT that is STOP POINT IN JOURNEY PATTERN.	STOP POINT IN JOURNEY PATTERN			X				
295	StopPointInSequence	P	VisitNumber	VisitNumber	0..1		Siri specific if the numbers are not consecutive. Consecutive visit numbers can be derived from the Order of the POINT IN JOURNEY PATTERN							X	
296	StopPointInSequence	P	Order	positiveInteger	0..1		Order of the STOP POINT IN JOURNEY PATTERN.	STOP POINT IN JOURNEY PATTERN		order					
297	StopPointInSequence	P	StopPointName	nlString	0..1	Name of Stop	POINT Name of the STOP POINT that is STOP POINT IN JOURNEY PATTERN.	POINT		name	X				
298	SubscriptionCode													X	
299	SubscriptionFilterCode													X	
300	TargetedCall							TARGET PASSING TIME					X		
301	TargetedCall	P	StopPointRef	StopPointCode	0..1		POINT ID of the STOP POINT where the call takes place.	STOP POINT			X				
302	TargetedCall	P	VisitNumber	VisitNumber	1		Siri specific if the numbers are not consecutive. Consecutive visit numbers can be derived from the Order of the POINT IN JOURNEY PATTERN							X	
303	TargetedCall	P	Order	positiveInteger	0..1			STOP POINT IN JOURNEY PATTERN		order					
304	TargetedCall	P	TimingPoint	boolean	1		Whether the STOP POINT where the call takes place is TIMING POINT IN JOURNEY PATTERN as well.				X				
305	TargetedCall	R	ServiceInfo	ServiceInfo	1		Various general information on the journey.						X		
306	TargetedCall	R	AimedArrivalInfo	AimedArrivalInfo	0..1								X		
307	TargetedCall	R	AimedDepartureInfo	AimedDepartureInfo	1								X		
308	TargetedCall	P	AimedHeadwayInterval	PositiveDurationType	1									X	

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309	TargetedInterchange					(1) Each TargetedInterchange describes the connections that may be made at a stop to another onwards distributor journey (2) Information on any planned connections. If omitted: No connections	Similar to SERVICE JOURNEY INTERCHANGE, extended to a dated interchange.	SERVICE JOURNEY INTERCHANGE					X		
310	TargetedInterchange	P	InterchangeCode	InterchangeCode	0..1	Identifier of Journey Interchange.	Siri specific (optional external identifier) identifier of the SERVICE JOURNEY INTERCHANGE for a STOP POINT and a call.	SERVICE JOURNEY INTERCHANGE				X			
311	TargetedInterchange	P	DistributorVehicleJourneyRef	DatedVehicleJourneyCode	1	Identifies the distributor dated vehicle journey	ID of the distributor SERVICE JOURNEY.	SERVICE JOURNEY		id					
312	TargetedInterchange	P	DistributorConnectionLinkRef	ConnectionLinkCode	0..1	Identifier of connection Link	Probably CONNECTION LINK related to a particular STOP POINT. To be clarified.	probably CONNECTION LINK				X			
313	TargetedInterchange	R	DistributorConnectionLink	ConnectionLink	0..1	ConnectionLink over which interchange takes place.	Probably CONNECTION LINK related to a particular STOP POINT. To be clarified.	probably CONNECTION LINK				X			
314	TargetedInterchange	P	DistributorVisitNumber	VisitNumber	0..1	Sequence of visit to stop within distributor vehicle journey. Increases monotonically, but not necessarily sequentially	Siri specific. Consecutive numbers can be derived if the data on the distributor journey is available.							X	
315	TargetedInterchange	P	DistributorOrder	positiveInteger	0..1	not found	Siri specific. Can be derived if the data on the distributor journey is available.				X				
316	TargetedInterchange	P	StaySeated	boolean	0..1	Whether Vehicle stops only if requested explicitly by passenger. Default is false	Siri specific. Such a possibility is not viewed as an interchange in Transmodel.							X	
317	TargetedInterchange	P	Guaranteed	boolean	0..1	Whether the interchange is guaranteed. Default is false; interchange is not guaranteed	Equivalent to the Guaranteed attribute of SERVICE JOURNEY INTERCHANGE.	SERVICE JOURNEY INTERCHANGE		guaranteed					
318	TargetedInterchange	P	Advertised	boolean	0..1	Whether the interchange is advertised as a connection. Default is false.	Equivalent to the Advertised attribute of SERVICE JOURNEY INTERCHANGE.	SERVICE JOURNEY INTERCHANGE		advertised					
319	TargetedInterchange	P	MaximumWaitTime	PositiveDurationType	0..1		Siri specific. A default value can be obtained through the Maximum duration attribute of DEFAULT INTERCHANGE.				X				
320	TargetedInterchange	P	Extensions	anyType	0..1		Siri specific.							X	
321	TargetedVehicleJourney							MONITORED VEHICLE JOURNEY					X		
322	TargetedVehicleJourney	R	VehicleJourneyIdentity	VehicleJourneyIdentity	1			MONITORED VEHICLE JOURNEY		id					
323	TargetedVehicleJourney	R	JourneyPatternInfo	JourneyPatternInfo	*			JOURNEY PATTERN					X		
324	TargetedVehicleJourney	P	MonitoringRef	MonitoringCode	1									X	
325	TimetabledFeederArrival					Planned arrival of a feeder vehicle journey at a connection Link	Various information related to a SERVICE JOURNEY arriving at a CONNECTION LINK.				X				
326	TimetabledFeederArrival	P	InterchangeRef	InterchangeCode	0..1	see the related item	Siri specific ID of the SERVICE JOURNEY INTERCHANGE.	SERVICE JOURNEY INTERCHANGE				X			
327	TimetabledFeederArrival	P	ConnectionLinkRef	ConnectionLinkCode	0..1	see the related item	Siri specific ID of the CONNECTION LINK for which information is being delivered.	CONNECTION LINK				X			
328	TimetabledFeederArrival	R	StopPointInSequence	StopPointInSequence	0..1	see the related item	Derived information on the STOP POINT IN JOURNEY PATTERN where the feeder SERVICE JOURNEY arrives.	STOP POINT IN JOURNEY PATTERN			X				
329	TimetabledFeederArrival	R	FeederJourney	InterchangeJourney	1	see the related item	Information about the feeder SERVICE JOURNEY arriving at the CONNECTION LINK answering the user parameters as given in the request.	SERVICE JOURNEY			X				
330	TimetabledFeederArrival	P	AimedArrivalTime	dateTime	1	see the related item	Aimed arrival time of TARGET PASSING TIME of the feeder SERVICE VEHICLE JOURNEY.	TARGET PASSING TIME		aimed arrival time					
331	TimetabledFeederArrival	P	Extensions	anyType	0..1									X	

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332	TimetabledFeederArrivalCancellation					Cancellation of previous connection. Each TimetabledFeederArrivalCancellation describes the cancellation of a planned feeder connection. The text elements (line, direction) are for informative purposes only for the dispatcher, as the vehicle journey is uniquely referenced via the FeederVehicleJourneyRef.	Various information on a cancelled SERVICE JOURNEY initially planned to be a candidate to ensure an interchange.	SERVICE JOURNEY					X		
333	TimetabledFeederArrivalCancellation	P	InterchangeRef	InterchangeCode	0..1	see the related item	Siri specific Id of the SERVICE JOURNEY INTERCHANGE.	SERVICE JOURNEY INTERCHANGE				X			
334	TimetabledFeederArrivalCancellation	P	ConnectionLineRef	ConnectionLinkCode	0..1	see the related item	Siri specific Id of the CONNECTION LINK for which information is being delivered.	CONNECTION LINK				X			
335	TimetabledFeederArrivalCancellation	R	StopPointInSequence	StopPointInSequence	0..1	see the related item	Derived information on the STOP POINT IN JOURNEY PATTERN where the feeder SERVICE VEHICLE JOURNEY should arrive.	STOP POINT IN JOURNEY PATTERN			X				
336	TimetabledFeederArrivalCancellation	P	LineRef	LineCode	1	see the related item	Id of the LINE related to the ROUTE of the feeder SERVICE JOURNEY.	LINE		id					
337	TimetabledFeederArrivalCancellation	P	DirectionRef	DirectionCode	1	see the related item	Siri specific code for the direction of the feeder SERVICE JOURNEY. May be derived from DIRECTION of the ROUTE related to the feeder SERVICE JOURNEY if such information available.	DIRECTION		id					
338	TimetabledFeederArrivalCancellation	R	VehicleJourneyRef	FramedVehicleJourneyRef	1	see the related item	Information on a DATED VEHICLE JOURNEY associated with the considered data frame	VEHICLE JOURNEY			X				
339	TimetabledFeederArrivalCancellation	R	JourneyPatternInfo	JourneyPatternInfo	0..1	see the related item	Information on the JOURNEY PATTERN along which the feeder SERVICE VEHICLE JOURNEY is running.	JOURNEY PATTERN					X		
340	TimetabledFeederArrivalCancellation	P	Reason	nlString	0..1	Reason for cancellation	Siri specific.					X			
341	TimetabledFeederArrivalCancellation	P	Extensions	anyType	0..1									X	
342	TimetableVersionCode							TIMETABLE VERSION		name					
343	TrainBlockPart					Train block part that the vehicle represents	Similar to TRAIN BLOCK PART, although dated TRAIN BLOCK PARTs are not explicit in Transmodel.	TRAIN BLOCK PART					X		
344	TrainBlockPart	P	NumberOfBlockParts	positiveInteger	0..1	Total number of block parts making up the train of which this is part	Can be derived from TRAIN composition.				X				
345	TrainBlockPart	P	TrainPartRef	TrainPartCode	0..1	see the related item	ID of the train part.	TRAIN BLOCK		id					
346	TrainBlockPart	P	PositionOftrainBlockPart	nlString	0..1		Siri specific (as it is a textual information).							X	
347	TrainPartCode					Identifier of train block part		TRAIN BLOCK		id					
348	VehicleCode					not found		VEHICLE		id					
349	VehicleFeatureCode					Feature of Vehicle. E.g. Wheelchair access		ACTUAL VEHICLE EQUIPMENT					X		
350	VehicleJourneyIdentity							VEHICLE JOURNEY					X		
351	VehicleJourneyIdentity	P	LineRef	LineCode	1	see the related item	LINE containing the ROUTE covered by the JP of the journey.	LINE		id					
352	VehicleJourneyIdentity	P	DirectionRef	DirectionCode	1	see the related item	DIRECTION of the ROUTE followed by the journey.	DIRECTION		id					
353	VehicleJourneyIdentity	R	FramedVehicleJourneyRef	FramedVehicleJourneyRef	0..1	see the related item	Information on a DATED VEHICLE JOURNEY associated with the concerned journey.				X				

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354	VehicleJourneyInfo						Various information on a journey. Monitored or interchange journey.	VEHICLE JOURNEY					X		
355	VehicleJourneyInfo	R	ServiceInfo	ServiceInfo	0..1	see the related item	Various information on a journey.						X		
356	VehicleJourneyInfo	P	OriginRef	JourneyPlaceCode	0..1	The identifier of the origin of the journey; used to help identify the vehicle journey on arrival boards.	POINT ID of the origin STOP POINT in JP.	STOP POINT IN JOURNEY PATTERN			X				
357	VehicleJourneyInfo	P	OriginName	nString	0..1	The name of the origin of the journey; used to help identify the vehicle to the public	Name of the origin STOP POINT (Name is attribute of POINT).				X				
358	VehicleJourneyInfo	P	OriginShortName	nString	0..1	The short name of the origin of the journey; used to help identify the vehicle to the public	Siri specific (short name of the origin STOP POINT).							X	
359	VehicleJourneyInfo	P	DestinationAimedDepartureTime	dateTime	0..1	not found. maybe DestinationAimedArrivalTime??	Derived from the times assigned to the journey.				X				
360	VehicleJourneyInfo	P	DestinationName	nString	0..1	The name of the destination of the journey; used to help identify the vehicle to the public	Name of the destination STOP POINT.				X				
361	VehicleJourneyInfo	P	DestinationRef	DestinationCode	0..1	see the related item	POINT ID of the destination STOP POINT in JP.	STOP POINT IN JOURNEY PATTERN			X				
362	VehicleJourneyInfo	P	DestinationShortName	nString	0..1	The name of the destination of the journey; used to help identify the vehicle to the public	Siri specific (short name of the destination STOP POINT).							X	
363	VehicleJourneyInfo	P	HeadwayService	boolean	0..1	Whether this is a Headway Service, that is one shown as operating at a prescribed interval rather than to a fixed timetable.	Siri specific.							X	
364	VehicleJourneyInfo	P	JourneyNote	nString	0..1	Additional descriptive text associated with journey.	Siri specific.	VEHICLE JOURNEY				X			
365	VehicleJourneyInfo	P	OriginAimedDepartureTime	dateTime	0..1	Timetabled Departure Time from Origin	Should be "Target" departure time from the origin.				X				
366	VehicleJourneyInfo	P	VehicleJourneyNote	nString	0..1	not found	Siri specific. Possible default values (see CallNote).	VEHICLE JOURNEY				X			
367	VehicleJourneyInfo	P	Via	nString	*	not found	Siri specific. ROUTE POINTs or other POINTs.							X	
368	VehicleMode					A method of transportation such as bus, rail, etc		TRANSPORT MODE	X	name					
369	VersionString							VERSION	X			X			
370	VisitNumber					Order of visit to a stop within a journey pattern	Siri specific. Consecutive numbers can be derived if the data on the distributor journey is available.							X	