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Technical document

B.15 – European Passenger Information Railway Station Accessibility Profile

In the Document History table, version are identified as x.n where
"x" is a correlative number assigned to an approved version when reaching a main milestones
"n" is a correlative number assigned to draft versions, starting by 1. "n"=0 means version approved
Information related to previous draft versions (i.e. 0.1, 0.2 etc.) shall be deleted from the table when a subsequent approved version is issued.
Document History

Version	Date	Comments
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Application:

With effect from 10 January 2020.

All actors of the European Union falling under the provisions of the TAP TSI.

Table 1: Abbreviations

ABBREVIATION	FULL TEXT
CEN	European Committee for Standardisation
CENELEC	European Committee for Electrotechnical Standardisation
CER	The Community of European Railway and infrastructure companies
EC	European Commission
EEA	European Economic Area
EEC	European Economic Community
EIM	European Rail Infrastructure Managers
EN	European standard
ERA	European Union Agency for Railways also called "the Agency"
ERTMS	European Rail Traffic Management System
ESO	European Standardisation Organisation
EU	European Union
IC	Interoperability Constituent
IEC	International Electrotechnical Commission
IM	Infrastructure Manager
INF	Infrastructure
ISO	International Organisation for Standardisation
MS	EU or EEA Member State
NSA	National Safety Authority
PRM	Person with Disabilities or Person with Reduced Mobility
RFU	Recommendation for Use
RINF	Register of Infrastructure
RISC	Railway Interoperability and Safety Committee
RS	Rolling Stock
RU	Railway Undertaking
SC	Standard Committee
SS	Subsystem

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ABBREVIATION	FULL TEXT
TC	Technical Committee
TR	Technical Report
TS	Technical Specification
TSI	Technical Specification for Interoperability
UIC	International Union of Railways (Union Internationale des Chemins de Fer)
UITP	International Association of Public Transport (Union Internationale des Transports Publics)
UNIFE	Union of the European Railway Industries (Union des Industries Ferroviaires Européennes)
WG	Working Group
WP	Working Party

1. Technical Document summary

1.1. Purpose of the Technical Document

This Technical Document sets implementation guides for messages according to the standard CEN/TS 16614-1:2020 (NeTEx) used for the exchange of accessibility data for railway stations by the railway community in the passenger sector.

1.2. Scenario

This part describes all scenarios in which the messages presented in this Technical Document may be used.

1.2.1. Data provision

According to the 4.2.6.2. of the TAP TSI the entity in charge of collecting accessibility data or the station manager publishes information on the accessibility of rail services. The publication of the data must follow the structures as defined in chapter 2.2. The data shall be provided as file to railway undertakings, to the Agency, to third parties and to public bodies, containing all necessary items, as described in standard CEN/TS 16614-1:2020 (NeTEx).

1.2.2. Data usage

The data shall be used by railway undertakings, ticket vendors or tour operators to inform their customers about the accessibility of their services according to addressed as well in the Article 22 Information to persons with disabilities and persons with reduced mobility of the REGULATION (EU) 2021/782. According to chapter 4.2.6.1. of the TAP TSI the railway undertaking publishes information on the accessibility of rail services and on the conditions of access to rolling stock of the TAP TSI to provide at least the information about the conditions of access to the station building and platforms, including whether the station is classified as accessible for PRMs and whether is staffed for PRM support.

2. Technical Document body

2.1. REFERENCES AND CONTACTS

2.1.1. References

› REGULATION (EU) No 454/2011 "Technical specification for interoperability relating to the subsystem 'telematics applications for passenger services' of the trans-European rail system"

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- › Commission Implementing Regulation (EU) 2019/772 of 16 May 2019 amending Regulation (EU) No 1300/2014 as regards inventory of assets with a view to identifying barriers to accessibility
- › CEN/TS 16614-6:2022 European Passenger Information Accessibility Profile
- › Application guide "Accessibility data to collect for the Inventories of Assets for Infrastructure"

2.2. Data to be exchanged

The data to be exchanged must follow the standard CEN/TS 16614-6:2022 European Passenger Information Accessibility Profile (EIPAP). The data exchange is limited to the data to describe the accessibility of the railway stations in EU

2.3. Actors

2.3.1. Data providers

The data must be provided by the following actors:

- entity in charge of collecting accessibly data
- station manager

2.3.2. Data consumers

The data can be consumed by the following entities:

- Railway undertakings
- Ticket vendors
- Public authorities

The data consumers have the right to receive the data according to the rules in the regulation (EU) 2019/772.

2.4. Data exchange architecture

The data must be provided via the TAP TSI architecture according to the TAP TSI technical document B.60. The data must be provided further to the database to the inventory of assets, hosted by ERA.

2.5. Specific requirements for the data exchange

The data to be provided must follow structure and elements as specified in the standard CEN/TS 161614-6:2022.

No additional requirements must be covered.

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Annex 1: Mapping PRM TSI and EPIP

Relationship AccessibilityAssessment and TSI-PRM IoA for the TSI-PRM IoA Step-free access

NeTEx					TSI-PRM IoA		Comments
AccessibilityAssessment	AccessibilityAssessment.limitations.AccessibilityLimitation						
MobilityImpairedAccess	WheelchairAccess	StepFreeAccess	LiftFreeAccess	Extensions.RampFreeAccess	Attribute	Implementation	
*	*	true	true	true	Step-free access	Yes	
*	*	true	false	true	Step-free access	Yes with lift	
*	*	true	true	false	Step-free access	Yes with ramp	
*	*	false	*	*	Step-free access	No	
*	*	unknown	*	*	Step-free access	Not applicable	
*	*	partially	*	*	Step-free access	Partially	

Legend:

Color	Description
	Representation in the TSI-PRM Inventory of Assets
	Representation in the NeTEx
	Cannot be represented by the NeTEx Equipment model, but a mapping exists in different register of this document
	A reasonable mapping from NeTEx to the IoA does not exist
	A mapping seems possible but must be further specified
*	not relevant for decision to map to TSI-PRM IoA Step-Free access

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Mapping TSI-PRM IoT to NeTEx: Equipment aspects

TSI-PRM Inventory of Assets			NeTEx				Remarks
Category	Attribute	Implementation	Representation in NeTEx	TypeOfEquipment	Element	Value	
Access to trains	Level access for wheelchair users	Yes	AccessVehicleEquipment in an EquipmentPlace.placeEquipments of the StopPlace or Quay	AccessVehicleEquipment	LowFloor	true	Can also be described with a MobilityFacilityList within a SiteFacilitySet of the StopPlace or Quay. Mostly do this by using AccessibilityLimitation/LevelAccessToVehicle
Access to trains	Level access for wheelchair users	Dependent of the train	In the majority of cases, level access is dependent of the train. Maybe we can indicate it with a ValidityCondition with Name or Description "Dependent of the train". Additionally, if AccessVehicleEquipment is present in the Quay, then said quay does certainly not offer level access to all trains.				If the Quay contains AccessVehicleEquipment - in addition to the MobilityFacililityList - then "Dependent of the train" can be assumed. See also the Equipment mapping. Or if a respective ValidityCondition is present. Mostly do this by using AccessibilityLimitation/LevelAccessToVehicle
Access to trains	Level access for wheelchair users	No	AccessVehicleEquipment in an EquipmentPlace of the StopPlace or Quay	AccessVehicleEquipment	LowFloor	false	Mostly do this by using AccessibilityLimitation/LevelAccessToVehicle
Access to trains	Level access for wheelchair users	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace and its Quays	AccessVehicleEquipment			Mostly do this by using AccessibilityLimitation/LevelAccessToVehicle
Access to trains	Existence of boarding devices on platform	Lifts	EquipmentPlace.placeEquipment of type AccessVehicleEquipment	AccessVehicleEquipment	Hoist	true	
Access to trains	Existence of boarding devices on platform	Ramps	EquipmentPlace.placeEquipment of type AccessVehicleEquipment	AccessVehicleEquipment	Ramp	true	
Access to trains	Existence of boarding devices on platform	No	Represented by the **absence** of AccessVehicleEquipment				
Access to trains	Existence of boarding devices on platform	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace and its Quays				
Access to trains	Complementary information (type of service allowing level access, other website providing the train characteristics…)	[CharacterString]	AccessVehicleEquipment.Note	AccessVehicleEquipment	Note		

TSI-PRM Inventory of Assets			NeTEx				Remarks
PRM assistance	Assistance offered to access to and from platforms and trains	Yes	EquipmentPlace.placeEquipment of type AssistanceService	AssistanceService	AssistanceFacilityList	boardingAssistance wheelchairAssistance personalAssistance	The relation is clarified in EIPIAP.
PRM assistance	Assistance offered to access to and from platforms and trains	No	EquipmentPlace.placeEquipment of type AssistanceService without the value boardingAssistance (and the other ones)	AssistanceService			In NeTEx "No" is represented by the absence of "tactileGuidingStrips" in the corresponding AssistanceFacilityList. Can be derived from AccessbilityLimitation/LevelAccessIntoVehicle and non-existence of AccessEquipment
PRM assistance	Assistance offered to access to and from platforms and trains	No	StopPlace does not have AssistanceServices				
PRM assistance	Assistance offered to access to and from platforms and trains	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace				
PRM assistance	And conditions for assistance	[CharacterString]	Maybe AssistanceService.AvailabilityCondition or AssistanceService.Note? AvailabilityCondition.Description would be exported to the CharacterString				

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PRM assistance	Boarding assistance without prior notification	Yes	AssistanceService.AssistanceAvailability with a corresponding AvailabilityCondition	AssistanceService	AssistanceAvailability	available	
PRM assistance	Boarding assistance without prior notification	No	AssistanceService.AssistanceAvailability with a corresponding AvailabilityCondition	AssistanceService	AssistanceAvailability	availableIfBooked	
PRM assistance	Boarding assistance without prior notification	No	AssistanceService.AssistanceAvailability with a corresponding AvailabilityCondition	AssistanceService	AssistanceAvailability	availableAtCertainTimes	
PRM assistance	Boarding assistance without prior notification	No	AssistanceService.AssistanceAvailability	AssistanceService	AssistanceAvailability	none	
PRM assistance	Boarding assistance without prior notification	Dependent of the train	In the majority of cases, boarding assistance is dependent of the train. Maybe we can indicate it with AssistanceService.AvailabilityCondition with Name "Dependent of the train".	AssistanceService	AssistanceAvailability	availableDependentOnJourney	Can be done also on ServiceJourneys, but here we stick to the basics.
PRM assistance	Boarding assistance without prior notification	Not Applicable	Represented by the absence of facilities and placeEquipments for the StopPlace or the absence of AssistanceService.AssistanceAvailability (or its value "unknown")	AssistanceService	AssistanceAvailability	unknown	
PRM assistance	Possibility to get alternative transport	[Yes/No/Not Applicable]	This element should describe, what happens in case the assistance cannot be provided.				
PRM assistance	And conditions for alternative transport	[CharacterString]	AvailabilityCondition.Note				

Signage	Presence of visual information at eye level in the station	Yes	PassengerInformationEquipment (either in an EquipmentPlace or unlocalised) which references the respective SiteFacilitySet of mapping "Facilities and Attributes"	PassengerInformationEquipment	PassengerInformationFacilityList	passengerInformationDisplay realTimeConnections	
Signage	Presence of visual information at eye level in the station	No	Represented by the **absence** of PassengerInformationEquipment				
Signage	Complementary information (location, type of information…)	[CharacterString]	Location is taken from the EquipmentPlace.Centroid and type of information is defined via SiteFacilitySet or PassengerInformationEquipment	PassengerInformationEquipment	AccessibilityInfoFacilityList	*	

Information desks	Information desk	Yes	EquipmentPlace.placeEquipment of type AssistanceService	AssistanceService	AssistanceFacilityList	Information	
Information desks	Information desk	No	EquipmentPlace.placeEquipment of type AssistanceService without the value boardingAssistance or no AssistanceService at all				
Information desks	Information desk	Not Applicable	Represented by the absence of facilities and placeEquipments for the StopPlace				
Information desks	Opening hours	[CharacterString]	The information desk Facility or Equipment has an AvailabilityCondition (named opening hours) with Timebands. StartTime and EndTime of the Timeband can be mapped to the opening hours.				
Information desks	Wheelchair accessible counter	Yes	FacilityList	MobilityFacilityList	suitableForWheelchairs		
Information desks	Wheelchair accessible counter	No	MobilityFacilityList without the respective value	MobilityFacilityList			
Information desks	Wheelchair accessible counter	Not Applicable	Represented by the absence of facilities and placeEquipments for the StopPlace or the MobilityFacility "unknown"				
Information desks	Counter Including induction loop system	Yes	FacilityList	AccessibilityInfoFacilityList	audioForHearingImpaired		
Information desks	Counter Including induction loop system	No	AccessibilityInfoFacilityList without the respective value	AccessibilityInfoFacilityList			
Information desks	Counter Including induction loop system	Not Applicable	Represented by the absence of facilities and placeEquipments for the StopPlace				

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Information desks	Complementary information about the access or about the service itself	[CharacterString]	PassengerInformationEquipment.Note	PassengerInformationEquipment	Note		
Ticketing facilities	Staffed ticket vending	Yes	StopPlace has TicketingEquipment with TicketOffice = true	TicketingEquipment	TicketOffice	true	
Ticketing facilities	Staffed ticket vending	Yes	StopPlace has TicketingEquipment with TicketCounter = true	TicketingEquipment	TicketCounter	true	
Ticketing facilities	Staffed ticket vending	Yes	StopPlace has TicketingService with TicketCounterService = true	TicketingService	TicketCounterService	true	
Ticketing facilities	Staffed ticket vending	Yes	StopPlace has TicketingService with TicketingFacilityList = ticketOffice	TicketingService	TicketingFacilityList	ticketOffice	
Ticketing facilities	Staffed ticket vending	No	StopPlace has TicketingEquipment with TicketOffice = true	TicketingEquipment	TicketOffice	false	
Ticketing facilities	Staffed ticket vending	No	StopPlace has TicketingEquipment with TicketCounter = true	TicketingEquipment	TicketCounter	false	
Ticketing facilities	Staffed ticket vending	No	StopPlace has TicketingService with TicketCounterService = false	TicketingService	TicketCounterService	false	
Ticketing facilities	Staffed ticket vending	No	StopPlace does not have Equipment of type TicketingEquipment or TicketingService				
Ticketing facilities	Staffed ticket vending	No	StopPlace has TicketingService with TicketingFacilityList without ticketOffice	TicketingService	TicketingFacilityList		
Ticketing facilities	Staffed ticket vending	Not Applicable	Represented by the absence of facilities and placeEquipments for the StopPlace				
Ticketing facilities	Opening hours	[CharacterString]	The ticketing Facility or Equipment has an AvailabilityCondition (named opening hours) with Timebands. StartTime and EndTime of the Timeband can be mapped to the opening hours.	TicketingService	validityConditions.AvailabilityCondition	timebands.Timeband.StartTime + timebands.Timeband.EndTime	
Ticketing facilities	Wheelchair accessible ticket vending counter	Yes	TicketingEquipment with LowCounterAccess	TicketingEquipment	LowCounterAccess	true	
Ticketing facilities	Wheelchair accessible ticket vending counter	Yes	TicketingEquipment with a MobilityFacilityList	TicketingEquipment	**(a)** TicketCounter **(b)** MobilityFacilityList	**(a)** true **(b)** suitableForWheelchairs	
Ticketing facilities	Wheelchair accessible ticket vending counter	Yes	TicketingService with a MobilityFacilityList	TicketingService	**(a)** TicketCounterService **(b)** MobilityFacilityList	**(a)** true **(b)** suitableForWheelchairs	
Ticketing facilities	Wheelchair accessible ticket vending counter	No	TicketingEquipment without LowCounterAccess	TicketingEquipment	LowCounterAccess	false	
Ticketing facilities	Wheelchair accessible ticket vending counter	No	TicketingEquipment with a MobilityFacilityList without the respective value	TicketingEquipment	MobilityFacilityList		
Ticketing facilities	Wheelchair accessible ticket vending counter	No	TicketingService with a MobilityFacilityList without the respective value	TicketingService	MobilityFacilityList		
Ticketing facilities	Wheelchair accessible ticket vending counter	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace or TicketingEquipment.LowCounterAccess is not present				
Ticketing facilities	Ticket vending counter including induction loop system	Yes	TicketingEquipment with InductionLoops	TicketingEquipment	InductionLoops	true	
Ticketing facilities	Ticket vending counter including induction loop system	Yes	TicketingService with a AccessibilityInfoFacilityList	TicketingService	**(a)** TicketCounterService **(b)** AccessibilityInfoFacilityList	**(a)** true **(b)** audioForHearingImpaired	
Ticketing facilities	Ticket vending counter including induction loop system	No	TicketingEquipment without InductionLoops	TicketingEquipment	InductionLoops	false	

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Ticketing facilities	Ticket vending counter including induction loop system	No	TicketingService with a AccessibilityInfoFacilityList without the respective value	TicketingService	**(a)** TicketCounterService **(b)** AccessibilityInfoFacilityList	**(a)** true **(b)**	
Ticketing facilities	Ticket vending counter including induction loop system	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace or TicketingEquipment.InductionLoops is not present	TicketingEquipment			
Ticketing facilities	Ticket vending machine or equivalent (card refilling)	Yes	TicketingEquipment with TicketingFacilityList and TicketingServiceFacilityList. For "card refilling" both FacilityLists must be present	**(a)** TicketingFacilityList **(b)** TicketingServiceFacilityList	**(a)** ticketMachines **(b)** purchase cardTopUp		
Ticketing facilities	Ticket vending machine or equivalent (card refilling)	No	TicketingFacilityList and TicketingServiceFacilityList do not have the respective values	**(a)** TicketingFacilityList **(b)** TicketingServiceFacilityList			
Ticketing facilities	Ticket vending machine or equivalent (card refilling)	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace				
Ticketing facilities	Wheelchair accessible ticket vending machine	Yes	TicketingEquipment with a MobilityFacilityList	TicketingEquipment	MobilityFacilityList	suitableForWheelchairs	
Ticketing facilities	Wheelchair accessible ticket vending machine	Yes	TicketingEquipment with HeightOfMachineInterface **lower** than a threshold value	TicketingEquipment	HeightOfMachineInterface	value < threshold	
Ticketing facilities	Wheelchair accessible ticket vending machine	No	TicketingEquipment with a MobilityFacilityList without the respective value	TicketingEquipment	MobilityFacilityList		
Ticketing facilities	Wheelchair accessible ticket vending machine	No	TicketingEquipment with HeightOfMachineInterface **higher** than a threshold value	TicketingEquipment	HeightOfMachineInterface	value > threshold	
Ticketing facilities	Wheelchair accessible ticket vending machine	Not Applicable	Represented by the absence of facilities and placeEquipments for the StopPlace or the MobilityFacility "unknown"	MobilityFacilityList	unknown		
Ticketing facilities	Vending machine with audio and tactile features	Yes	TicketingEquipment with a AccessibilityInfoFacilityList	AccessibilityInfoFacilityList	displaysForVisuallyImpaired		
Ticketing facilities	Vending machine with audio and tactile features	No	TicketingEquipment with a AccessibilityInfoFacilityList without the respective value	AccessibilityInfoFacilityList			
Ticketing facilities	Vending machine with audio and tactile features	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace				
Ticketing facilities	Complementary information about the access or about the service itself	[CharacterString]	Equipment.Note				
Toilets	Toilets	Yes	All SanitaryEquipments with the respective elements are exported to a IoA object of category "Toilets" with the respective attribute and implementation.	SanitaryEquipment	SanitaryFacilityList	toilet	
Toilets	Toilets	No	Represented by the **absence** of SanitaryEquipment altogether or the **absence** of the respective value.	SanitaryEquipment	SanitaryFacilityList		
Toilets	Toilets	Not Applicable	Represented by the **absence** of facilities, AccessibilityAssessments and placeEquipments for the StopPlace.				
Toilets	Wheelchair accessible toilets	Yes	All SanitaryEquipments with the respective elements are exported to a IoA object of category "Toilets" with the respective attribute and implementation.	SanitaryEquipment	SanitaryFacilityList	wheelchairAccessToilet	
Toilets	Wheelchair accessible toilets	No	Represented by the **absence** of SanitaryEquipment altogether or the **absence** of the respective value.	SanitaryEquipment	SanitaryFacilityList		

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Toilets	Wheelchair accessible toilets	Not Applicable	Represented by the **absence** of facilities, AccessibilityAssessments and placeEquipments for the StopPlace.				
Toilets	Complementary information about the access or about the service itself	[CharacterString]	SanitaryEquipment.Note	SanitaryEquipment	Note		

Car parks	Parking places	[Yes/No/Not Applicable/To be Completed/Partially]	Parking				The existence of a Parking is all it needs for the evaluation.
Car parks	PRM parking places	[Yes/No/Not Applicable/To be Completed/Partially]	Parking				If Parking.MobilityImpairedAccess is set to true, this will do
Car parks	Step-free access to PRM parking places	[Yes/Yes with lift/Yes with ramp/No/Not Applicable/To be Completed/Partially]	Parking model (LATER)				If Parking.MobilityImpairedAccess is set to true, this will do. Also the AccessibilityAssessment of the parking can be used.
Car parks	Complementary information about the access or about the service itself	[CharacterString]	Parking model (LATER)				Parking.Description

Stopping points for other connecting modes of transport	Complementary information about the access or about the service itself	[CharacterString]					Is solved in general by the general referencing between elements and also between files, if necessary. This is a process question and not a technical question (e.g. one responsible person per hub).

Complementary Information	Website where additional information is provided	[url]	StopPlace.url				

TSI-PRM Inventory of Assets			**NeTEx**				
Category	**Attribute**	**Implementation**	**Representation in NeTEx**	**Facility**	**Facility value**	**Remarks**
*	Step-free access	Yes	**(a)** FacilityList **(b)** AccessibilityAssessment in the corresponding Quay	MobilityFacilityList	stepFreeAccess	Another option in NeTEx is to define an AccessibilityAssessment in the corresponding Quay (see tab below). Any of those options is exported to the IoA attribute.
*	Step-free access	No	**(a)** FacilityList **(b)** AccessibilityAssessment in the corresponding Quay	MobilityFacilityList		In NeTEx "No" is represented by the absence of "stepFreeAccess" in the corresponding MobilityFacilityList. However, in case of an empty or missing MobilityFacilityList, it must be checked if the Quay has an AccessibilityAssessment which is then used instead. Any of those options is exported to the IoA attribute.
*	Step-free access	Not Applicable	Represented by the **absence** of facilities and AccessibilityAssessment for the corresponding Quay or the MobilityFacility "unknown"	MobilityFacilityList	unknown	
*	Step-free access	[Yes with lift/Yes with ramp/Partially]	AccessibilityAssessment in the corresponding Quay			These implementations cannot be mapped by Facilities. See AccessibilityAssessment mapping.
*	Consistent tactile path with braille or tactile information on handrails and walls Alternative: audible guiding by beacons with remote controller	Yes	**(a)** FacilityList **(b)** AccessibilityAssessment in the corresponding Quay	MobilityFacilityList	tactileGuidingStrips	Can also be exported from AccessibilityAssessment.Extensions New AccessibilityLimitationValue takes care of this, so it is no longer needed for the conversion
*	Consistent tactile path with braille or tactile information on handrails and walls **Alternative: audible guiding by beacons with remote controller**	With remote control	FacilityList	AccessibilityToolList	audioNavigator	New AccessibilityLimitationValue takes care of this, so it is no longer needed for the conversion

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*	Consistent tactile path with braille or tactile information on handrails and walls Alternative: audible guiding by beacons with remote controller	No	(a) FacilityList (b) AccessibilityAssessment in the corresponding Quay	MobilityFacilityList		In NeTEx "No" is represented by the absence of "tactileGuidingStrips" in the corresponding MobilityFacilityList. New AccessibilityLimitationValue takes care of this, so it is no longer needed for the conversion
*	Consistent tactile path with braille or tactile information on handrails and walls Alternative: audible guiding by beacons with remote controller	Not Applicable	Represented by the **absence** of facilities, AccessibilityAssessments and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"	MobilityFacilityList	unknown	New AccessibilityLimitationValue takes care of this, so it is no longer needed for the conversion
*	Contrasted stairs with tactile walking surface indicators and marking of transparent obstacles	Yes	Partially represented with AccessEquipment. Transparent obstacles cannot be mapped.			New AccessibilityLimitationValue takes care of this, so it is no longer needed for the conversion
*	Contrasted stairs with tactile walking surface indicators and marking of transparent obstacles	No	Partially represented with AccessEquipment. Transparent obstacles cannot be mapped.			New AccessibilityLimitationValue takes care of this, so it is no longer needed for the conversion
*	Contrasted stairs with tactile walking surface indicators and marking of transparent obstacles	Not Applicable	Represented by the **absence** of facilities, AccessibilityAssessments and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"			

Platforms	Tactile and contrasting walking surface indicators on platforms	Yes	FacilityList	MobilityFacilityList	tactilePatformEdges	
Platforms	Tactile and contrasting walking surface indicators on platforms	No	FacilityList	MobilityFacilityList		In NeTEx "No" is represented by the absence of "tactileGuidingStrips" in the corresponding MobilityFacilityList.
Platforms	Tactile and contrasting walking surface indicators on platforms	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"	MobilityFacilityList	unknown	
Platforms	Ticket control barriers to access platforms	Yes	CheckConstraint in the corresponding Quay			Attribute cannot be mapped by Facilities or Equipment. See CheckConstraint mapping.
Platforms	Ticket control barriers to access platforms	No	Represented by the **absence** of CheckConstraints for the corresponding Quay			
Platforms	Wheelchair accessible ticket control barriers	Yes	FacilityList	MobilityFacilityList	suitableForWheelchairs	A SiteFacilitySet can be linked with the respective CheckConstraint with CheckConstraint.FacilityRef.
Platforms	Wheelchair accessible ticket control barriers	No	FacilityList	MobilityFacilityList		In NeTEx "No" is represented by the absence of "suitableForWheelchairs" in the corresponding MobilityFacilityList. A SiteFacilitySet can be linked with the respective CheckConstraint with CheckConstraint.FacilityRef.
Platforms	Wheelchair accessible ticket control barriers	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"	MobilityFacilityList	unknown	A SiteFacilitySet can be linked with the respective CheckConstraint with CheckConstraint.FacilityRef.
Platforms	Complementary information about the access or about the service itself.	[CharacterString]				Maybe in Quay Description

Access to trains	Level access for wheelchair users	Yes	FacilityList	MobilityFacilityList	lowFloor suitableForWheelchairs	Can be further specified with AccessVehicleEquipment. See Equipment mapping. Both cases, a SiteFacilitySet and/or a suitable Equipment, are exported to the IoA attribute.
Access to trains	Level access for wheelchair users	Dependent of the train	FacilityList	MobilityFacilityList	lowFloor suitableForWheelchairs	See AccessibilityAssessment and EquipmentMapping
Access to trains	Level access for wheelchair users	No	FacilityList	MobilityFacilityList		In NeTEx "No" is represented by the absence of "lowFloor" and "suitableForWheelchairs" in the corresponding MobilityFacilityList.
Access to trains	Level access for wheelchair users	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"	MobilityFacilityList	unknown	

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Access to trains	Existence of boarding devices on platform	Lifts	placeEquipment of type AccessVehicleEquipment for the corresponding Quay	MobilityFacilityList	suitableForWheelchairs boardingAssistance	AccessVehicleEquipment with "Hoist"= true is necessary. See Equipment mapping.
Access to trains	Existence of boarding devices on platform	Ramps	placeEquipment of type AccessVehicleEquipment for the corresponding Quay	MobilityFacilityList	suitableForWheelchairs boardingAssistance	AccessVehicleEquipment with "Ramp"= true is necessary. See Equipment mapping.
Access to trains	Existence of boarding devices on platform	No	FacilityList	MobilityFacilityList		In NeTEx "No" is represented by the absence of "boardingAssistance" and "wheelchairAssistance" in the corresponding MobilityFacilityList and AssistanceFacilityList (AccessVehicleEquipment also absent).
Access to trains	Existence of boarding devices on platform	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"	MobilityFacilityList	unknown	
Access to trains	Complementary information (type of service allowing level access, other website providing the train characteristics…)	[CharacterString]	Maybe Quay or AccessVehicleEquipment Description or Note?			

PRM assistance	Assistance offered to access to and from platforms and trains	Yes	FacilityList	AssistanceFacilityList	wheelchairAssistance boardingAssistance	Can be further specified with AssistanceService equipment. Both cases, a SiteFacilitySet and/or a suitable Equipment, are exported to the IoA attribute.
PRM assistance	Assistance offered to access to and from platforms and trains	No	FacilityList	AssistanceFacilityList		In NeTEx "No" is represented by the absence of "tactileGuidingStrips" in the corresponding AssistanceFacilityList.
PRM assistance	Assistance offered to access to and from platforms and trains	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace			
PRM assistance	And conditions for assistance	[CharacterString]	Maybe AssistanceService or AccessVehicleEquipment Note?			
PRM assistance	Boarding assistance without prior notification	[Yes/No/Not Applicable/To be Completed/Dependent of the train]	Maybe use Extensions in AssistanceService or AccessVehicleEquipment?			
PRM assistance	Possibility to get alternative transport	[Yes/No/Not Applicable/To be Completed/Partially]	How is alternative transport meant? What is the szenario? Maybe use Extension?			
PRM assistance	And conditions for alternative transport	[CharacterString]	Maybe Note or Description?			

Signage	Presence of visual information at eye level in the station	Yes	FacilityList or rather PassengerInformationEquipment	PassengerInformationFacilityList	passengerInformationDisplay realTimeConnections	
Signage	Presence of visual information at eye level in the station	No	FacilityList or rather PassengerInformationEquipment	PassengerInformationFacilityList		
Signage	Complementary information (location, type of information…)	[CharacterString]	Location is taken from the EquipmentPlace.Centroid and type of information is defined via SiteFacilitySet or PassengerInformationEquipment	AccessibilityInfoFacilityList	visualDisplays largePrintTimetables	

Dynamic information	Existence of a dynamic visual information system in station and platforms	Yes	If a PassengerInformationEquipment facility exists with any of those values (or all of them), then it is exported to an IoA object of the respective category and attribute.	PassengerInformationEquipment	timetablePoster fareInformation lineNetworkPlan lineTimetable stopTimetable realTimeDepartures journeyPlanning	
Dynamic information	Existence of a dynamic visual information system in station and platforms	No	FacilityList	PassengerInformationEquipment		
Dynamic information	Existence of a dynamic visual information system in station and platforms	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace			
Dynamic information	Existence of a dynamic spoken information system in station and platforms	Yes	FacilityList	AccessibilityInfoFacilityList	audioInformation	

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| Dynamic information | Existence of a dynamic spoken information system in station and platforms | No | FacilityList | AccessibilityInfoFacilityList | | |
| Dynamic information | Existence of a dynamic spoken information system in station and platforms | Not Applicable | Represented by the **absence** of facilities and placeEquipments for the StopPlace | | | |

Information desks	Information desk	Yes	FacilityList	PassengerInformationEquipment	informationDesk	
Information desks	Information desk	No	FacilityList	PassengerInformationEquipment		
Information desks	Information desk	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace			
Information desks	Opening hours	[CharacterString]	The information desk Facility or Equipment has an AvailabilityCondition (named opening hours) with Timebands. StartTime and EndTime of the Timeband can be mapped to the opening hours.			
Information desks	Wheelchair accessible counter	Yes	FacilityList	MobilityFacilityList	suitableForWheelchairs	
Information desks	Wheelchair accessible counter	No	MobilityFacilityList without the respective value	MobilityFacilityList		
Information desks	Wheelchair accessible counter	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the corresponding Quay or the MobilityFacility "unknown"			
Information desks	Counter Including induction loop system	Yes	FacilityList	AccessibilityInfoFacilityList	audioForHearingImpaired	
Information desks	Counter Including induction loop system	No	AccessibilityInfoFacilityList without the respective value	AccessibilityInfoFacilityList		
Information desks	Counter Including induction loop system	Not Applicable	Represented by the **absence** of facilities and placeEquipments for the StopPlace			
Information desks	Complementary information about the access or about the service itself	[CharacterString]	PassengerInformationEquipment.Note			

| Ticketing facilities | * | * | See Equipment mapping | | | |

| Toilets | * | * | See Equipment mapping | | | |

Car parks	Parking places	[Yes/No]	See Equipment mapping			Modelled differently as Parking
Car parks	PRM parking places	[Yes/No]	See Equipment mapping			Modelled differently as Parking
Car parks	Step-free access to PRM parking places	[Yes/Yes with lift/Yes with ramp/No]	See Equipment mapping			Modelled differently as Parking
Car parks	Complementary information about the access or about the service itself	[CharacterString]	See Equipment mapping			Modelled differently as Parking

| Stopping points for other connecting modes of transport | Complementary information about the access or about the service itself | [CharacterString] | | | | Maybe as Note |

| Complementary Information | Website where additional information is provided | [url] | | | | Maybe as Note |

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NeTEx					TSI-PRM IoA		
CheckConstraint							
PlaceRef	CheckProcess	CheckService	AccessFeatureType	FacilityRef	Category	Attribute	Implementation
*	ticketCollection	*	*	*	Platforms	Ticket control barriers to access platforms	Yes
*	ticketPurchase	*	*	*	Platforms	Ticket control barriers to access platforms	Yes
*	ticketValidation	*	*	*	Platforms	Ticket control barriers to access platforms	Yes
*	*	*	*	*	Platforms	Ticket control barriers to access platforms	No
null	null	null	null	null	Platforms	Ticket control barriers to access platforms	No
*	(a) ticketCollection (b) ticketPurchase (c) ticketValidation	*	*	*	Platforms	Wheelchair accessible ticket control barriers	Yes
*	(a) ticketCollection (b) ticketPurchase (c) ticketValidation	*	*	*	Platforms	Wheelchair accessible ticket control barriers	No

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