

DIN EN 1545-1:2015-06 (E)

Identification card systems - Surface transport applications - Part 1: Elementary data types, general code lists and general data elements

Contents		Page
Foreword		7
Introduction		8
1	Scope	10
2	Normative references	10
3	Terms and definitions	10
4	Abbreviations	12
5	Approach for definition of data types and data elements	12
5.1	Data types and data elements	12
5.2	ASN.1 type naming conventions	13
5.3	Existing standards	13
5.4	Value range identifiers	13
5.5	Size constraints	13
6	Elementary data types	13
6.1	Address	13
6.2	Amount	13
6.3	ApplicationInstanceNumber	13
6.4	Authenticator	14
6.5	BCDStringType	14
6.6	BitMap	14
6.7	Capacity	15
6.8	CompanyId	15
6.9	Counter	15
6.10	CountryAlpha	15
6.11	CountryNumeric	15
6.12	Currency	15
6.13	Databin	15
6.14	DateCompact	15
6.15	Datef	16
6.16	DateStamp	16
6.17	DateTimeCompact	16
6.18	DateTimeStamp	17
6.19	DayOfWeek	17
6.20	Duration	17
6.21	Flag	17
6.22	HalfDayOfWeek	18
6.23	HalfDayType	18
6.24	IAI	19
6.25	IIN	19
6.26	InstancePointer	19
6.27	INT1	19
6.28	INT2	19
6.29	INT3	20
6.30	INT4	20
6.31	INTM	20

6.32	INTP	20
6.33	INTS	20
6.34	LanguageAlpha	20
6.35	LanguageId	20
6.36	Length	20
6.37	MappingType	21
6.38	MeasuredParameters	21
6.39	Name	22
6.40	NetworkAccess	22
6.41	NetworkId	23
6.42	NetworkSpecificCompanyId	24
6.43	Number	24
6.44	NumberUnit	24
6.45	ObjectIdentifier	24
6.46	Payment	24
6.47	PayUnitMap	24
6.48	Percentage-0	25
6.49	Percentage-1	25
6.50	Percentage-2	25
6.51	PeriodOfDay	25
6.52	Permission	25
6.53	PointerValue	26
6.54	Ptag	26
6.55	Quantity	26
6.56	ReferenceIdentifier	26
6.57	ReferenceNumber	26
6.58	Restriction	26
6.59	SequenceNumber	26
6.60	ShortName	27
6.61	SignedAmount	27
6.62	SignedInteger1	27
6.63	SignedInteger2	27
6.64	SignedInteger3	27
6.65	Speed	27
6.66	TimeCompact	27
6.67	TimeMeasure	28
6.68	TimeReal	28
6.69	TimeStamp	28
6.70	VehicleNumber	28
6.71	VersionNumber	28
6.72	Weight	28
7	Data elements with associated code lists	28
7.1	General	28
7.2	CapacityUnit	29
7.3	CommercialTransportProductCode	29
7.4	ConditionCode	31
7.5	DayOfValidityCode	32
7.6	DestinationOrOriginCode	32
7.7	DeviceTypeCode	32
7.8	DirectionCode	33
7.9	EntitlementTypeCode	33
7.10	EventTypeCode	34
7.11	GenderCode	35
7.12	HotListStatusCode	35
7.13	LanguageCode	36
7.14	LegislationCode	41
7.15	LengthUnit	41
7.16	LocationQualifierCode	41
7.17	LocationTypeCode	42
7.18	PersonalisationBiometricCode	42
7.19	PersonalisationTypeCode	43

7.20	PointerQualifierCode	43
7.21	PreferenceTypeCode	43
7.22	ProfileCodeOP	44
7.23	ProfileCodeNetwork	45
7.24	ReferenceTypeCode	45
7.25	RestrictTimeCode	45
7.26	ResultCode	45
7.27	RevocationDetailsCode	46
7.28	RoundingCode	46
7.29	SecurityServicesCode	46
7.30	SeriousnessCode	47
7.31	SpeedUnit	47
7.32	StatusCode	47
7.33	TimeUnit	48
7.34	TransactionModeCode	49
7.35	TransportTypeCode	49
7.36	UserActionCode	50
7.37	WeightUnit	50
7.38	UserMediaTypeCode	50
7.39	SecurityAlgorithmCode	51
8	General data elements	51
8.1	AccountingId	51
8.2	ActionListSequenceNumber	52
8.3	AlgorithmId	52
8.4	ApplicationId	52
8.5	ApplicationOwner	52
8.6	BirthDate	52
8.7	BirthName	52
8.8	BirthPlace	52
8.9	CollectionAndForwardingOperator	52
8.10	CompanyName	52
8.11	ContractDependencyPointer	53
8.12	ContractTypesAllowed	53
8.13	CustomerContractProvider	53
8.14	CustomerNumber	53
8.15	Date	53
8.16	DateTime	53
8.17	DateTimeBand	53
8.18	DeductionPercentage	53
8.19	DelayCounter	54
8.20	DeviceId	54
8.21	DisplayMessageNumber	54
8.22	EmailAddress	54
8.23	EndDate	54
8.24	EndDatePeriod	54
8.25	EndDatePeriodStamp	54
8.26	EndDateStamp	54
8.27	EndTime	55
8.28	EndTimeStamp	55
8.29	EntryPointer	55
8.30	EventClassification	55
8.31	EventDateStamp	55
8.32	EventDisplayMessageld	55
8.33	EventPointer	55
8.34	FacilityProvider	56
8.35	FarthestPlace	56
8.36	Fax	56
8.37	Forename	56
8.38	HangoverPeriod	56
8.39	HolderAddress	56
8.40	HolderCompany	56

8.41	HolderId	56
8.42	HolderProfiles	57
8.43	IdentityDocumentId	57
8.44	IssueDateStamp	57
8.45	KeyVersionNumber	57
8.46	LastMinuteSale	57
8.47	LevelIndicator	57
8.48	LocationId	57
8.49	LocationIdentifier	57
8.50	LockTime	58
8.51	MaxAbnormalEvents	58
8.52	MostRecentPointer	58
8.53	NotOKCounter	58
8.54	NumberOfContracts	58
8.55	NumberOfEntries	58
8.56	NumberOfTimePeriods	58
8.57	PermitPeriodOfDay	59
8.58	PostCodeId	59
8.59	Priority	59
8.60	ProductOwner	59
8.61	ProductRetailer	59
8.62	ProductStatus	59
8.63	ReceiptData	59
8.64	ReceiptPoint	59
8.65	ReservationId	59
8.66	RestrictedDayOfWeek	60
8.67	RestrictedHalfDayOfWeek	60
8.68	RestrictedLocation	60
8.69	RestrictedPeriodOfDay	60
8.70	RestrictionEnd	60
8.71	RestrictionEndDate	60
8.72	RestrictionStart	60
8.73	SalesPoint	61
8.74	SecondaryFlag	61
8.75	SectionNumber	61
8.76	SecurityVersion	61
8.77	SerialNumber	61
8.78	ServiceOperator	61
8.79	StartDate	61
8.80	StartDatePeriod	61
8.81	StartDatePeriodStamp	62
8.82	StartDateStamp	62
8.83	StartTime	62
8.84	StartTimeStamp	62
8.85	StructureReferenceNumber	62
8.86	Surname	62
8.87	Telephone	62
8.88	TestFlag	62
8.89	Time	63
8.90	TransactionOperator	63
8.91	TransactionSequenceNumber	63
8.92	UnblockInstanceNumber	63
8.93	UserData	63
8.94	ValidationCounter	63
8.95	ValidationStatus	63
8.96	ValidDayOfExpiry	63
8.97	ValidDayOfIssue	63
8.98	ValidityCheckFlag	64
8.99	ValidityDuration	64
8.100	VehicleId	64
8.101	VersionNumberFor1545	64

9	Encoding rules	64
9.1	General	64
9.2	Basic encoding rules (BER)	64
9.3	Alternative encoding rules	64
9.3.1	General	64
9.3.2	Packed encoding rules	65
9.3.3	Other encoding rules	65
9.4	Value and size range definitions	65
10	Backwards compatibility	65
11	Transport general module definition	66
	Annex A (normative) Assignment of object identifiers	83
	Annex B (normative) Tags	84
	Annex C (informative) Index	89
	Bibliography	92