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Article master canonical guidelines

Product or Article Master Data facilitates seamless collaboration between manufacturers and third-party logistics providers (3PLs). Sharing this data accurately and promptly is crucial for ensuring compliant, efficient, and secure product handling across the supply chain.

Canonical guidelines

Canonical Element	Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
data	-	Json object type/root element.	-	-	-
controlFileHeader	-	Canonical control file header to store data for control segments and envelopes of IDocs, and X12 and EDIFACT EDI messages.	-	-	-
canonicalArticleMasterHeader	-	Optional header for article master canonical.	Segments EDI_DC40, E1MARAM	Segment BCT	Segment BGM Example: BGM+9+123456+9'
processingFunctionTypeCode	string	Processing function, transaction set purpose code. Valid values include: • CREATE • CHANGE • DELETE • CANCEL • ORIGINAL • REPLACE • RESEND	-	BCT10 = • 00 - (ORIGINAL) or • 01 - (CANCEL) or • 02 - (CREATE) or • 03 - (DELETE) or • 04 - (CHANGE) or • 05 - (REPLACE) or • 15 - (RESEND)	BGM030 = • 1 - (CANCEL) or • 2 - (CREATE) or • 3 - (DELETE) or • 4 - (CHANGE) or • 5 - (REPLACE) or • 9 - (ORIGINAL) or • 18 - (RESEND)
messageTypeIdIdentifierCode	string	Code identifying purpose of EDI message. X12 and EDIFACT pass thru mapping.	-	BCT01 Possible Codes: • SC - Sales Catalog • PC - Price Catalog • RC - ReSale Catalog	BGM010-010 Possible codes: • 6 - Product specification report • 9 - Price/Sales Catalog • 289 - Product data message
transactionReferenceIdentifierList	array	Transaction reference for article master at header level that affects the entire message.	Segments EDI_DC40, E1MARAM	Segment BCT	Segment BGM
b2bTransactionIdentifierType	string	Referenced document type. Valid values: • ARTICLEMASTER (required from all formats IB) • VERSION • PRICESALESCATALOG	b2bTransactionIdentifierType = "ARTICLEMASTERDATA" IB mapping. q	b2bTransactionIdentifierType = "ARTICLEMASTERDATA" and "VERSION"	b2bTransactionIdentifierType = "ARTICLEMASTERDATA" (required) and "VERSION" (optional)
b2bTransactionIdentifierValue	string	Document identifier for transaction referenced by b2bTransactionIdentifierType.	Only IB mapping. Suggesting concatenation to build unique identifier: SNDLAD + MATNR	BCT02 where transactionReferenceIdentifierType = "ARTICLEMASTERDATA" Required: Define custom error message if not present. BCT03 where if transactionReferenceIdentifierType = "VERSION" (optional)	BGM020 where transactionReferenceIdentifierType = "ARTICLEMASTERDATA" Required: Define custom error message if not present. BGM020-020 where transactionReferenceIdentifierType = "VERSION"
transactionDate	string	Date transaction created.	-	-	-
epochTransactionDate	integer	Date transaction created in epoch integer date format.	-	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	lineItemNumber	string	Line item number in customer purchase order. Line item level only.	-	-	-
	mpcDates	array	Dates relevant for inventory adjustment header.	-	Segment DTM	Segment DTM Example: DTM+137:20061229:102'
	dateType	string	Date type at header level for article master record in date format YYYYMMDD and time format (IDoc, X12) HHMMSS. Valid values: • EFFECTIVE • AVAILABILITY • EXPIRATION • WARRANTY • DOCUMENT	-	DTM01 - • 007 - (EFFECTIVE) or • 018 - (AVAILABILITY) or • 036 - (EXPIRATION) or • 512 - (WARRANTY) or • 999 - (DOCUMENT)	DTM010-010 - • 7 - (EFFECTIVE) or • 36 - (EXPIRATION) or • 44 - (AVAILABILITY) or • 137 - (DOCUMENT)
	dateValue	string	Date defined by referenced date type in date format YYYY-MM-DD.	-	DTM02 where DTM01 - • 007 or • 018 or • 036 or • 999	DTM010-020 where DTM010-010 - • 7 or • 36 or • 44 or • 137
	epochDateValue	integer	Date defined by referenced date type generated in epoch integer date format.	-	-	-
	timeZone	string	Time zone for referenced dates.	-	-	-
	mpcCurrency	array	Currency.	-	Segment CUR Example: CUR*SE*USD	Segment CUR Example: CUX+2:EUR:4
	currencyCode	string	Currency Code.	-	CUR02	CUX010-020
	exchangeRateCurrencyCode	string	Exchange Rate Currency Code.	-	-	-
	exchangeRate	string	Exchange Rate.	-	-	-
	validityRate	string	Validity Date.	-	-	-
	currencyEntityCode	string	Currency Entity Code.	-	-	-
	customerBusinessInformation	-	Customer party company identifiers and address information.	-	Segment loop N1 N101 = "BY"	Segment loop NAD NAD010 = "BY"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner.	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	-	-
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	endCustomerBusinessInformation	-	Final downstream customer party company identifiers and address information.	-	Segment loop N1 N101 = "MA"	Segment loop NAD NAD010 = "UD"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner.	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	supplierBusinessInformation	-	Supplier party company identifiers and address information.	-	Segment loop N1 N101 = "SU"	Segment loop NAD NAD01 = "SU"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner.	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	siteLocationInformation	-	Site location party identifier.	-	Segment loop N1 N101 = "SV"	-
	businessName	string	Business name for partner or location.	-	N102	-
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner	-	N103	-
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	-
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	-
	address2	string	Supplemental street address.	-	N302	-
	city	string	City.	-	N401	-
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	-
	postalCode	string	Postal code.	-	N403	-
	country	string	Country code.	-	N404	-
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	-
	contactName	string	Contact name.	-	PER02	-
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	-
	contactEmail	string	Contact email address	-	PER06 where PER05 = "EM"	-
	shipFromLocationInformation	-	Ship from party location identifiers and address information.	-	Segment loop N1 N101 = "SF"	Segment loop N1 NAD01 = "SF"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner.	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	shipToLocationInformation	-	Ship to party location identifiers and address information.	-	Segment loop N1 N101 = "SE"	Segment loop NAD NAD01 = "SE"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	N/A	N/A
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	manufacturerBusinessInformation	-	Manufacturer party company identifiers and address information.	-	Segment loop N1 N101 = "MF"	Segment loop NAD NAD01 = "MF"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	consigneeBusinessInformation	-	Consignee party company identifiers and address information.	-	Segment loop N1 N101 = "CN"	Segment loop NAD NAD01 = "CN"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	sellerBusinessInformation	-	Seller party company identifiers and address information.	-	Segment loop N1 N101 = "SE"	Segment loop NAD NAD01 = "SE"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	messageSenderBusinessInformation	-	Message sender company identifiers and address information.	-	Segment loop N1 N101 = "FR"	Segment loop NAD NAD01 = "FR"
	businessName	string	Business name for partner or location.	-	N102	NAD040-010
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	isIdentifierPresentInEvent	boolean	Is identifier present in event boolean.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner	-	N103	NAD020-030
	companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	address	-	Party address information.	-	-	-
	address1	string	Main street address.	-	N301	NAD050-010
	address2	string	Supplemental street address.	-	N302	NAD050-020
	city	string	City.	-	N401	NAD060
	district	string	District.	-	-	-
	state	string	State or region code.	-	N402	NAD070-010
	postalCode	string	Postal code.	-	N403	NAD080
	country	string	Country code.	-	N404	NAD090
	telephone	string	Telephone number.	-	-	-
	fax	string	Fax number.	-	-	-
	url	string	Website URL.	-	-	-
	buildingNumber	string	Building number.	-	-	-
	plantNumber	string	Plant number.	-	-	-
	floorNumber	string	Floor number in building.	-	-	-
	lscAddressIdentifier	string	LSC address identifier.	-	-	-
	village	string	Village name.	-	-	-
	houseNumber	string	House number.	-	-	-
	township	string	Township.	-	-	-
	premisesCode	string	Premises code.	-	-	-
	companyLocationContactInformation	-	-	-	Segment PER	Segment CTA
	contactName	string	Contact name.	-	PER02	CTA020-020
	contactTitle	string	Title of contact.	-	-	-
	contactPhone	string	Contact phone number.	-	PER04 where PER03 = "TE"	COM010-010 where COM010-020 = "TE"
	contactEmail	string	Contact email address.	-	PER06 where PER05 = "EM"	COM010-010 where COM010-020 = "EM"
	freeTextNote	array	Ship to party company identifiers and address information.	-	-	-

Canonical Element	Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
textReferenceCode	string	Text reference or subject code.	-	-	-
textFunctionCode	string	Text function code.	-	-	-
language	string	Language of free text.	-	-	-
textFormatCode	string	Format code for free text.	-	-	-
freeFormText	string	Free text string.	-	-	-
customFields	array	Name value pairs for mapping pass through elements that will not be processed in TL system but may be passed outbound.	-	-	-
name	string	Name of mapped field.	-	-	-
value	string	Value in named field.	-	-	-
canonicalArticleMasterItemDetails	array	Article master line item details record.	-	segment loop LIN	Example: LIN+1+1+4043977029571:EN::9'
lineItemNumber	string	Line Item Number.	-	LIN01	LIN010
processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	G5301 = • 001 - (CHANGE) or • 002 - (DELETE) or • 050 - (ORIGINAL)	LIN020 = • 1 - (ORIGINAL) or • 2 - (DELETE) or • 3 - (CHANGE) or • 38 - (REPLACE)
sizeDimensionsDescription	string	Size or dimensions freeform information about the product. Optional value.	E1MARAM/GROES	-	-
productCodesIdentifiers	array	Supplier's product code type and identifier.	Segment E1MARAM	Segment LIN	Segment LIN
productCodeType	string	Product identifier type. Valid values include: • CUSTOMER • SUPPLIER • GTIN14	SAP does not support item type in this IDoc. There will only be a material identifier which will most likely represent the internal product number of the sending SAP system. If message sent by the buyer, productCodeType would = CUSTOMER If message sent by the seller, productCodeType would = SUPPLIER	LIN02 If more than one entry in productCodesIdentifiers, loop and pass values also to: • LIN04, • LIN06, • LIN08, • LIN10, • LIN12, • LIN14, • LIN16	LIN030.020 If more than one entry in productCodesIdentifiers, pass values to: Loop on segment PIA. Map productCodeType values to PIA020-020 on each PIA loop.
productCodeValue	string	Product code identifier value.	MATNR	LIN03 If more than one entry in productCodesIdentifiers, loop and pass values also to: • LIN05, • LIN07, • LIN09, • LIN11, • LIN13, • LIN15, • LIN17	LIN030.010 If more than one entry in productCodesIdentifiers, on each loop of PIA pass poroductCodeValue to: PIA020-020
language	string	Alternate language code for description of product. In this instance, this would be a one character SAP code for the language of the product description used in conjunction with the ISO language code.	E1MAKTM/SPRAS	-	-
productItemDescriptions	array	Description of the product defined by the current product identifier.	Segment E1MAKTM	Segment PID, PO4 in LIN loop	Segment IMD in LIN loop segment group 10 Segment QTY in LIN loop segment group 13
processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	Segment E1MAKTM MSGFN • 003 - DELETE • 004 - CHANGE • 005 - REPLACE • 009 - ORIGINAL • 023 - DONOTIMPORT • 018 - RESEND	-	-
productLanguageCode	string	ISO language code for product description.	Segment E1MAKTM SPRAS_ISO	PID09	IMD030-060
productName	string	Product name or short description for article.	Segment E1MAKTM MAKTX	PID05 hardcode "F" to PID01 (F = Free Form)	IMD030.040 hardcode"F" toIMD010
productDescription	string	Description of the product defined by the current product identifier.	-	-	-
productHierarchy	string	Product hierarchy groups together articles by combining different characteristics.	Segment E1MARAM PRDHA	-	-
palletTierCount	number	Number of layers or tiers per pallet.	Segment E1MARAM STFAK	-	-
customerSequence	string	Customer provided sequence identifier for the ArticleCustomerReference/ReferenceValue.	-	-	-
customerReferenceCode	string	Reference code from the customer that has relevance in the customer's system.	-	-	-
createDate	string	Date article created in string date format YYYY-MM-DD	Segment E1MARAM ERSDA	LIN loop DTM02 where DTM01 = 318 (added)	LIN loop: DTM020 where DTM010 = 448 (referenced item creation date)
epochCreateDate	integer	Date article created in epoch date format.	-	-	-
createdByUserId	string	Article created by user identifier.	Segment E1MARAM ERNAM	-	-
lastChangeDate	string	Date article last changed in string date format YYYY-MM-DD	Segment E1MARAM LAEDA	LIN loop DTM02 where DTM01 = 328 (change)	LIN loop: DTM020 where DTM010 = 558 (changed)

Canonical Element	Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
epochLastChangeDate	integer	Date article last changed in epoch date format	-	-	-
changedByUserId	string	Article changed by user identifier.	Segment E1MARAM AENAM	-	-
isForDeletion	boolean	Deletion indicator for article. Valid values: • True - Article record flagged for deletion • False - Do not delete item (default)	Segment E1MARAM LVORM X = true	-	-
isBatchProcessingEnabled	boolean	Indicator that specifies whether batch management is active for the article in the master record. Valid values: • True - Batch management is active • False - Batch management is NOT active (default)	Segment E1MARAM XCHPF X = true	-	-
lotNumberFormat	string	Format for the lot number.	-	-	-
articleBarCode	string	Bar code for article.	-	-	-
maintenanceStatus	string	Maintenance status for article master record.	Segment E1MARAM PSTAT	-	-
maintenanceStatusComplete	string	Maintenance status for complete article.	Segment E1MARAM VPSTA	-	-
materialType	string	Material type. Defines groups of materials according to common attributes and/or usage such as finished goods, raw materials, semi-finished products, operating supplies, trading goods, samples.	Segment E1MARAM MTART	PID04 where PID02 = PL (product type)	-
articleBrandIdentifier	string	Brand identifier for the article	-	-	-
articleFamilyCode	string	Article family code. Groups articles with common attributes. Typically articles within the same material type or family have similar material handling characteristics.	-	-	-
isNewArticle	boolean	Indicator that identifies new article. Valid values: • True - Article record flagged for deletion • False - Do not delete item (default)	-	-	-
previousProductIdentifier	string	Previous identifier used to manage article master record in current ERP system or in another system	Segment E1MARAM BISMT	-	-
commodityCode	string	Commodity code groups articles with the same qualities and specifications, regardless of source. Provides carriers with a standard for determining pricing and to simplify shipping. Can be assigned to an article configuration for transportation planning. Any value passed must exist in the receiving system.	-	-	-
materialGroup	string	Material group. Code that groups together several materials or services with the same attributes.	Segment E1MARAM MATKL	-	-
industrySector	string	Industry sector specifies the branch of industry to which the article is assigned. This code can refer to industries such as retail, aerospace and defense, education, beverage, chemicals, pharmaceuticals, and so on.	Segment E1MARAM MBRSH	-	-
packingQuantity	number	Quantity of eaches of item that packs into an inner pack or case.	-	PO401	QTY010-020 where QTY010-010 = "52" (qty in pack)
unitPackSize	number	Size of supplier units in pack.	-	PO402	-
unitOfMeasure	string	Base unit of measure for the article master record. This is the UOM in which stocks of the article are managed. Quantity UOMs include: • CA - Case • CP - Crate • CT - Carton • DS - Display • DZ - Dozen • EA - Each • PH - Pack • PC - Piece • PF - Pallet • PK - Package • T3 - Thousand Pieces • TH - Thousand • TY - Tray • UN - Unit	Segment E1MARAM MEINS	PO403	QTY010-030 if QTY010-010 = "52"

Canonical Element	Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
quantityUnitOfMeasure	string	An alternative or base unit of measure for the article master used by the message sender or a third party. Quantity UOMs include: • CA - Case • CP - Crate • CT - Carton • DS - Display • DZ - Dozen • EA - Each • PH - Pack • PC - Piece • PF - Pallet • PK - Package • T3 - Thousand Pieces • TH - Thousand • TY - Tray • UN - Unit	-	-	-
itemCategoryGroup	string	General item category group.	Segment E1MARAM MTPOS_MARA	-	-
expirationDateType	string	Code identifying type of expiration date for article. SAP values: • B - Expiration date • E - Shelf life expiration	Segment E1MARAM SLED_BBD	-	-
isTrackArticleOrigin	boolean	Indicator that specifies whether an origin code for the article must be entered when the article is received or identified. Valid values: • True - Entering origin code for article is required • False - Origin code for article is NOT required	-	-	-
countryOfOrigin	string	Country of origin of article.	Segment E1MARA1 HERKL	-	-
excessWeightTolerancePackaging	number	Excess weight tolerance for handling units - packaging.	Segment E1MARAM GEWTO	-	-
excessVolumeTolerancePackaging	number	Excess volume tolerance for handling units - packaging.	Segment E1MARAM VOLTO	-	-
expiryLeadTimeType	string	Time period type used to determine the lead time before the shelf life expiration date for the article. Valid values: • DAYS • HOURS • MINUTES • WEEKS • MONTHS • YEARS	Segment E1MARAM IPRKZ = • not populated (DAYS) default or • 1 (WEEKS) or • 2 (MONTHS) or • 3 (YEARS)	-	-
expiryLeadTimeValue	number	Lead time before the shelf life expiration date for the article as determined by the expiryLeadTimeType. Can also determine when the article is locked and can no longer be available for ordering	-	-	-
expiryClass	string	Identifies class set up in warehouse management that identifies lead time for product. If not present, lead time is determined by expiryLeadTimeType and/or expiryLeadTime.	-	-	-
qualityHoldReceipt	string	Identifies whether the article is received into in quality hold or released (unrestricted) status.	-	-	-
isExpiryRequired	boolean	Indicator that identifies whether the article is expiry date controlled. Valid values: • True - Article is expiry date controlled • False - Article is NOT expiry date controlled (default)	-	-	-
isStackable	boolean	Indicator that specifies whether the article can be delivered in double stacked pallets. Valid values: • True - Article can be double-stacked on pallet (default) • False - Article is NOT double-stacked on pallet	-	-	-
isHazardous	boolean	Indicator that specifies whether the article required special handling it is a dangerous or hazardous article. Valid values: • True - Article is expiry date controlled • False - Article is NOT expiry date controlled (default)	-	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	isSamplesRequired	boolean	Indicator that specifies whether samples will be taken on receipt of the article. Valid values: • True - Samples will be taken on receipt of the Article • False - Samples will NOT be taken on receipt (default)	-	-	-
	numberOfSamples	number	The number of samples of the article that will be taken if the isSamplesRequired is set to true.	-	-	-
	storageType	string	Storage type or class for article	-	-	-
	storageCondition	string	Code defining storage conditions for the article. SAP pass thru.	Segment E1MARAM RAUBE	-	-
	transportationGroup	string	Groups materials that share the same route and mode of transportation requirements. For example, all items that need to be shipped frozen could be in the same transportation group. Same with all articles that are shipped by lot and truck or in liquid form, and so on.	Segment E1MARAM TRAGR	-	-
	isPickUM	boolean	Indicator that specifies whether picking is done for the article at the UM level. Valid values: • True - Picking will be done at UM level for article • False - Picking will NOT be done at UM level	-	-	-
	isPickCarton	boolean	Indicator that specifies whether picking is done for the article at the carton level. Valid values: • True = Picking will be done at carton level for article • False = Picking will NOT be done at the carton level	-	-	-
	isPickBox	boolean	Indicator that specifies whether picking is done for the article at the box level. Valid values: • True - Picking will be done at box level for article • False - Picking will NOT be done at the box level	-	-	-
	isPickUnit	boolean	Indicator that specifies whether picking is done for the article at the unit level. Valid values: • True - Picking will be done at the unit level for article • False - Picking will NOT be done at the unit level	-	-	-
	isCountBackEnabled	boolean	Indicator that specifies whether the article is enabled for count back, a picking verification task that applies when the operator is picking less than a full pallet from a location. Valid values: • True - Count back is enabled • False - Count back is NOT enabled	-	-	-
	customsArticleTrackingCode	string	Defines type of customs tracking for the article, if relevant. May determine if customs or excise tax is due.	-	-	-
	customsCommodityCode	string	Identifier for the article used to determine the type of export or import duty to pay for article. Must match a commodity code set up for article in a duty management system and the receiver's WMS.	-	-	-
	customsExpensesValue	number	Monetary amount paid to customs for the article in the currency defined in the customs expenses currency field.	-	-	-
	currencyCode	string	Custom expenses currency code.	-	-	-
	trackingCategory	string	Determines if and how DAE controlled inventory will be controlled.	-	-	-
	serializationType	string	Code that determines if and when serial number tracking is required for the article.	-	-	-
	serialNumberLevel	string	Level of serial numbers required for the article.	-	-	-
	articleSerialNumberSetup	array	Serial number set up information for article.	-	-	-
	serialNumberTypeIdentifier	string	Code identifying the set of parameters that define a serial number.	-	-	-
	serialNumberMask	string	Alphanumeric that defines the format of the serial number and is used to determine if the serial number is valid.	-	-	-
	description	string	Serial number description.	-	-	-
	customerBusinessInformation	-	Customer party company identifiers and address information.	-	-	-
	businessName	string	Business name for partner or location.	-	-	-
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner.	-	-	-
	companyIdentifierValue	string	Company identifier value for business partner.	-	-	-
	alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
	supplierBusinessInformation	-	Supplier party company identifiers and address information.	-	-	-
	businessName	string	Business name for partner or location.	-	-	-
	mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
	companyIdentifierType	string	Company identifier type for business partner .	-	-	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		companyIdentifierValue	string	Company identifier value for business partner.	-	-	-
		alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
		siteLocationInformation	-	Site location party identifier.	-	Segment loop N1 N101 = "SV"	-
		businessName	string	Business name for partner or location.	-	N102	-
		mpcCompanyLocationIdentifierList	array	Identifier list for business party.	-	-	-
		companyIdentifierType	string	Company identifier type for business partner.	-	N103	-
		companyIdentifierValue	string	Company identifier value for business partner.	-	N104	-
		alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
		itemWeight	array	Gross weight of article in the article master record.	Segment E1MARAM	Segment MEA in LIN loop	Segment MEA in LIN loop
		weightType	string	Weight type for article master. Valid values: • NETWEIGHT • GROSSWEIGHT • ALLOWED • PERUNIT • TARE • PALLET • GROSSWEIGHT • CARTON • INNERPACK	-	MEA02 = • G - (GROSSWEIGHT) or • N - (NETWEIGHT)	MEA020-010 = • AAB (GROSSWEIGHT) or • AAA (NETWEIGHT)
		weightValue	string	Weight value.	• BRGEW if weightType - GROSSWEIGHT • NTGEW if weightType - NETWEIGHT • ERGEW if weightType - ALLOWED	MEA03	MEA030-020
		unitOfMeasure	string	Unit of measure for weights.	• GEWEI if weightType - GROSSWEIGHT or NETWEIGHT • ERGEI if weightType - ALLOWED	MEA04-01	-
		itemVolume	array	Volume of the article in article master record.	Segment E1MARAM	Segment MEA in LIN loop	Segment MEA in LIN loop
		volumeType	string	Type of volume recorded for article master. Valid vales: • ALLOWED • TOTAL • PERUNIT	-	MEA02 - VOL (TOTAL)	MEA020-010 - BRH (TOTAL)
		volumeValue	Number	Volume for the article master.	• VOLUM if volumeType - TOTAL • ERVOL if volumeType - ALLOWED	MEA03	MEA030-020
		unitOfMeasure	string	Unit of measure for volume value.	• VOLEH where volumeType - TOTAL • ERVOE where volumeType - ALLOWED	MEA04-01	-
		itemDimensions	array	Dimension of article in article master record.	Segment E1MARAM	Segment MEA in LIN loop	Segment MEA in LIN loop
		dimensionType	string	Type of dimension recorded for the article master. Valid values: • LENGTH • WIDTH • HEIGHT • DEPTH	-	MEA02 = • LN - (LENGTH) or • WD - (WIDTH) or • HT - (HEIGHT)	MEA020-010 = • LN - (LENGTH) or • WD - (WIDTH) or • HT - (HEIGHT)
		dimensionValue	string	Length of product at delivery line item.	• LAENG if dimenstionType - LENGTH • BREIT if dimenstionType - WIDTH • HOEHE if dimenstionType - HEIGHT	MEA03	MEA030-020
		unitOfMeasure	string	Unit of measure for dimension value.	MEABM	MEA04-01	-
		cartonDimensions	-	Dimensions of the carton recorded in the article master record.	-	-	-
		packagingLength	number	Length of carton	-	-	-
		packagingHeight	number	Height of carton	-	-	-
		packagingWidth	number	Width of carton	-	-	-
		packagingDepth	number	Depth of carton	-	-	-
		unitOfMeasure	string	Unit of measure for dimension value	-	-	-
		palletDimensions	-	Dimensions of the pallet recorded in the article master record.	-	-	-
		packagingLength	number	Length of pallet.	-	-	-
		packagingHeight	number	Height of pallet.	-	-	-
		packagingWidth	number	Width of pallet.	-	-	-
		packagingDepth	number	Depth of pallet.	-	-	-
		unitOfMeasure	string	Unit of measure for dimension value.	-	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
innerPackDimensions		-	Dimensions of the inner pack recorded in the article master record.	-	-	-
	packagingLength	number	Length of inner pack.	-	-	-
	packagingHeight	number	Height of inner pack	-	-	-
	packagingWidth	number	Width of inner pack	-	-	-
	packagingDepth	number	Depth of inner pack	-	-	-
	unitOfMeasure	string	Unit of measure for dimension value.	-	-	-
unitDimensions		-	Dimensions of the inner pack recorded in the article master record.	-	-	-
	packagingLength	number	Length of unit	-	-	-
	packagingHeight	number	Height of unit	-	-	-
	packagingWidth	number	Width of unit	-	-	-
	packagingDepth	number	Depth of unit	-	-	-
	unitOfMeasure	string	Unit of measure for dimension value.	-	-	-
unitsOfMeasure		array	Units of measure defined for article in article master data. Includes base unit of measure and alternative units of measure.	Segment E1MARM	-	-
	processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
	unitOfMeasure	string	Unit of measure for article master record .	MEINH	-	-
	altUOMNumerator	string	Numerator used to calculate conversion to the base unit of measure for alternate units of measure for the material.	UMREZ	-	-
	altUOMDenominator	string	Denominator used to calculate conversion to the base unit of measure for alternate units of measure for the material.	UMREN	-	-
itemDimensions		array	Dimensions of article in article master record if maintained with units of measure.	Segment E1MARM	-	-
	dimensionType	string	Type of dimension recorded for the article master. Valid values: • LENGTH • WIDTH • HEIGHT	-	-	-
	dimensionValue	string	Length, width or height of article in master record.	• LAENG if dimensionType - LENGTH • BREIT if dimensionType - WIDTH • HOEHE if dimensionType - HEIGHT	-	-
	unitOfMeasure	string	Unit of measure for dimension value	MEABM	-	-
itemVolume		array	Volume of the article in the article master record if maintained with units of measure.	Segment E1MARM	-	-
	volumeType	string	Type of volume recorded for article master. The valid vale is TOTAL.	-	-	-
	volumeValue	Number	Volume for the article master.	VOLUM if volumeType = TOTAL	-	-
	unitOfMeasure	string	Unit of measure for volume value.	VOLEH where volumeType = TOTAL	-	-
itemWeight		array	Gross weight of article in the article master record if maintained with units of measure.	Segment E1MARM	-	-
	weightType	string	Weight type for article master. The valid value is GROSSWEIGHT.	-	-	-
	weightValue	string	Weight value.	BRGEW if weightType = GROSSWEIGHT	-	-
	unitOfMeasure	string	Unit of measure for weights.	GEWEI	-	-
articlePlantPlanningInformation		array	Plant assignment and MRP planning information for article in the article master record.	Segment E1MARCM	Segment REF in LIN loop	Segment RFF in LIN loop segment group 17
	processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
	plantIdentifier	string	Plant to which article is assigned. A material master record may be assigned to one or more plants.	WERKS	REF02 where REF01 = PE (plant)	RFF010-020 where RFF010-010 = PE (plant) Loop 36 LIN/RFF
	maintenanceStatus	string	Maintenance status for article plant master record.	PSTAT	-	-
	purchasingGroup	string	Purchasing group. Identifies a buyer or a group of buyers responsible for purchasing activities for the article.	EKGRP	-	-
	mrpType	string	MRP type. Key that determines whether and how requirements for the article are planned in articles resource planning.	DISMM	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	mrpController	string	Specifies the number of the MRP controller or group of MRP controllers responsible for article planning for the article.	DISPO	-	-
	plannedDeliveryInDays	number	Planned delivery time in days, with no decimals. Number of calendar days needed to obtain the article or service if it is procured externally.	PLIFZ	-	-
	goodsReceiptProcessingInDays	number	Goods receipt processing time in days, with no decimals. Number of workdays required after receiving the article for inspection and placement into storage.	WEBAZ	-	-
	lotSize	string	Lot size in article planning. Key that determines which lot-sizing procedure the system uses within articles planning to calculate the quantity to be procured or produced.	DISLS	-	-
	procurementType	string	The procurement type Indicator defines how the article is procured. This includes in-house production, external procurement, or a combination of both in-house production and external procurement.	BESKZ = • E - (in-house production) or • F - (external procurement) or • X - (both) or • not populated (no procurement)	-	-
	periodIndicator	string	The period indicator specifies the periods in which the article's consumption values and forecast values are managed. This can be monthly, weekly, daily or based on the fiscal year variant.	PERKZ	-	-
	assemblyScrapPercent	number	Percentage of scrap that occurs during production of the article if the article is an assembly. Used in articles planning to calculate the lot size of the assembly. The system increases the quantity to be produced by the scrap quantity calculated.	AUSSS	-	-
	reorderPointQuantity	number	Reorder point. If the stock of the article falls below this quantity, the system flags the article for requirements planning by creating a planning file entry.	MINBE	Segment QTY in LIN loop / segment group 2600 / looping segment group 2610 QTY02 where QTY01 = YW (reorder point)	Segment QTY in LIN loop / looping segment group 13 QTY02 where QTY01 = 197 (reordering level)
	safetyStockQuantity	number	Safety stock specifies the quantity of the article that should be present to satisfy unexpectedly high demand in the coverage period. Safety stock reduces the risk of shortfalls in the quantity of articles in stock.	EISBE	-	-
	minimumLotQuantity	number	Minimum quantity of the article for procurement.	BSTMI	-	-
	maximumLotQuantity	number	Quantity of the article that may not be exceeded during procurement. The lot size of individual orders cannot exceed this value.	BSTMA	-	-
	fixedLotQuantity	number	Fixed lot size for ordering.	BSTFE	-	-
	roundingValue	number	Rounding value for ordering quantity. Used in planning. Value to a multiple of which the system rounds up the procurement quantity for the article.	BSTRF	-	-
	maximumStockLevel	number	Maximum quantity of the article in the current plant that may not be exceeded.	MABST	-	-
	dependentRequirementsIndicator	string	Dependent requirements indicator for individual and collective requirements. Determines whether individual or collective requirements are allowed for the dependent requirements of the article. Dependent requirements are automatically created by the MRP procedure for the components required to produce a planned order.	SBDKZ	-	-
	schedulingMarginKey	string	Scheduling margin key for floats. Determines floats required for scheduling an order. SAP pass thru.	FHORI	-	-
	availabilityCheck	string	Checking group for availability check. Specifies whether and how the system checks availability and generates requirements for articles planning.	MTVFP	-	-
	replenishmentLeadTime	number	Total replenishment lead time in days.	WZEIT	-	-
	loadingGroup	number	A grouping of materials that share the same loading requirements. For example, different loading groups could include materials that require the same equipment (ie, a fork-lift) or amount of time for loading, or the same loading point.	LADGR	-	-
	productionSupervisor	string	Identifies the group or role responsible for controlling the production of an article. The production supervisor also determines how capacity requirements are calculated for an article during a scheduling run. This is a code in SAP. Pass thru mapping.	FEVOR	-	-
	setUpTearDownTime	number	Specifies the total number of workdays needed to set up and tear down the various work centers where the finished article is processed, independently of the order quantity.	RUEZT	-	-
	processingTime	number	Specifies the amount of time needed to process the article in operations at the different work centers. Processing time depends on the order quantity.	BEARZ	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	interoperationTime	number	The number of workdays required for the transition of a produced article between work centers or work center groups. The total includes the following times: • Queue time • Wait time • Float before production • Float after production • Planned delivery time of an operation processed externally	TRANZ	-	-
	baseQuantityProduction	number	This is the quantity required on which the calculations for the production and processing time of the article is based.	BASMG	-	-
	shippingSetupTime	number	The amount of time needed for shipping to set up the work centers where the material is processed. It is independent of quantity.	VRVEZ	-	-
	baseQuantityShipping	number	The base quantity of the article required on which the calculations for shipping processing time is based, in the base unit of measure.	VBAMG	-	-
	shippingProcessingTime	number	The total amount of time required to ship a specific quantity of an article. This references the base quantity of the article for capacity planning in shipping.	VBEAZ	-	-
	commodityImportTarifCode	string	Commodity code or import tariff code for foreign trade, used for statistical purposes.	STAWN	-	-
	countryOfOrigin	string	Country of origin of article.	HERKL	-	-
	productRegionOfOrigin	string	Region within country of origin from in which the article was produced.	HERKR	-	-
	articleExportImportGroup	string	Article export/import group for foreign trade. Groups articles with similar export or import requirements.	MTVER	-	-
	profitCentre	string	Profit center for article. In SAP combined with controlling area to uniquely identify a profit center.	PRCTR	-	-
	planningTimeFence	string	Identifies a period in which no automatic changes are made to the master plan. Only used for articles that are planned with an MRP type that includes a firming type, which determines how order proposals are created or scheduled within the planning time fence.	FXHOR	-	-
	consumptionMode	string	The consumption mode controls the direction on the time axis in which the system consumes requirements. Can be backward or forward or any combination of the two. Backward consumption is about planned requirements that lie before the requirements date. Forward consumption is about planned requirements that lie after the requirements date.	VRMOD	-	-
	backwardConsumptionPeriod	string	Determines the consumption period in workdays for backward consumption. Consumes planned requirement quantities within the consumption period and before the requirements date.	VINT1	-	-
	forwardConsumptionPeriod	string	Determines the consumption period in workdays for forward consumption. Consumes planned requirement quantities within the consumption period after the requirements date.	VINT2	-	-
	lotSizeForCosting	number	Lot size for product costing used as a basis for costing the article.	LOSGR	-	-
	productionStorageLocation	string	The storage location that is copied to the planned order, process order, or the quantities of the article that are produced during a specified period. If article is a component, this is the issuing storage location that is backflushed on completion. If the article is a finished good, this is the receiving storage location for the goods receipt on the finished product.	LGPRO	-	-
	isInventoryAdjustment	boolean	Indicator that specifies whether inventory adjustments are allowed for the article. Valid values: • True - Inventory adjustments allowed for article • False - Inventory adjustments are NOT allowed for article	-	-	-
	cycleCountCode	string	Physical inventory cycle count code identifies an article that is subject to the cycle counting method of inventory. It also defines time intervals for taking a physical count for the article. Pass thru mapping.	ABCIN	-	-
	inventoryMoveSpeedCode	string	The speed that inventory in a location moves in and out of the warehouse. Optimizes warehouse space and inventory handling by placing fast moving articles in optimal locations for quick picking.	-	-	-
	isCountNearZero	boolean	Indicator that specifies whether a cycle count must be performed immediately if the article's inventory level drops below the threshold defined for a count near zero quantity. Valid values: • True - Cycle count automatic if near zero quantity reached • False - Cycle count NOT automatic for near zero quantity	-	-	-
	nearZeroQuantity	number	The unit quantity of the article where the inventory level hits the near zero threshold quantity.	-	-	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		varianceCode	string	Key that control variance calculations during the process of closing a period for cost centers, planned and process orders, product cost collectors, and cost hierarchies. The variance key is relevant for costing.	AWSLS	-	-
		exemptionCertificateCode	string	Exemption certificate for legal control. Specifies if a certificate has been applied for, or that already exists, that confirms the article does not require a license for import or export.	PRENC	-	-
		exemptionCertificateIdentifier	string	Exemption certificate identifier assigned by relevant authorities if exemption certificate exists or is approved.	PRENO	-	-
		exemptionCertificateDate	string	Date of exemption certificate in string date format YYYY-MM-DD.	PREND	-	-
		epochExemptionCertificateDate	number	Date of exemption certificate in epoch date format.	-	-	-
		planningStrategyGroup	string	Groups all planning strategies available for the article. The planning strategy represents the procedure used for planning a material controlled by the MRP types.	STRGR	-	-
		orderChangeProfile	string	Controls change management for production orders.	OCMPF	-	-
		plantStorageLocation	array	Storage locations for the article within the plant.	Segment E1MARDM	-	Segment QTY in LIN loop segment group 13
		processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		storageLocation	string	Storage location for the article within the plant. Each plant may contain one or more storage locations.	LGORT	-	-
		maintenanceStatus	string	Maintenance status for article plant and storage location master record	PSTAT	-	-
		reorderPointQuantity	number	Reorder point quantity for storage location within plant. If the stock of the article falls below this quantity, the system flags the article for requirements planning by creating a planning file entry.	LMINB	-	-
		replenishmentQuantity	number	Replenishment quantity for storage location MRP (articles resource planning). The quantity that must be ordered or produced if MRP is active for the storage location and if there is a shortage of the product in the storage location.	LBSTF	-	-
		forecastParametersForArticle	-	Forecast parameters for the article master.	Segment E1MPOPM	-	-
		processingFunctionTypeCode	string	Processing function code for forecasting parameters. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		modelSelectionCode	string	Forecast model selection indicator that specifies whether system checks values for a trend, seasonal fluctuations, or both.	MODAV	-	-
		forecastModel	string	The forecast model is used to calculate future requirements of the article.	PRMOD	-	-
		basicValueSmoothingFactor	number	Basic value smoothing factor used to update the basic value in the forecast model.	ALPHA	-	-
		trendValueSmoothingFactor	number	Trend value smoothing factor used to update the trend value in the forecast model.	BETA1	-	-
		seasonalIndexSmoothingFactor	number	Seasonal index smoothing factor used to update the seasonal index value in the forecast model.	GAMMA	-	-
		meanAbsoluteDeviationSmoothingFactor	number	MAD or mean absolute deviation smoothing factor used to update the mean absolute deviation value in the forecast model.	DELTA	-	-
		trackingDeviation	number	Specifies the maximum amount by which the forecast value may deviate from the actual value.	SIGGR	-	-
		forecastPeriod	string	Forecast period in which the article's consumption and forecast values are managed.	N/A	-	-
		periodIndicator	string	The period indicator specifies the periods in which the article's consumption values and forecast values are managed. This can be monthly, weekly, daily or based on the fiscal year variant.	PERKZ	-	-
		lastForecastDate	string	Date of the last forecast run for the article in string date format YYYY-MM-DD	PRDAT	-	-
		epochLastForecastDate	number	Date of the last forecast run for the article in epoch date format.	N/A	-	-
		numberHistoricalPeriods	number	Number of historical values used in the forecast.	PERAN	-	-
		numberInitializationPeriods	number	Number of historical values used in initialization.	PERIN	-	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		periodsPerSeasonalCycle	number	Number of periods per seasonal cycle if a season forecast model is used.	PERIO	-	-
		forecastPeriodSplits	number	Number of period splits for which a forecast should be created	ANZPR	-	-
		baseValue	number	Basic value of the forecast model that displays the historical level of the forecast model.	GWERT	-	-
		previousPeriodBaseValue	number	Basic value of the forecast model from the previous period.	VMGWE	-	-
		trendValue	number	The trend value in the forecast calculation represents the historical level of the forecast model.	TWERT	-	-
		previousPeriodTrendValue	number	The trend value for the forecast model in the previous period.	VMTWE	-	-
		meanAbsoluteDeviation	number	Mean absolute deviation is a measurement of error in the forecast as it deviates from the actual values of the forecast.	PRMAD	-	-
		previousPeriodMeanAbsoluteDeviation	number	Mean absolute deviation for the previous period of the forecast model.	VMMAD	-	-
		totalErrorAmount	number	The total amount of all forecast errors in a historical time series.	FSUMM	-	-
		previousPeriodTotalErrorAmount	number	The total amount of all forecast errors in the previous period.	VMFSU	-	-
		theilCoefficient	number	The theil coefficient is a statistical measure used to evaluate the accuracy of a forecast by comparing the relative error of a forecast to the error of a forecast that has not changed from the previous period.	THKOF	-	-
		exceptionMessage	string	Exception message code for forecast.	AUSNA	-	-
		forecastFlowControl	string	Determines how an article's future demand (forecasted quantity) is used to automatically generate procurement proposals, like purchase requisitions or production orders.	PROAB	-	-
		totalConsumptionForArticle	array	Total consumption of the article across one or more periods.	Segment E1MVEGM for total consumption	-	-
		processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		periodFirstDay	string	Date for the first day of the period for consumption of the article is being reported in string date format YYYY-MM-DD.	ERTAG	-	-
		epochPeriodFirstDay	number	Date for the first day of the period for consumption of the article is being reported in epoch date format.	N/A	-	-
		consumptionValue	number	Consumption value is either the total or the unplanned (with no reservations) consumption for the period.	VBWRT	-	-
		correctedConsumptionValue	number	Corrected consumption value is either the total or the unplanned consumption correction value for the period.	KOVBW	-	-
		correctedValueRatio	number	Ratio of the corrected value to the original value.	ANTEI	-	-
		unplannedConsumptionForArticle	array	Unplanned consumption of the article across one or more periods.	Segment E1MVEUM for unplanned consumption	-	-
		processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		periodFirstDay	string	Date for the first day of the period for consumption of the article is being reported in string date format YYYY-MM-DD.	ERTAG	-	-
		epochPeriodFirstDay	number	Date for the first day of the period for consumption of the article is being reported in epoch date format.	N/A	-	-
		consumptionValue	number	Consumption value is either the total or the unplanned (with no reservations) consumption for the period.	VBWRT	-	-
		correctedConsumptionValue	number	Corrected consumption value is either the total or the unplanned consumption correction value for the period.	KOVBW	-	-
		correctedValueRatio	number	Ratio of the corrected value to the original value.	ANTEI	-	-
		articleWarehouseAssignment	array	Warehouse assignment information for article in the article master record.	Segment E1MLGNM	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
	warehouseIdentifier	string	Identifier for warehouse linked to article master.	LGNUM	-	-
	isForDeletion	boolean	Deletion indicator for article. Valid values: • True - Article record flagged for deletion • False - Do not delete item (default)	LVORM X = true	-	-
	capacityUsage	number	Capacity usage triggers a capacity check in WMS based on storage type level.	MKAPV	-	-
	unitOfMeasure	string	Unit of measure for capacity usage. Quantity UOMs include: • CA - Case • CP - Crate • CT - Carton • DS - Display • DZ - Dozen • EA - Each • PH - Pack • PC - Piece • PF - Pallet • PK - Package • T3 - Thousand Pieces • TH - Thousand • TY - Tray • UN - Unit	BEZME	-	-
	loadingEquipmentCapacity	0...*	-	-	-	-
	loadingEquipmentQuantity	number	Loading equipment quantity is related to palletization. It is used to determine how to pack a pallet. For example, if the loading equipment quantity in the article master = 25, and 100 cartons need to be put into stock, the system would propose 4 pallets for packing.	LHMG1 LHMG2 LHMG3	-	-
	storageUnitType	string	Storage unit type. Mapping pass thru.	LETY1 LETY2 LETY3	-	-
	unitOfMeasure	string	Unit of measure for loading equipment capacity. Quantity UOMs include: • CA - Case • CP - Crate • CT - Carton • DS - Display • DZ - Dozen • EA - Each • PH - Pack • PC - Piece • PF - Pallet • PK - Package • T3 - Thousand Pieces • TH - Thousand • TY - Tray • UN - Unit	LHME1 LHME2 LHME3	-	-
	articlePricingValuation	array	Pricing valuation for the article.	Segment E1MBEWM	Segment CTP in LIN loop segment group 2200	Segment PRI in LIN loop segment group 14
	processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	isForDeletion	boolean	Deletion indicator for article. Valid values: True - article valuation record flagged for deletion False - Do not delete item (default)	LVORM X = true	-	-
	currencyCode	string	Currency for article master.	-	-	-
	pricingType	string	Pricing type for price sales catalog. Valid values include: • CATALOG - Catalog price • UNIT - Unit price • CHANGED - Price change • CONTRACT - Contract price • DISCOUNT - Discounted price • PROMOTION - Promotion price	-	CTP02 = • UCP - (UNIT) or • CAT - (CATALOG) or • CHG - (CHANGED) or • CON - (CONTRACT) or • DPR - (DISCOUNT) or • PRP - (PROMOTION)	PRI010-010 = "AAF" (catalog price) PRI010-030 = "CA" (Catalog) or "CT" (Contract) or "PE" (Each, unit)
	priceValue	Number	Price recorded in article master	-	CTP03	PRI010-020
	valuationArea	string	Valuation area determines how stocks of the article are priced, either at the company code or plant level.	BWKEY	-	-
	currentPeriodFiscalYear	string	Fiscal year for the current period.	LFGJA	-	-
	currentPostingPeriod	string	Current posting period for the article master.	LFMON	-	-
	validFromDate	string	Pricing condition valid from date.	-	CTP/DTM02 where DTM01 = "007" (effective date)	DTM010-020 where DTM010-010 = "157" (validity start date)
	epochValidFromDate	integer	Pricing condition valid from date generated in epoch integer date format. Each string date recorded will have an epoch date format generated by a java exit.	-	-	-
	validToDate	string	Pricing condition valid to date.	-	CTP/DTM02 where DTM01 = "VLU" (valid until)	DTM020-020 where DTM010-010 = "799" (validity end date)
	epochValidToDate	integer	Pricing condition valid to date generated in epoch integer date format.	-	-	-
	altUOMNumerator	string	Numerator is used to convert from an alternate unit of measure, ie, KG to a base unit of measure, ie, EA. The numerator is the number of units of the base UOM (EA) that corresponds to the number of units of the alternative UOM (KG). If 5 KG = 3 EA, 1 KG = 3/5 EA. 3 is the numerator. In most cases, this value will be 1.	-	CTP07	-
	futurePrice	number	The future standard price at which the article will be valued beginning on a specified date.	ZKPRS	-	-
	validityDate	string	Future date at which the future price will become valid in date format YYYY-MM-DD.	ZKDAT	-	-
	epochValidityDate	integer	Future date at which the future price will become valid in epoch date format.	N/A	-	-
	costingEstimateIdentifierProduct	string	Cost estimate identifier for product costing.	KALN1	-	-
	costingEstimateIdentifier	string	Cost estimate identifier for a cost estimate without a quantity structure.	KALNR	-	-
	articlePricingValuationCurrent	-	Details of pricing valuation for the article master record.	Segment E1MBEWM	Segment CTP in LIN loop segment group 2200	Segment PRI in LIN loop segment group 14
	valuationClass	string	Default value for the valuation class for valued stocks of this article. The valuation class has implications for how values of articles post to the same or different G/L accounts.	BKLAS	-	-
	priceControl	string	Indicates the price control procedure used to value the stock of a article. The following values are supported: • STANDARD • MOVINGAVERAGE	VPRSV = • S - (STANDARD) or • V - (MOVINGAVERAGE)	-	-
	movingAveragePrice	number	Moving average price for article, calculated by the ERP system by dividing the article value in the stock account by the total of all storage location stocks in the article plant. The price changes with each valuation-relevant movement. The valuation of stocks at moving average price means that the price of the article is adapted to the continual fluctuations in the procurement price.	VERPR	CTP03 where CTP02 = MAC	PRI020 where PRI010 = CAL (calculated)
	standardPrice	number	Standard price for the article. The valuation of article stocks at standard prices means that all goods movements are valued at the same price over an extended period.	STPRS	CTP03 where CTP02 = STA	PRI020 where PRI010 = AAF (information price, no allowances, charges or taxes)
	unitPriceBasisQuantity	string	Number of units of the article on which the price is based. For example, If 12 widgets are priced at \$12.00, the unit price basis quantity is 12.	PEINH	CTP04 - For each instance of moving or standard price	PRI050 - For each instance of moving or standard price
	articlePricingValuationPreviousPeriod	-	Details of pricing valuation for the article master record for the previous posting period	Segment E1MBEWM	-	-
	valuationClass	string	Default value for the valuation class for valued stocks of this article. The valuation class has implications for how values of articles post to the same or different G/L accounts.	VMBKL	-	-
	priceControl	string	Indicates the price control procedure used to value the stock of a article. The following values are supported: • STANDARD • MOVINGAVERAGE	VMVPR = • S - (STANDARD) or • V - (MOVINGAVERAGE)	-	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		movingAveragePrice	number	Moving average price for article, calculated by the ERP system by dividing the article value in the stock account by the total of all storage location stocks in the article plant. The price changes with each valuation-relevant movement. The valuation of stocks at moving average price means that the price of the article is adapted to the continual fluctuations in the procurement price.	VMVER	-	-
		standardPrice	number	Standard price for the article. The valuation of article stocks at standard prices means that all goods movements are valued at the same price over an extended period.	VMSTP	-	-
		unitPriceBasisQuantity	string	Number of units of the article on which the price is based. For example, if 12 widgets are priced at \$12.00, the unit price basis quantity is 12.	VMPEI	-	-
		articlePricingValuationPreviousYear	-	Details of pricing valuation for the article master record for the previous year.	Segment E1MBEWM	-	-
		valuationClass	string	Default value for the valuation class for valued stocks of this article. The valuation class has implications for how values of articles post to the same or different G/L accounts.	VJBKL	-	-
		priceControl	string	Indicates the price control procedure used to value the stock of a article. The following values are supported: • STANDARD • MOVINGAVERAGE	VJVR = • S - (STANDARD) or • V - (MOVINGAVERAGE)	-	-
		movingAveragePrice	number	Moving average price for article, calculated by the ERP system by dividing the article value in the stock account by the total of all storage location stocks in the article plant. The price changes with each valuation-relevant movement. The valuation of stocks at moving average price means that the price of the article is adapted to the continual fluctuations in the procurement price.	VJVER	-	-
		standardPrice	number	Standard price for the article. The valuation of article stocks at standard prices means that all goods movements are valued at the same price over an extended period.	VJSTP	-	-
		unitPriceBasisQuantity	string	Number of units of the article on which the price is based. For example, if 12 widgets are priced at \$12.00, the unit price basis quantity is 12.	VJPEI	-	-
		articleMasterTaxClassification	array	Article master tax classification information. Identifies tax country, condition and classification codes that will flow into relevant documents pulling the article from the article master.	Segment E1MLANM	-	-
		processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		country	string	ISO country code for the country from which the goods are sent. Identifies the country from which the delivery is sent.	ALAND	-	-
		taxCategoryCode	string	Tax category code. A technical value used to automatically determine country-specific taxes during pricing. One or more tax categories may be recorded for each country. SAP pass thru.	TATY1	-	-
		taxClassification	string	Tax classification. Determines output tax for the article when processing sales and distribution documents. Valid values include: • NOTAX • FULLTAX • HALFTAX • LOWTAX	TAXM1 = 0 - (NOTAX) or 1 - (FULLTAX) or 2 - (HALFTAX) or 3 - (LOWTAX)	-	-
		mpcDates	array	Dates relevant for article master line item details, X12 and EDIFACT.	-	Segment DTM in LIN loop	Segment DTM in LIN loop
		dateType	string	Date type at header level for inventory balance in date format YYYYMMDD and time format. (IDoc, X12) HHMMSS. Valid values: • EFFECTIVE • EXPIRATION • WARRANTY	-	DTM01 = • 007 (EFFECTIVE) or • 036 (EXPIRATION) or • 512 (WARRANTY) or	DTM010-010 = 7 (EFFECTIVE)

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	dateValue	string	Date defined by referenced date type in date format YYYY-MM-DD.	-	DTM02 where DTM01 = • 007 or • 018 or • 036 or • 097	DTM010-020 where DTM010-010 = • 77 or • 99 or • 3636 or • 44 44 or • 9797
	epochDateValue	integer	Date defined by referenced date type generated in epoch integer date format. Each string date recorded will have an epoch date format generated by a java exit.	-	-	-
	timeZone	string	Time zone for referenced dates.	-	-	-
	articleSalesData	array	Sales data for the article master record.	Segment E1MVKEM	-	-
	processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
	isForDeletion	boolean	Deletion indicator for article. Valid values: • True - Article valuation record flagged for deletion. • False - Do not delete item (default).	LVORM X = true	-	-
	salesOrganization	string	Sales organization responsible for the article	VKORG	-	-
	distributionChannel	string	Distribution channel responsible for the article	VTWEG	-	-
	itemCategory	string	Item category group for article master used during processing of sales documents.	MTPOS	-	-
	productHierarchy	string	Product hierarchy groups together articles by combining different characteristics	PRODH	-	-
	isCashDiscount	boolean	Cash discount indicator specifies whether a material qualifies for a cash discount. Valid values: • True - Cash discount • False - Does not qualify for cash discount	SKTOF	-	-
	minOrderQuantity	number	Minimum order quantity in base unit of measure. The minimum quantity of the material that a customer may order.	AUMNG	-	-
	minDeliveryQuantity	number	Minimum delivery quantity in delivery note processing. The minimum quantity of the material that may be delivered to a customer.	LFMNG	-	-
	minMakeToOrderQuantity	number	Minimum make-to-order quantity. The minimum quantity of the material that may be made to an order from a customer.	EFMNG	-	-
	exemptionStatus	array	This segment is intended to convey DSCSA exemption status of a given product and should only be populated when the manufacturer or repackager has determined that the product is exempt under the statute or has obtained a waiver, exception, or exemption (WEE) from FDA.	-	YNQ - Yes / No Question	-
	statementConfirmation	boolean	Field to capture confirms or denies the exemption status. • True - Statement is confirmed • False - Statement is denied	-	YNQ02 (true=Y, false=N)	-
	dateType	string	Exemption Date type format qualifier. The valid value is DATERANGE.	-	YNQ03	-
	dateValue	string	Exemption date range in format CCYYMMDD-CCYYMMDD.	-	YNQ04	-
	description	string	Notification text that sender describe what DSCSA requirements is excused from.	-	YNQ05	-
	exemptionCodeType	string	Code type identifying industry code. The valid value is COVERAGECODE.	-	YNQ08 COVERAGECODE = CV	-
	exemptionCode	string	Code identifying Industry code. Valid values • FDAEXEMPTION - A waiver, exception, or exemption has been granted by FDA for a product • STATUTORYEXEMPTION - The product is exempt by statutory definition • NOTEXEMPT - Not Exempt	-	YNG09 • FDAEXEMPTION - WEE • STATUTORYEXEMPTION - SE • NOTEXEMPT - NE	-
	articlePackageStructure	array	Pricing valuation for the article.	-	-	-
	palletIdentifierCode	-	Pallet identifier code.	-	-	-
	packagingCodeLevel	string	Packaging code level. The valid value for pallet is PL.	-	-	-
	packagingIdentifier	string	Pallet identifier code.	-	-	-
	barcode	string	Pallet bar code number.	-	-	-
	caseIdentifierCode	-	Case or carton identifier code.	-	-	-
	packagingCodeLevel	string	Packaging code level. The valid value for case is CA.	-	-	-
	packagingIdentifier	string	Case or carton identifier code.	-	-	-
	barcode	string	Case or carton bar code number.	-	-	-
	innerPackIdentifierCode	-	Inner pack identifier code.	-	-	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		packagingCodeLevel	string	Packaging code level. The valid value for inner pack is PK.	-	-	-
		packagingIdentifier	string	Inner pack identifier code.	-	-	-
		barcode	string	Inner pack bar code number.	-	-	-
		packageStructureCode	string	Code that identifies a package and describes its packaging dimensions and units of measure for the article.	-	-	-
		isDefaultPackageDisplayed	boolean	Flag that indicates whether the package is displayed by default when the article is displayed. Only one package may be defined as the default displayed package. Valid values: • True - Package is displayed as default • False - Package is NOT displayed	-	-	-
		palletTierCount	number	Number of layers or tiers per pallet.	-	-	-
		casesPerPalletTier	number	Number of cases typically loaded onto each tier or layer of a pallet or pallet equivalent UOM for the article's packaging.	-	-	-
		palletUnitCount	number	Number of units per pallet.	-	-	-
		cartonUnitCount	number	Number of units per carton.	-	-	-
		innerPackPackagingLevel	string	Packaging level for the inner pack or the less than case quantity that consists of multiple saleable units of the article packed together. This could also refer to the number of units per pack instead of inner pack.	-	-	-
		casePackagingLevel	string	Packaging level code for the case for the article or for the sub pallet level node.	-	-	-
		palletLayerPackagingLevel	string	Packaging level code that represents a single layer of the article on a pallet in inventory, typically the number of cases on the pallet layer.	-	-	-
		palletPackagingLevel	string	Packaging level code that represents the highest packaging level for the article, typically the pallet.	-	-	-
		defaultReceiptPackagingLevel	string	The default packaging level code used to receive, add, or change the article in inventory.	-	-	-
		baseInventoryPackagingLevel	string	The lowest level packaging level code used to store the article in inventory.	-	-	-
		maximumPalletStackHeight	number	Maximum number of pallets that may be stocked on top of each other in a location. Does not apply to stacking pallets in transport equipment configured for storage.	-	-	-
		defaultPackagingUnitType	string	Default packaging unit or container type applied when a pallet of inventory for the article packaging structure is received. Packaging unit type groups platforms or containers (ie pallets or cases) with common characteristics such as size and weight, also whether serialized or temporary.	-	-	-
		nestingDimensions	-	Nesting dimension height, length, width for article packaging.	-	-	-
		nestingLength	number	Nesting length for article packaging.	-	-	-
		nestingHeight	number	Nesting height.	-	-	-
		nestingWidth	number	Nesting width.	-	-	-
		nestingDepth	number	Nesting depth.	-	-	-
		unitOfMeasure	string	Unit of measure for dimension value	-	-	-
		packagingStructureDescriptions	array	Packaging structure descriptions.	-	-	-
		processingFunctionTypeCode	string	Processing function code at the line item level.	-	-	-
		productLanguageCode	string	ISO language code for product description.	-	-	-
		productName	string	Product name or short description for article.	-	-	-
		productDescription	string	Description of the product defined by the current product identifier.	-	-	-
		articlePackageStructureDetails	array	Packaging structure descriptions.	-	-	-
		packagingLevelCode	string	Package code at the detail level that represents the packaging level.	-	-	-
		quantity	number	Quantity of an article or packaging unit contained for the next lower level. If the package structure has pallet, case, and eaches, the quantity is for the number of cases. If the package structure is case and eaches, the quantity is for eaches.	-	-	-
		grossWeight	number	Gross weight of article package that includes its packaging.	-	-	-
		netWeight	number	Weight of the article package that excludes its packaging.	-	-	-
		unitOfMeasure	string	Unit of measure for gross and net weight values.	-	-	-
		isCartonizePicking	boolean	Cartonized picking flag specifies whether the packaging level can be picked to a carton, an allocation process that determines which picks can be packed together in cartons for shipment. Valid values: • True - Cartonized picking is allowed for article packaging level • False - Cartonized picking is NOT allowed	-	-	-
		isBulkPicking	boolean	Bulk picking flag specifies whether the packaging level can be aggregated for bulk picking, which allocates matching inventory for multiple orders together into bulk picks to reduce the number of smaller picks. Valid values: • True - Bulk picking is enable for article packaging level. • False - Bulk picking is NOT enabled.	-	-	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		thresholdPicking	number	The minimum percentage value of the article packaging level capacity that a package must contain to qualify as a threshold pick. Used to satisfy an order with a less than full platform quantity. For example, a full pallet consists of 10 cartons. An order requires only 9. Threshold picking allows the operator to pick the full pallet and then remove one case, rather than pick 9 cases separately.	-	-	-
		packagingDimensions	-	Packaging dimensions at article packaging details level.	-	-	-
		packagingLength	number	Packaging length at article packaging details level.	-	-	-
		packagingHeight	number	Packaging height at article packaging details level.	-	-	-
		packagingWidth	number	Packaging width at article packaging details level.	-	-	-
		packagingDepth	number	Packaging depth at article packaging details level.	-	-	-
		unitOfMeasure	string	Unit of measure for dimension value.	-	-	-
		extendedFreeTextHeader	array	Extended free text for material master data.	Segment E1MTXHM	Segment MTX in LIN loop	Segment FTX in LIN loop
		processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		textApplicationObject	string	Application object linked to free text message(s).	TDOBJECT	-	-
		textObjectName	string	Name of text application object.	TDNAME	-	-
		textObjectIdentifier	string	Text object identifier.	TDID	-	-
		language	string	One character language code for text.	TDSPRAS	-	-
		languageCode	string	ISO language code.	SPRAS_ISO	MTX06	-
		extendedFreeTextDetails	array	Header group for pricing conditions and pricing.	segment E1MTXLM	Segment MTX in LIN loop	Segment FTX in LIN loop
		processingFunctionTypeCode	string	Processing function code at the line item level. Valid values: • CHANGE • REPLACE • ORIGINAL • DELETE • DONOTIMPORT • RESEND	MSGFN = • 003 - (DELETE) or • 004 - (CHANGE) or • 005 - (REPLACE) or • 009 - (ORIGINAL) or • 023 - (DONOTIMPORT) or • 018 - (RESEND)	-	-
		textFormatCode	string	Format code for free text.	TDFORMAT	-	-
		freeFormText	string	Free text string.	TDLINE	MTX02	FTX040-010
		customFields	array	Name value pairs for mapping pass through elements that will not be processed in TL system but may be passed outbound. Line item level.	-	-	-
		name	string	Name of mapped field.	-	-	-
		value	string	Value in named field.	-	-	-
		canonicalArticleMasterSummary	array	Summary totals for article master.	-	CTT	-
		summaryType	string	Summary type for the payment remittance advice. The valid value is NUMBEROFITEMS.	-	CTT01	-
		summaryValue	string	Summary value.	-	CTT02	-
		summaryValueUnit	string	Summary value unit of measure.	-	CTT04	-

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