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Home
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Application advice canonical guidelines

The Application Advice transaction provides structured, actionable feedback about the outcome of business-level validation for previously received EDI transactions such as invoices, purchase orders, shipment notifications, and sales reports. It is a key tool in ensuring clarity, accountability, and alignment between trading partners.

Canonical guidelines

Canonical Element	Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
Canonical Element	-	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.	-	-	-
canonicalApplicationAdviceHeader	-	Header details for the canonical Application Advice message.	-	BGN	-
processingFunctionTypeCode	string	Processing function, transaction set purpose code. Required for X12, optional for Idoc and EDIFACT. Valid values include RESPONSE.	-	BGN01 = 11 (RESPONSE)	BGM030 = 11 (RESPONSE)
acknowledgementCode	string	Application acknowledgment code. Identifies processing status of the original transaction in the system that sent. Valid values include: - ACCEPTED - Transaction set accepted - ACCEPTEDWITHERRORS - Transaction set accepted with errors - REJECTED - Transaction set rejected	-	-	BGM040 = - ACCEPTED (AP) Or - REJECTED (RE)
transactionReferenceIdentifierList (1)	-	Unique transaction identifier and its date.	-	segment BGN	segment BGM
b2bTransactionIdentifierType	string	Referenced document type. Valid value APPLICATIONADVICE (required).	-	-	Set BGM010-010 to 305 (Application Advice) where b2bTransactionIdentifierType = APPLICATIONADVICE

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	b2bTransactionIdentifierValue	string	Transaction identifier for application advice.	-	BGN02 (Mandatory) where b2bTransactionIdentifierType = APPLICATIONADVICE	BGM020-010 where b2bTransactionIdentifierType = APPLICATIONADVICE
	transactionDate	string	Date transaction created.	-	BGN03(Mandatory) + BGN04 (If exists)	DTM020 when DTM010-010 = 137
	epochTransactionDate	integer	Date transaction created in epoch integer date format.	-	-	-
	lineItemNumber	string	Line item number in customer purchase order. Line item level only.	-	-	-
	transactionReferenceIdentifierList (2)	array	Place holder to provide the necessary identification information about the document being acknowledged. Practically application advice can be sent for any business transaction.	-	-	segment group DOC loop
	b2bTransactionIdentifierType	string	Referenced document type. Valid values include: • SHIPPINGINSTRUCTION - Shipping instruction • CREDITMEMO - Credit memo • DEBITMEMO - Debit memo • PAYMENT - Payment advice	-	-	DOC010-010 = • 304 (SHIPPINGINSTRUCTION) or • 381 (CREDITMEMO) or • 383 (DEBITMEMO) or • 450 (PAYMENT)
	b2bTransactionIdentifierValue	string	Transaction identifier of original transaction.	-	-	DOC020-010
	transactionDate	string	Original transaction date.	-	-	DOC/DTM02 where DTM010 = 137 (Doc issue date)
	epochTransactionDate	integer	Date transaction created in epoch integer date format.	-	-	-
	lineItemNumber	string	Line item number. Used in Line item level only.	-	-	-
	transactionReferenceInformation	array	Reference information for identifiers that are not related to transaction documents. This group would map to X12 segments REF, L11 and N9 and EDIFACT RFF for information other than transaction documents.	-	-	RFF Loop
	transactionReferenceType	string	Transaction reference type for X12 segments REF, L11 and N9 and EDIFACT RFF for general reference data that is not a transaction document identifier. Valid values include: • ORIGINALMESSAGEREFERENCE - Message Reference Number (CL 0062, UNH010) to previous message • PREVIOUSMESSAGEREFERENCE - Document identifier (CL 1004, BGM020-010) to previous message	-	-	RFF010-010
	transactionReferenceIdentifier	string	Transaction reference identifier value.	-	-	RFF010-020
	description	string	Identifier or description defined by qualifier code in transactionReferenceIdentifier (REF02).	-	-	-
	transactionReferenceDate	string	Transaction reference date and time/ if time available/ in date format YYYY-MM-DD or YYYY-MM-DDTHH:MM:SS.nnnZ if time available.	-	-	-
	epochTransactionReferenceDate	integer	Transaction reference date and time in EPOCH date time format.	-	-	-
	mpcDates	array	Dates relevant for referenced document.	-	-	RFF Loop/ DTM Loop
	dateType	string	Date type at header level for Application Advices in date format YYYYMMDD and time format (IDoc, X12) HHMMSS. Valid values DOCUMENT - Document date.	-	-	DTM010-010 = 137 (DOCUMENT)

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.	-	-	DTM010-020
		epochDateValue	integer	Date defined by referenced date type generated in epoch integer date format.	-	-	-
		dateTimePeriodFormat	string	Code specifying representation of date or time or format presented in date value, Valid values include: - CCYYMMDD - Date format century year month day, 2 characters each - CCYYMMDDHHMM - Date format century year month day hour minutes, 2 characters each	-	-	DTM010-030
		timeZone	string	Time zone for referenced dates.	-	-	-
		mpcDates	array	Dates relevant for Application Advices at header.	-	-	DTM
		dateType	string	Date type at header level for Application Advices in date format YYYYMMDD and time format (IDoc, X12) HHMMSS. Valid values DOCUMENT - Document date	-	-	DTM010-010 = 137 (DOCUMENT)
		dateValue	string	Date defined by referenced date type in date format YYYY-MM-DD. Transform will pass thru whatever it finds in IDoc date and time fields.	-	-	DTM010-020
		epochDateValue	integer	Date defined by referenced date type generated in epoch integer date format.	-	-	-
		dateTimePeriodFormat	string	Code specifying representation of date or time or format presented in date value, Valid values include: - CCYYMMDD - Date format century year month day, 2 characters each - CCYYMMDDHHMM - Date format century year month day hour minutes, 2 characters each	-	-	DTM010-030
		timeZone	string	Time zone for referenced dates.	-	-	-
		partnerBusinessInformation	array	Party company identifiers and address information.	-	N1 Loop	NAD Loop
		businessPartyInformation	-	Business Parties identifiers and address information.	-	N1	-
		partnerEntityType	string	Denotes type of the entity involved in this business transaction. valid values include: - SENDER - Message sender - RECEIVER - Message receiver	-	N101	NAD01
		businessName	string	Business name for partner or location.	-	N102	NAD040-010
		additionalBusinessName	string	Additional Business name for partner or location.	-	N201	-
		companyLocationPartnerName	string	Additional Location of same Business partner.	-	-	-
		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 EDIFACT supported codes: - DUNS - 16 - DEA - 164 - HIN - 21 - COMPANYID - 91 - COMPANYSITEID - 92
		companyIdentifierValue	string	Company identifier value for business partner.	-	N104	NAD020-010

Canonical Element				Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
			alternateCompanyLocationIdentifierValue	string	Alternate company location identifier value.	-	-	-
			address	-	Party address information.	-	N3, N4,	
			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	-	-	-	N1-PER	CTA
			contactType	string	Contact type. Valid values include: • INFORMATION - Information contact • PRIMARY - Primary contact • RESPONSIBLE - Responsible person	-	PER01 = IC (INFORMATION)	CTA010 = IC (INFORMATION)
			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"
			mpcAdditionalAddressInformation	-	Additional address information that is not included in addressTypeDefinition.	-	-	-
			externalERPUserName	string	External ERP system user name for user who generated message.	-	-	-
			organizationCode	string	Code for organization responsible for generating the message.	-	-	-
			organizationDescription	string	Description of the organization responsible for generating the message.	-	-	-
			groupCode	string	Code identifying group responsible for generating the message.	-	-	-
			language	string	Language key for message.	-	-	-
			languageCode	string	ISO language code for message.	-	-	-
			referenceIdentifier	string	Partner reference identifier.	-	-	-
			orderType	string	Order Type.	-	-	-
			address3	string	Additional address information that is not included in addressTypeDefinition.	-	N202	-
			address4	string	Additional address information that is not included in addressTypeDefinition.	-	-	-
			postalArea	string	Postal Area.	-	-	-
			timeZone	string	Time zone for referenced dates.	-	-	-
			telephone	string	Telephone Number.	-	-	-
			emailAddress	string	Email Address.	-	-	-
			vatRegistrationNumber	string	Vat Registration Number.	-	-	-
			taxExemptCode	string	Tax exempt Code.	-	-	-
			locationType	string	Business Partner Location Type.	-	N405	-
			locationIdentifier	string	Business Partner location Identifier.	-	N406	-
			countrySubDivisionCode	string	Describes the country subdivision.	-	N407	-

Canonical Element			Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
		transactionReferenceInformation	array	Reference information for identifiers that are not related to transaction documents. This group would map to X12 segments REF and N9 and EDIFACT RFF for information other than transaction documents.	-	loop REF	-
		transactionReferenceType	string	Transaction reference type for X12 segments REF and N9 and EDIFACT RFF for general reference data that is not a transaction document identifier. Valid values include INTERNALVENDORNUMBER - Internal vendor number	-	REF01 = IA (INTERNALVENDORNUMBER)	-
		transactionReferenceIdentifier	string	Transaction reference identifier value.	-	REF02	-
		description	string	Identifier or description defined by qualifier code in transactionReferenceIdentifier. HAD usage description: This element can contain any optional notes or comments pertaining to an original or resubmitted line on a chargeback.	-	REF03	-
		transactionReferenceDate	string	Transaction reference date and time, if time available, in date format YYYY-MM-DD or YYYY-MM-DDTHH:MM:SS.nnnZ if time available.	-	-	-
		epochTransactionReferenceDate	integer	Transaction reference date and time in EPOCH date time format.	-	-	-
		freeTextNote	array	Free form instructions (Some of EDIFACT customers using free text for sending error information as well.)	-	-	FTX
		textReferenceCode	string	Text reference or subject code.	-	-	FTX01
		textFunctionCode	string	Text function code.	-	-	FTX02
		language	string	Language of free text.	-	-	FTX05
		textFormatCode	string	Format code for free text.	-	-	FTX06
		freeFormText	string	Free test string.	-	-	FTX04
		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.	-	-	-
		canonicalApplicationAdviceItemDetails	array	Line item details for canonical Application Advice message.	-	OTI Loop (Mandatory)	ERC Loop
		lineItemNumber	string	Transaction set line number.	-	-	-
		acknowledgementCode	string	Application acknowledgment code. Identifies processing status of the original transaction in the system that sent the 824. Valid values include: - TA - Transaction set accepted - TE - Transaction set accepted with errors - TR - Transaction set rejected	-	OTI01	-
		b2bTransactionIdentifierType	string	Transaction reference number qualifier. Valid value TN - Transaction Reference Number.	-	OTI02	-
		b2bTransactionIdentifierValue	string	Reference Identification defined for a particular Transaction Set. Identifies the transaction within the business application, such as the document number. For example If reporting errors on an 856, this should reference the ASN ship notification document number.	-	OTI03	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	groupSenderNumber	string	Application Sender's Code. Identifies the sender (GS02 sender) of the original transaction that the 824 is reporting on.	-	OTI04	-
	groupReceiverNumber	string	Application Receiver's Code. Identifies the sender (GS03 receiver) of the original transaction that the 824 is reporting on.	-	OTI05	-
	dateValue	string	Transaction date in format YYYY-MM-DDTHH:MM:SS from the GS04 & GS05 date and time field in the original transaction that the 824 is reporting on.	-	OTI06 & OTI07	-
	groupControlNumber	string	Group Control Number from the GS06 field of the original transaction that the 824 is reporting on.	-	OTI08	-
	transactionSetControlNumber	string	Transaction Set Control Number from the ST02 field of the original transaction that the 824 is reporting on.	-	OTI09	-
	transactionCode	string	X12 transaction set code from the ST02 field of the original transaction that the 824 is reporting on. For example valid value for the ASN: 856.	-	OTI10	-
	transactionReferenceIdentifierList	array	List of documents and transactions referencing at the item level of the message.	-	REF	-
	b2bTransactionIdentifierType	string	Referenced document type. Valid values include: • SHIPPINGINSTRUCTION - Shipping instruction • CREDITMEMO - Credit memo • DEBITMEMO - Debit memo • PAYMENT - Payment advice	-	REF01 = • BM (BOL) Or • PO (PURCHASEORDER) Or • VN (SUPPLIERORDER) Or • MB (MASTERBOL)	-
	b2bTransactionIdentifierValue	string	Transaction reference identifier value.	-	REF02	-
	transactionDate	string	Transaction reference date and time, if time available, in date format YYYY-MM-DD or YYYY-MM-DDTHH:MM:SS.nnnZ if time available.	-	REF04 & 05	-
	epochTransactionDate	string	Transaction reference date and time, if time available, in epoch date format.	-	-	-
	lineItemNumber	integer	Transaction reference date and time in EPOCH date time format.	-	-	-
	transactionReferenceInformation	array	Reference information for identifiers that are not related to transaction documents. This group would map to X12 segments REF, L11 and N9 and EDIFACT RFF for information other than transaction documents.	-	REF	-
	transactionReferenceType	string	Transaction reference type for X12 segments REF, L11 and N9 and EDIFACT RFF for general reference data that is not a transaction document identifier. Valid values include BOOKINGIDENTIFIER - Booking confirmation number .	-	REF01	-
	transactionReferenceIdentifier	string	Transaction reference identifier value.	-	REF02	-
	description	string	Identifier or description.	-	REF03	-
	transactionReferenceDate	string	Transaction reference date and time/ if time available/ in date format YYYY-MM-DD or YYYY-MM-DDTHH:MM:SS.nnnZ if time available.	-	REF04 & 05	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	epochTransactionReferenceDate	integer	Transaction reference date and time in EPOCH date time format.	-	-	-
	mpcDates	array	Dates relevant to transaction set to uniquely identify origin transaction / reference transaction set that this Application advice (824) is generating.	-	DTM	-
	dateType	string	Date type related to application advice in date format YYYYMMDD and time format (IDoc/ X12) HHMMSS. Valid values include DOCUMENT - Document date.	-	DTM01	-
	dateValue	string	Date defined by referenced date type in date format YYYY-MM-DDTHH-MM-SSZ.	-	DTM02 & DTM03	-
	epochDateValue	integer	Date defined by referenced date type generated in epoch integer date format.	-	-	-
	timeZone	string	Time zone for referenced dates.	-	DTM04	-
	referenceTransactionAmount	array	Original transaction amount for which 824 is being generated Notes: which will be used to uniquely identify original transaction in sender system.	-	OTI-AMT	-
	amountType	string	Amount type for application advice item. Valid values include TOTAL - Total transaction amount.	-	AMT01	-
	pricingAmount	string	Net or extended price claimed for return including total disbursements, plus interest and minus deductions from claim.	-	AMT02	-
	isCreditOrDebit	boolean	Credit or debit boolean. Only populated if identified. Valid values: • True - Credit • False - Debit Not populated (default)	-	AMT03	-
	referenceTransactionQuantity	array	Original transaction quantity for which 824 is being generated Notes: which will be used to uniquely identify original transaction in sender system.	-	OTI-QTY	-
	quantityType	string	Type of quantity recorded. Valid values include TOTAL - Total Quantity.	-	QTY01 = TO (TOTAL)	-
	quantityValue	number	Quantity of product required for planning.	-	QTY02	-
	unitOfMeasure	string	Unit or Basis for Measurement Code. Unit of entry UOM's include UN - Unit.	-	QTY03	-
	technicalErrorDetails	array	Technical Error Description looping segment. Identifies the error in the original transaction being reported on. Child of ErrorReport loop.	-	TED	ERC Loop
	applicationErrorCode	string	Application error condition code describing the error condition in the original transaction.	-	TED01	ERC010-010 (Shoud be pass through)
	description	string	Free-form Message. Short description of the error for the error code in ApplicationErrorCode, and in conjunction with the long description listed in Comments.	-	TED02	-
	segmentIdentifier	string	Segment ID Code. Identifies segment in orginal transation that triggered an error.	-	TED03	-
	segmentPosition	string	Segment Position in Transaction Set. The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1.	-	TED04	-

Canonical Element		Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
	elementPosition	string	Position in Segment. Code indicating the relative position of the error data element within a segment, count beginning with 1 for position immediately after the segment ID. Also indicates: 1. Relative position of a repeating structure in error, beginning with 1 for the position immediately after the preceding element separator. 2. Relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator.	-	TED05-01	-
	componentPosition	string	Component position.	-	TED05-02	-
	loopIdentifier	string	Loop identifier.	-	TED05-03	-
	badDataElement	string	Copy of the bad data element. Data from the data element that is in error.	-	TED07	-
	freeTextNote	array	Free text notes or special instructions.	-	NTE	ERC Loop/ FTX
	textReferenceCode	string	Text reference or subject code.	-		FTX01
	textFunctionCode	string	Text function code.	-	NTE01	FTX02
	language	string	Language of free text.	-	-	FTX05
	textFormatCode	string	Format code for free text.	-	-	FTX06
	freeFormText	string	Free test string.	-	NTE02 (Mandatory)	FTX04
	referenceBusinessData	array	Contains the business data value and classification associated with a validation result or application acknowledgment. This structure identifies the specific field or transaction data element from the originating document that is being referenced due to an error or advisory condition. Used to correlate the application advice message back to the source business content.	-	RED	-
	referenceDataValue	string	Represents the actual business value or descriptive information, being referenced or cited in connection with a validation message or application result. This value indicates which specific field or transaction content is associated with the reported condition.	-	RED01	-
	referenceDataTypeCode	string	Identifies the nature or classification of the business data referenced due to a validation or application edit result. The value corresponds to standardized codes (e.g., PO Number, Unit Price, GTIN, Quantity). Only one code is allowed and at least one must be present when reporting referenced business data.	-	RED02	-
	agencyCode	string	Identifies the agency maintaining the code list identified.	-	RED03	-
	codeListQualifier	string	Identifies code list used for the value in industryCode.	-	RED05	-
	industryCode	string	Code for industry relevant to the specific type of application data mentioned in reference data value.	-	RED06	-
	transactionReferenceInformation	array	Reference information for identifiers that are not related to transaction documents. This group would map to X12 segments REF and N9 and EDIFACT RFF for information other than transaction documents.	-	-	-

Canonical Element				Type Definition	Description	IDoc mapping	X12 mapping	EDIFACT mapping
			transactionReferenceType	string	Transaction reference type for X12 segments REF and N9 and EDIFACT RFF for general reference data that is not a transaction document identifier.	-	-	-
			transactionReferencelIdentifier	string	Transaction reference identifier value.	-	-	-
			description	string	Identifier or description defined by qualifier code in transactionReferencelIdentifier (REF02).	-	-	-
			transactionReferenceDate	string	Transaction reference date and time/ if time available/ in date format YYYY-MM-DD or YYYY-MM-DDTHH:MM:SS.nnnZ if time available.	-	-	-
			epochTransactionReferenceDate	integer	Transaction reference date and time in EPOCH date time format.	-	-	-
			freeTextNote	array	Place holder to provide free text information, however in EDIFACT it is being used to send line level supplementary error information, like generic error code and error description.	-	-	-
			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 test string.	-	-	-
			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.	-	-	-
			freeTextNote	array	Free text, instructions, notes, descriptions and other free text elements.	-	-	-
			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 test string.	-	-	-
			customFields	array	Name value pairs for mapping pass through elements that will not be processed in TL system but may be passed outbound. Header level.	-	-	-
			name	string	Name of mapped field.	-	-	-
			value	string	Value in named field.	-	-	-

Related Content



Application advice (X12)

The Application Advice transaction provides structured, actionable feedback about the outcome of business-level validation for previously received EDI transactions such as invoices, purchase orders, shipment notifications, and sales reports.

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The Application Advice transaction provides structured, actionable feedback about the outcome of business-level validation for previously received EDI transactions such as invoices, purchase orders, shipment notifications, and sales reports.

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Application Advices

Application advices are bi-directional transactions that communicate the results of application-level business validations for previously received EDI transactions.

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