


7 Appendix: Vetdata - Supplier invoice format "SAP IDoc"

Invoices are provided by suppliers. The data must be delivered in a structured form (XML) as well as a PDF/A (for display). This document part describes all XML elements used by "Vetdata" and structured according the "SAP/IDoc" format. To use this format the schema value (xmlDataSchema) **vetdata_invoice_sap_1.0.xsd** have to be specified in the SOAP request.

7.1 Logical content of an invoice to Vetdata in SAP/IDoc format


The content of a structured invoice for Vetdata is described below. Ideas of the content come from <https://swissdigin.gs1.ch/home/standard/inhaltsstandard> This defines the content, but not the form.

Fields marked with  are fields which are not provided in Swissdigin but are required for Vetdata.


Remarks (to the "IDoc Path"):

- the full path (according the column "IDoc Path/Field") starts with the prefix /Z_INVOIC02_CHE/IDOC[@BEGIN=1]
- the value ["S1"] means =[@SEGMENT=1] (first segment)

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
IB01	document type	String(3)	mandatory	Describes the document type: - Invoice (Vetdata format = '380'): 'YF2' = Standard Invoice 'YS2' = Cancel of Credit Memo 'YL2' = Value Debite Note 'YL3' = Quantity Debite Note - Credit note (Vetdata format = '381'): 'YS1' = Cancel Invoice 'YG3' = Quantity Credit Note 'YG2' = Value Credit Note	/E1EDK14[@S1]/QUALF[015]/../ORGID
IB02	document identifier	Long (max 12 digits)	mandatory	Sequential number assigned by the biller, which uniquely identifies the invoice / credit note (max 12 digits)	/E1EDK01[@S1]/BELNR
IB03	document issue date	Date	mandatory	ISO 8601 (YYYYMMDD, e.g. 20190620)	/E1EDK03[@S1]/IDDAT[012]/../DATUM
IB04	document currency	String(3)	mandatory	currency in ISO-Standard 4217, at the moment only 'CHF' is accepted	/E1EDK01[@S1]/CURCY

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
IB05	 TVS supplier number	Integer	mandatory	three-digit number	not provided in SAP/IDoc; will be managed by the VETdata application (supplier master data attribute)
IB06	tax identification number	String(20)	mandatory	VAT number under which the biller has carried out the delivery resp. has rendered the service. The format for the electronic data transmission is without suffix (example): "CHE123456789"	not provided in SAP/IDoc; will be managed by the VETdata application (supplier master data attribute)
IB07	legal name of company	String(255)	mandatory	Name and adress have to comply with the data in the commercial or tax register.	E1EDKA1[@S1]/PARVW[RS]/../NAME1;2;3;4
IB08	address1	String(255)	mandatory	Freetext	E1EDKA1[@S1]/PARVW[RS]/../STRAS
IB08	address2	String(255)	optional	Freetext	not provided in SAP/IDoc
IB08	address3	String(255)	optional	Freetext	not provided in SAP/IDoc
IB09	city name	String(255)	mandatory	Freetext	E1EDKA1[@S1]/PARVW[RS]/../ORT01
IB10	zip/postal code	Integer	mandatory	Number	E1EDKA1[@S1]/PARVW[RS]/../PSTLZ
IB11	country	String(2)	mandatory	country code in ISO-Standard 3166-1 (e.g. 'CH', 'DE', etc.).	E1EDKA1[@S1]/PARVW[RS]/../LAND1


7.2 Information on customer

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
IC01	 TVS customer number	Integer	mandatory	The four-digit TVS customer number	substring(E1EDKA1[@S1]/PARVW[AG]/../ILNNR,4,4)
IC02	customer number in seller system	String(255)	mandatory	Freetext	E1EDKA1[@S1]/PARVW[AG]/../PARTN
IC03	legal name of company	String(255)	mandatory	Name and adress have to comply with the data in the commercial or tax register	E1EDKA1[@S1]/PARVW[AG]/../NAME1!2!3!4
IC04	address1	String(255)	mandatory	Freetext	E1EDKA1[@S1]/PARVW[AG]/../STRAS
IC04	address2	String(255)	optional	Freetext	not provided in SAP/IDoc
IC04	address3	String(255)	optional	Freetext	not provided in SAP/IDoc
IC05	city name	String(255)	mandatory	Freetext	E1EDKA1[@S1]/PARVW[AG]/../ORT01
IC06	zip/postal code	Integer	mandatory	Number	E1EDKA1[@S1]/PARVW[AG]/../PSTLZ
IC07	country	String(2)	mandatory	country code in ISO-Standard 3166-1 (e.g. 'CH', 'DE', etc.).	E1EDKA1[@S1]/PARVW[AG]/../LAND1

7.3 General information

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
GI01	date of delivery	Date	mandatory	ISO 8601 (YYYYMMDD, e.g. 20190620)	/E1EDP03[@S1]/IDDAT[027]/../DATUM
GI02	order reference of customer	String(255)	optional	Freetext, e.g. Vetpoint order number, e.g. "6'036'413"	/E1EDK02[@S1]/QUALF[001]/../BELNR
GI03	order date	Date	optional	ISO 8601 (YYYYMMDD, e.g. 20190620)	/E1EDK02[@S1]/QUALF[001]/../DATUM

7.4 Payment information

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
PI01	 payable by TVS	Boolean	mandatory	'True' if partner-number represents "TVS" (the invoice has to be paid by TVS=, 'False' otherwise)	boolean(/E1EDKA1[@S1]/PARVW[RG]/../PARTN = '0039500000') the value in this comparison will be managed by the VETdata application (supplier master data attribute)
PI02	payment terms	String(600)	optional	Free text element	/E1EDK18[@S1]/QUALF[001]/../ZTERM_TXT
PI03	payment period	Integer	optional	Number of days within which the invoice has to be settled	/E1EDK18[@S1]/QUALF[001]/../TAGE
PI04	due date	Date	optional	ISO 8601 (YYYYMMDD, e.g. 20190620)	/E1EDK03[@S1]/IDDAT[028]/../DATUM
PI05	settlement discount rate	Decimal	optional	Percentage rate of settlement discount (between 0.00 and 100.00)	not provided in SAP/IDoc
PI06	due date of settlement discount	Date	optional	Date until which it is allowed to deduct the stipulated settlement discount rate. Format: ISO 8601 (YYYYMMDD, e.g. 20190620)	not provided in SAP/IDoc
PI07	payment identifier	String(255)	optional	In Switzerland, normally the ESR reference number is used. It is provided by the supplier to automatically assign the incoming payment to the corresponding invoice. In the environment of SEPA, this reference is called "Structured Creditor Reference"	not provided in SAP/IDoc
PI08	ESR party identifier	String(20)	optional	ESR party number used for Swiss transactions for the steering of payments over the Swiss Post	not provided in SAP/IDoc
PI09	financial institution identifier	String(20)	optional	Usually BIC (Bank Identifier Code)	not provided in SAP/IDoc
PI10	financial institution name	String(255)	optional	Additional information in case financial institution identifier is not correct	/E1EDK28[@S1]/BNAME
PI11	IBAN number	String(255)	optional	Standard number used to uniquely identify the account (of supplier) to be credited	/E1EDK28[@S1]/BIBAN

If "payable by TVS" is true, all other attributes are ignored.

If "payable by TVS" is false, other attributes must be provided so that a payment (by the customer itself) can be made.

7.5 VAT information per VAT rate

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
VI01	VAT percentage rate	Decimal	mandatory	Applied VAT percentage rates, multiple rates per invoice are allowed (amount of different VAT percentage rates = n)	/E1EDK04[@S1]/MWSKZ[A2]/../MSATZ
VI02	taxable amount	Decimal	optional	Equivalent to the total of all line items "total amounts exclusive VAT" (sum LI13) referring to the VI01 value	not provided in SAP/IDoc
VI03	tax amount payable	Decimal	mandatory	Equivalent to the (not rounded) total of all line items "VAT amount payable" (sum LI15) referring to the VI01 value	/E1EDK04[@S1]/MWSKZ[A2]/../MWSBT

7.6 Total invoice amounts



ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
TI01	total amount of invoice excl. VAT	Decimal	mandatory	Equivalent to the total of all line items "total amounts exclusive VAT" (sum LI13, or sum VI02)	E1EDS01[@S1]/SUMID[010]/../SUMME
TI02	total amount of invoice incl. VAT	Decimal	mandatory	Equivalent to the total of all line items "total amounts inclusive VAT" (sum LI14, or sum VI03) ²⁾	E1EDS01[@S1]/SUMID[011]/../SUMME
TI03	total tax amount payable	Decimal	optional	Equivalent to the total of all line items "tax amount payable" (sum LI15). also equivalent of all "tax amount payable" (sum VI03)	E1EDS01[@S1]/SUMID[005]/../SUMME
TI04	rounding amount	Decimal ¹⁾	mandatory	Rounding difference caused by the rounding to the next 5 cents ²⁾	E1EDK05[@S1]/KSCHL[DIFF]/../BETRG

¹⁾ also a negative value is allowed

2) Rounding explanations

- in the line items the values "total amount incl. VAT" (LI14), "VAT amount payable" (LI15) and probably also total amount excl. VAT (L13) should represent an amount with two digits after the decimal point (rounding to the second digit after the decimal point, but no rounding to the next 5 cents)
- "total amount of invoice excl. VAT" (TI01, sum of all LI13), "total tax amount payable" (TI03, sum of all LI15) and "tax amount payable" (VI03, the sum of all LI15 with the same VAT rate) should not be rounded to the next 5 cents
- "total amount of invoice incl. VAT" (TI02, sum of all LI14) is the only amount that can be rounded to the next 5 cents; but no such rounding is also acceptable at all
- "rounding amount" (TI04) must represent the difference between the sum of TI01 + TI03 and TI02 (if the optional attribute TI03 is not provided, the sum of all VI03 has to be taken)
the system accepts a difference of less than 3 cents, otherwise the invoice will be rejected with the appropriate error code

7.7 Line item (detail per article)

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
LI01	article number of supplier	String(255)	mandatory	Freetext	E1EDP01[@S1]/E1EDP19[@S1]/QUALF[002]/../IDTNR
LI02	 article number Vetpoint	String(20)	mandatory if article exists in Vetpoint	Format: [3 digit Vetpoint supplier number]-[article number vetpoint] e.g. '999-VET988756'	E1EDP01[@S1]/Z1E1EDP01/MATWA
LI03	GTIN/EAN	String(255)	optional	https://de.wikipedia.org/wiki/Global_Trade_Item_Number	E1EDP01[@S1]/E1EDP19[@S1]/QUALF[002]/../IDTNR
LI04	description of goods supplied or service rendered	String(600)	mandatory	Freetext	E1EDP01[@S1]/E1EDP19[@S1]/QUALF[002]/../KTEXT
LI05	unit of measurement	String(3)	mandatory	ISO codes for units of measurement. See separate chapter with list of supported values. Additionally the value 'PCE' (piece) is also accepted.	E1EDP01[@S1]/MENEE
LI06	 expiry date	Date	mandatory, if applicable on article	The expiry date of this article Format: ISO 8601 (YYYYMMDD, e.g. 20190620)	E1EDP01[@S1]/E1EDP01[@S1]/Z1E1EDP01_CHE/..IVF

ID	Attribute	Format	opt/mand	Description	IDoc Path/Field
LI07	⚠ batch# / LOT#	String(255)	optional	Freetext	E1EDP01[@S1]/E1EDP19[@S1]/QUALF[010]/../IDTNR
LI08	⚠ Swissmedic Number	String(20)	mandatory, if applicable on article	Swissmedic-Nr. mandatory for a drug with format [999999-99-999] or [VAK-999999-00-999]	E1EDP01[@S1]/Z1E1EDP01_CHE/SWISS_MEDIC
LI09	⚠ ATCVet Code	String(20)	mandatory, if applicable on article	The ATCvet code of the article, mandatory for a drug. A veterinary medicine article starts with 'Q' followed by 1 capital letter, 2 digits and optional 1-2 capital letters or 2 capital letters and two digits, human medicine article without the starting 'Q'	E1EDP01[@S1]/Z1E1EDP01_CHE/ATCVET_CODE
LI10	invoiced quantity	Decimal	mandatory	number	E1EDP01[@S1]/MENGE
LI11	price amount excl. VAT	Decimal ¹⁾	mandatory	price per unit of measurement	E1EDP01[@S1]/E1EDP26[@S1]/QUALF[001]/../BETRG
LI12	VAT percentage rate	Decimal	mandatory		E1EDP01[@S1]/E1EDP04[A2]/MSATZ
LI13	total amount excl. VAT	Decimal ¹⁾	mandatory	Invoiced total amount exclusive VAT applying to the line item	E1EDP01[@S1]/E1EDP26[@S1]/QUALF[011]/../BETRG
LI14	total amount incl. VAT	Decimal ¹⁾	optional	Invoiced total amount of the line item inclusive VAT after settlement of all allowances and charges applying to the line item	not provided in SAP/IDoc. Calculated by Vetdata (LI13 + LI15))
LI15	VAT amount payable	Decimal ¹⁾	mandatory	Total VAT amount payable of the line item	E1EDP01[@S1]/E1EDP04[A2]/MWSBT

¹⁾ also negative values are allowed if the line item represents a discount, a prepayment or returned / refunded item