

Australian Standard™

Health Supply Chain Messaging

Part 2: Datasets



This Australian Standard was prepared by Committee IT-014, Health Informatics. It was approved on behalf of the Council of Standards Australia on 30 March 2003 and published on 8 May 2003.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 5023.2—2003

Health Supply Chain Messaging

Part 2: Datasets

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Technical Committee IT-014 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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NOTES

Australian Standard™

Health Supply Chain Messaging

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PREFACE

This Standard has been prepared by the Australian members of the Joint Standards Australia/Standards New Zealand IT-014 Health Informatics committee in response to the Commonwealth Government's objectives for National Standards within the health sector. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide messaging guidelines for electronic hospital supply chains in order to support the formal collection, storage and transmission of data within hospital electronic supply chains.

It is anticipated that this Standard will reduce the number of different systems needed to transact business, providing a framework for trading partners to share information, irrespective of organizational changes or differences which in turn will reduce administrative costs related to business transactions.

It is the second part in a series of documents dealing with health supply chain messaging as follows:

AS

5023 Health supply chain messaging

5023.1 Part 1: Messaging rules and process logic

5023.2 Part 2: Datasets (this Standard)

5023.3 Part 3: Messaging rules and process logic—Secondary transactions

5023.4 Part 4: Dataset content—Secondary transactions

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

This Standard utilizes notes to some of the clauses. They are designated Note 1, Note 2, and so on, and are set in smaller point size, immediately following the clause. These Notes are for information and guidance only and compliance with them is not a requirement of the Standard.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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FOREWORD

SecureNet Professional Services referred to hereafter as ‘The Consultant’ was commissioned by Standards Australia International on behalf of the Commonwealth Department of Health and Ageing to provide Committee IT-014 and its Working Group IT-014-10-01 Supply Chain Messaging with information necessary to develop the data structure and flow of business logic for sixteen messages that are being, or will be, used in conducting business in the Australian health industry supply chain. The sixteen messages identified by IT-014-10-01 are:

- (a) *Product and pricing catalogue (price/sales catalogue)*
A catalogue message for static product identification, supply chain purchasing and logistics data, and optionally commercial pricing.
- (b) *Purchase order*
Purchase order message including stand-alone order, release against standing offer arrangement.
- (c) *Purchase order response*
Response to purchase order, indicating ability to supply.
- (d) *Turnover order*
Supplier-generated order, placed on a wholesaler on behalf of the end customer.
- (e) *Despatch advice/Advance shipping notice*
Identification and advice of shipment(s) that have been or will be imminently sent to the customer. Customer receipt of the despatch advice message shall precede the arrival of the physical shipment.
- (f) *Invoice*
Invoice for goods or services.
- (g) *Remittance advice*
Remittance advice message reporting on payments/claims made or to be made, to a supplier of goods or services.
- (h) *Purchase order change*
Change to a previously sent purchase order message.
- (i) *Request for quotation*
Request for quotation message.
- (j) *Quotation*
Quotation message responding to a request for quotation.
- (k) *Receiving advice*
Advice and status of the physical receipt of shipment(s). May be used as an electronic proof of delivery.
- (l) *Payment instruction*
Payment instruction (standard electronic cheque) intended for a financial institution. Will also include related remittance information.

(m) *Control message*

Acknowledgement and report on the receipt of an EDI message. Syntactic response only; the message does not report on application level processing or fulfilment status.

(n) *Sales data report for vendor managed inventory*

Report on sales over a specified period, either centrally or for specific locations. May be used to trigger automatic replenishment from vendors with whom a VMI agreement is in place. May also be used to implement a pay-on-scan or pay-on-consumption consignment stock scenario.

(o) *Inventory report*

Report on current stock quantities by location. May include available stock, allocated stock, stock on order, forecast sales.

(p) *Standing offer arrangement*

Formal supply agreement, valid for a defined period, against which purchase orders are generated.

IT-014-10-01 noted that most of these messages are generic by nature and would equally apply to other industry sectors. Therefore, it was decided that, to the maximum extent possible, development of health standards should build on existing work in other sectors. In particular, any comparable messages in existence within traditional grocery supply chains should be used as the basis for the development of the health specific messaging datasets.

It was also noted that the datasets developed should be independent of specific technology platforms (such as any 'flavour' of EDI or ebXML etc), to ensure, to the extent that it is possible, that these datasets remain relevant with new technology developments for messaging and electronic data exchange. For this reason, IT-014-10-01 instructed that the datasets should specify and define the data structure and messaging rules for the message only. It was recognized that technology-specific messaging guidelines would be required for implementing these structures and rules in the specific syntax required for data translation, for instance, EDI syntax or XML. However, this was not considered to be within the scope of the document.

NOTE: In this Standard, unless otherwise qualified, the term EDI refers to generic, syntax independent, electronic data interchange, i.e. any automated, application-to-application exchange of information. Thus EDI can use traditional syntax such as EDIFACT, or newer syntax such as XML.

IT-014-10-01 indicated to the Consultant that the highest priority should be given to the following nine messages:

- (i) Purchase order.
- (ii) Turnover order.
- (iii) Price/Sales catalogue.
- (iv) Despatch advice/Advance shipping notice.
- (v) Invoice.
- (vi) Remittance advice.
- (vii) Payment instruction.
- (viii) Control message.
- (ix) Inventory report.

In relation to the terms Despatch Advice and Advance Shipping Notice, the Health industry has agreed to follow the practice of the Retail industry and consider these to be synonymous. Furthermore, also following the practice of the Retail industry, Despatch Advice is the preferred term.

The Consultant's approach to this Standard has been to analyse a range of specific implementations of each of these messages where these exist. As a result of this analysis a suggested data model has been developed, together with a consolidated set of business logic and message flow rules. These have been extracted from current identified practice in Australian industry with particular reference to the retail grocery industry.

This Standard contains the dataset components for the nine priority transactions.

NOTE: The datasets in this Standard are intended to apply to services as well as physical goods. Any reference to 'product' should be considered to include services.

This Standard should be read in conjunction with AS 5023.1. Material contained in that Standard is not repeated here unless it is absolutely necessary for comprehension.

STANDARDS AUSTRALIA

Australian Standard

Health Supply Chain Messaging

Part 2: Datasets

1 SCOPE

This Standard provides dataset components for nine priority transactions as follows:

- (a) Purchase order.
- (b) Turnover order.
- (c) Price/Sales catalogue.
- (d) Despatch advice/Advance shipping notice.
- (e) Invoice.
- (f) Remittance advice.
- (g) Payment instruction.
- (h) Control message.
- (i) Inventory report.

2 APPLICATION

This Standard has been written for Health Sector professionals engaged in the use, implementation and assessment of Health Supply Chain Messaging.

3 REFERENCED DOCUMENTS

AS	
5023	Health supply chain messaging
5023.1	Part 1: Messaging rules and process logic
UN/	
EDIFACT	Message implementation guidelines
ISO	
16054	Implants for Surgery—Minimum datasets for surgical implants

4 PRIORITY DATASETS

4.1 Dataset layout

Each of the datasets in Clauses 4.2 to 4.10 is divided into three sections.

- (a) The **Heading section**, which contains information that applies to the entire dataset.
- (b) The **Detail section**, which contains specific details of the items described in the dataset. The entire detail section may be repeated as many times as is necessary to describe all of these items.
- (c) The **End of Message section**, which contains information summarizing the content of the detail section.

The information contained within each of these sections is presented as a set of individual data elements that are collected together into groups of similar information. Each element group and individual data element has a status code that governs its use. The status elements that are used in this Standard are described in Clauses 4.1.2, 4.1.3, 4.1.4 and 4.1.5.

4.1.2 *Required (R)*

When applied to an element group, that group shall be always present in the message.

When applied to an individual data element the element shall be present in the message whenever its element group is present.

4.1.3 *Advised (A)*

When applied to an element group, this indicates that the presence of the element group is advised or recommended.

When applied to an individual data element, this indicates that the presence of the individual data element is advised or recommended whenever its element group is present.

4.1.4 *Dependent (D)*

When applied to an element group, this indicates that the element group shall be sent in certain conditions that are explicitly defined for that element group.

When applied to an individual data element, this indicates that whenever its element group is present, the data element shall be sent under conditions that are explicitly defined for that individual data element.

4.1.5 *Optional (O)*

When applied to an element group, this indicates that the element group is optional and may be sent at the discretion of the user.

When applied to an individual data element, this indicates that whenever its element group is present, the individual data element is optional and may be sent at the discretion of the user.

4.2 Purchase order dataset

4.2.1 *General*

The static messaging rules applied by the Health industry for use of various forms of the purchase order message are set out in AS 5023.1.

4.2.2 *Message header elements—Purchase order*

Table 1 contains the datasets for the heading section of a Purchase Order.

TABLE 1
PURCHASE ORDER—MESSAGE HEADER ELEMENTS

Purchase Order Header elements	Type status	Element name	Element status	Description	Comments
Opening	R	Message type	R	One of— • standard order; • standing order; • release order; • consignment order; or • cross docking order.	The 'Release Order' is equivalent to a 'Call Off' order. The 'Turnover Order' for health supply chain has been documented separately (see below).
		Message function	R	One of— • original; • proposal; or • copy.	Message function 'Proposal' is used in a Vendor Managed Inventory environment, and indicates a suggested or recommended order sent by the Supplier to the Buyer. Message function 'Copy' is used to indicate a copy of an order sent to a third party for information purposes.
		Order number	R		Current length set as 20 however a length 35 is recommended.
		Order date/time	R	Date (and optionally time) order was created	
		Test/production flag	O		If the test/production flag is omitted, production is to be assumed.
Reference dates	R	Invoice date	O		An invoice date may be provided.
		Required delivery date	A	Delivery date required by the buyer	The Health industry advises that a delivery date or a delivery window should be nominated, either at header or at detail level. If not included there is an assumption that the delivery will be as soon as possible.
		Best before date	O	Product 'use by' date	Used to specify the minimum expiry date (i.e. shelf life) of the products to be shipped (i.e. old stock is not acceptable).
		Deliver not after date	A	Deliver goods or services no later than this date— alternative field name 'Delivery date/time, latest'	The Health industry advises that a delivery date or a delivery window should be nominated, either at header or at detail level.
		Deliver not before date	A	The earliest date delivery will be accepted—alternative field name 'Delivery date/time, earliest'	The Health industry advises that a delivery date or a delivery window should be nominated, either at header or at detail level.

(continued)

TABLE 1 (continued)

Purchase Order	Type status	Element name	Element status	Description	Comments
Party identification	R	Buyer (code or name and address)	R	Industry accepted code identifying buyer's 'ship to' address or buyer name code preferred	Use industry accepted code, e.g. D-U-N-S, Health Industry Number (HIN) or EAN number.
		Buyer ABN	O	Buyer ABN	
		Ship to location (code or name and address)	D	Code for 'ship to' name and location or address1, address2, city (or suburb), state, postcode	Use if the Ship to party is not the same as the Buyer. This data element can include the internal delivery address if necessary.
		Bill to (code or name and address)	D	Code for 'ship to' name and location or address1, address2, city (or suburb), state, postcode	Used if the Bill to party is not the same as the Buyer.
		Supplier (code or name and address)	R	Industry accepted code identifying supplier's address or supplier name code preferred	Use industry accepted code, e.g. D-U-N-S, Health industry number (HIN) or EAN number.
Contact information	O	Buyer contact name	O	For a person or department in relation to this order	
		Buyer contact phone	O	For a person or department in relation to this order	
		Buyer contact fax	O	For a person or department in relation to this order	
		Buyer contact email	O	For a person or department in relation to this order	
Payment	O	Tax—rate	O	Percentage tax rate applicable to all items in this order	Currently this value will be 0 or 10
		Currency	O	Currency in which the prices are specified	An order must all be in a single currency
		Payment terms	O	Payment terms and date/time basis for this line item	Used by the issuer of the order to request special payment terms for the current order.
		Evaluated receipt settlement flag	O	Indication that all items in this order will be paid for based on the agreed price and the number of goods or services received. No invoice is necessary.	
Order reference	O	Contract number	O	Reference to an existing contract	
		Blanket order number	D	Reference to an existing blanket order	Used if this is a release order
		Standing order number	O	Reference to an existing standing order	
		Purchasing card (credit/debit) details	O	Type, number, holder name, expiry date	Note: This dataset may be sent unsecured, and consequently caution should be observed in sending purchasing card details.
Transport and delivery	O	Details of transport or terms of delivery	O	Details of transport: Used to specify transport services used as well as other requirements such as health specific transport requirements. Terms of delivery: Various terms of delivery or transport related to delivery condition, payment, notification, urgency, etc. that may be relevant to health.	Identifies the delivery terms to be used e.g. UN INCOTERMS code could be used to specify the delivery terms
Special instructions	O	Back order accepted flag	O	Indicates that the buyer will accept back orders for any item that cannot be fully supplied	
		Free text instructions	O	Additional information (textual) relevant to this order. Free text.	

4.2.3 Message detail elements—Purchase order

Table 2 contains the datasets for the Detail section of a Purchase Order.

TABLE 2
PURCHASE ORDER—MESSAGE DETAIL ELEMENTS

Purchase Order Detail elements	Type status	Element name	Element status	Description	Comments
Line item	R	Line item number	R	Sequential number identifying the order line item	
Product identification	R	Unique product identifier	D	Industry standard unique identifier for the product	Must be used where one exists for this item
		Buyers product code	O	Buyer's unique code for this product	
		Supplier product code	D	Supplier's unique product code	Must be used if there is no industry standard unique identifier. May also be used in other circumstances.
		Item description	O	Brief product description	Up to 70 characters
Quantity	R	Quantity	R	Number of goods or services ordered	
		Unit of measure	R	The ordered unit of measure	This data element should be set to 'each' when it is uniquely defined by the product identifier.
		Quantity—Free	O	Number of free goods or services or bonus goods or services	
		Unit of measure—Free	D	Unit of measure for free goods or services	If there is a quantity free then there shall be a unit of measure.
Pricing	A	Unit price	R	Unit price excluding GST	Pricing information will not appear in a consignment order.
		Unit of pricing	A	Unit of measure for the unit price	
		Price type code	O	Code to advise the origin of the price, e.g. contract, catalogue, standing offer arrangement, etc.	
		Pricing document reference no.	D	Reference number of relevant contract, catalogue, standing offer arrangement, etc.	Used if the price type code is used
		Pricing document line no.	O	Line number from the relevant contract, catalogue, standing offer arrangement, etc.	
Tax	O	Tax—rate	O	Percentage tax rate applicable to this item	Currently 0 or 10

(continued)

TABLE 2 (continued)

Purchase Order Detail elements	Type status	Element name	Element status	Description	Comments
Allowances and charges	O	Allowances and charges	O	Charge or allowance relating to this line item and, where necessary, its calculation sequence. Additionally the quantity, percentages, monetary amounts and tax related to these allowances and charges have related elements. The following elements may be used: • Warehouse amount \$ • Warehouse percent % • Ullage amount \$ • Ullage percent % • Freight charge amount \$ • Freight charge percent % • Quantity discount amount \$ • Quantity discount percent % • Trade discount amount \$ • Trade discount percent % • Volume discount amount \$ • Volume discount percent % • Early payment (settlement) amount \$ • Early payment (settlement) percent %	The quantity discount is a discount based on the number of goods or services ordered. The volume discount is a discount based on the value of the goods or services ordered.
		Discount percentage	O	Agreed discount (as a percentage including '.'). Max value 99.99%	
		Rebate percentage	O	Agreed rebate (as a percentage including '.'). Max value 99.99%	
Delivery details	A	Split delivery details	O	Multiple pairs of delivery location (code or name and address, possibly including internal delivery address) and delivery quantity.	Used to specify a split delivery for this line item. Total quantities in this split delivery section shall add up to the total quantity for this line item. If a split delivery is specified, the delivery dates should be specified for each delivery location. If no split delivery is specified, the delivery dates will apply to the complete line item.
		Date requested	A	Delivery date required by the buyer for this item	The Health industry advises that a delivery date or a delivery window should be nominated, either at header or at detail level.
		Deliver not after date	A	Deliver goods or services no later than this date—alternative field name 'delivery date/time, latest'	The Health industry advises that a delivery date or a delivery window should be nominated, either at header or at detail level.
		Deliver not before date	A	Used to specify the earliest date delivery will be accepted—alternative field name 'delivery date/time, earliest'	The Health industry advises that a delivery date or a delivery window should be nominated, either at header or at detail level.
Product date	O	Minimum expiry date	O	Minimum expiry date for goods—also known as 'end of shelf life ' or 'best before'	

(continued)