

	NHS Connecting for Health			
	Programme	NPFIT	NPFIT-FNT-TO-DSD-0083.01	
	Sub-Prog Project	dm+d		
	Prog. Director	Paul Jones	Version	1.0
	Owner	Ken Lunn	Status	
	Author	Paul Frosdick	Version Date	25/10/06

NHS Dictionary of Medicines and Devices (dm+d) Formal Definition of the “native use of dm+d”

Amendment History:

Version	Date	Amendment History
1.0	25/10/06	

Forecast Changes:

Anticipated Change	When

Reviewers:

This document must be reviewed by the following:

Name	Signature	Title / Responsibility	Date	Version
Emma Madden		dm+d Programme Manager	25/10/ 06	
Rob Gooch		ETP Technical Architect	25/10/ 06	
Jo Goulding		Senior Pharmacy Informatics Specialist	30/09/06	
Andy Frangleton		First Data Bank Europe	30/09/06	
Richard Bonnar		DLA Solicitors to NHS CFH	20/10/06	

Approvals:

This document must be approved by the following:

Name	Signature	Title / Responsibility	Date	Version
Ken Lunn		Head of Data Standards and Products and Communications and Messaging		V1.0

Distribution:

Document Status:

This is a controlled document.

Whilst this document may be printed, the electronic version maintained in FileCM is the controlled copy. Any printed copies of the document are not controlled.

Related Documents:

These documents will provide additional information.

Ref no	Doc Reference Number	Title	Version
1		Terminology Reference –data Update Distribution (TRUD) Service Interface Specification	V2.2

Glossary of Terms:

List any new terms created in this document. Mail the NPO Quality Manager to have these included in the master glossary above [1].

Term	Acronym	Definition
NHS Connecting for Health	NHS CFH	The organisation responsible for the delivery of the National Programme for Information Technology including development of a standard NHS terminology for medication and personal medical devices.
NHS Business Services Authority, Prescription Pricing Division	BSA PPD	A special health authority of the NHS with the core business objective of reimbursing prescription costs in primary care.
First Data Bank Europe	FDBE	A clinical decision support vendor, currently with an enterprise wide agreement for provision of point of care decision support to the NHS Connecting for Health.
NHS Terminology Service	NTS	The delivery area of NHS Connecting for Health responsible for the delivery of terminology and classification services to the NHS migrated from the NHS Information Authority (NHSIA).
NHS Dictionary of Medicines and Devices	dm+d	A standard coding scheme containing a unique identifier and associated textual description for medicines and medical devices. The dm+d is the NHS standard for medicines and device identification, enabling clinical system interoperability between diverse clinical systems.
National Patient Safety Agency	NPSA	The National Patient Safety Agency (NPSA) is a Special Health Authority created to co-ordinate the efforts of all those involved in healthcare, and more importantly to learn from, patient safety incidents occurring in the NHS.

Contents

1 About this Document5
1.1 Purpose5
1.2 Audience5
1.3 Content5
2 Native Use of dm+d Definition6
3 Appendix A-Definition of Appropriate Mapping Behaviour by dm+d Data Type...7

1 About this Document

1.1 Purpose

The purpose of this document is to provide a definition for the “native use of dm+d”.

1.2 Audience

This document has been written for all Implementer’s of the NHS Dictionary of Medicines and Devices (dm+d).

1.3 Content

This document comprises the following sections / topics

- The Definition of native use of dm+d
- Definition of Appropriate Mapping Behaviour by dm+d Data Type

2 Native Use of dm+d Definition

Native use of dm+d is defined as:

“The direct incorporation of all relevant dm+d data into the medicines and devices database used by the clinical application in question.

OR

The mapping of data from any non dm+d medicines and devices database used by the clinical application in question to the dm+d data. Any such mapping will be required to be compliant with the following criteria:

- All data from the application database that is equivalent to that contained in dm+d is included in the map.
- That no one application database concept or concept / attribute / value triple will map to more than one dm+d concept or concept / attribute / value triple.
- That not more than one application database concept or concept / attribute / value triple will map to one dm+d concept or concept / attribute / value triple unless the data items in question can be defined as legitimate sub-types of the dm+d target not elsewhere represented in dm+d.

In both cases use of the dm+d may be from the XML release of dm+d, from the SNOMED CT representation of dm+d's terminological components or by a combination of the SNOMED CT terminological components together with the remaining non-defining 'facts' obtained from the XML." The data must be synchronised with the current version of the dm+d distributed via the NHS CFH Terminology Release Update Distribution Mechanism (TRUD).

A table is included as an appendix to this document that lists the data types included in dm+d and describes what behaviour would constitute a valid map to that data item.

CFH can and will only perform an assurance role to satisfy itself that the implementation of NPfIT conformant messages meets its own patient safety requirements. This will entail reviewing and signing off implementation plans for patient safety and end to end message testing across a series of scenarios. This will not however imply any interrogation or audit of the underlying mapping or direct embedding of dm+d in the system, which remains the suppliers responsibility.

In summary therefore, the maintenance, validation and medico-legal responsibility for the embedding and / or mapping of dm+d into an implemented system rests with the supplier of that system.

Appendix 1

Definition of Appropriate Mapping Behaviour by dm+d Data Type

Data Type	Data Type Instance	Mapping Behaviour Description
SNOMED CT id	<p>Virtual therapeutic moiety identifier / VTM identifier</p> <p>Previous VTM identifier</p> <p>Virtual medicinal product identifier</p> <p>Previous product identifier</p> <p>Unit dose form units</p> <p>Unit of measure</p> <p>Form identifier</p> <p>Drug route identifier</p> <p>Ingredient substance identifier</p> <p>Basis of strength substance identifier</p> <p>Strength value numerator unit</p> <p>Strength value denominator unit</p> <p>Actual medicinal product identifier</p> <p>Supplier</p> <p>Licensed route</p>	<p>Where present in a non dm+d application database, concepts identified by the SNOMED CT data type will be enumerated by a local database code that is linked to the dm+d value via a stable mapping mechanism.</p> <p>Each application concept will map to no more than one dm+d concept.</p> <p>No more than one application concept will map to one dm+d concept unless they can be defined as legitimate sub-types of the dm+d concept that are not represented elsewhere in dm+d.</p>

Data Type	Data Type Instance	Mapping Behaviour Description
	Unit of measurement Virtual medicinal product pack identifier Constituent virtual product pack identifier Actual medicinal product pack identifier Constituent actual product pack identifier Previous ingredient substance identifier Previous form identifier	
	Previous drug route identifier Previous supplier identifier Previous unit of measure identifier	
Integer (Boolean)	Invalidity flag Sugar free indicator Gluten free indicator Preservative free indicator CFC free indicator CSM Monitoring indicator Parallel Import indicator Schedule 2 indicator Schedule 1 indicator	Where present in a non dm+d application database and when associated with an application database concept that is mapped to a dm+d equivalent, attributes equivalent to the Integer (Boolean) data type will be enumerated by a value that is linked to the dm+d value via a stable mapping mechanism associated with the concept with which the attribute is paired.

Data Type	Data Type Instance	Mapping Behaviour Description
	Hospital indicator ACBS indicator Personally administered indicator FP10 MDA indicator Nurse extended formulary indicator Dental formulary indicator Broken bulk indicator Limited stability indicator Calendar pack indicator Nursing formulary indicator FP34 D prescription item	
Integer (code value)	Combination product indicator Basis of preferred name Basis of previous name Reason for name change Virtual medicinal product prescribing status Non-availability indicator	Where present in a non dm+d application database and when associated with an application database concept that is mapped to a dm+d equivalent, attributes equivalent to the Integer (code value) data type will be enumerated by a series of values that are linked to the dm+d values via a stable mapping mechanism associated with the concept with which the attribute is paired.
	Dose form indicator Basis of pharmaceutical strength	

Data Type	Data Type Instance	Mapping Behaviour Description
	Controlled drug category Controlled drug category prior to change date Virtual medicinal product form and route Flavour Current licensing authority Previous licensing authority Licensing authority change reason Restrictions on availability Colour Combination pack indicator DT payment category Legal category Discontinued flag Appliance reimbursement status Appliance reimbursement previous status Special container indicator Zero discount indicator Price basis flag	
Date	Virtual medicinal product identifier date	Where present in a non dm+d application database and when associated with an application database concept or attribute that is mapped to a dm+d equivalent, attributes equivalent to the Date data type will be

Data Type	Data Type Instance	Mapping Behaviour Description
	Date of name applicability Non-availability status date Controlled drug category change date Date of change of licensing authority DT price date Discontinued flag change date Appliance reimbursement status date Date of price validity Ingredient substance identifier date Form identifier change date Virtual therapeutic moiety identifier date Supplier identifier change date	enumerated by a value that is linked to the dm+d values via a stable mapping mechanism associated with the concept or attribute with which data type is paired.
	Unit of measure identifier change date Drug route identifier change date	
String – critical list	VTM name VTM previous name Virtual medicinal product	Where present in a non dm+d application database and when associated with an application database concept that is mapped to a dm+d equivalent, attributes equivalent to the String data type contained in this list will be enumerated by the dm+d value (i.e. where a non dm+d application database concept is mapped to a dm+d concept the dm+d text sting <i>must</i> be used).

Data Type	Data Type Instance	Mapping Behaviour Description
	name Previous name (VMP) Virtual medicinal product abbreviated name Actual medicinal product description Actual medicinal product abbreviated name Virtual medicinal product pack description Actual medicinal product pack description Ingredient substance name Form name Drug route name Unit of measure name Supplier name	This will be linked to the application database internal values via a stable mapping mechanism associated with the concept with which the attribute is paired.
String – non-critical list	Actual medicinal product name Previous name (AMP) AMP size/weight Product order number AMPP sub-pack information Pack order number	The instances of the String data type contained in this list comprise internal dm+d constructs that are used in the creation of those instances of the String data type in the ‘critical list’ above. As such, compliance with dm+d native requirements will not require mapping to be maintained to these attributes. However, should an application database choose to map to these data items such a mapping would be maintained in the same manner as a critical list String.
Real	Unit dose form size	Where present in a non dm+d application database and when associated with an application database

Data Type	Data Type Instance	Mapping Behaviour Description
	Strength value numerator Strength value denominator Numerical value Quantity DT price DT price previous Prescription charges Dispensing fees Price Price prior to change date	concept or attribute that is mapped to a dm+d equivalent, attributes equivalent to the Real data type will be enumerated by an identical value that is linked to the dm+d values via a stable mapping mechanism associated with the concept or attribute with which data type is paired.