

	<b>Commissioning Data Set version 6-2 XML Schema Release Note</b>			
	<b>Schema Version 6-2 Release 20120601</b>			
	<b>Programme</b>	NPFIT	<b>Document Record ID Key</b>	
	<b>Sub Programme</b>			
	<b>Project Manager</b>		<b>Status</b>	FINAL
	<b>Owner</b>	R Kavanagh	<b>Version</b>	1-0
<b>Author</b>	I Townend	<b>Version Date</b>	2012-06-01	

**Commissioning Data Set XML Schema Release Note  
Schema Version 6-2 Release 2012-06-01**

### Amendment History:

Version	Date	Amendment History
0.1		Accompanying draft schema release
1-0	2012-06-01	Release to ISB for approval

### Reviewers:

This document must be reviewed by the following:

Name	Signature	Title / Responsibility	Date	Version
Cath Chilcott		Content Delivery Manager, NHS Data Model and Dictionary Service	01.06.12	1-0

### Approvals:

This document must be approved by the following:

Name	Signature	Title / Responsibility	Date	Version
Richard Kavanagh		Head of Interoperability Specifications, Data Standards and Products		1-0

### Document Control:

The controlled copy of this document is maintained in the NHS CFH Electronic Document and Records Management System. Any copies of this document held outside of that system, in whatever format (e.g. paper, email attachment), are considered to have passed out of control and should be checked for currency and validity.

### Glossary of Terms:

Terms, acronyms and abbreviations commonly used within NHS CFH can be found in the Glossary of Terms

<http://intranet.connectingforhealth.nhs.uk/departments/npo/glossary/glossary>. If any terms are used in this document that are not currently included in the glossary, please send them to [cfh.glossary@nhs.net](mailto:cfh.glossary@nhs.net).

### Distribution:

CFH Interoperability Specifications;

National Integration Centre and Assurance;

Information Standards Board for health and social care

# Contents

- Contents .....3
- 1 About this Document .....4
  - 1.1 Purpose .....4
  - 1.2 Audience .....4
  - 1.3 Structure.....4
- 2 Introduction.....4
- 3 Release Manifest.....4
- 4 Changes in This Release .....5
- 5 Schema Documentation .....5
- 6 Technical Modelling Approach .....5
- 7 Conformance Tests .....5
- 8 Schema Content.....5
  - 8.1 Additional Notes .....6
- Appendix A ..... **Error! Bookmark not defined.**

## 1 About this Document

### 1.1 Purpose

This note accompanies a Commissioning Data Set XML schema release and outlines the content and scope of the release.

### 1.2 Audience

The audience for this document is any person involved with:

- Internal review by Interoperability Specifications;
- Testing and technical assurance by the National Integration Centre;
- Authoring change papers by NHS Data Model and Dictionary Service;
- Business assurance and sponsorship by the Department of Health;
- Implementation by NHS Information System and Middleware suppliers;
- Submission by NHS and NHS-funded healthcare provider organisations

### 1.3 Structure

This note contains a release manifest detailing the content of the release, details of the scope and structure of the release and patterns used in developing the schema.

## 2 Introduction

The Commissioning Data Set XML schema is produced to support submission of the Commissioning Data Set (CDS) to the Secondary Uses Service. As the status of this release is FINAL no review documents are included in the package. Issues with the release should be raised through the Interoperability Specifications Team at NHS Connecting for Health (datastandards@nhs.net).

## 3 Release Manifest

This release consists of the following files:

<i>CDS_XML_Schema-Release_Notes-v1-0_2012-06-01.doc</i>	This document
<i>CDS-v6-2Final_XMLSchema.zip</i>	The CDS schema & supporting material

## 4 Changes in This Release

Full details of the Requirements making up the content of CDS 6-2 are detailed in the ISB documentation for the standard (ISB 0092 Amd 16/2010).

Changes from the CDS 6-1-1 schema to the CDS 6-2 schema to support these requirements are detailed in the *CDS 6.2 Schema Change Log.xls* file which is included in the CDS-v6-2.zip file.

## 5 Schema Documentation

A Schema Pack is provided, containing the Change Log as well as the XML Schema itself.

## 6 Technical Modelling Approach

A number of schema data types impose stricter validation than can be represented in the NHS Data Model and Dictionary. General constraints are adapted from eGIF schemas. Specific constraints on each data item are shown fully for each item in the schema documentation.

## 7 Conformance Tests

The schema has been tested as valid against the schema for XML Schema version 1.0 [<http://www.w3.org/2001/XMLSchema.xsd>] using the following schema-aware XML processors:

- Altova XMLSpy 2009
- Xerces-J 3.1.1
- Xerces-J 2.9.1

Note that some older XML processors have been found to display errors on parsing the schema. This has notably been the case with Apache Xerces-J versions 2.4. and 2.5. This is due to an error in the initial edition of XML Schema 1.0 dated 2<sup>nd</sup> May 2001 and documented in the errata #E2-66: <http://www.w3.org/2001/05/xmlschema-errata.html#e2-66>.

## 8 Schema Content

An overview of the content of Commissioning Data Sets version 6-2 is included for reference at Appendix A. However further detail is given in the ISN for the ISB standard (ISB 0092 Amd 16/2010).

## 8.1 Additional Notes

### Organisation Codes

Because of the ongoing changes to the NHS Organisational Structure and the potential for different organisations to become providers and commissioners of activity in the future, it has been decided to allow larger field sizes for all Organisation Code data items, to future-proof the Commissioning Data Set XML Schema version 6-2 in case of changes to the Organisation Data Services coding structure. This means that the format/length of these items given in the NHS Data Model and Dictionary differs from that specified in the Commissioning Data Set XML Schema, and NHS information system and XML middleware suppliers should note this. In all cases, the formatting of minimum length an3, maximum length an12, has been applied. The affected items are as follows:

CDS COPY RECIPIENT IDENTITY  
CDS PRIME RECIPIENT IDENTITY  
GENERAL MEDICAL PRACTICE CODE (PATIENT REGISTRATION)  
GENERAL MEDICAL PRACTICE CODE (ANTENATAL CARE)  
INTENDED SITE CODE (OF TREATMENT)  
ORGANISATION CODE (CODE OF COMMISSIONER)  
ORGANISATION CODE (CODE OF PROVIDER)  
ORGANISATION CODE (LOCAL PATIENT IDENTIFIER)  
ORGANISATION CODE (LOCAL PATIENT IDENTIFIER (BABY))  
ORGANISATION CODE (LOCAL PATIENT IDENTIFIER (MOTHER))  
ORGANISATION CODE (PATIENT PATHWAY IDENTIFIER ISSUER)  
ORGANISATION CODE (RESIDENCE RESPONSIBILITY)  
REFERRING ORGANISATION CODE  
SITE CODE (OF TREATMENT)  
CDS SENDER IDENTITY

Once any changes to ODS codes are known, the affected Organisation Code fields sizing will be tightened in future Commissioning Data Set XML Schema releases. In the meantime every effort should be made to ensure that the current correct ODS codes are submitted in the Organisation Code fields, and that data quality is maintained.

## **APPENDIX A – CDS 6-2 overview**

### **Commissioning Data Set Version 6-2**

This document describes Commissioning Data Set version 6-2. The basis of the new CDS 6-2 tables in the NHS Data Model and Dictionary, and the CDS-XML schema, is taken to be the current most recent live CDS version, 6-1 (6-1-1 for the schema).

The document describes the reason why changes/additions have been made; users should refer to the NHS Data Model and Dictionary for full definitions and exact positioning of new items within the CDS 6-2 tables.

### **Replacement Data Elements**

The following new data elements have been created to replace existing data elements in the Commissioning Data Sets which have an incorrect format/length defined as numeric but which should be alphanumeric. This change is required to prevent the stripping out of leading zeroes during the submission of data to SUS and HES.

In most cases, the data element national code values remain the same – where there are additional changes as well as the name change, this appears separately in the ‘Changes to Existing Items’ section below.

- NHS NUMBER STATUS INDICATOR is replaced with NHS NUMBER STATUS INDICATOR CODE
- NHS NUMBER STATUS INDICATOR (BABY) replaced with NHS NUMBER STATUS INDICATOR CODE (BABY)
- NHS NUMBER STATUS INDICATOR (MOTHER) replaced with NHS NUMBER STATUS INDICATOR CODE (MOTHER)
- A&E ARRIVAL MODE replaced with ACCIDENT AND EMERGENCY ARRIVAL MODE CODE
- A&E ATTENDANCE CATEGORY replaced with ACCIDENT AND EMERGENCY ATTENDANCE CATEGORY CODE
- A&E ATTENDANCE DISPOSAL replaced with ACCIDENT AND EMERGENCY DISPOSAL CODE
- ADMINISTRATIVE CATEGORY replaced with ADMINISTRATIVE CATEGORY CODE
- ADMINISTRATIVE CATEGORY (ON ADMISSION) replaced with ADMINISTRATIVE CATEGORY CODE (ON ADMISSION)
- ADMISSION METHOD (HOSPITAL PROVIDER SPELL) replaced with ADMISSION METHOD CODE (HOSPITAL PROVIDER SPELL)
- ADMISSION OFFER OUTCOME replaced with ADMISSION OFFER OUTCOME CODE
- ANAESTHETIC GIVEN DURING LABOUR OR DELIVERY replaced with ANAESTHETIC GIVEN DURING LABOUR OR DELIVERY CODE

- ANAESTHETIC GIVEN POST LABOUR OR DELIVERY replaced with ANAESTHETIC GIVEN POST LABOUR OR DELIVERY CODE
- ATTENDED OR DID NOT ATTEND replaced with ATTENDED OR DID NOT ATTEND CODE (note – this item was called ATTENDANCE STATUS in CDS-XML schema version 6-1-1 but this has now been reverted to the Data Dictionary name)
- CDS BULK REPLACEMENT GROUP replaced with CDS BULK REPLACEMENT GROUP CODE
- CDS PROTOCOL IDENTIFIER replaced with CDS PROTOCOL IDENTIFIER CODE
- CDS TYPE replaced with CDS TYPE CODE
- DELIVERY METHOD replaced with DELIVERY METHOD CODE
- DELIVERY PLACE CHANGE REASON replaced with DELIVERY PLACE CHANGE REASON CODE
- DELIVERY PLACE TYPE (ACTUAL) replaced with DELIVERY PLACE TYPE CODE (ACTUAL)
- DELIVERY PLACE TYPE (INTENDED) replaced with DELIVERY PLACE TYPE CODE (INTENDED)
- DISCHARGE DESTINATION (HOSPITAL PROVIDER SPELL) replaced with DISCHARGE DESTINATION CODE (HOSPITAL PROVIDER SPELL)
- DISCHARGE METHOD (HOSPITAL PROVIDER SPELL) replaced with DISCHARGE METHOD CODE (HOSPITAL PROVIDER SPELL)
- ELECTIVE ADMISSION LIST REMOVAL REASON replaced with ELECTIVE ADMISSION LIST REMOVAL REASON CODE
- ELECTIVE ADMISSION TYPE replaced with ELECTIVE ADMISSION TYPE CODE
- FIRST ATTENDANCE replaced with FIRST ATTENDANCE CODE
- FIRST REGULAR DAY OR NIGHT ADMISSION replaced with FIRST REGULAR DAY OR NIGHT ADMISSION CODE
- AGE GROUP INTENDED replaced with INTENDED AGE GROUP
- INTENDED CLINICAL CARE INTENSITY replaced with INTENDED CLINICAL CARE INTENSITY CODE
- INTENDED MANAGEMENT replaced with INTENDED MANAGEMENT CODE
- INTENDED PROCEDURE STATUS replaced with INTENDED PROCEDURE STATUS CODE
- LABOUR OR DELIVERY ONSET METHOD replaced with LABOUR OR DELIVERY ONSET METHOD CODE
- LAST EPISODE IN SPELL INDICATOR replaced with LAST EPISODE IN SPELL INDICATOR CODE
- LIVE OR STILL BIRTH replaced with LIVE OR STILL BIRTH CODE
- MAIN SPECIALTY CODE replaced with CARE PROFESSIONAL MAIN SPECIALTY CODE
- LEGAL STATUS CLASSIFICATION CODE (AT CENSUS DATE) replaced with MENTAL HEALTH ACT LEGAL STATUS CLASSIFICATION CODE (AT CENSUS DATE)
- LEGAL STATUS CLASSIFICATION CODE (ON ADMISSION) replaced with MENTAL HEALTH ACT LEGAL STATUS CLASSIFICATION CODE (ON ADMISSION)
- NUMBER OF BABIES replaced with NUMBER OF BABIES INDICATION CODE
- NEONATAL LEVEL OF CARE replaced with NEONATAL LEVEL OF CARE CODE
- OPERATION STATUS replaced with OPERATION STATUS CODE
- OUTCOME OF ATTENDANCE replaced with OUTCOME OF ATTENDANCE CODE
- PATIENT CLASSIFICATION replaced with PATIENT CLASSIFICATION CODE

- PERSON GENDER CURRENT replaced with PERSON GENDER CODE CURRENT
- PERSON GENDER CURRENT (BABY) replaced with PERSON GENDER CODE CURRENT (BABY)
- PRIORITY TYPE replaced with PRIORITY TYPE CODE
- PSYCHIATRIC PATIENT STATUS replaced with PSYCHIATRIC PATIENT STATUS CODE
- REFERRAL TO TREATMENT STATUS replaced with REFERRAL TO TREATMENT PERIOD STATUS
- RESUSCITATION METHOD replaced with RESUSCITATION METHOD CODE
- SERVICE TYPE REQUESTED replaced with SERVICE TYPE REQUESTED CODE
- SEX OF PATIENTS replaced with SEX OF PATIENTS CODE
- SOURCE OF ADMISSION (HOSPITAL PROVIDER SPELL) replaced with SOURCE OF ADMISSION CODE (HOSPITAL PROVIDER SPELL)
- STATUS OF PATIENT INCLUDED IN THE PSYCHIATRIC CENSUS replaced with STATUS OF PATIENT INCLUDED IN THE PSYCHIATRIC CENSUS CODE
- STATUS OF PERSON CONDUCTING DELIVERY replaced with STATUS OF PERSON CONDUCTING DELIVERY CODE
- TREATMENT FUNCTION CODE replaced with ACTIVITY TREATMENT FUNCTION CODE
- WARD DAY PERIOD AVAILABILITY replaced with WARD DAY PERIOD AVAILABILITY CODE
- WARD NIGHT PERIOD AVAILABILITY replaced with WARD NIGHT PERIOD AVAILABILITY CODE

In addition, a new data element ARRIVAL TIME AT ACCIDENT AND EMERGENCY DEPARTMENT has replaced ARRIVAL TIME in the A&E CDS. The new item is linked to the Accident and Emergency CQI's standard (which will be the subject of a separate submission to ISB), and has been introduced to remove any ambiguity between arrival times for patients attending A&E, and arrival times for Transport Requests (which are also covered by the existing attribute ARRIVAL TIME).

### **Changes to Existing Data Elements**

Changes have been made to existing data items and their M/R/O notation (Mandatory/Required/Optional) within the CDS 6-2 and the CDS 6-2 XML schema. These are changes to National Codes or a change of M/R/O notation in the CDS data set tables and the CDS XML schema (where applicable)

Changes are as follows:

- ORGANISATION CODE (CODE OF PROVIDER) and ORGANISATION CODE (CODE OF COMMISSIONER) have both been made Mandatory in the CDS tables and the XML schema. The Data Group carrying these items (Service Agreement) has also been made Mandatory where it was not already.
- CDS MESSAGE VERSION NUMBER will now use value CDS062 (this is hard-coded in the CDS-XML schema)
- Additional (proposed) National Code values 344, 345, 346, 108, 331, 223, 663, 920, 725, 726, 727 have been added to the CDS-XML schema to support additional

ACTIVITY TREATMENT FUNCTION CODES (formerly TREATMENT FUNCTION CODE) which are due to be introduced by a separate submission to the Information Standards Board. For this reason, these codes do not yet appear on the data element in the NHS Data Model and Dictionary. Note that submission of these codes prior to SUS Release 13 (April 2013) will cause the records to U group in the SUS Payment Grouper.

- The 0 –19 constraint on PREGNANCY TOTAL PREVIOUS PREGNANCIES has changed to 0 - 29 (plus 99), as a result of an example of 20 previous pregnancies being recorded at a Trust.
- Additional values 2A, 2B, 2C, 2D have been added to attribute ADMISSION METHOD. These values will replace existing value 28 'other', although value 28 remains valid because of its use in CDS 6-1 and MHMDS version 4-0. These values will not be processed through the SUS Payment Grouper until SUS Release 13 (April 2013) so should not be submitted until then

### **New Items**

This section covers new items (or groups of items) which are being added to the CDS at version 6-2. All items are optional unless specifically stated.

- New data element MULTI-PROFESSIONAL OR MULTIDISCIPLINARY INDICATION CODE (PAYMENT BY RESULTS) has been added to data group CARE ATTENDANCE - ACTIVITY CHARACTERISTICS in CDS types 020 and 021 (Outpatients), and to the CONSULTANT EPISODE – ACTIVITY CHARACTERISTICS data groups in CDS types 13/140/190/200 (Finished General Episode and Delivery CDS types). This item is intended to replace the current functionality which forms part of OPCS-4 codes X62 and X66 to indicate a multi-professional or multidisciplinary consultation (these codes will be retired in April 2014). Further work will be undertaken on this item prior to April 2014; this item should not be used until further guidance is produced via ISN.
- New data element REHABILITATION ASSESSMENT TEAM TYPE has been added to data group CARE ATTENDANCE - ACTIVITY CHARACTERISTICS in CDS types 020 and 021 (Outpatients), and to the CONSULTANT EPISODE – ACTIVITY CHARACTERISTICS data groups in CDS types 13/140/190/200 (Finished General Episode and Delivery CDS types). This item is intended to replace the current functionality which forms part of OPCS code X60 'Rehabilitation Assessment' to indicate a specialist or non-specialist team delivery of the activity (this code will be retired in April 2014). Further work will be undertaken on this item prior to April 2014; this item should not be used until further guidance is produced via ISN.
- New data group CONSULTANT EPISODE LENGTH OF STAY ADJUSTMENT with 2 items LENGTH OF STAY ADJUSTMENT (REHABILITATION) and LENGTH OF STAY ADJUSTMENT (SPECIALIST PALLIATIVE CARE) has been added to CDS types 130 and 190 (Admitted Patient Care – General Episode). These items will be used for PbR, but will not be used in the SUS Payment Grouper until SUS Release 13 (April 2013).
- New data element CONSULTATION MEDIUM USED has been added to CDS types 020 and 021 (Outpatients). This item will be used in PbR (to differentiate between

telephone and telemedicine contacts, but will not be used in the SUS Payment Grouper until SUS Release 13 (April 2013).

- New data element DIRECT ACCESS REFERRAL INDICATOR has been added to CDS types 020 and 021 (outpatients); also types 030, 050, 060, 110 (Elective Admission List); and types 130 and 190 (APC general episode). For the EAL and APC types, this has also meant creating a 'REFERRAL' data group as these CDS types did not have one already. This item will be used for PbR, but will not be used in the SUS Payment Grouper until SUS Release 13 (April 2013)
- New data group LOCATION GROUP - ATTENDANCE with one item, SITE CODE (OF TREATMENT), has been added to CDS type 010 (A&E). This is for A&E CQI purposes (which will be the subject of a separate ISB submission).
- New data element PRESENT ON ADMISSION INDICATOR has been added to existing CONSULTANT EPISODE - CLINICAL DIAGNOSIS GROUP (ICD) (or equivalents) to both primary and secondary diagnosis groups. In the secondary diagnosis groups, it repeats for each secondary diagnosis recorded. This item has been added to support HSCIC Clinical data requirements (which will be the subject of a separate ISB submission)
- Two new sub-groups called 'Main Operating Health Care Professional' and 'Responsible Anaesthetist' have been added below both Primary and Secondary OPCS groups in all applicable CDS types. Both groups are optional, but if submitted both (new) data elements (PROFESSIONAL REGISTRATION ISSUER CODE and PROFESSIONAL REGISTRATION ENTRY IDENTIFIER (MAIN OPERATING CARE PROFESSIONAL) in first subgroup; PROFESSIONAL REGISTRATION ISSUER CODE and PROFESSIONAL REGISTRATION ENTRY IDENTIFIER (RESPONSIBLE ANAESTHETIST) in second subgroup) are mandatory. This item has been added to support HSCIC Clinical data requirements (which will be the subject of a separate ISB submission)
- New data element ORGANISATION CODE (RESIDENCE RESPONSIBILITY) has been added to PATIENT IDENTITY (VERIFIED IDENTITY STRUCTURE, UNVERIFIED IDENTITY STRUCTURE and WITHHELD IDENTITY STRUCTURE). This item has been introduced to support the NHS structural changes, and will contain either PCT of Residence (if used before the end of March 2013) or CCG of Residence (from 1<sup>st</sup> April 2013). ORGANISATION CODE (PCT OF RESIDENCE) data element has been removed.
- New data element WITHHELD IDENTITY REASON has been added to the PATIENT IDENTITY - WITHHELD IDENTITY STRUCTURE in all applicable CDS types. The Withheld Identity Structure was previously designed to use NHS NUMBER STATUS INDICATOR CODE value 90, which was not approved by ISB. The NHS NUMBER STATUS INDICATOR CODE field in this data group will now accept all the current NHS NUMBER STATUS INDICATOR CODE values (01 – 08), as this allows the SUS DQ Dashboards to derive the correct statistics on NHS Number tracing and completeness. The WITHHELD IDENTITY REASON will allow Trusts to legitimately mark records as having been anonymised on purpose; and the existing work-around using NHS NUMBER STATUS INDICATOR CODE 07 in order to not include patient-identifiable data, will no longer be required.
- Data element WARD SECURITY LEVEL (which is currently used in MHMDS 4-0) has been added to all LOCATION GROUPS in all applicable Admitted Patient Care CDS types. This is to align CDS and MHMDS.

- Data element WAITING TIME MEASUREMENT TYPE (currently used in the Community Information Data Set) has been added to PATIENT PATHWAY data group (RTT Characteristics). This is to support the implementation of the Allied Health Professional Referral To Treatment standard (which is the subject of a separate ISB submission); and also to allow SUS to filter out AHP waiting time activity, from consultant-led waiting time activity.
- New data element START TIME (HOSPITAL PROVIDER SPELL) has been added to all applicable Admitted Patient Care CDS types (ADMISSION CHARACTERISTICS groups). This is at the request of the SUS User Group, and will be for local use only
- New data element DISCHARGE TIME (HOSPITAL PROVIDER SPELL) has been added to all applicable Admitted Patient Care CDS types (DISCHARGE CHARACTERISTICS groups). This is at the request of the SUS User Group, and will be for local use only
- New data element APPOINTMENT TIME has been added to the Outpatient CDS types (CARE ATTENDANCE – ACTIVITY CHARACTERISTICS). This is at the request of the SUS User Group, and will be for local use only
- New data element ACCIDENT AND EMERGENCY INITIAL ASSESSMENT DATE has been added to CDS type 010 (A&E) ATTENDANCE OCCURRENCE – ACTIVITY CHARACTERISTICS group. This is at the request of the SUS User Group, and will be for local use only
- New data element ACCIDENT AND EMERGENCY DATE SEEN FOR TREATMENT has been added to CDS type 010 (A&E) ATTENDANCE OCCURRENCE – ACTIVITY CHARACTERISTICS group. This is at the request of the SUS User Group, and will be for local use only
- New data element ACCIDENT AND EMERGENCY ATTENDANCE CONCLUSION DATE has been added to CDS type 010 (A&E) ATTENDANCE OCCURRENCE – ACTIVITY CHARACTERISTICS group. This is at the request of the SUS User Group, and will be for local use only
- New data element ACCIDENT AND EMERGENCY DEPARTURE DATE has been added to CDS type 010 (A&E) ATTENDANCE OCCURRENCE – ACTIVITY CHARACTERISTICS group. This is at the request of the SUS User Group, and will be for local use only
- New data element WARD CODE has been added to all LOCATION GROUPS in all applicable Admitted Patient Care CDS types. This is at the request of the SUS User Group, to replace the Very General Purpose data item (which is being removed at this release), and will be for local use only
- New data element CLINIC CODE to LOCATION GROUP – ATTENDANCE in the Outpatient CDS types. This is at the request of the SUS User Group, to replace the Very General Purpose data item (which is being removed at this release), and will be for local use only
- New data elements AMBULANCE INCIDENT NUMBER and ORGANISATION CODE (CONVEYING AMBULANCE TRUST) have been added to ATTENDANCE OCCURRENCE – ACTIVITY CHARACTERISTICS in Outpatients CDS types; and to HOSPITAL PROVIDER SPELL – ADMISSION CHARACTERISTICS in General Episode and Delivery Episode Admitted Patient Care CDS types. These items are to support national reporting of outcomes for patients transported to hospital by ambulance.

- New data element START TIME (EPISODE) has been added to CONSULTANT EPISODE – ACTIVITY CHARACTERISTICS group in all applicable Admitted Patient Care CDS types. This is at the request of the SUS User Group, and will be for local use only
- New data element END TIME (EPISODE) has been added to CONSULTANT EPISODE – ACTIVITY CHARACTERISTICS group in all applicable Admitted Patient Care CDS types. This is at the request of the SUS User Group, and will be for local use only
- New data element START TIME (WARD STAY) has been added to LOCATION GROUP (AT WARD STAY) group in all applicable Admitted Patient Care CDS types. This is at the request of the SUS User Group, and will be for local use only
- New data element END TIME (WARD STAY) has been added to LOCATION GROUP (AT WARD STAY) group in all applicable Admitted Patient Care CDS types. This is at the request of the SUS User Group, and will be for local use only
- New data element DISCHARGED TO HOSPITAL AT HOME SERVICE INDICATOR has been added to HOSPITAL PROVIDER SPELL - DISCHARGE CHARACTERISTICS group in all applicable Admitted Patient Care CDS types. This item will support national reporting of activity.
- New data element EXPECTED DURATION OF APPOINTMENT has been added to CARE ATTENDANCE - ACTIVITY CHARACTERISTICS group in the Outpatient CDS types. This is at the request of the SUS User Group, and will be for local use only
- Data element EARLIEST CLINICALLY APPROPRIATE DATE (currently used in the Community Information Data Set) has been added to CARE ATTENDANCE - ACTIVITY CHARACTERISTICS group in the Outpatient CDS types. This is to support the implementation of the Allied Health Professional Referral To Treatment standard
- Data elements and groups relating to OVERSEAS VISITOR STATUS CLASSIFICATION and, where applicable, the start and end dates of that classification have been added to all applicable CDS types. For 'event' CDS types (such as A&E and Outpatients), a single data element OVERSEAS VISITOR STATUS CLASSIFICATION AT CDS ACTIVITY DATE has been added. For 'period' CDS types (such as Finished General Episode), an OVERSEAS VISITOR group has been added, to allow up to 5 changes of overseas visitor status during an episode. This is at the request of the SUS User Group, to replace the Very General Purpose data item (which is being removed at this release), and will be for local use only
- The three data elements derived from GESTATION LENGTH (assessment, on delivery and labour onset) have had default code 99 added to the data element definition in the Data Dictionary. This is to correct an anomaly as the CDS-XML schema has always allowed value 99 to flow.
- Data element ACTIVITY LOCATION TYPE has been added to all applicable CDS types. This item replaces the placeholder LOCATION TYPE data element, which was not activated by the original sponsor. This is to support the implementation of the Allied Health Professional Referral To Treatment standard
- Data element CDS RECORD IDENTIFIER was present in the CDS 6-1-1 schema, but not visible in the CDS tables for CDS type 003 Message Header, in the Data Dictionary. This anomaly has been corrected and the item added to the tables (the CDS-XML schema is unchanged)

### **Changes to CDS-XML Schema only**

These are changes which have been applied to the CDS-XML schema only as they do not affect the related Data Dictionary pages.

- PROCEDURE DATE in INTENDED PROCEDURE - CLINICAL ACTIVITY GROUP (OPCS) - sub group SECONDARY PROCEDURES group – cardinality amended to 0..1 (optional). This is to align the secondary procedure date cardinality to the same as the primary procedure date (which is already optional) and is a fix to the schema
- Extraneous comments and text have been removed from the schema
- Date/Time validation has been added to the schema , as per CDS Business Rules S13 and S14 (see [http://www.datadictionary.nhs.uk/web\\_site\\_content/cds\\_supporting\\_information/cds\\_business\\_rules.asp?shownav=1](http://www.datadictionary.nhs.uk/web_site_content/cds_supporting_information/cds_business_rules.asp?shownav=1) )
- Restrictions have been placed on the ability to submit Neonatal and Adult Critical Care structures in CDS types where it would be impossible for these events to occur (eg an adult patient in a neonatal critical care unit). This has been done to match the defined CDS tables in the Data Dictionary.
- Some elements and data groups have been renamed for consistency with the Data Dictionary
- Schema version attributes have been added where missing
- SOURCE OF REFERRAL FOR OUTPATIENTS – retired value 08 has been removed from enumeration
- DIAGNOSIS SCHEME IN USE - retired value 03 has been removed from enumeration
- Unused data types have been removed
- Mental Health Act Legal Status Classification On Admission \_type and At Census Date \_type have been modified to be restrictions of Mental Health Legal Status Classification Code-type, and retired value 33 removed from enumerations
- All ORGANISATION CODE and ORGANISATION SITE CODE data items have had format/length min an3 max an12 applied. This has been agreed with the ISB and the Organisation Data Service, as due to the NHS Reorganisation, there are likely to be changes to ODS codes format/lengths; this change future-proofs the CDS-XML schema and will allow its continued use if code lengths change. Content validation will continue to be applied at the SUS end.
- Additional values 37 and 38 have been added to the enumerations allowed on MENTAL HEALTH ACT LEGAL STATUS CLASSIFICATION CODE. This is to ensure that CDS 6-2 aligns to a future version of MHMDS which is due to introduce these new values. These codes should not be submitted until the MHMDS version introducing them is introduced via ISN.
- CRITICAL CARE DISCHARGE STATUS has had value 11 added to the enumerations. This is to accommodate a change to this item resulting from a previously published ISN (see <http://www.isb.nhs.uk/documents/isb-0153/amd-81-2010/index.html>)
- Range constraint X81.0 to X97.9 has been removed for data item HIGH COST DRUGS (OPCS), as the range is about to be exceeded and it has been decided to validate the content upon receipt.

- A change to the mechanism for Net Delete transactions has been introduced, to avoid the current situation where senders of a Net Delete transaction must also send the original 'payload' CDS type. Often the data to complete this is not available (as the record has been deleted on the originating system) and so 'dummy' records containing only the mandatory data items must be created. To avoid this, an empty XML element has been created, which can be used instead of the original 'payload'. (PLEASE NOTE – THIS MECHANISM HAS NOT YET BEEN TESTED, SO THE EMPTY ELEMENT APPEARS IN THE CDS-XML SCHEMA BUT IS NOT MENTIONED IN THE DATA DICTIONARY – a DDCN will be produced to update the Data Dictionary once the mechanism has been approved by BT. Do not use this functionality until advised to do so by the Information Centre)
- The schema constraints on data element ORGAN SUPPORT MAXIMUM have been tightened to reflect the NHS Data Model and Dictionary definition of the data item, which states that only values 00 – 06 (including the leading zero) should flow.
- It was previously the intention to rename the Out-Patient CDS types (020 and 021) to 'Care Activity' at a previous version of CDS. However, this change was not approved by ISB. Unfortunately the CDS-XML schema had already been renamed; but this has been reversed at CDS 6-2, and CDS types 020 and 021 are now called Out-patients and Future Out-patients respectively.

### **Removals from CDS Tables and CDS-XML Schema**

This section covers data elements and groups which have been removed.

- Data group HEALTHCARE RESOURCE GROUP - ACTIVITY CHARACTERISTICS and its two data elements (HEALTHCARE RESOURCE GROUP CODE and HEALTHCARE RESOURCE GROUP CODE - VERSION NUMBER) have been removed from all applicable CDS types. These structures were designed to carry HRG 3-5 which has been superseded and is no longer required to flow.
- Data group HEALTHCARE RESOURCE GROUP - CLINICAL ACTIVITY and its two data elements (PROCEDURE SCHEME IN USE and HRG DOMINANT GROUPING VARIABLE - PROCEDURE) have been removed from all applicable CDS types. These structures were designed to carry HRG 3-5 which has been superseded and is no longer required to flow.
- CDS TEST INDICATOR has been removed from the CDS types 005B and 005N. This item was already notated that it should not be used
- LEGAL STATUS CLASSIFICATION CODE (AT START OF EPISODE) has been removed from CONSULTANT EPISODE - ACTIVITY CHARACTERISTICS. This item was introduced as a 'placeholder' for an expected development, which will not now take place.
- All Very General Purpose (VGP) fields have been removed from the CDS-XML schema. These fields were not defined in the Data Dictionary (or shown in the CDS tables) and were for local use only. However due to concerns about Information Governance, they have been removed. Certain VGP fields have been replicated within the formal CDS tables at this release – see 'new items' section above.

- LEAD CARE ACTIVITY INDICATOR has been removed from all applicable CDS types. This item was introduced as a 'placeholder' for an expected development, which will not now take place.
- MENTAL CATEGORY has been removed from CDS type 170 (Psychiatric Census). This data item was replaced by MENTAL HEALTH ACT 2007 MENTAL CATEGORY for the classification of patients, and should not now apply to any patients.
- LOCATION TYPE has been removed from all applicable CDS types. This item was introduced as a 'placeholder' for an expected development, which will not now take place. Its position in the CDS tables has been taken by ACTIVITY LOCATION TYPE (see New Items section above)