

Police Corporate Data Model (CorDM) and Corporate XML (CorXML)

CorDM ver7 / GDSC Mapping

REFERENCE: Police CorDM GDSC Mapping

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Product Control Page

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1.0	July 2006	Amended after External Review
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2.0	30 November 2007	Updated to Version 7 standard

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1 INTRODUCTION

1.1 Purpose of the Document

This document is to provide a map of the GDSC data attributes against those of the CorDM. This will facilitate any translation between the systems using the two standards and propose action as required to achieve closer alignment.

1.2 Details

The spreadsheet at Appendix B contains the following details:

- Class & Attribute name, format and datatype of the Government Data Standards Catalogue (GDSC) and the CorDM
- Categorisation of the differences between the GDSC and CorDM
- Comments on points of note

1.3 Background

When the CorDM was conceived, one of the principles was that it should, wherever possible, adopt the various established national and criminal justice standards.

This mapping has been carried out with CorDM version 7 and the published GDSC and XML schemata as at 04 August 2005.

1.4 Findings

In general CorDM and GDSC are aligned and use the same datatypes.

The situations where this is not the case are annotated in the mapping categories, which are explained with the relevant counts, in Appendix A.

A summary of the findings is documented below.

Description	Count
Total no change required	60
Total proposed changes to CorDM	27
Total proposed changes to GDSC	30

The majority do not need any attention and of the rest it is about 50:50 GDSC & CorDM. Some small, some requiring more effort.

1.5 Recommendations

The categories in the table at Appendix B propose what action might be taken to draw the two standards into line.

Most of these involve discussion between NPJA and eGU (e-Government Unit).

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2 Appendix A – Mapping Categories, Actions & Counts

The counts indicate the number of occurrences in each category from the mapping in Appendix B

No	Description	Action	Count
0	Compliant		44
0.1	CorDM uses GDSC datatype or same xsd: base	no action	40
0.2	CorDM does not use or require attribute	no action	4
1	Attributes		32
1.1	CorDM does not use GDSC structures only simpletypes	no action	16
1.2	GDSC does not use attribute	propose GDSC to investigate requirement for attribute	1
1.3	CorDM does not use attribute	propose CorDM to investigate requirement for attribute	15
2	Datatypes		16
2.1	GDSC does not use simpletypes for attributes	propose GDSC creates simpletypes	8
2.2	CorDM uses different datatypes to GDSC	propose CorDM changes to use GDSC datatype	3
2.3	GDSC does not use a datatype	propose GDSC uses a recognisable datatype	3

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No	Description	Action	Count
2.4	CorDM uses different datatype name	propose CorDM name change or mark as not a match	2
3	Semantics		9
3.1	GDSC has limited semantics	propose GDSC use wider / clearer definitions	8
3.2	GDSC and CorDM both use questionable semantics	propose re-examination of definition	1
4	CVs		3
4.1	GDSC uses different constrained values to CorDM	propose parties resolve and harmonise	3
5	Structure		9
5.1	CorDM handles situation in a different way	propose re-examine element to increase alignment	9
6	Standards		3
6.1	GDSC conflicts with CJIT	propose that the organisations resolve inconsistency	3

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3 Appendix B – Attribute & Datatype comparison

GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Address							
BS7666 Address			Standard Postal Address				
Post Code	X(8)	PostCodeType	Post Code	X(8)	PostCode		0.1
Primary Addressable Object Name	X(100)	<i>AONstructure</i>	(Primary Addressable Object Name)				1.1
PAON Description	A(90)	AONdescriptionType	PAON Description	A(90)	AONdescription		0.1
PAON Start Number	N(4)A	<i>AONrangeStructure</i>					1.1
Number	N(4)	positiveInteger	PAON Start Number ID	N(4)	PositiveInteger4		2.1
Suffix	A	string	PAON Start Suffix	A	String1		2.1
PAON End Number	N(4)A	<i>AONrangeStructure</i>					1.1
Number	N(4)	positiveInteger	PAON End Number ID	N(4)	PositiveInteger4		2.1
Suffix	A	string	PAON End Suffix	A	String1		2.1

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Secondary Addressable Object Name	X(100)	<i>AONstructure</i>	(Secondary Addressable Object Name)				1.1
SAON Description	A(90)	AONdescriptionType	SAON Description	A(90)	AONdescription		0.1
SAON Start Number	N(4)A	<i>AONrangeStructure</i>					1.1
Number	N(4)	positiveInteger	SAON Start Number ID	N(4)	PositiveInteger4		2.1
Suffix	A	string	SAON Start Suffix	A	String1		2.1
SAON End Number	N(4)A	<i>AONrangeStructure</i>					1.1
Number	N(4)	positiveInteger	SAON End Number ID	N(4)	PositiveInteger4		2.1
Suffix	A	string	SAON End Suffix	A	String1		2.1
Street Descriptive Identifier Structure		<i>StreetDescriptiveIdentifierStructure</i>					1.1
Administrative Area	X(30)	AdministrativeAreaType	Administrative Area	X(30)	AdministrativeArea		0.1
Locality	X(35)	LocalityType	Locality	X(35)	Locality		0.1
Street Descriptor	X(100)	StreetDescriptorType	Street Descriptor	X(100)	StreetDescriptor		0.1
Town	X(30)	TownType	Town	X(30)	Town		0.1

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
			PO Box ID	X(14)	POBoxID		1.2
			Location Reference			CorDM regards reference to physical places as Location and logical places as Address.	
Basic Land and Property Unit (BLPU)		<i>BasicLandAndPropertyUnitStructure</i>					1.1
			Code ID.Code Class	X(16)	LocationReferenceCodeClass	Code is key to CV values Code Class (UPRN & USRN)	5.1
Unique Property Reference Number	N(12)	UPRNtype	Unique Property Reference Number			CV value	5.1
Unique Street Reference Number	N(8)	USRNtype	Unique Street Reference Number			CorDM covered by Location Reference	5.1
Country Code	A(3)	None	Country Class	A(2/3)	CountryClass	CorDM uses ISO 3166	2.3
International Address		<i>InternationalAddressStructure</i>	International Mail Address				1.1
Int Address Line	X(35)	AddressLineType	Line 1	X(35)	AddressLine		0.1

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Int Address Line	X(35)	AddressLineType	Line 2	X(35)	AddressLine		0.1
Int Address Line	X(35)	AddressLineType	Line 3	X(35)	AddressLine		0.1
Int Address Line	X(35)	AddressLineType	Line 4	X(35)	AddressLine		0.1
Int Address Line	X(35)	AddressLineType	Line 5	X(35)	AddressLine		0.1
International Post Code	X(35)	InternationalPostCodeType	Postcode	X(35)	InternationalPostCode		0.1
Country	X(35)	AddressLineType	Country Class	A(2/3)	CountryClass	CorDM uses ISO 3166	2.3
UK Postal Address		<i>UKPostalAddressStructure</i>	UK Mail Address				1.1
Line	X(35)	AddressLineType	Line 1	X(35)	AddressLine		0.1
Line	X(35)	AddressLineType	Line 2	X(35)	AddressLine		0.1
Line	X(35)	AddressLineType	Line 3	X(35)	AddressLine		0.1
Line	X(35)	AddressLineType	Line 4	X(35)	AddressLine		0.1
Line	X(35)	AddressLineType	Line 5	X(35)	AddressLine		0.1

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CorDM/ GDSC Mapping

GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Post Code	X(8)	PostCodeType					1.3
UK Internal Code	N(2)	None					1.3
UK Local Authority Code	NNAA	None					1.3
Contact Information							
Internet Email Address		<i>EmailStructure</i>	Email Address				1.1
EmailAddress	X(255)	EmailAddressType	Label		EmailAddress		0.1
UK Telephone Number	N(35)	<i>TelephoneStructure</i>	Telephone Number				1.1
TelNationalNumber	X(20)	TelephoneNumberType	Label		RestrictedString	CorDM number include foreign numbers	3.1 / 2.2
TelExtensionNumber	N(6)	TelephoneExtensionType	Extension		String8	CorDM number include foreign numbers	3.1 / 2.2
TelCountryCode	N(3)	TelCountryCodeType	International Code ID		TelCountryCode		0.1
TelUse		WorkHomeType					5.1

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
TelMobile		YesNoType					5.1
TelPreferred		YesNoType					5.1
Uniform Resource Locator (URL)	None	None					1.3
Financial							
Amount		AmountType					0.1
Amount Sterling		<i>AmountSterlingStructure</i>	Currency Amount			GDSC always GBP	3.1
Amount		AmountType	Value		Amount		0.1
Currency		CodeType	Class		CurrencyClass		2.4
Currency Type		CodeType			CurrencyClass	Both use ISO 4217	2.4
Dun's Number	X(11)	DunsNumberType					5.1
Percentage	X(21)	PercentageType					0.2
UK Government Financial Year	N(4)	UKGovernmentFinancialYearType					1.3

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CorDM/ GDSC Mapping

GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
UK Tax Year	N(4)	UKTaxYearType					1.3
Identifiers							
Financial Identifiers							
			Bank Account				
UK Bank Account Name	X(40)	None	Name	X(40)	String40		2.3
UK Bank Account Number	N(8)	UKBankAccountNumberType	Number ID	N(8)	AccountNumberID		3.1
UK Bank Branch Sort Code	N(6)	UKBankBranchSortCodeType	Sort Code ID	N(6)	AccountSortCodeID	Sort Code = UK only	3.1
			Building Society Account				
UK Building Society Account Number	X(18)	UKBuildingSocietyAccountNumberType	Reference	X(18)	BuildingSocietyAccountReferenceID	Building Society = UK only	2.2
			Cheque Transaction				
UK Cheque Number	N(6)	UKChequeNumberType	Sequential Number ID	N(6)	UKChequeNumber		3.2
Person Identifiers							

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Driver Number	X(16)	DriverNumberType	Person DVLA Driver Number : ID		DriverNumber		0.1
National Insurance Number	X(9)	NationalInsuranceNumberType	National Insurance Number : ID		NationalInsuranceNumber		0.1
NHS Number	X(10)	DigNHSnumberType	Person Unstructured Identifier : Label	X(35)	String35	Make it an attribute	1.3
Passport Number (New)	N(9)	PassportNumber_NewType	Passport : Number ID	X(20)	String20	CorDM only has one passport number type covering blue, red & non UK passports	3.1
Passport Number (Old)	X(6)	PassportNumber_OldType	Passport : Number ID	X(20)	String20	CorDM only has one passport number type covering blue, red & non UK passports	3.1
Unique Tax Reference Number	N(10)	UniqueTaxReferenceType	Person Tax Reference Number : ID	N(10)	UniqueTaxReference		0.1
Technical Identifiers							
Universally Unique Identifier - UUID	X(36)	None					0.2
Organisation Information			Organisation				
Companies House Reference Number	A(2)N(6)	CompaniesHouseReferenceNumberType	Companies House Reference ID		CompaniesHouseReferenceNumber		0.1

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Organisation Name	N(255)	OrganistionNameType	Name		OrganistionName		0.1
Standardised Industrial Classification Number	N(5)	StandardisedIndustrialClassificationNumberType					0.2
Value Added Tax Number	N(6)	ValueAddedTaxNumberType					1.3
Other							
DWP Service Code	N(2)	None					0.2
Language	A(3)	LanguageIdentificationCodeContentType	Language Class	A(3)	CJITLanguageClass	CorDM uses CJIT	6.1
Person Information							

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Person Birth Date		<i>PersonBirthDateStructure</i>	Person Birth			There is a need for partial Birth Dates to be recorded in CorDM when an exact date of birth is not known e.g. a person born sometime in 1980. However a partial date can only be held in a data type of string which is not GDSC compliant	1.1
Person Birth Date	X(10)	DateType	Date		Date	CorDM uses partial date. Propose GDSC examine requirement	5.1
Verification Level	N(1)	VerificationLevelType					1.3
Person Death Date		<i>PersonDeathDateStructure</i>	Person Death				1.1
Person Death Date	X(10)	DateType	Date		Date		0.1
Verification Level	N(1)	VerificationLevelType					1.3
Person Ethnicity		CommonEthnicCategoryType	Person Ethnicity : 16 Point Code Class		PersonEthnicity16PointCodeClass	Home Office mandates 16+1 on police	6.1
Person Marital Status		<i>PersonMaritalStatusStructure</i>	Person Life Circumstances				1.1
Marital Status	A(1)	MaritalStatusType	Person Marital Status Class	N(1)	PersonMaritalStatusClass	GDSC uses 1 alpha, CorDM 1 numeric for the same text values CorDM should change	4.1
Verification Level	N(1)	VerificationLevelType					1.3

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Person Name		<i>PersonNameStructure</i>					1.1
Person Family Name	X(35)	PersonFamilyNameType	Person Structured Name : Surname	X(35)	PersonFamilyName		0.1
Person Full Name	X(70)	PersonFullNameType	Person Structured Name : Full Name	X(70)	PersonFullName		0.1
Person Given Name	X(35)	PersonGivenNameType	Person Forename : Label	X(35)	PersonGivenName		0.1
Person Initials	X(35)	PersonInitialsType	Person Structured Name : Initials	X(35)	PersonInitials	GDSC UML inconsistent with catalogue. Why repeating if length is 35.	0.1
Person Name Suffix	X(35)	PersonNameSuffixType	Person Suffix : Label	X(35)	PersonNameSuffix		0.1
Person Requested Name	X(70)	PersonRequestedNameType	Person Structured Name : Full Name	X(70)	PersonFullName	Unsure as to difference between this and Full Name	5.1
Person Title	X(35)	PersonNameTitleType	Person Title : Label	X(35)	PersonNameTitle		0.1
Person Place of Birth	X(30)	TownType	Person Birth : Place Name		String40	CorDM allows for places of birth other than UK Town	3.1
Person Religion		CommonReligionType	Person Life Circumstances : Religion Class		ReligionClass	GDSC has 8 values CorDM (CJIT) has about 70	6.1
Person Sex							
Person Gender at Registration	N(1)	GenderAtRegistrationType				CorDM does not have both recordings	1.3
Person Gender Current	N(1)	GenderCurrentType	Body Description : Sex Class		SexClass	GDSC does not have 0 = unknown	4.1

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GDSC			CorDM				
Name	Format	Datatype	Name	Format	Datatype	Comments	Mapping Category
Relationships							
Person Relationship Type	N(2)	None	Person Relationship : Class		PersonRelationship Class	GDSC has 11 values CorDM has about 80	4.1
Temporal							
Date	X(10)	DateType	Date		Date		0.1
Date and Time	X(25)		DateTime		DateTime		0.1
Duration Hours							1.3
Periodicity Type	N(2)						1.3
Preferred Contact Time	X(35)						1.3
Time	X(8)		Time		Time		0.1
Year and Month	X(7)		Year		Year	Where used format is consistent	0.1
			Month		Month	Where used format is consistent	0.1

4 Appendix C - Acronyms and Abbreviations

Abbreviations	Name
CJIT	Criminal Justice Information Technology
CorDM	Corporate Data Model
CV	Constrained Value
eGU	e-Government Unit (formerly Office of the e-Envoy)
GDSC	Government Data Standards Catalogue
IT	Information Technology
NPIA	National Policing Improvement Agency
UML	Unified Modelling Language
XML	eXtensible Mark up Language