HM Land Registry
Local Land Charges

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Local Land Charges Data Specification

Version 1.5.7

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Contents

1. Introduction

A Local Land Charge (LLC) is an obligation, restriction or prohibition on a particular parcel of land which is binding on successive owners or occupiers of that piece of land. Each of the local authorities across England and Wales currently maintain a register of LLCs that affect land and property within their jurisdiction. Each local authority has their own processes, data and service standards.

HM Land Registry (HMLR) will take over the statutory responsibility for registering LLCs and delivering the official search product against this register in England and Wales, implementing the powers granted under the Infrastructure Act 2015.

HMLR has established the LLC Programme to deliver the register and associated services, the scope of which is to take all the English and Welsh local authority registers and replace them with a single digital register, resulting in HM Land Registry becoming the sole registering authority and official search provider for LLC.

HMLR will digitise and/or transform LLC records currently held in local authority registers containing data in different formats. Once their data has been migrated and becomes live in the HMLR LLC Register, the Originating Authorities will be required to update the register to record all LLCs that are newly registered.

The aim of this document is to describe the data specification for LLC data that will be held in the HMLR LLC Register.

2. Scope

This document stipulates the data specification for Local Land Charges that will be required to fulfil the statutory requirement of Schedule 5 to the Infrastructure Act 2015. The specification describes the required 'end state' of the LLC data, which must be achieved either as a result of migration of existing LLC Registers, or creation of new data for the LLC programme to support delivery of LLC Register Service.

The data specification has been developed to describe the most prevalent LLC types known at the date of authorship, the specification may be updated and amended, with appropriate version control, if additional charge types are found.

HMLR's expectations for compliance with, and adherence to, the defined specification are explicitly set out in the Acceptable Quality Levels (AQL) that are described at Section 6.2 of the Specification below.

Approval has only recently been received to incorporate Wales within HMLR's LLC register, consequently there may be a need to expand this data specification to include specific additional data items for Wales. These are currently been investigated.

3. Overview

3.1 Name

Local Land Charges Data Product Specification

3.2 Informal description

3.2.1 Scope and concepts

Data specification will be based on the following inputs:

- Statutory requirements

  A Local Land Charge (LLC) is an obligation, prohibition or restriction on a particular parcel of land, which is binding on successive owners or occupiers of that piece of land. Under Schedule 5 to the Infrastructure Act 2015HM Land Registry will deliver and manage a single LLC Register for England and Wales.

- Government requirements

  The LLC data specification will follow Government Digital Service guidelines for registers and open data standards.

- Stakeholder requirements

  LLC Programme will take the English and Welsh LLC Registers currently held at local authorities, and migrate them into a single, uniform, digital, geospatial register, providing uniformity of access and pricing. Once the data have been transferred and become live in the register, the Chief Land Registrar will become the registering authority. From that date, the originating authorities will update charges in the central register.

- Business requirements

  The LLC data specification will follow the data principles as set by HM Land Registry

- Customer requirements

  Customer research will define customer requirements which will inform the LLC data specification.

3.2.2 Scope related to Local Land Charges

All LLC records are defined by Section 1 of the Local Land Charges Act 1975, that have been legitimately registered and are not time expired or otherwise discharged. It will also include details of the charge as defined in the LLC Rules 2018 which will take effect once the Chief Land Registrar becomes the registering authority for a particular local authority area.

3.2.3 Modelling approach

Data modelled using basic (Unique Modelling Language (UML) model to describe the generic core model that encompasses the core feature types.

The core model describes the generic attribute requirements across all LLC records; this is extended to define sub-sets of LLC records with unique attribution or specific properties.

The boundaries of the Geometry do not necessarily coincide with natural borders of geographic or natural phenomena but relate to legal entities as defined by the local land charge.

Subject to compliance with the specified geometry tests, the Geometry will solely reflect the decision of the responsible LA registering authority (the current local registering authority where an existing LLC is digitised and transformed into the LLC

Register Service) or the Originating Authority (where the a newly created LLC is registered in LLC Register Service).

A specific area can be concurrently affected by two or more registered LLC, each with their own Geometry.

3.3 Normative References

Local Land Charge Act 1975
http://www.legislation.gov.uk/ukpga/1975/76/contents

Local Land Charge Rules 1977
http://www.legislation.gov.uk/cy/uksi/1977/985/made

The Infrastructure Act 2015 (Part 5)
http://www.legislation.gov.uk/ukpga/2015/7/part/5/enacted

Local Land Charge Rules 2018
http://www.legislation.gov.uk/uksi/2018/273/contents/made

Open Registers specification – Government Digital Service
https://spec.openregister.org/

ISO Standards on Geographic Information with particular attention to:
ISO 19110 Geographic Information - Feature Catalogues
ISO 19131 Geographic Information – Data product specifications
ISO 19157 Geographic Information – Data Quality

Inspire Data Specification on Area Management / Restriction / Regulation Zones and Reporting Units – Technical Guide
http://inspire.ec.europa.eu/documents/Data_Specifications/INSPIRE_DataSpecification_AM_v3.0rc3.pdf

LLC Pre-Migration Guide
https://www.gov.uk/government/publications/local-land-charges-local-authority-pre-digitisation-and-migration-guide/local-land-charges-local-authority-pre-digitisation-and-migration-guide

3.4 Terms and definitions

Code lists/registers: A single, authoritative register, or directory, of specific information, which is open, available and maintained by a designated custodian, which may be used to populate specific attributes within the LLC Register Service.

Conceptual consistency: Measurement of adherence to/compliance with Conceptual Schema**.** If the conceptual schema explicitly describes rule, these rules shall be followed. Violations against the rules can be for example, invalid placement of features (geometries) within a defined tolerance, duplication of features and invalid overlap of features.

Conceptual Schema: Rules and relationships defined by the UML data model.

Digitisation and Transformation: The process of converting non-digital records into a digital form and (where required) converting digital records in to the format that is required to enable the data to be imported into the new LLC Register Service.

Domain Consistency: Attribute values must fall within certain range or assume only certain pre-defined values**.** The domain describes the values that must be entered for that attribute, the domain is a list (described in the feature catalogue), a code list (referenced in the feature catalogue), or an enumeration list (referenced in the feature catalogue).

Geometry: A single line, point or polygon stored and displayed as part of the LLC Register Service, reflecting the full or partial extent of a single LLC record, as defined by the Local registering authority (where an existing LLC is digitised and transformed into the LLC Register Service) or the Originating Authority (where the a newly created LLC is registered in LLC Register Service).

Geometry ID: A unique reference associated to each Land Interest Geometry for the entirety of its life cycle.

Land Description: Textual description of the land affected by the LLC as described by the local registering authority (where an existing LLC is digitised and transformed into the LLC Register Service) or the Originating Authority (where the a newly created LLC is registered in LLC Register Service).

LLC Registers: The LLC Registers kept for each local authority area contain the particulars of registration for each LLC entry and identify the extent of the land affected by each charge.

LLC Register Part: The part of the register as defined in LLC Rules 1977 rule 3 from which the LLC was migrated – this attribute is only populated for digitised/transformed records.

LLC Register Service: The LLC Register to be kept by the Chief Land Registrar of each LLC entered in a LLC Register before the registrar assumed the LLC function for that local authority area and of each LLC subsequently registered for land in that area. The new LLC Register will be a single, digital register.

Migrating Authority: The name of the Local Authority from which the Local Land Charge was migrated; one per Local Land Charge – this attribute is only populated for digitised/transformed records.

Multiplicity: Represents the number of times the specified attribute can legitimately be entered against each individual LLC.

Originating Authority: The body by whom the charge is brought into existence or by whom it is enforceable in coming into existence. The originating authority is most often a local authority but there are many other non-local authority originating authorities.

Particulars of Registration: The particulars that must be entered in the LLC Register in relation to the type of charge concerned (for example description of the charge, the originating authority, the place where relevant documents may be inspected and the date of registration).

Registering Authority: The authority responsible for registering local land charges affecting land in their area. The registering authorities are currently local authorities but this will cease to be the case as responsibility for local land charges for local authority areas incrementally transfers to HM Land Registry.

Voidable: Used to characterise properties that may not be present in some data sets, even though they may be present or applicable in the real world. (Inspire 5.2.2 - voidable code list).

3.5 Symbols and abbreviations

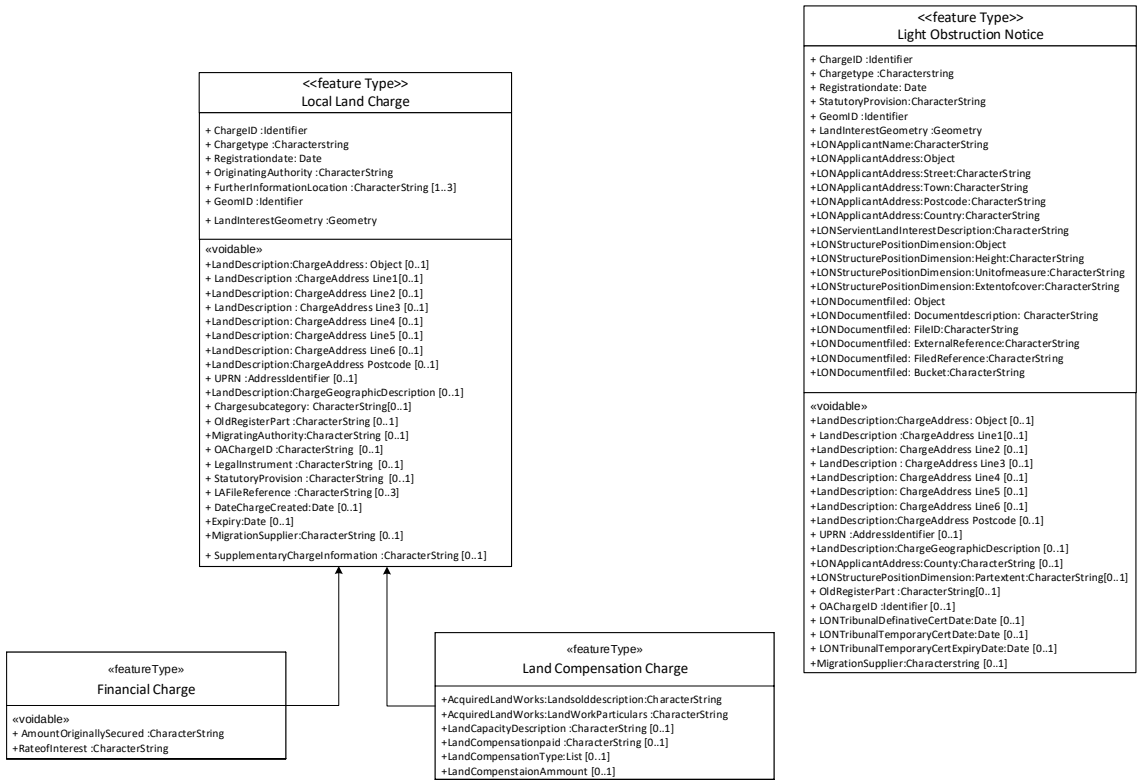
HMLR – HM Land Registry
OS – Ordnance Survey
LON – Light Obstruction Notice
SSSI – Site of special scientific interest
TPO – Tree preservation order
UML – Unified Modelling Language
[..] - Spectrum of legitimate Multiplicity
[..*] - No maximum number within Multiplicity

4. Data content and structure

4.1 Application Schema Local Land Charges

4.1.1 Description

UML Class Diagram Local Land Charges



4.2 Feature Catalogue

Feature Catalogue	
Name:	**Local Land Charges**
Scope:	All known Local Land Charges, catalogue to be configured and updated for each newly identified Local Land Charge.
Version Number:	1.4.4
Version Date:	08/07/2020
Producer:	HM Land Registry

Feature Name:	**Local Land Charge**
Definition:	The Local Land Charge feature type is the data container for the most common Local Land Charge types, all of which contain common geometry and attribute requirements.
Mandatory Attributes	
Attribute:	**ChargeID**
Name:	Charge Identifier
Value type:	String
Definition:	The identifier of the Charge issued by and used within HMLR. A means to manage the lifecycle of the charge object within the system.
Description:	Base 31 (1-0 and a-z excluding vowels which are not allowed).
Multiplicity:	1
Attribute:	**Chargetype**
Name:	Charge Type
Value type:	String
Definition:	A description of the general category of charge for each LLC recorded in the LLC Register Service
Description:	One of the following will be used: ‘Planning’, ‘Listed Building’, ‘Housing’, ‘Land Compensation’, ‘Financial’, ‘Other’.
Multiplicity:	1
Attribute:	**Registrationdate**
Name:	Registration date
Value Type	Date
Definition	Date of entry on the Land Charges Register, for existing charges it is the date entered on the current register.

	The registration date will be: • Prior to, or equal to, the date of capture • Later than, or equal to, any supplied Charge Creation date • Later than 1925
Description	Calendar date in YYYY-MM-DD format
Multiplicity	1
Attribute:	**OriginatingAuthority**
Name:	Originating Authority
Value type:	String
Definition:	The name of the Authority or Body that created the charge or becomes such by virtue of the Operation of Law Each instance of the same Originating Authority will be captured as a standard representation, defined in the local business rules
Description:	The Originating Authority may be the identified local registering authority, or other designated authority as defined by the Local Land Charges Act 1975
Multiplicity:	1
Attribute:	**FurtherInformationLocation**
Name:	Point for further information
Value type:	String
Definition:	A 'sign post' to enable a service user to obtain further information about a revealed charge. Each instance of the same further information address will be captured as a standard representation, defined in the local business rules
Description:	The location can be either physical or electronic address. Maximum 500 characters
Multiplicity:	1
Attribute:	**GeomID**
Name:	Geometry Identifier
Value type:	Identifier
Definition:	Identifier of the spatial object.
Description:	A unique object identifier created by HM Land Registry, used to reference the geometry feature. The GeometeryID is an identifier of the spatial object, not an identifier of the real-world phenomenon (Inspire data spec 5.32.)
Multiplicity:	1
Attribute:	**LandInterestGeometry**
Name	Geometry
Value type:	Geometry

Definition:	Identifies the full or partial extent of a single LLC record, stored and displayed as part of the LLC Register Service.
Description:	Spatial object captured as GeoJSON feature collection. Individual features may only comprise either point, linestring or polygon geometries. A single geometry item will be created containing a maximum 500 features
Multiplicity:	1
Voidable Attributes	
Object:	**LandDescription: Charge Address**
Name:	Charge Address
Definition	Description of location of the charge
Description	Land Description may be recorded as charge address or geographic description. Where Address is used, the data will be entered in the following semi-structured format using the following attributes: [Note: The semi-structured format described in the LLC Spec does not comply with BS7666]
Attribute:	**LandDescription: Charge Address Line 1**
Name:	Secondary Address Information
Value type:	String
Definition:	Information that provides additional detail to the land description address. Can be a numeric or textual value, or a combination of both,
Description:	Where Charge address is used Line 1 **must be** completed
Multiplicity:	1
Attribute:	**LandDescription: Charge Address Line 2**
Name:	Primary Address Information
Value type:	String
Definition:	Primary means of describing the land or property location. Can be a textual value, or a combination of numeric and textual value; cannot be just numeric.
Description:	Where Charge address is used Line 2 **may be** completed
Multiplicity:	0..1
Attribute:	**LandDescription: Charge Address Line 3**
Name:	Supplementary Address Information
Value type:	String
Definition:	The name of the road or street upon which the land/property is situated
Description:	Textual information that provides additional detail to the land description address. Where Charge address is used Line 3 may be completed; line 3 will not be used where street or road are adequately described at line 2.
Multiplicity:	0..1

Attribute:	**LandDescription: Charge Address Line 4**
Name:	Supplementary Address Information
Value type:	String
Definition:	Additional numeric or textual information that provides additional detail to the land description address.
Description:	Where Charge Address is used Line 4 may be completed
Multiplicity:	0..1
Attribute:	**LandDescription:Charge Address Line 5**
Name:	Supplementary Address Information
Value type:	String
Definition:	Additional numeric or textual information that provides additional detail to the land description address.
Description:	Where Charge Address is used Line 5 may be completed
Multiplicity:	0..1
Attribute:	**LandDescription:Charge Address Line 6**
Name:	Supplementary Address Information
Value type:	String
Definition:	Additional numeric or textual information that provides additional detail to the land description address.
Description:	Where Charge Address is used Line 6 may be completed
Multiplicity:	0..1
Attribute:	**LandDescription:Postcode**
Name:	Postcode
Value type:	String
Definition:	Alpha-numeric code allocated by Royal Mail; combines with primary addressable object information to identify unique delivery point.
Description:	Where Charge Address is used, Postcode **must be** completed
Multiplicity:	0..1
Attribute:	**UPRN**
Name:	Unique Property Reference Number
Value type:	Integer
Definition:	Unique reference number allocated by Geo-Place that identifies addressable locations in the UK.
Description:	Where Charge Address is used UPRN **must be** completed
Multiplicity:	1
Attribute:	**LandDescription: ChargeGeographicDescription**
Name:	Charge Geographic Description
Value type:	String
Definition:	Description of non-addressable land and/or property affected by LLC

	Charge geographic description must contain sufficient information to enable identification of the general geographic position of the charge, by reference to: • A named/numbered address OR • Street/Road name • Town/District name • Full or partial postcode
Description:	Where Charge Address is not used Charge Geographic Description must be completed; max of 1000 characters
Multiplicity:	0..1
Attribute:	**Chargesubcategory**
Name:	Sub- category or sub charge-type
Value type:	String
Definition:	Additional classification to identify specific LLC entries
Description:	Conditional: Where one of the following primary Charge Types has been used, 'Planning', 'Listed Building', 'Housing' or 'Other' the appropriate sub-category must be entered from a fixed list. A full list of Sub-Charge types and their appropriate association with primary Charge Types is at Annex A [Note: Subject to change]
Multiplicity:	0..1
Attribute:	**OldRegisterPart**
Name:	Local Land Charge Register Part
Value type:	String
Definition:	Referencing mechanism historically used to classify LLC registers into 12 distinct groups
Description:	Only the following numerical entries are allowed: '1', '2', '3b', '4', '6a', '6b', '7', '8', '9', '10', '11' '12'. Note: '5' is intentionally omitted This attribute is only required where pre-existing LLC records are migrated into the HMLR Register.
Multiplicity:	0..1. Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation &Transformation, but this will not be an ongoing requirement when new LLC is registered into the LLC Register Service
Attribute:	**MigratingAuthority**
Name:	Name of Migrating Authority
Value type:	String
Definition:	The name of the local authority which held the charge on its register prior to LR assuming responsibility for the service Each instance of the same Migrating Authority will be captured as a standard representation, defined in the local business rules

Description:	A standard textual description for each Local Authority: This attribute is only required where pre-existing LLC records are migrated into the HMLR Register.
Multiplicity:	0..1. Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation &Transformation, but this will not be an ongoing requirement when new LLC are registered into the HMLR LLC Register Service
Attribute:	**OAChargeID**
Name:	Originating authority charge identifier
Value type:	String
Definition:	Unique charge identifier that has been allocated by, or allocated in agreement with, the Migrating Authority
Description:	The ID of the charge will be allocated as follows (i) if an identifier exists in the existing LA paper, electronic or digital records, the ID will be reproduced (ii) where no identifier exists in the existing records, ID will be allocated by the first supplier to handle the records and agreed with the LA.
Multiplicity:	0..1 Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation & Transformation, but this will not be an ongoing requirement when new LLC are registered into the HMLR LLC Register Service
Attribute:	**LegalInstrument**
Name:	Instrument
Value type:	String
Definition:	Description of the deed or document that gave rise to the original LLC
Description:	Where Legal Instrument is entered only one of the following entries may be used, ‘Agreement’, ‘Certificate’, ‘Covenants’, ‘Deed’, ‘Deed of Modification’, ‘Notice’, ‘Order’, ‘Resolution’, ‘Scheme’, ‘Transfer’, ‘Undertaking’. This is a voidable entry. [Note: The list of prescribed legal instruments may be subject to change based upon application of Local Business Rules]
Multiplicity:	0..1
Attribute:	**StatutoryProvision**
Name:	Statutory Provision
Value type:	String
Definition:	The legislation under which a local land charge has arisen, whether expressly or otherwise.

	Where multiple charges include details of the same statutory provision, each instance of the same statutory provision will be captured as a standard representation.
Description:	[Note Where applicable Local Business Rules will be supplied, which will describe the statutory provisions that may be captured for a specific Local Authority and define the required relations with charge types. This is a voidable entry
Multiplicity:	0..1
Attribute:	**LAFileReference**
Name:	Reference
Value type:	String
Definition:	Reference allocated by LA to link primary LLC record in the HMLR register to the associated internal records or documents that may be needed to give a full description of the charge, or the land, building, objects or structures effected.
Description:	Exact replication of reference supplied by LA Up to a max of 255 characters.
Multiplicity:	0..1
Attribute:	**DateChargeCreated**
Name:	Date charge created
Value type:	Date time
Definition:	Date on which the registered charge first came into existence
Description:	Calendar date in YYYY-MM-DD format
Multiplicity:	0..1
Attribute:	**Expiry Date**
Name:	Expiry Date
Value type:	Date
Definition:	Future date when the LLC will cease to take effect
Description:	Where a charge is enforceable for a fixed term, the expiry will be expressed as a future date, which will be recorded in YYYY-MM-DD format.
Multiplicity:	0..1
Attribute	**Migration Supplier**
Name:	Migration Supplier
Value type:	String
Definition:	Name, or abbreviated code, to identify partner company or organisation responsible for migrating the pre-existing land charges into the HMLR LLC Register
Description	This attribute is only required where pre-existing LLC records are migrated into the HMLR Register.
Multiplicity:	0..1. Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation &Transformation, but

	this will not be an ongoing requirement when new LLC are registered into the HMLR LLC Register Service
Attribute	**SupplementaryChargeInformation**
Name:	Supplementary Information
Value type:	String
Definition:	Additional relevant information that can give additional detail of the effect of the registered charge and/or the land effected by it.
Description	Maximum of 1500 characters
Multiplicity:	0..1

Feature Name:	**Land Compensation Charge**
Definition:	A specific type of LLC where either: The owner of retained land may be entitled to compensation because of damage from public works on the acquired land OR The LLC contains provisions for advance payment of compensation where compensation is not agreed by the time land is taken..
Description	The Land Compensation Charge comprises all of the attributes in the Local Land Charge plus additional attributes defined here.
Voidable Attributes	
Attribute:	**AcquiredLandWorksParticulars:LandSoldDescription**
Name:	Land sold description
Value type:	String
Definition:	Description of the land acquired by the LA that is subject to the works defied in 'Acquired Land Work Particulars'
Description:	Maximum of 400 characters
Multiplicity:	0..1
Attribute:	**AcquiredLandWorksParticulars:LandWorksPariculars**
Name:	Land works particulars
Value type:	Character string
Definition:	A description of the work undertaken on the acquired land for which compensation has been paid
Description:	Where Attribute 'Acquired Land Works Particulars: Land Sold Description' is used Land Works Particulars is mandatory. Maximum of 400 characters
Multiplicity:	0..1

Attribute:	**LandCapacityDescription**
Name:	Land Capacity Description
Value type:	String
Definition:	The legal capacity in which the land is held. Specifies whether acquired land was freehold/leasehold etc.
Description:	Where Attribute 'Acquired Land Works Particulars: Land Sold Description' is used Land Capacity Description is not allowed.
Multiplicity:	0..1
Attribute:	**LandCompensationPaid**
Name:	Particulars of advance payment
Value type:	String
Definition:	Details of the compensation already paid in respect of acquiring the land. (NB: while this is usually a financial amount, other considerations may be made.)
Description:	Must be applied where Charge Type is defined as 'Land Compensation' & Attribute 'Land Capacity Description' has been used. The field must contain numerals only – no text or £ or $ signs The field must always contain a whole numeric value It may contain a decimal Where a decimal is used it must be recorded to two decimal places.
Multiplicity:	0..1
Attribute:	**LandCompensationType**
Name:	Description of type of payment made
Value type:	String
Definition:	Describes whether the compensation was paid in respect of an agreed or estimated amount
Description:	May be applied where Charge Type is defined as 'Land Compensation' & Attribute 'Land Capacity Description' has been used. Only 'Agreed Amount' or 'Estimated Amount' will be used
Multiplicity:	0..1
Attribute:	**LandCompensation Amount**
Name:	Amount of compensation paid
Value type:	String

Definition:	Describes the total amount of compensation payable to the landowner.
Description:	May be applied where Charge Type is defined as 'Land Compensation' & Attribute 'Land Capacity Description' has been used. The field must contain numerals only – no text or £ or $ signs The field must always contain a whole numeric value It may contain a decimal Where a decimal is used it must be recorded to two decimal places.
Multiplicity:	0..1

Feature Name:	**Financial Charges**
Definition:	A type of LLC recoding financial burdens in respect of works on land, buildings or highways or other encumbrances
Description	The Financial Charge charge type covers both Specific and General Financial Charge. A specific financial charge will be designated by virtue of having 'Amount Originally Secured' completed.
Voidable Attributes	
Attribute:	**AmountOriginallySecured**
Name:	Amount Originally Secured
Value type:	String
Definition:	The financial amount secured at the time the charge was created.
Description:	Completion of this field infers a Specific Financial Charge has been recorded The field must contain numerals only – no text or £ or $ signs The field must always contain a whole numeric value It may contain a decimal Where a decimal is used it must be recorded to two decimal places.
Multiplicity:	0..1
Attribute:	**RateofInterest**
Name:	Rate of Interest
Value type:	String
Definition:	The rate of interest on the amount secured
Description:	Will only be applied where Amount Originally Secured is entered. The field may contain numerals and may also contain symbols and/or contextual written description E.G '5%' or '5% above the Bank of England Baserate.' r The field may contain a whole numeric value

	It may contain a decimal Where a decimal is used it must be recorded to two decimal places.
Multiplicity:	0..1

Feature Name:	**Light Obstruction Notice**
Definition:	Light Obstruction Notice
Mandatory Attributes	
Attribute:	**ChargeID**
Name:	Charge Identifier
Value type:	String
Definition:	The identifier of the Charge issued by and used within HMLR. A means to manage the lifecycle of the charge object within the system.
Description:	Base 10 number without prefix
Multiplicity:	1
Attribute:	**Chargetype**
Name:	Charge Type
Value type:	String
Definition:	A description of the general category of charge for each LLC recorded in the LLC Register Service
Description:	Only 'Light Obstruction' may be used
Multiplicity:	1
Attribute:	**Registrationdate**
Name:	Registration date
Value Type	Date
Definition	Date of entry on the Land Charges Register, for existing charges it is the date entered on the current register
Description	Calendar date in YYYY-MM-DD format
Multiplicity	1
Attribute:	**StatutoryProvision**
Name:	Statutory Provision
Value type:	String
Definition:	The legislation under which a local land charge has arisen, whether expressly or otherwise.
Description:	For LON this will be S2(4) Rights of Light Act 1959

Multiplicity:	1
Attribute:	**GeomID**
Name:	Geometry Identifier
Value type:	Identifier
Definition:	Identifier of the spatial object.
Description:	A unique object identifier created by HM Land Registry, used to reference the geometry feature. The GeometeryID is an identifier of the spatial object, not an identifier of the real-world phenomenon (Inspire data spec 5.32.)
Multiplicity:	1
Attribute:	**LandInterestGeometry**
Name:	Geometry
Value type:	Geometry
Definition:	Identifies the full or partial extent of a single LLC record, stored and displayed as part of the LLC Register Service.
Description:	Spatial object captured as GeoJSON feature collection. Individual features may only comprise either point, linestring or polygon geometries. Maximum 500 features
Multiplicity:	1..*

Attribute:	**LONApplicantName**
Name:	Name/s
Value type:	String
Definition:	The name of individual or organisation applying for a Light Obstruction Notice
Description:	Field only required where charge type is LON
Multiplicity:	1
Object	**LONApplicantAddress**
Name:	LON Applicant Address
Value type	Object
Definition:	The address of each individual or organisation applying for a Light Obstruction Notice
Description:	The LON Applicant Address object will contain the following attributes
Multiplicity	**1**
Attribute:	**LONApplicantAddress:Street**
Name:	Applicant Address Street
Value type:	String

Definition:	Lead address information that may include property name, number, organisation and street name
Description:	Street must be completed
Multiplicity:	1
Attribute:	**LONApplicantAddress:Town**
Name:	Applicant Address Town
Value type:	String
Definition:	Name of town included in the applicant address
Description:	Town must be completed
Multiplicity:	1
	LONApplicantAddress: County
	Applicant Address County
	String
	Name of the county within the LON Applicant address
	County may be completed
	0..1
Attribute:	**LONApplicantAddress:Postcode**
Name:	Postcode
Value type:	String
Definition:	Postcode for the address of an applicant
Description:	Postcode must be completed
Multiplicity:	1
Attribute:	**LONApplicantAddress:Country**
Name:	Country name
Value type:	String
Definition:	Country for the address of an applicant
Description:	Country must be completed
Multiplicity:	1
Attribute:	**LONServientLandInterestDescription**
Name:	Land description

Value type:	String
Definition:	The capacity in which the applicant holds the land over which the acquisition of the right to light is prevented (The Servient Land)
Description:	Only the following may be used, ‘Freehold owner’, Tenant for a term of which 7 years remain unexpired’ or ‘Mortgagee in possession’ Field only required where charge type is LON
Multiplicity:	1
Object	**LONStructurePositionDimension**
Definition:	The position and dimension of a notional structure which if erected would block the light to the dominant building. This structure is notionally erected on the servient land (the dominant building is the subject of the charge).
Description	LONStructurePositionDimension object will contain the following attributes
Attribute:	**LONStructurePositionDimension:Height**
Name:	Height
Value type:	String
Definition:	Description of height of the notional structure .
Description:	Only the following may be used, a number or ‘Unlimited height’
Multiplicity:	1
Attribute:	**LONStructurePositionDimension:Unitsofmeasure**
Name	Height units
Value type:	String
Definition:	Description of units used to describe the height of the notional structure.
Description:	Only allowed if height attribute has been described using a number. Only the following may be used, ‘Feet’ or ‘Metres’
Multiplicity:	1
Attribute:	**LONStructurePositionDimension:Extentofcover**
Name	Extent description
Value type:	String
Definition:	Indicative description of the extent of the notional structure.
Description:	Only the following may be used, ‘All of the extent’ or ‘Part of the extent’

Multiplicity:	1
Attribute:	**LONStructurePositionDimension:Partextentexplainatorytext**
Name	Part extent explanatory text
Value type:	String
Definition:	Further information to help define the position of the notional structure
Description:	Only allowed if ‘Part of the extent’ has been used
Multiplicity:	0..1
Object	**LONDocumentFiled**
Name:	Documents filed in relation to LON
Definition:	Description of deeds or documents filed in relation to LON
Description	LONDocumentFiled object will contain the following attribute pair for each PDF document filed in relation to the LON
Attribute	**LONDocumentFiled:Documentdescription**
Name:	Name of document
Value type:	List
Definition:	Name of document filed in related to LON
Description:	‘Form-a’ must be used. Either ‘Temporary Certificate’ OR ‘Definitive Certificate’ must be used; it is permissible for both attributes to be used on a single charge. ‘Court Order’ and ‘Form b’ may both be used; it is permissible for these attributes to be used more than once on a single charge.
Multiplicity:	1
Attribute	**LONDocumentFiled:FileID**
Name:	File identifier
Value type:	String
Definition:	Unique reference to enable identification of each filed document
Description:	File reference must be entered for each document identified in the document description field
Multiplicity:	1
Attribute	**LONDocumentFiled:ExternalReference**
Name:	External reference
Value type:	String
Definition:	URL to the filed document

Description:	The URL acting as the external reference will be created by HM Land Registry.
Multiplicity:	1
Attribute	**LONDocumentFiled:Reference**
Name:	Reference
Value type:	String
Definition:	A file path to the filed document
Description:	The file path reference will be created by HM Land Registry
Multiplicity:	1
Attribute	**LONDocumentFiled:Bucket**
Name:	Bucket
Value type:	String
Definition:	Details of where on S3 the LON documents are held
Description:	S3 storage bucket will be created by HM Land Registry
Multiplicity:	1

Voidable Attributes	
Object	**LandDescription: Charge Address**
Name:	Charge Address
Definition:	Description of location of the charge
Description:	Land Description may be recorded as charge address or geographic description. Where Address is used, the data will be entered in the following semi-structured format using the following attributes: [Note: The semi-structured format described in the LLC Spec does not comply with BS7666]
Attribute:	**LandDescription: Charge Address Line 1**
Name	Secondary Address Information
Value type:	String
Definition:	Information that provides additional detail to the land description address. Can be a numeric or textual value, or a combination of both,
Description:	Where Charge address is used Line 1 **must be** completed
Multiplicity:	1
Attribute:	**LandDescription: Charge Address Line 2**
Name:	Primary Address Information
Value type:	String

Definition:	Primary means of describing the land or property location. Can be a textual value, or a combination of numeric and textual value; cannot be just numeric.
Description:	Where Charge address is used Line 2 **may be** completed
Multiplicity:	0..1
Attribute:	**LandDescription: Charge Address Line 3**
Name:	Supplementary Address Information
Value type:	String
Definition:	The name of the road or street upon which the land/property is situated
Description:	Textual information that provides additional detail to the land description address. Where Charge address is used Line 3 may be completed; line 3 will not be used where street or road are adequately described at line 2.
Multiplicity:	0..1
Attribute:	**LandDescription: Charge Address Line 4**
Name:	Supplementary Address Information
Value type:	String
Definition:	Additional numeric or textual information that provides additional detail to the land description address.
Description:	Where Charge address is used Line 4 may be completed
Multiplicity:	0..1
Attribute:	**LandDescription: Charge Address Line 5**
Name:	Supplementary Address Information
Value type:	String
Definition:	Additional numeric or textual information that provides additional detail to the land description address.
Description	Where Charge address is used Line 5 may be completed
Multiplicity	0..1
Attribute:	**LandDescription: Charge Address Line 6**
Name:	Supplementary Address Information
Value type:	String
Definition:	Additional numeric or textual information that provides additional detail to the land description address.
Description	Where Charge address is used Line 6 may be completed
Multiplicity	0..1
Attribute:	**LandDescription:Postcode**
Name:	Postcode
Value type:	String
Definition:	Alpha-numeric code allocated by Royal Mail; combines with primary addressable object information to identify unique delivery point.
Description	Where Charge Address is used, Postcode **must be** completed

Multiplicity	0..1
Attribute:	**UPRN**
Name:	Unique Property Reference Number
Value type:	Integer
Definition:	Unique reference number allocated by Geo-Place that identifies addressable locations in the UK.
Description	Where Charge Address is used UPRN **must be** completed
Multiplicity	1
Attribute:	**LandDescription: ChargeGeographicDescription**
Name:	Charge Geographic Description
Value type:	String
Definition:	Description of non-addressable land and/or property affected by LLC Charge geographic description must contain sufficient information to enable identification of the general geographic position of the charge, by reference to: • A named/numbered address OR • Street/Road name • Town/District name Full or partial postcode
Description:	Where Charge Address is not used Charge Geographic Description must be completed; max of 1000 characters
Multiplicity:	0..1
Attribute:	**OldRegisterPart**
Name:	Local Land Charge Register Part
Value type:	String
Definition:	Referencing mechanism historically used to classify LLC registers into 12 distinct groups
Description	Only the following numerical entries are allowed: '11' This attribute is only required where pre-existing LLC records are migrated into the HMLR Register.
Multiplicity	0..1. Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation &Transformation, but this will not be an ongoing requirement when new LLC is registered into the LLC Register Service
Attribute:	**OAChargeID**
Name:	Originating authority charge identifier
Value type:	String
Definition:	Unique charge identifier that has been allocated by, or allocated in agreement with, the Migrating Authority
Description:	The ID of the charge will be allocated as follows

	(iii) if an identifier exists in the existing LA paper, electronic or digital records, the ID will be reproduced where no identifier exists in the existing records, ID will be allocated by the first supplier to handle the records and agreed with the LA.
Multiplicity:	0..1 Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation & Transformation, but this will not be an ongoing requirement when new LLC are registered into the HMLR LLC Register Service
Attribute:	**LONTribunalDefinativeCertificateDate**
Name:	Land Tribunal Date
Value type:	Date
Definition:	The date the definitive Lands Tribunal certificate was issued by the Lands Tribunal.
Description:	Calendar date in YYYY-MM-DD format
Multiplicity:	0..1
Attribute:	**LONTribunalTemporaryCertificateDate**
Name:	Tribunal Date
Value type:	Date
Definition:	The date a temporary Lands Tribunal certificate was issued by the Lands Tribunal.
Description:	Calendar date in YYYY-MM-DD format
Multiplicity:	0..1
Attribute:	**LONTribunalTemporaryCertificateExpirylDate**
Name:	Proposed expiry date of land tribunal
Value type:	Date
Definition:	The date a temporary Lands Tribunal certificate expires, this is a maximum of 6 months after the date of registration
Description:	Calendar date in YYYY-MM-DD format
Multiplicity:	0..1
Attribute	**Migration Supplier**
Name:	Migration supplier
Value type:	String
Definition:	Name, or abbreviated code, to identify partner company or organisation responsible for migrating the pre-existing land charges into the HMLR LLC Register
Description	This attribute is only required where pre-existing LLC records are migrated into the HMLR Register.
Multiplicity:	0..1. Multiplicity 0..1 applied as this is a mandatory attribute for all existing LLC captured through Digitisation &Transformation, but this will not be an ongoing requirement when new LLC are registered into the HMLR LLC Register Service

4.3 Code lists/registers

Code Name:	**Registering Authorities**
Definition:	A lookup table of Local Authority names in England and Wales, which will be held and maintained locally. The table will be used to identify each LA who has submitted their LLC data for digitised/transformed into the LLC Register service
Extensibility:	
Identifier:	
Values:	
Code Name:	**Originating Authority**
Definition:	A lookup table of Originating Authorities (OA), which will be held and maintained locally. The table will be used to identify each Authority or Body that created the charge or becomes such by virtue of Operation of Law
Extensibility:	
Identifier:	
Values:	
Code Name:	**Statutory Provision**
Definition:	Description of the specific legislation under which LLC was created.
Extensibility:	
Identifier:	
Values:	
Code Name:	**Charge Type**
Definition:	A description of the general category of charge for each registered LLC
Extensibility:	
Identifier:	
Values:	‘Planning’ ‘Listed building’ ‘Housing’ ‘Land compensation’ ‘Financial’ ‘Light obstruction notice’ ‘Other’.
Code Name:	**Old Register Part**
Definition:	Classification of the 12 part register definitions in use by originating authorities
Extensibility:	
Identifier:	
Values:	‘1’, ‘2’, ‘3b’ ‘4’, ‘6a’, ‘6b’, ‘7’, ‘8’, ‘9’, ‘10’, ‘11’ ‘12’
Code Name:	**MigrationSupplier**

Definition:	Unique code used to identify name of partner company or organisation responsible for migrating the pre-existing LLC into HMLR LLC register
Extensibility:	
Identifier:	
Values:	[Note: To be determined when migration suppliers identified]

5. Reference systems, units of measure and grids

5.1 Default reference systems, units of measure and grid

5.1.1 Coordinate reference systems

Reference system for the creation / capture of the geometry data is: BNG1936; EPSG27700;

5.1.2 Temporal reference system

Gregorian calendar
Data/Time standard

6. Data quality

6.1 Data quality elements

Section	Data Quality Element	Data Quality sub-element	Definition	Evaluation Scope
6.1.1	Thematic Accuracy	Classification Correctness	Correct classification of each complete LLC	Complete LLC, feature attributes
6.1.2	Completeness	Commission	Erroneous creation of a duplicate or additional LLC, LLC attribute or land interest geometry	Complete LLC records, feature attributes and land interest geometries
6.1.3		Omission	Erroneous exclusion of entire LLC, LLC attribute or Land interest geometry	Complete LLC records, land interest geometries, feature attributes
6.1.4	Logical Consistency	Conceptual Consistency	Adherence to rules of the conceptual schema – LLC Practice Guides	Feature attributes; land interest geometries
6.1.5		Domain Consistency	Adherence of values to the value domains – overriding rules applicable to specific attributes and/or relationships between them	Feature attributes
6.1.6		Format Consistency	Data has been transformed and stored in the designated file format	Complete LLC records and land interest geometries
6.1.7		Topological Consistency	Topological consistency in the geometric representation of features	Land interest geometries
6.1.8	Positional Accuracy	Relative or internal accuracy	Correct positional accuracy of land interest geometries in relation to other geographic features	Land interest geometries
6.1.9	Temporal Quality	Temporal consistency	Time/date attributes recorded in chronological order	Date time attributes
6.1.10		Temporal validity	Time/date attributes recorded using specified convention	Date time attributes

6.1.1 Thematic Accuracy: Classification Correctness

Measure	Number of incorrectly classified complete LLC records or feature attributes
Alternative Name	-
Data quality element	Classification correctness
Data quality basic measure	Error count – number of instances of incorrectly classified objects within the defined sample or holistic test
Definition	Number of incorrectly classified complete LLC records and/or attributes
Description	-
Evaluation scope	Compliance with data specification
Reporting scope	Per sampled batch or holistic test
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	Data specification
Example	Incorrect charge type in relation to the source data
Measure Identifier	1

6.1.2 Completeness: Commission

Measure	Number of excess items
Alternative Name	-
Data quality element	Commission
Data quality basic measure	Error count– number of instances of excess items within the defined sample or holistic test
Definition	Number of items in that should not be present
Description	-
Evaluation scope	Complete LLC records, attributes and land interest geometries
Reporting scope	Per sampled batch or holistic test
Parameter	-
Data quality value type	

Data quality value structure	-
Source reference	Data specification
Example	Complete LLC record duplicated in the register, or replication of an identical attribute in the same LLC
Measure Identifier	2

6.1.3 Completeness: Omission

Measure	**Number of missing items**
Alternative Name	-
Data quality element	Omission
Data quality basic measure	Error count - number of instances of missing items within the defined sample
Definition	Count of all items that should have been in the data set or sample that are missing
Description	-
Evaluation scope	Complete LLC records, attributes and land interest geometries
Reporting scope	Per sampled batch or holistic test
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	Data specification
Example	A legitimate LLC record has not been included in the LR LLC Register, a mandatory attribute has not been included in an individual LLC or a land interest geometry is missing
Measure Identifier	3

6.1.4 Logical consistency: Conceptual consistency

Measure	Non-compliance with conceptual schema
Alternative Name	Non-compliance with data capture rules defined in LLC Practice Guides and/or local business rules
Data quality element	Conceptual consistency
Data quality basic measure	Error count – number of items within the specified sample or holistic test that have not been captured in line with the conceptual schema
Definition	Error count – number of items that are not compliant with rules of the appropriate conceptual schema
Description	Where the conceptual schema explicitly or implicitly describes rules for the capture or transformation of the data, these rules shall be followed.
Evaluation scope	Feature attributes & Land Interest geometries
Reporting scope	Per sampled batch or holistic test
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	LLC Practice Guides; Local business rules
Examples	Where a TPO effects only a single tree, the land interest geometry must be captured using a single point. Where a single Local Authority has recorded its name in a number of ways/formats overtime, a local business rule may be applied to convert the name to a single, agreed name
Measure Identifier	4

6.1.5 Logical consistency: Domain consistency

Measure	Non-conformance with the value domain
Alternative Name	Non-conformance with universal business rules
Data quality element	Domain consistency
Data quality basic measure	Error count – number of items within the structured sample or holistic test that have not been captured in line with universal business rules
Definition	Count of all items that are not compliant with rules of the domain
Description	Where the domain explicitly or implicitly describes rules that apply to individual attributes or define the relationship between attributes, these rules shall be followed.
Evaluation scope	Feature attributes
Reporting scope	Per sampled batch
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	Code lists and/ or register
Example	All Local Authority names are captured in line with the single local authority-eng register on Gov.uk Do the statutory provision and register part align correctly
Measure Identifier	5

6.1.6 Logical consistency: Format consistency

Measure:	Data not captured and/or transformed into the specified format
Alternative Name	-
Data quality element	Format consistency
Data quality basic measure	Number of items that have not been captured in line with requirements for data format or structure
Definition	Count of all items that are not compliant
Description	
Evaluation scope	Complete LLC records and land interest geometries

Reporting scope	All
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	LLC Practice Guides
Example	All land interest geometries will be captured and stored as a gml
Measure Identifier	6

6.1.7 Logical consistency: Topological consistency

Measure	**Topological consistency of land interest geometries**
Alternative Name	Land interest geometries have been captured in line with requirements in LLC Practice Guide – Spatial Data
Data quality element	Topological consistency
Data quality basic measure	Number of land interest geometries that have not been captured and/or transformed in line with requirements in LLC Practice Guide – Spatial Data guide
Definition	Count of all land interest geometries that are not compliant
Description	
Evaluation scope	Land interest geometries
Reporting scope	Holistic check
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	LLC Practice Guide – Spatial Data
Example	A polygon must be captured free of self-intersect.
Measure Identifier	7

6.1.8 Positional Accuracy: Relative Accuracy

Measure	Relative accuracy of land interest geometries
Alternative Name	
Data quality element	Relative accuracy
Data quality basic measure	Evaluation of errors in the horizontal position of land interest geometries in relation to the position of other known features in the data
Definition	Count of all land interest geometries that are not compliant
Description	
Evaluation scope	Land interest geometries
Reporting scope	Per sampled batch or holistic test
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	OS Basemap, defined extents of postal area/LA boundaries
Example	Where a land description includes a full postal address, do the associated land interest geometries fall fully or partially within the defined postal area
Measure Identifier	8

6.1.9 Temporal Quality: Temporal Consistency

Measure	Chorological order
Alternative Name	
Data quality element	Temporal consistency
Data quality basic measure	Number of instances where the order of events is recorded erroneously and/or illogically
Definition	Indicates an event has been incorrectly ordered against other events
Description	
Evaluation scope	Attributes Date of registration, expiry date & life cycle
Reporting scope	All
Parameter	-
Data quality value type	
Data quality value structure	-

Source reference	-
Example	Where a expiry date is recorded as a date prior to the recorded date of registration
Measure Identifier	9

6.1.10 Temporal Quality: Temporal validity

Measure	**Non-conformance with specified conventions for recording time/date**
Alternative Name	
Data quality element	Temporal validity
Data quality basic measure	Number of instances where the specified time/date convention has not been used
Definition	DD/MM/YYYY not applied correctly
Description	
Evaluation scope	Attributes: Date of registration, expiry date & life cycle
Reporting scope	All
Parameter	-
Data quality value type	
Data quality value structure	-
Source reference	-
Example	Where a expiry date is recorded using American convention: MM/DD/YYYY
Measure Identifier	10

6.2 Minimum data quality requirements

HM Land Registry defines quality as the *conformance of a product or service to a defined specification*. The specification for Local Land Charges is described in the feature catalogue above, this describes the content and structure for each of the local land charge feature types.

Quality of Local Land Charge data will be described by measuring the conformance of the data to the specification using the measures described at section 6.1.

It is accepted that data will not be 100% accurate against all of the measures but the expected conformance rates are described by the acceptable quality levels (AQL's).

Data received by HM Land Registry will be divided into the two principal data populations - Light Obstruction Notices (LON) & all other LLC types; the two populations will have their quality evaluated independently.

Each data population has the following AQL requirements against the defined quality measure criteria.

Quality Theme	Quality Criteria	Example Quality Measure	AQL
Completeness	Omission	Does each submitted LLC contain all mandatory attributes	100%
	Commission	Are there any LLC with additional or replicated data attributes	95%
Thematic Accuracy	Classification	Have Charge Types & Charge Sub-categories been allocated correctly	99%
Logical Consistency	Conceptual (adherence to LLC Practice Guides) or other agreed Local Business Rules	Have all mandatory and conditional items been replicated accurately from the source Have TPO geometries been captured as per 3.1.2 of LLC Practice Guide – Spatial Data Have originating authorities been captured in single agreed format	95%
	Domain (adherence to wider rules)	Have UPRN & structured address been matched correctly	97%
	Topological Consistency	Have all geometries been captured without loops or self-intersects	100%
Positional Accuracy	Relative position	Is there an acceptable relationship between the land description and the geometry	99%
Temporal	Consistency	Have all dates been captured in the prescribed YYYY/MM/DD format	95%
	Validity	Do expiry dates come after registered date	

6.3 Recommendation on data quality

Recommendation that all partners involved in digitisation and/or transformation of LA data apply their own internal Quality Control assessments and evaluations within the production environment, and that these processes broadly align with ISO19158 standards.

Guidance, processes and rules describing the required approach to data capture are described in the Local Land Charges Practice Guides for (i) Text digitisation, (ii) Text transformation and (iii) Spatial data.