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Geographic information-_ Land Administration Domain Model (LADM)-____

Part-4: Valuation information (https://standards.iteh.ai)

Information géographique — Modèle du domaine de l'administration des terres (LADM) —

Partie 4: Informations d'évaluation

ISO/FDIS 19152-4

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part-1. In particular, the different approval criteria needed for the different types of ISO <u>documentsdocument</u> should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part-2 (see <u>www.iso.org/directives</u>).

Attention is drawnISO draws attention to the possibility that some of the elementsimplementation of this document may beinvolve the subjectuse of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights- in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see <u>www.iso.org/iso/foreword.html</u>www.iso.org/iso/foreword.html.

https://standards.iteh.ai/catalog/standards/iso/clefe540-3865-4861-be1a-d090d77f6172/iso-fdis-19152-4 This document was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 287, *Geographic Information*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This edition of ISO 19152-4, together with all other parts of the ISO 19152 series, cancels and replaces the first edition (ISO 19152:2012), which has been technically revised. This document is a new part to the ISO 19152 series.

A list of all parts in the ISO 19152 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

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Introduction

Property valuation is the process of estimating the value of a property at a particular moment <u>ofin</u> time. It is performed by public and private sector actors for several land administration (LA) processes, such as property taxation, compensation on expropriation, land readjustment, land consolidation, public value capture, insurance assessment, real estate financing, and property transactions.

Appropriate systems are required for fair and timely valuation of tenure rights in order to promote broader social, economic, environmental, and sustainable development objectives. One of the key components of an effective valuation system is access to information on the nature and extent of property units, together with the location and physical characteristics. In other words, uniform and accurate valuation of property units requires correct, complete, and up-to-date property data. Therefore, property valuation systems require the establishment of links between a number ofmultiple public registries that keep and maintain information about property units, such as cadastre, land registry, planning and permitting registries, and building and dwelling registries.

The fundamental elements underpinning immovable property valuation are public registries, which accommodate regular data maintenance and updating of property characteristics, ownership details, and transaction information. It is important for valuation processes to ensure that property units and rights have been unambiguously identified. This is supported by the land administration systems, including cadastre and land registry. ISO 19152:2012 provided a descriptive conceptual model with a reference for land administration systems. However, it focused on legal, geometric, and administrative aspects of land administration. The "semantics of value" component of LA was considered to be out of the scope. On the other hand, ISO 19152:2012 provided a solid and flexible base for representing property valuation information.

This document defines property valuation system-related information in the context of LA and as an extension of <u>the Land Administration Domain Model (LADM-{</u>; see ISO 19152-1 and ISO 19152-2:—+<u>}</u>. This document is a conceptual model and not a data product specification (in the sense of ISO 19131).

The first goal of this document is to enable involved parties, both within one country and between different countries, to communicate based on the shared vocabulary implied by the model. This document is not intended to replace existing property valuation systems but rather to provide formal language for describing them so that their similarities and differences can be better understood.

The second goal is to provide an extensible basis for the development and refinement of efficient and effective property valuation systems based on a model-driven architecture (MDA). This document is designed to represent all stages of administrative property valuation, namely identification of properties, assessment of properties through single or mass appraisal procedures, recording transaction prices, generation and representation of sales statistics, and dealing with appeals. This document can provide public bodies with a common basis for the development of local and/or national information models, or both, and databases, enabling the integration of valuation databases with land administration databases. It can also act as a guide for the private sector. This document is designed especially for representing and refining administrative valuations (e.g., immovable property taxation, compensation on expropriation, land readjustment, land consolidation, and public value capture). However, it can be also used for other purposes.

This document is relevant for creating standardized information services in a local, national₇ or regional context, where valuation domain semantics have to be shared between organizations or countries in order to enable necessary translations. Four considerations during the design of the model were:

- — that it will cover the common aspects shared by objects created by <u>the</u> value component of land administration all over the world [48];^[48]

¹ Under preparation.
<u>1) Under preparation. Stage at the time of publication: ISO/FDIS 19152-2:2025.</u>

- — that it will be based on the conceptual framework of <u>"Cadastre 2014'2014"</u> of the International Federation of Surveyors (FIG) [36];);^[36]
- — that it will be as simple as possible in order to be useful in practice;
- that the geospatial aspects <u>will</u> follow the ISO/TC 211 conceptual model and that the valuation aspects <u>will</u> follow the international property valuation standards - (, e.g., International Valuation Standards of International Standards Council and Technical Standards of the International Association of Assessing Officers (IAAO)).

Conformance in relation to this document is specified in <u>Clause 4</u>, <u>Clause 4</u>, and a conformance test is specified in <u>Annex A</u>. <u>Clause 5</u><u>Annex A</u>. <u>Clause 5</u> provides the notation. <u>Clause 6Clause 6</u> gives a global overview of classes <u>of Part 4</u> – <u>Valuation Information</u>. <u>Clause 7</u><u>used in this document</u>. <u>Clause 7</u> introduces the classes, attributes, and associations in detail. <u>Annex B</u><u>Annex B</u> presents an extension of the model (i.e., profiles) for representing 2D and 3D spatial analysis conducted for property valuation processes. A set of informative examples using instance-level diagrams is available in <u>Annex C</u>. <u>Annex D</u><u>Annex C</u>. <u>Annex D</u> gives an overview about the relationships between this document and international property valuation standards and guidelines. <u>Annex E</u><u>Annex E</u> details an approach for the valuation of unregistered land. <u>Annex FAnnex F</u> presents code lists as a basis to describe flexible enumeration. A set of country profiles is presented in <u>Annex G</u>. <u>Annex H</u><u>Annex G</u>. <u>Annex H</u> presents an overview of how the International Property Measurement Standards (IPMS) can be used within the <u>contentcontext</u> of this document.

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4:

Geographic information — Land Administration Domain Model (LADM) —

Part— Valuation information

1 Scope

This document:

- a)_a)_builds on the models established in ISO 19152-1 and ISO 19152-2:—²²⁾ to cover the valuation aspect of the Land Administration Domain Model (LADM);
- <u>b)</u>provides an abstract conceptual model covering:
 - <u>1)</u> + values (assessed values, valuation procedures, mass valuation);
 - 2) 2) transaction prices;
 - <u>3)</u>-sales statistics;
 - <u>4)</u> <u>4</u>-valuation units (parcel, building, condominium unit, valuation unit group).
- c) c) provides terminology for the valuation component of land administration/georegulation, based on various national and international systems, that is as simple as possible in order to be useful in practice. The terminology allows a shared description of different formal or informal practices and procedures in various jurisdictions;

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<u>d</u>) <u>-</u>specifies a content model independent of encoding that can be employed as a basis for local, national, and regional profiles for valuation processes; and

<u>e)</u> enables the combining of valuation information from different sources in a coherent manner.

This document does not interfere with {national} property valuation-related regulations with potential legal implications.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes the requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4217, Codes for the representation of currencies

ISO 19103, Geographic information — Conceptual schema language

² Under preparation.

²⁾ Under preparation. Stage at the time of publication: ISO/FDIS 19152-2:2025.

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ISO-<u>19105</u>;2022, Geographic information — Conformance and testing

ISO 19107, Geographic information — Spatial schema

ISO 19109, Geographic information — Rules for application schema

ISO 19152-<u>-</u>1, Geographic information — Land Administration Domain Model (LADM) — Part 1: Generic conceptual model

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 19152-1, ISO 19152-2, and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ——ISO Online browsing platform: available at <u>https://www.iso.org/obp</u>https://www.iso.org/obp
- — IEC Electropedia: available at <u>https://www.electropedia.org/</u>https://www.electropedia.org/

<u>3.1.1 <u>3.1.1</u></u>

appraisal

<LADM> process of estimating the value of property

Note-1-to-entry:-ISO 19152-1 describes BAUnit as a synonym of a basic property unit, in short, i.e. property.

<u>3.1.2 <u>3.1.2</u></u>

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accessory part is iteh.ai/catalog/standards/iso/c1cfe540-3865-4861-be1a-d090d77f6172/iso-fdis-19152-4 privately owned building part, generally attached to one or more condominium unit

EXAMPLE A garage in the basement and a shop on the ground floor are examples of an accessory part.

Note-_1-_to-_entry:-_Adapted from OGC LandInfra 2016, 7.11.

<u>3.1.3</u><u>3.1.3</u>

assessed value

<LADM> monetary worth of property

Note 1-_to entry:-_The assessed value of a property is generally used for tax purposes. On the other hand, the value of a property can be assessed for other purposes such as compensation on expropriation, land readjustment, land consolidation, public value capture, insurance assessment, etc.

Note 2-_to entry:-_The assessed value of a property maycan be equal to market value.

<u>3.1.4</u><u>3.1.4</u>

building

construction works that have the provision of shelter for its occupants or contents as one of its main purposes, usually partially or totally enclosed and designed to stand permanently in one place

³ Under preparation.

³⁾ Under preparation. Stage at the time of publication: ISO/FDIS 19152-4:2025.

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Note 1- to entry:-Buildings are constructions above and/or underground that are intended or used for the shelter of humans, animals, things, the production of economic goods, or the delivery of services, and that refer to any structure permanently constructed or erected on itsthe site.

Note 2-_to entry:-_Buildings maycan be used for dwelling (e.g., detached and semi-detached), industrial, retail, or other purposes. A condominium building contains condominium units established according to condominium schemes. A whole building or a part of a building maycan be subject to a valuation. A building maycan be considered a complementary part of the parcel(s) and maycan be valued separately from the parcels on which they are located. A building maycan represent a condominium building, which consists of:

<u>a)</u> condominium units (e.g., apartments, shops);

- b) b) accessory parts assigned for exclusive use (e.g., garages, storage areas);
- c) e) joint facilities covering parcel, structural components (e.g., foundations, roofs), accession areas (e.g., entrance halls, spaces), and other remaining areas of buildings (e.g., staircases, heating rooms).

[SOURCE: ISO 6707-1:2020, 3.1.13, modified — Note 1 to entry has been replaced; Aa new Note 2 to entry has been added.]

3.1.5 3.1.5

condominium unit

one or more privately used building parts together with commonly used joint facilitates in a building

Note-1-to entry:-This includes compounds of one or more condominium building elements.

Note-2-to entry:-A condominium is concurrent ownership of real property that has been divided into private and common portions, and in which the privately used part is made up of clearly demarcated parts of a building.

Note-3-to entry:-Adapted from OGC LandInfra 2016, 4.8.6.

3.1.6 3.1.6

cost approach

<LADM> valuation of property based on estimates of costs

Note-1-to-entry:-This approach estimates the value of property by (a):

a) estimating the cost of construction based on replacement or reproduction cost new, or trended historical cost (often adjusted by a local multiplier); (b) subtracting depreciation; and (c) adding the estimated land value.

b) subtracting depreciation; and

adding the estimated land value. 3.1.7 <u>c)</u>

3.1.7

income approach

<LADM> valuation of property on the basis of its income stream

Note-1-to-entry:-This is a valuation approach that involves any valuation method whereby the capital value is found by capitalising capitalizing or discounting the estimated future income to be derived from the property, whether this income is rent or whether it is income generated by the business that is carried out on the property.

3.1.8 3.1.8

market value highest price that a ready, willing, and able buyer will pay and the lowest price a seller will accept

[SOURCE: ISO/IEC TR 27016:2014, 3.14]

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<u>3.1.9 <u>3.1.9</u></u>

mass appraisal

<LADM> process of valuing a group of properties as of a given date, using standard methods, employing common data, and allowing for statistical testing

Note-1-_to-_entry:-_Adapted from Standard on Mass Appraisal of Real Property, IAAO-_.[27]

3.1.10 3.1.10 sales comparison approach <u>market approach</u> <u>comparable sale approach</u> <LADM> valuation of property based on estimates of the worth of similar properties

Note-_1-_to entry:-_The sales comparison approach uses sales prices as evidence of the value of similar properties. The price at which a particular property sells is the price determined by the interaction of supply and demand at the time of sale. If supply or demand factors shift, prices generally rise or fall.

Note-_2-_to entry: Market approach and _comparable sale approach can be used interchangeably with this term.

Note 3 to entry: In this approach, sales data of similar properties is employed to estimate the value of a property.

sales statistic

<LADM> statistical analysis produced through transaction prices for properties meeting required reporting criteria

Note 1-to entry:-<u>Contracts</u>, declarations, and mortgage documents <u>maycan</u> be used in order to produce sales statistics.

Note 2-_to entry:-_Sale statistics are generally produced for a specific period and at a specific administrative/geographic level.

<u>3.1.12</u> 3.1.12

transaction price

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<LADM> amount of consideration for transferring right(s) on property, excluding amounts collected on behalf of third parties

Note 1-_to-_entry:-_The sale price or rental price of a property can be considered as a transaction price. In the case of a sale/purchase, the type of transaction <u>maycan</u> be an exchange, family transfer, forced sale, inheritance, open market sale, voluntary transfer, and so onetc.

<u>3.1.13 <u>3.1.13</u></u>

valuation

<LADM> process to estimate the value of any administrative unit (BAUnit)

Note-1-to entry:-This results in a valuation unit.

Note-2-to entry:-The value of a property produced through an administrative valuation process pertains to an amount that a local or central government has designated for a specific property and specific purpose(s). The legal, geometric, physical, and environmental characteristics of the immovable property, together with the economic indicators, are taken into consideration during this process.

<u>3.1.14</u> 3.1.14

value

<LADM> value of a property or a property unit estimated under certain assumptions at a particular moment of time

EXAMPLE Possible value types <u>maycan</u> include annual rental value, assessed value, book value, cadastral value, capital value, commercial value, fair value, market value, tax value, use value, <u>and so onetc</u>.

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Note 1-to entry:-A property or a property unit maycan have more than one value.

Note 2-_to entry:-_The value of a property or a property unit, in some cases, <u>maycan</u> be equal to the assessed value or market value.

<u>3.1.15</u> 3.1.15

valuation approach

<LADM> approach used to determine the value of a property

Note-1-to-entry:-Each valuation approach includes different methods that <u>maycan</u> be used to apply the principles of the approach to specific properties or situations. The basic approaches are cost, input, and sales comparison.

<u>3.1.16</u> 3.1.16

valuation source

<LADM> sources used or produced in the valuation process

EXAMPLE Possible valuation source types <u>maycan</u> include transaction declaration documents, valuation reports, <u>and so onetc</u>.

<u>3.1.17</u> 3.1.17

valuation unit

<LADM> smallest unit that is subject to the property valuation process

Note 1-to entry:-_The object of the valuation maycan be (a):

- <u>a)</u>only <u>a</u>land parcel, (b)
- b) only <u>a</u>building, (c)
- <u>c)</u>land parcel(s) with/without building(s) together as land property, (d)
- <u>d</u> condominium unit consisting of building part(s) (e.g., condominium main part, condominium accessory part, joint access facility), and (e) <u>ISO/FDIS 19152-4</u>

https://standards.iteh.ai/catalog/standards/iso/c1cfe540-3865-4861-be1a-d090d77f6172/iso-fdis-19152-4 <u>e)</u> a share in land parcel(s).

<u>Note 2 to entry:</u> For any BAUnit, there <u>maycan</u> be multiple valuation units.<u>Example:</u>, for example, a BAUnit <u>maycan</u> have different valuation units for sale or lease.

Note $\frac{2-3}{2}$ to entry:-Valuation unit types $\frac{1}{2}$ way by jurisdiction. Moreover, the basic registration unit of cadastral systems (e.g., a cadastral parcel) $\frac{1}{2}$ differ from the basic units of valuation systems.

<u>3.1.18</u> 3.1.18

valuation unit group

<LADM> group of valuation units that share similar characteristics to support mass or individual appraisal approaches and sales statistics

Note-1-to-entry:-Valuation units <u>maycan</u> be grouped according to zones (e.g., administrative divisions, market zones) that have similar environmental and economic characteristics. Valuation units <u>maycan</u> also be grouped considering the functions (e.g., commercial, residential, and agricultural).

3.2 Abbreviated terms

- BAUnit basic administrative unit
- FIG International Federation of Surveyors

<u>GIS</u> <u>geographic information system</u>

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GLTN	Global Land Tenure Network
IAAO	International Association of Assessing Officers
INSPIRE	infrastructure for spatial information in Europe
IVSC	International Valuation Standards Council
LA	land administration
LADM	Land Administration Domain Model
MDA	model driven architecture
OGC	Open Geospatial Consortium
RICS	Royal Institution of Chartered Surveyors
RRR	right, restriction, responsibility
UML <u>STDM</u>	unified modelling languageSocial Tenure Domain Model
TEGoVA	The European Group of Valuers' Associations
<u>UML</u>	unified modelling language

4 Conformance

4.1 Conformance requirements and testing

Conformance to this document consists of alignment with the requirements established in <u>Clause 6Clause 6</u> and <u>Clause 7</u> in this document.<u>Clause 7</u>. The abstract test suite given in <u>Annex AAnnex A</u> specifies the methodology which shall be used for testing conformance to these requirements. The conformance class, requirement classes, requirements, and abstract test suites are constructed according to ISO 19105:2022 <u>Conformance and testing</u>.

4.2 Conformance class

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In this document, one conformance class is defined. The related tests are provided in the abstract test suit in <u>Annex A.suite in Annex A.</u> Requirements are explicitly marked, and a requirement identifier is assigned. The name and contact information of the maintenance agency for this document can be found at <u>http://www.iso.org/maintenance_agencies.</u> https://www.iso.org/maintenance_agencies.

The contents of the conformance class, as specified in this document, are presented in Table 1. Table 1.

Conformance class	httpshttps://standards.isotc211.org/19152/-4/1/conf/valuation
Standardization target type	Valuation information registration and dissemination system.
Dependency	httpshttps://standards.isotc211.org/19152/-1/1/ (Generic conceptual model)
Dependency	httpshttps://standards.isotc211.org/19152/-2/1/ (Land registration)
Dependency	httpshttps://standards.isotc211.org/19103/-/1/ (Conceptual schema language)
Dependency	httpshttps://standards.isotc211.org/19105/-/2/ (Conformance and testing)
Dependency	httpshttps://standards.isotc211.org/19107/-/2/ (Spatial schema)
Dependency	httpshttps://standards.isotc211.org/19109/-/2/ (Rules for application schema)

Table 1 _ Content conformance class

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