

## Flow of Events for Use Case –

### Identify Property And Construction

Change Log	
29/09/2004	Created This use case replaces the previous use cases 'Identify Property', and 'Identify Construction'.
31/10/2004	Finalized for pre-integrated model

### Overview

Used to determine if an identifier has been assigned to a property or construction and, if not, to ensure that an identification is given. In the case of a construction, it is also determined whether the identifier given is a temporary identifier.

The identifier that is added is unique for the property or construction. It is anticipated that different national systems for applying unique identifiers will be in existence.

- e.g. Norway has a national system for unique identification of constructions.

The unique identifier enables information on the property or construction to be tracked through a database.

Note that the unique identifier added **not** the same as the globally unique identifier assigned to an object.

The unique identifiers given to properties and constructions are also different.

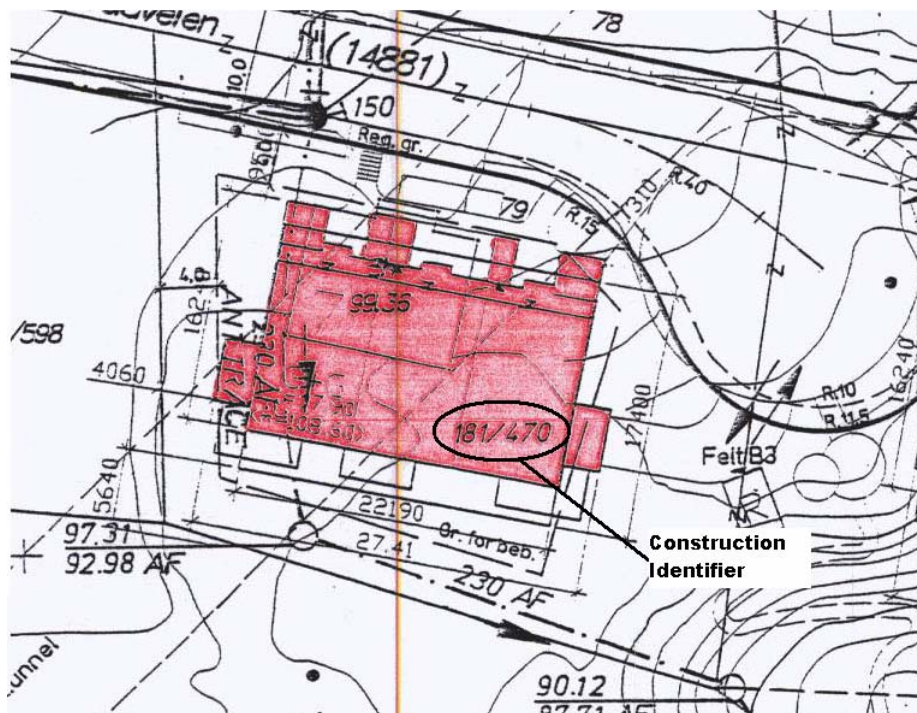


Figure 1: Example of construction identifier

### Process

#### Preconditions

An object has been created that is a property/site and its boundaries have been set OR Construction must exist or be proposed to exist.

## Actors

Base Map  
Situation Map

## Main Flow

1. Determine the property or construction of interest
  - If a property, then <S1>
  - If an existing construction, then <S2>
  - If a new construction. then <S3>

## Subflows

### S1: Identify Property

Flow	Entity
1. Check if there is already an assigned identifier	IfcSite Pset_SpaceLandRegistration
2. If not, assign an identifier according to the identification system in use	IfcSite Pset_SpaceLandRegistration
3. Add further property identification data as required.	IfcSite Pset_SpaceLandRegistration

### S2: Identify Existing Construction

Flow	Entity
1. Confirm that the existing construction has a unique identifier.	IfcBuilding Pset_SpaceBuildingRegistration
2. If there is no unique identifier, <ol style="list-style-type: none"><li>a. Determine what the identifier should be from the applicable identification system</li><li>b. Add the unique identifier</li></ol>	IfcBuilding Pset_SpaceBuildingRegistration

### S3: Identify New Construction

Flow	Entity
1. Confirm that a unique identifier has not already been assigned to the new construction	IfcBuilding Pset_SpaceBuildingRegistration
2. Assign a temporary unique identifier during the planning stage	IfcBuilding Pset_SpaceBuildingRegistration
3. When construction is added to a statutory buildings and properties database, change the temporary unique identifier to a permanent unique identifier.	IfcBuilding Pset_SpaceBuildingRegistration

## Post Conditions

Physical property will have a unique identifier specified as its land title number.

## ***IFC Usage and Extension Requirements***

### Existing Entity/Class Usage

Entity Class Name	Usage
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IfcBuilding	The building or construction that is to be identified.
IfcBuildingElementProxy	Used to identify any construction that may be like a building and that needs to be represented and identified but that is not otherwise specified as a building
IfcSpace	The external space defining the property that is to be identified

### Existing Entity/Class with Proposed Modification

<i>Entity Class Name</i>	<i>Usage</i>
IfcSite	Deprecate the attribute 'LandTitleNumber'. The Pset_ SpatialStructureLocalIdentity→ElementID property should be used instead.

<i>A R M</i>	<i>Attribute</i>	<i>Cardinality</i>	<i>Datatype</i>	<i>Definition</i>

<i>A R M</i>	<i>#</i>	<i>Type (DER, U, WHERE)</i>	<i>Proposition</i>

### New Property Set Requirement

<b>Name:</b>	Pset_SpaceLandRegistration
<b>Applicability:</b>	IfcSpace, IfcSite entities
<b>Applicable Classes:</b>	IfcSpace, IfcSite
<b>Applicable Type Value:</b>	
<b>IFC Version:</b>	2x3
<b>Definition:</b>	To be defined

<i>Property</i>	<i>Type</i>	<i>Datatype</i>	<i>Unit</i>	<i>Definition</i>
LandID	IfcPropertySingleValue	IfcIdentifier		Identification number assigned by the statutory registration authority to a land parcel
IsPermanentID	IfcPropertySingleValue	IfcBoolean		Indicates whether the identity assigned to a land parcel is permanent (= TRUE) or temporary (=FALSE)
LandTitleID	IfcPropertySingleValue	IfcIdentifier		Identification number assigned by the statutory registration authority to the title to a land parcel

<b>Name:</b>	Pset_SpaceBuildingRegistration
<b>Applicability:</b>	IfcBuilding, IfcBuildingElementProxy entities
<b>Applicable Classes:</b>	IfcBuilding, IfcBuildingElementProxy
<b>Applicable Type Value:</b>	
<b>IFC Version:</b>	2x3
<b>Definition:</b>	To be defined

<i>Property</i>	<i>Type</i>	<i>Datatype</i>	<i>Unit</i>	<i>Definition</i>
BuildingID	IfcPropertySingleValue	IfcIdentifier		Identification number assigned by the statutory registration authority to a building
IsPermanentID	IfcPropertySingleValue	IfcBoolean		Indicates whether the identity assigned to a

				building is permanent (= TRUE) or temporary (=FALSE)
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### ***Issue List***

<b><i>Question</i></b>	<b><i>Answer</i></b>