# 16.1 Extension Classes

# 16.1.1 Extension

## Summary

A characterization of some aspect of an Element that is associated with the Element in a generalized fashion.

## Description

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An Extension is a characterization of some aspect of an Element that is associated with the Element in a generalized fashion

Rather than being associated with a particular Element through the typical use of a purpose-specific object property an Extension is associated with the Element it characterizes using a single common generalized object property.

This approach serves multiple purposes:

#### 16.2Properties

Metadata

Name

#### 16.2.1cdxPropName

cdxPropName

Nature DataProperty

Range xsd:string

A cdxPropName is used in a CdxExtension name-value pair.

https://spdx.org/rdf/3.0.1/terms/Extension/cdxPropName

Unlike key-value stores, cdxProperties support duplicate names, each potentially having different values.

- 1. Support profile-based extended characterization of Elements Element characterization extensions within any profile and name Summary other profiles or namespaces and without requiring local subclass A name used in a CdxExtension name-value pair. ecosystem interoperability in some cases). Description
- Support extension of SPDX by adopting individuals or comm 2. uniquely specialized to their particular context. Enables adop expressive capabilities along with expressing more arcane Elemnot appropriate for standardization across SPDX.
- Support structured capture of expressive solutions for gaps 3. Enables adopting individuals or communities to express Elemen not currently defined in SPDX but likely should be. Enables a pr that should be filled, expresses solutions to those gaps in a way extended solutions with SPDX and does not conflict with current SPDX content exchange ecosystem, provides a clear and structure submission for revision to SPDX standard.

#### Referenced Metadata Add specific • /Extension/CdxPropertyEntry Properties https://spdx.org/rdf/v3/Extension/Extension to the 16.2.2cdxPropValue Extension Extension Name Summary Instantiability Abstract class A value used in a CdxExtension name-value pair. Properties Description Property Type minCount maxCount A cdxPropValue is used in a CdxExtension name-value pair. Unlike key-value stores, cdxProperties support duplicate names, each potentially having different values. Add details of Properties inherited from classess and super Metadata https://spdx.org/rdf/3.0.1/terms/Extension/cdxPropValue cdxPropValue Name Nature DataProperty Range xsd:string

Referenced System Package

• /Extension/CdxPropertyEntry

#### 16.2.3cdxProperty

# Summary

Provides a map of a property names to a values.

# Description

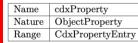
This field provides a mapping of a name to a value.

This is intended to be compatible with the CycloneDX property "properties".

Unlike key-value stores, properties support duplicate names, each potentially having different values.

### Metadata

https://spdx.org/rdf/3.0.1/terms/Extension/cdxProperty



### Referenced

/Extension/CdxPropertiesExtension