

FoodEstablishmentDS-Final

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STI2

Abstract. *This document is a Final DS for the Request for Domain Specifications (RDS) on FoodEstablishment from May 09, 2022.*

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1. Introduction

The requested domain specification is about selecting certain properties from the FoodEstablishment type and specifying their cardinalities. One small extension to the domain of a property is also requested. The domain specification is accepted as presented in this document by AG 2 of ODTA¹.

In the remainder of the document we provide our suggestions in relation to the requests made in the RDS. We then conclude with a summary and some general remarks.

2. Suggestions

This section presents our suggestions according to the requests made for the FoodEstablishment Domain Specification. Each subsection contains a suggestion and starts with a quote from the RDS followed by our answer including how the request is recommended to be implemented.

2.1 Request for a property acceptsReservations

<i>PROPERTY</i>	<i>CARDINALITY</i>	<i>RANGE TYPES</i>
acceptsReservations	0 - 1	Text URL Boolean

A property for specifying whether a food establishment accepts reservations is requested. The acceptsReservations property of the FoodEstablishment type can be used for this purpose. A food establishment can have at most one value for this property.

Representation with schema.org

Property	Domain	Range
schema:acceptsReservations	schema:FoodEstablishment	<div> <div>schema:Text</div> <div>OR</div> <div>schema:URL</div> <div>OR</div> <div>schema:Boolean</div> </div>

¹ See the published version here:
<https://semantify.it/list/CRkyvcqGqeUu?ds=zmoYZEMoSAKS>

2.2 Request for a property address

PROPERTY	CARDINALITY	RANGE TYPES
<i>address</i>	<i>1</i>	PostalAddress Text

A property for specifying the address of food establishments is requested. The address property of Place can be used for this purpose. A food establishment must have exactly one address value.

Representation with schema.org

Property	Domain	Range
schema:address	schema:FoodEstablishment	schema:PostalAddress

2.4 Request for a property aggregateRating

PROPERTY	CARDINALITY	RANGE TYPES
<i>aggregateRating</i>	<i>0 - 1</i>	AggregateRating

A property for specifying the aggregated rating of a food establishment is requested. The aggregateRating property of the FoodEstablishment type can be used for this purpose. A food establishment can have at most one value for this property.

Representation with schema.org

Property	Domain	Range
schema:aggregateRating	schema:FoodEstablishment	schema:AggregateRating

2.5 Request for a property contactPoint

PROPERTY	CARDINALITY	RANGE TYPES
<i>contactPoint</i>	<i>0 - 1</i>	ContactPoint

A property for specifying the contact point of a food establishment is requested. The contactPoint property of the FoodEstablishment type can be used for this purpose. A food establishment can have at most one value for this property.

Representation with schema.org

Property	Domain	Range
schema:contactPoint	schema:FoodEstablishment	schema:ContactPoint

2.6 Request for a property currenciesAccepted

PROPERTY	CARDINALITY	RANGE TYPES
<i>currenciesAccepted</i>	0 +	<i>Text</i>

A property for specifying the accepted currencies by a food establishment is requested. The currenciesAccepted property of the FoodEstablishment type can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:currenciesAccepted	schema:FoodEstablishment	schema:Text

2.7 Request for a property description

PROPERTY	CARDINALITY	RANGE TYPES
<i>description</i> <i>de:Beschreibung</i>	0 +	<i>Text</i> <i>Localized Text</i>

A property for specifying descriptions of a food establishment is requested. The proposed description property of schema.org can be used for this purpose. Note that the description

values can be in multiple languages which means the usage of RDF language-tagged strings² is advised when generating data according to this DS.

Representation with schema.org

Property	Domain	Range
schema:description	schema:FoodEstablishment	schema:Text

2.8 Request for a property email

PROPERTY	CARDINALITY	RANGE TYPES
<i>email</i>	1	<i>Text</i>

A property for specifying the email address of food establishments is requested. The email property of FoodEstablishment can be used for this purpose. A food establishment must have exactly one address value.

Representation with schema.org

Property	Domain	Range
schema:email	schema:FoodEstablishment	schema:Text

2.9 Request for a property faxNumber

PROPERTY	CARDINALITY	RANGE TYPES
<i>faxNumber</i>	0 +	<i>Text</i>

A property for specifying the fax number of food establishments is requested. The faxNumber of Place can be used for this purpose.

² <https://www.w3.org/TR/rdf11-concepts/#section-Graph-Literal>

Representation with schema.org

Property	Domain	Range
schema:faxNumber	schema:FoodEstablishment	schema:Text

2.10 Request for a property founder

PROPERTY	CARDINALITY	RANGE TYPES
<i>founder</i>	0 +	<i>Person</i>

A property for specifying the founder of a food establishment is requested. The founder property of FoodEstablishment can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:founder	schema:FoodEstablishment	schema:Person

2.11 Request for a property foundingDate

PROPERTY	CARDINALITY	RANGE TYPES
<i>foundingDate</i>	0 - 1	<i>Date</i>

A property for specifying the establishment date of a food establishment is requested. The foundingDate property of the FoodEstablishment type can be used for this purpose. A food establishment can have at most one value for this property.

Representation with schema.org

Property	Domain	Range
schema:foundingDate	schema:FoodEstablishment	schema:Date

2.12 Request for a property geo

PROPERTY	CARDINALITY	RANGE TYPES
<i>geo</i>	<i>0 - 1</i>	GeoCoordinates GeoShape

A property for specifying the geo coordinates of a food establishment is requested. The proposed geo property of schema.org can be used for this purpose. The RDS specifies that a food establishment can have a maximum one pair of geo coordinates.

Representation with schema.org

Property	Domain	Range
schema:geo	schema:FoodEstablishment	schema:GeoCoordinates

2.13 Request for a property hasMap

PROPERTY	CARDINALITY	RANGE TYPES
<i>hasMap</i>	<i>0 +</i>	<i>URL</i>

A property for specifying the URL for a map of a food establishment is requested. The proposed hasMap property of schema.org can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:hasMap	schema:FoodEstablishment	schema:URL

2.14 Request for a property hasMenu

PROPERTY	CARDINALITY	RANGE TYPES
<i>hasMenu</i>	<i>1</i>	Menu

		Text URL
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A property for specifying the menu of food establishments is requested. The hasMenu property of FoodEstablishment can be used for this purpose. A food establishment must have exactly one value for this property.

Representation with schema.org

Property	Domain	Range
schema:hasMenu	schema:FoodEstablishment	schema:URL OR schema:Text OR schema:Menu

2.15 Request for a property identifier

PROPERTY	CARDINALITY	RANGE TYPES
<i>identifier</i>	0 +	Text PropertyValue URL

A property for specifying a custom identifier for a food establishment instance is requested. The proposed identifier property of schema.org can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:identifier	schema:FoodEstablishment	schema:Text OR schema:PropertyValue OR schema:URL

2.16 Request for a property image

PROPERTY	CARDINALITY	RANGE TYPES
<i>image</i>	0 +	URL ImageObject

A property for specifying images of a food establishment is requested. The proposed image property of schema.org can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:image	schema:FoodEstablishment	schema:ImageObject OR schema:URL

2.17 Request for a property name

PROPERTY	CARDINALITY	RANGE TYPES
<i>name</i>	1 +	Text Localized Text

A property for specifying names of a food establishment is requested. The proposed name property of schema.org can be used for this purpose. Note that the name values can be in multiple languages which means the usage of RDF language-tagged strings³ is advised when generating data according to this DS. A food establishment must have at least one name.

Representation with schema.org

Property	Domain	Range
schema:name	schema:FoodEstablishment	schema:Text

2.18 Request for a property openingHoursSpecification

³ <https://www.w3.org/TR/rdf11-concepts/#section-Graph-Literal>

PROPERTY	CARDINALITY	RANGE TYPES
<i>openingHoursSpecification</i>	1 +	OpeningHoursSpecification

A property for specifying the opening hours of a food establishment is requested. The proposed openingHoursSpecification property of schema.org can be used for this purpose. The property has at least one value.

Representation with schema.org

Property	Domain	Range
schema:openingHoursSpecification	schema:FoodEstablishment	schema:OpeningHoursSpecification

2.19 Request for a property priceRange

PROPERTY	CARDINALITY	RANGE TYPES
<i>priceRange</i>	1	Text

A property for specifying the price range of food establishments is requested. The priceRange property of FoodEstablishment can be used for this purpose. A food establishment must have exactly one value for this property.

Representation with schema.org

Property	Domain	Range
schema:priceRange	schema:FoodEstablishment	schema:Text

2.20 Request for a property review

PROPERTY	CARDINALITY	RANGE TYPES
<i>review</i>	0 +	Review

A property for specifying the reviews of a food establishment is requested. The proposed review property of schema.org can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:review	schema:FoodEstablishment	schema:Review

2.21 Request for a property sameAs

PROPERTY	CARDINALITY	RANGE TYPES
sameAs	0 +	URL

A property for specifying the duplicate instances of a food establishment instance is requested. The proposed sameAs property of schema.org can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:sameAs	schema:FoodEstablishment	schema:URL

2.22 Request for a property sdLicense

PROPERTY	CARDINALITY	RANGE TYPES
sdLicense	0 +	URL CreativeWork

A property for specifying the license of an instance is requested. This request is not relevant only for the food establishment instances but for all instances. The property provides a straightforward way to attach licenses at instance level. Schema.org defines an sdLicense property only on CreativeWork type, but the RDS wants to extend the domain of this property to Thing. We take on this proposal. See the LodgingBusinessDS RC for potential values of this property from the CreativeCommons licenses.

Extension to schema.org

Property	Domain	Range
schema:sdLicense	schema:FoodEstablishment	schema:URL OR schema:CreativeWork

2.23 Request for a property servesCuisine

PROPERTY	CARDINALITY	RANGE TYPES
<i>servesCuisine</i>	1 +	Text

A property for specifying the cuisine a food establishment is serving is requested. The proposed servesCuisine property of schema.org can be used for this purpose. The property has at least one value.

Representation with schema.org

Property	Domain	Range
schema:servesCuisine	schema:FoodEstablishment	schema:Text

2.24 Request for a property smokingAllowed

PROPERTY	CARDINALITY	RANGE TYPES
<i>smokingAllowed</i>	0 - 1	Boolean

A property for specifying whether smoking is allowed in a food establishment is requested. The proposed smokingAllowed property of schema.org can be used for this purpose. The property can have at most one value.

Representation with schema.org

Property	Domain	Range
schema:smokingAllowed	schema:FoodEstablishment	schema:Boolean

2.25 Request for a property starRating

<i>PROPERTY</i>	<i>CARDINALITY</i>	<i>RANGE TYPES</i>
<i>starRating</i>	<i>0 - 1</i>	<i>Rating</i>

A property for specifying the star rating of a food establishment is requested. The proposed starRating property of schema.org can be used for this purpose. The property can have at most one value.

Representation with schema.org

Property	Domain	Range
schema:starRating	schema:FoodEstablishment	schema:Rating

2.26 Request for a property telephone

<i>PROPERTY</i>	<i>CARDINALITY</i>	<i>RANGE TYPES</i>
<i>telephone</i>	<i>0 +</i>	<i>Text</i>

A property for specifying the telephone number of a food establishment is requested. The proposed telephone property of schema.org can be used for this purpose.

Representation with schema.org

Property	Domain	Range
schema:telephone	schema:FoodEstablishment	schema:Text

2.26 Request for a property url

<i>PROPERTY</i>	<i>CARDINALITY</i>	<i>RANGE TYPES</i>
<i>url</i>	<i>0 +</i>	<i>URL</i>

A property for specifying the url of a page that represents a food establishment is requested. The url property of schema.org can be used for this purpose. Note that a URI for a specific instance should be defined by the means of RDF (e.g., @id property of JSON-LD).

Representation with schema.org

Property	Domain	Range
schema:url	schema:FoodEstablishment	schema:URL

3. Conclusion

The DS was published on 02.07.2024 after discussions in the AG 2 of ODTA. See the published version here: <https://semantify.it/list/CRkyvcqGqeUu?ds=zmoYZEMoSAKS>