Proposal: Orders in Schema.org

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Status of this Document

While schema.org already supports marking up **offers** to sell products (pre-transaction), it does not currently provide schema for the common kinds of confirmations and notifications around **orders** (post-transaction):

- Describing an order that has taken place (receipt)
- Describing the delivery status of an order

This is a proposal to extend schema.org to support these use cases.

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Orders

An order is a confirmation of a transaction (a receipt), which can contain multiple line items, each represented by an Offer that has been accepted by the customer.

Thing > Intangible > Order

property	expected type	description
url (inherited)	url	The URL of the order's webpage.
action (inherited)	Action	Used for specifying links to specific actions.
orderNumber	text	The identifier of the transaction.
orderDate	datetime	Date order was placed.
orderStatus	OrderStatus	The current status of the order
orderedItem	Product	The item ordered
acceptedOffer	Offer	The offer(s) -- e.g., product, quantity and price combinations -- included in the order.
merchant	Person or Organization	The party taking the order (e.g. Amazon.com is a merchant for many sellers.)
seller	Person or Organization	Party providing the good or service (e.g. Acme Products may be a seller providing a good through Amazon.com.)
customer	Person or Organization	Party placing the order.

price	number or text	The total price of the entire transaction.
priceCurrency	text	The currency (in 3-letter ISO 4217 format) of the order price.
priceSpecification	PriceSpecification	
billingAddress	PostalAddress	The billing address for the order.
isGift	Boolean	Was the offer accepted as a gift for someone other than the buyer
paymentMethod	PaymentMethod	The name of the credit card or other method of payment for the order
paymentMethodId	text	An identifier for the method of payment used (e.g. the last 4 digits of the credit card)
discount	number or text	Any discount applied
discountCurrency	text	The currency (in 3-letter ISO 4217 format) of the discount
discountCode	text	Code used to redeem a discount

Thing > Intangible > Enumeration > OrderStatus

Inherits description from Thing.

Uses the instances:
- Processing
- Cancelled
- InTransit
- Delivered
- AvailableForPickup
- ProblemWithOrder

Thing > Intangible > Offer > AcceptedOffer

A subclass of Offer to use if you want to link an Offer to an Order.

property	expected type	description
partOfOrder	Order	

Thing > Intangible > StructuredValue > PriceSpecification > ValueAddedTaxSpecification

Similar to the existing DeliveryChargeSpecification for specifying tax line items in an Order.

Thing > Intangible > Enumeration > DeliveryMethod

Add new instances:

- WillCall
- InStorePickup
- Locker

Package Tracking

Thing > Intangible > ParcelDelivery

property	expected type	description
url (inherited)	url	The URL of the shipment's webpage.
action (inherited)	Action	Used for specifying links to specific actions (e.g., "cancel")...
trackingNumber	text	Shipper tracking number
trackingUrl	url	The URL for tracking the package
itemShipped	Product	Item(s) being shipped.
partOfOrder	Order	The overall order the items in this delivery were included in.

carrier	Organization	The party responsible for the parcel delivery.
deliveryMethod	DeliveryMethod	Method used for shipping.
originAddress	PostalAddress	Shipper's address
deliveryAddress	PostalAddress	Destination address
expectedArrivalFrom	datetime	The earliest date the package may arrive
expectedArrivalUntil	datetime	The latest date the package may arrive
deliveryStatus	DeliveryEvent	New entry added as the package passes through each leg of its journey (from shipment to final delivery).

Thing > Event > DeliveryEvent
Event already has properties for datetime, location and description.

property	expected type	description
availableFrom	DateTime	When the item is available for pickup from the store, locker, etc.
availableThrough	DateTime	After this date, the item will no longer be available for pickup.
deliveryMethod	DeliveryMethod	How the item was delivered
accessCode	text	Password, PIN, or access code needed for delivery (e.g. from a locker).

Other supporting schema.org changes:

Add Thing > Product > DigitalProduct, Thing > CreativeWork > DigitalProduct

DigitalProduct inherits from both Thing > Product and Thing > CreativeWork to allow the expression of both ideas as necessary.

Add to Thing > Event

property	expected type	description
eventStatus	EventStatus	The status of the event
doorTime	datetime	The time admission will commence.

Thing > Intangible > Enumeration > EventStatus

An enumeration. One of:

- **Pending** - The event is proposed
- **Tentative** - The event is scheduled
- **Confirmed** - The event is confirmed
- **Cancelled** - The event has been cancelled

Thing > Event > MovieShowing

property	expected type	description
movie	Movie	The movie being show