

Legend

Syntax Colors	required keyword	definition name
	optional keyword	string literal

Data Model

Data Model	dataModel taxBlasterData
Data Structure	structure Person taxpayerID : string lastName : string dob : gDate
References	address : reference to Address
Cardinality	! or [1..1] → employeeID : string! * or [0..*] → otherNames : string* + or [1..*] → assignments : string+ default: ? or [0..1] → dateFiled : date
Enumerations	Has a symbolic name and an int or string value: enum string CurrencyCodeEnum EUR : "Euro" USD : "US Dollar" enum int SpecialNullValueEnum NOT_AVAILABLE : -65534 NOT_APPLICABLE : -65533 enum int FilingStatusEnum //default DRAFT, FILED, CLOSED //0,1,2
User-Defined Types, Constraints	simpleType ISBN defined as string of length from 8 to 10 matching regex "\dX?" simpleType Fractional as decimal valueRange from "0" to "1"

Comments and Documentation

Single-Line	// Error responses include diags.
Multi-Line	/* See design guidelines on required properties. */
Documentation	/** An individual Tax Filing */ objectResource taxObject type Tax

Model Import

Import dataModel / resourceAPI	Import from a URL, relative or absolute path: import Common.DataTypes from "http://my.org/Common.rapid" ...or "data models/Common.rapid" ...or "file:///C:/models/Common.rapid"
Namespace	Model defined in a namespace... namespace com.xo rapidModel ZM must be imported using namespace prefix: import com.xo.ZM.API from "xo.rapid"
Alias	Assign an alias... import Common.DataTypes from "Common.rapid" as cdt to resolve name clashes: taxpayer : reference to cdt.Person

API Model

API	resourceAPI PersonObject baseURI "http://taxblaster.com/api"
Object	objectResource PersonObject type Person
Collection	collectionResource partCollection type MachinePart
URI with Template Parameters	URI taxFilings/{id}/{version} /* property-bound parameter */ required templateParam id bound to property filingID /* primitive type parameter */ required templateParam version of type int
Exclusive Property Set	Override cardinality with property suffix: with only properties filingID!, year, taxpayer
Inclusive Property Set	with all properties including lastName!, addresses+ excluding taxLiability, currency

Linking and Embedding

Reference Link	Explicit hyperlink to specify target resource, link relation or target properties: referenceLink >taxpayer targetResource PersonObject
Decorated Link	Include important properties with the link: referenceLink >taxpayer targetProperties taxpayerID, lastName
Embedded Objects	Explicit embed to override default link or specify target property subset: referenceEmbed >taxpayer targetProperties taxpayerID, firstName, lastName, DOB

Methods and Messages

Method	method GET getPersonObject
Request	request //empty request request with type Person //structure request with TaxObject //resource request with this //current resource
Request Parameters	required param div bound to property division in query param lang of type string in header
Response	Responses may be empty or have the current resource (this), another resource or structure. response PersonObject statusCode 200
Response Headers	required param source of type string param changeStatus bound to property status
Message Data Type Realization	Data types in messages support property sets, constraints, reference linking and embedding: request with type TaxFiling with only properties filingID!, taxpayer!, year referenceLink >taxpayer targetProperties taxpayerID, lastName