# Schema

title: JADN Syntax

module: oasis-open.org/openc2/v1.0/jadn

patch: wd01

description: Syntax of a JSON Abstract Data Notation (JADN) module.

exports: Schema, Uname

# **Types**

Sch	iema (Reco	rd)			
ID	Name	Type	#	Desci	ription
1	meta	Meta	1	Inform	nation about this schema modu <mark>l</mark> e
2	types	Type	1n	Types	s defined in this schema module
Me	ta (Map)				
D	Name	Тур	e	#	Description
1	module	Una	me	1	Schema unique name/version
2	patch	Strir	ng	01	Patch version
3	title	Strir	ng	01	Tit <b>l</b> e

## imports 6

description

0..1 Description 0..n Imported schema modules

Data types exported by this module exports Identifier 0..n bounds Bounds 0..1 Schema-wide upper bounds

String

Import

#### Import (Array)

4

5

ID	Type	#	Description
1	Nsid	1	nsid A short local identifier (namespace id) used within this module to refer

t local identifier (namespace id) used within this module to refer to the imported module 2

Uname uname -- Unique name of imported module

### Bounds (Array)

ID	Type	#	Description
1	Integer	1	max_msg Maximum serialized message size in octets or characters
2	Integer	1	max_str Maximum string length in characters
3	Integer	1	max_bin Maximum binary length in octets
4	Integer	1	max_fields Maximum number of elements in ArrayOf

### Type (Array)

ID	Type	#	Description
1	<b>I</b> dentifier	1	tname Name of this datatype
2	JADN-Type	1	btype Base type. Enumerated value derived from list of JADN data types
3	Option	1n	opts Type options
4	String	1	desc Description of this data type
5	JADN-Type	1n	fields List of fields for compound types. Not present for primitive types

#### JADN-Type (Choice)

ID	Name	Type	Description
1	Binary	Null	Octet (binary) string
2	Boolean	Null	True or False
3	Integer	Null	Whole number
4	Number	Null	Real number
5	Null	Null	Nothing
6	String	Null	Character (text) string
7	Array	FullField	Ordered list of unnamed fields
8	ArrayOf	Null	Ordered list of fields of a specified type
9	Choice	FullField	One of a set of named fields

11	11 <b>Map</b> FullField		One of a set of id:name pairs Unordered set of named fields Ordered list of named fields
Enum	ıField (Array)		
	D Type 1 Integer 2 String		# Description 1 Item ID 1 Item name
	3 String		1 Item description
FullFi	eld (Array)		
ID 1	Type Integer	# 1	Description Field ID or ordinal position
2	Identifier Identifier	1 1	Field name Field type
4 5	Options String	1 1	Field options Field description
Ident	ifier		
Name Identifi	<b>Type</b> er String	Description A string starting	g with an alpha char followed by zero or more alphanumeric / underscore / dash ch
Nsid			
Name Nsid	<b>Type</b> String	Descrip Names	otion Dace ID – a short identifier
Unan	ne .		
Name Uname		<b>Description</b> Unique name (e.g	., of a schema) – typically a set of Identifiers separated by forward slashes
Optio	ons		
Name Options	Type ArrayOf(C	)ption) ['max', 'mi	Description Options list may be empty but may not be omitted
Optio	n		