

## 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

### Schema (Record)

ID	Name	Type	#	Description
1	meta	Meta	1	Information about this schema module
2	types	Type	1..n	Types defined in this schema module

### Meta (Map)

ID	Name	Type	#	Description
1	module	Uname	1	Schema unique name/version
2	patch	String	0..1	Patch version
3	title	String	0..1	Title
4	description	String	0..1	Description
5	imports	Import	0..n	Imported schema modules
6	exports	Identifier	0..n	Data types exported by this module
7	bounds	Bounds	0..1	Schema-wide upper bounds

### Import (Array)

ID	Type	#	Description
1	Nsid	1	nsid -- A short local identifier (namespace id) used within this module to refer to the imported module
2	Uname	1	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	Identifier	1	tname -- Name of this datatype
2	JADN-Type	1	btype -- Base type. Enumerated value derived from list of JADN data types
3	Option	1..n	opts -- Type options
4	String	1	desc -- Description of this data type
5	JADN-Type	1..n	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

10	<b>Enumerated</b>	EnumField	One of a set of id:name pairs
11	<b>Map</b>	FullField	Unordered set of named fields
12	<b>Record</b>	FullField	Ordered list of named fields

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#### EnumField (Array)

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ID	Type	#	Description
1	Integer	1	Item ID
2	String	1	Item name
3	String	1	Item description

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#### FullField (Array)

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ID	Type	#	Description
1	Integer	1	Field ID or ordinal position
2	Identifier	1	Field name
3	Identifier	1	Field type
4	Options	1	Field options
5	String	1	Field description

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#### Identifier

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Name	Type	Description
Identifier	String	A string starting with an alpha char followed by zero or more alphanumeric / underscore / dash chars

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#### Nsid

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Name	Type	Description
Nsid	String	Namespace ID – a short identifier

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#### Uname

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Name	Type	Description
Uname	String	Unique name (e.g., of a schema) – typically a set of Identifiers separated by forward slashes

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#### Options

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Name	Type	Description
Options	ArrayOf(Option) ['min', 'max']	Options list may be empty but may not be omitted

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#### Option

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Name	Type	Description
Option	String	Option string: 1st char = option id