Schema

title: JADN Syntax

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

patch: 0-csdpr02

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

exports: Schema, Uname

Schema (Record)

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

Meta (Map)

ID Name Type # Description	
1 module Uname 1 Schema unique name/version	
2 patch String 01 Patch version	
3 title String 01 Title	
4 description String 01 Description	
5 imports Import 0n Imported schema modules	
6 exports Identifier 0n Data types exported by this mod	ule
7 bounds Bounds 01 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	I dentifier	1	tname Name of this datatype
2	Enumerated.*	1	btype Base type. Enumerated value derived from list of JADN data types
3	Options	1	opts Type options
4	String	1	desc Description of this data type
5	JADN-Type	0n	fields List of fields for compound types. Not present for primitive types

JADN-Type (Choice)

ID	Name	Type	#	Description
1	Binary	Null	1	Octet (binary) string
2	Boolean	Null	1	True or False
3	Integer	Null	1	Whole number
4	Number	Null	1	Real number
5	Null	Null	1	Nothing
6	String	Null	1	Character (text) string
7	Array	FullField	1	Ordered list of unnamed fields
8	ArrayOf	Null	1	Ordered list of fields of a specified type
9	Choice	FullField	1	One of a set of named fields
10	Enumerated	EnumField	1	One of a set of id:name pairs
11	Мар	FullField	1	Unordered set of named fields
12	Record	FullField	1	Ordered list of named fields

EnumField (Array)

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

FullField (Array)

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

Identifier

Type Name Base Type Description

Identifier String [0..32] A string starting with an alpha char followed by zero or more alphanumeric / underscore / dash chars

Nsid

Type Name Base Type Description

Nsid String [1..8] Namespace ID - a short identifier

Uname

Type Name Base Type Description
Uname String [1..100] Unique name (e.g., of a schema) – typically a set of Identifiers separated by forward slashes

Options

Type Name Base Type Description

Options ArrayOf(Option) [0..10] Options list may be empty but may not be omitted

Option

Type Name Base Type Description

Option String [1..100] Option string: 1st char = option id