Schema

title:	JADN Syntax
module:	oasis-open.org/openc2/v1.0/jadn
version:	wd01
description:	Syntax of a JSON Abstract Data Notation (JADN) module.
exports:	Schema

3.2 Structure Types

3.2.1 Schema

Definition of a JADN file

Schema (Record)

ID	Name	Type	#	Description
1	meta	Meta	1	Information about the schema module
2	types	Type	1..n	Type definitions

3.2.2 Meta

Meta-information about this schema

Meta (Map)

ID	Name	Type	#	Description
1	module	Uname	1	Module unique name
2	title	String	0..1	Title
3	version	String	0..1	Module version
4	description	String	0..1	Description
5	imports	Import	0..n	Imported modules
6	exports	String	0..n	Exported datatype names

3.2.3 Import

Imported module id and unique name

Import (Array)

ID	Type	#	Description
1	Nsid	1	Local ID used within this module to refer to the imported module
2	Uname	1	Unique name of imported module

3.2.4 Type

Type (Array)

ID	Type	#	Description
1	Identifier	1	"tname": Name of this datatype
2	JADN-Type	1	"btype": Base type
3	Option	1..n	"opts": Type options

ID	Type	#	Description
4	String	1	"desc": Type description
5	JADN-Type	1..n	"fields": List of fields (for compound types)

3.2.5 JADN-Type

JADN-Type (Choice)

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

3.2.6 EnumField

Item definition for Enumerated types

EnumField (Array)

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

3.2.7 FullField

Field definition for other compound types

FullField (Array)

ID	Type	#	Description
1	Integer	1	Field ID or ordinal position
2	Identifier	1	Field name
3	Identifier	1	Field type
4	Option	0..n	Field options
5	String	1	Field description

3.3 Primitive Types

Name	Type	Description
Identifier	String	A string starting with an alpha char followed by zero or more alphanumeric / underscore / dash chars
Nsid	String	Namespace ID – a short identifier
Uname	String	Unique name of imported module
Option	String	Option string: 1st char = option id