5/18/2018 jadn v.1.0 wd01

Schema

title: JADN Schema Syntax

module: jadn version: 1.0 wd01

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

3.2 Structure Types

3.2.1 JADN

Definition of a JADN file

JADN (Record)					
ID	Name	Type	#	Description	
1	meta	SchemaMeta	1	Information about the schema module	
2	types	SchemaType	1n	Type definitions	

3.2.2 SchemaMeta

Meta-information about this schema

SchemaMeta (Map)						
ID	Name	Type	#	Description		
1	module	String	1	Module name		
2	title	String	01			
3	version	String	01	Module version		
4	description	String	01			
5	imports	Import	0n	List of imported modules		

3.2.3 Import

Import (Array)					
ID	Name	Type	#	Description	
1	nsid	String	1	Namespace identifier	
2	name	String	1	Unique name of the defining module	

3.2.4 SchemaType

SchemaType (Array)				
ID	Name	Type	#	Description
1	name	String	1	
2	type	JADN-Type	1	TODO: Need * option to autogenerate enum from choice
3	options	String	1n	
4	description	String	1	
5	fields	JADN-Type	1n	

5/18/2018 jadn v.1.0 wd01

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	Мар	FullField	Unordered set of named fields		
12	Record	FullField	Ordered list of named fields		

3.2.6 EnumField

Field definition for Enumerated types

EnumField (Array)							
ID	Name	Type	#	Description			
1	id	Integer	1	Field ID			
2	name	String	1	Field name			
3	desc	String	1	Field description			

3.2.7 FullField

Field definition for types other than Enumerated

Fu	llField (Ar	ray)		
ID	Name	Type	#	Description
1	id	Integer	1	Field ID or ordinal position
2	name	String	1	Field name
3	type	String	1	Field type
4	opts	String	0n	Field optiona
5	desc	String	1	Field description

3.3 Primitive Types

Name Type Description