

ProtoGen: Schema for JSON

Phillip Hallam-Baker

Comodo Group Inc.

ProtoGen



Input Language

Protocol ConfirmationBroker CNF

Service Enquirer "owcp-enquire" "owcp-enquire"

Description

| Enquirer service

Transaction Enquirer Confirmation ConfirmationRequest ConfirmationResponse

Description

| Post a request for confirmation to a user.

Status Success

Status Refused

Status UnknownUser

Message ConfirmationRequest

Description

| Request a confirmation from a specified user.

String Account

Required

Description

| The user being asked to provide confirmation.

Description

| The format of the account identifier is the same as for email,

| i.e. <username>@<domain>;

String Text

Required

String Option

Multiple

Intrinsic Types

Protogen	JSON	C	C#
Boolean	true/false/null	bool	Boolean
Integer	Number	long	Int64
Float	Number	double	Real64
Binary	String(Base64url)	char[]	Byte[]
String	String	char[]	String
DateTime	String(RFC3339)	char[]	DateTime
URI	String	char[]	String
Label	String	char[]	String

Constraints

- Minimum number of occurrences
 - Default is 0
 - ‘Required’ means minimum is 1
- Maximum number of occurrences
 - Default is 1
 - ‘MULTIPLE’ means maximum is unlimited
- Not supported
 - Value constraints.

Constructors

- Structure <Name>
 <Entries>
- Message <Name>
 <Entries>
- Transaction <Name> <Request> <Response>
- Struct <Name>
- Inherits <Name>

Adding Outputs

- Tool is written in Goedel
 - Outputs generated by scripts
 - New scripts can be added
 - RFC822
 - XML? ASN.1?

Non Goals

- Detailed constraints