AMP.me

A prototype NM tool

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Overview

• This is a prototype tool, that will soon be released open source
  - Initially packaged with ION

• Written entirely in Javascript
  - Command-line (NodeJS) and Browser based interfaces

• Intended to serve as a debug tool to analyze AMP messages, and as a sample interface to the NM Manager via the MySQL and/or REST API interfaces.

• Current Features Include
  - Conversion of messages between URI, CBOR-Encoded HEX Strings, and a variety of intermediate formats and visual representations
  - Command line tool to insert controls (via URI) into the MySQL database (browser bindings todo)
  - Command line tool to view received reports
  - View list of registered agents

• Future Capabilities may include
  - Web form to build and send controls to one or more known agents
  - View manager status
  - View received reports and transmitted (or pending) controls and update status.
  - ADM Definition Views
amp.me – URI Decoding

Currently accepts CBOR Hex (0x...) AMP-JSON (e: ar/..., or AMP URIs (e: ar:/IANA:...). This tool is experimental and some data types may not be fully implemented at this time.

Input: ar/iANA.amp.agent/Ctrl_gen_rpts[ar/iANA.amp.agent/Rpt.full_report]];[]]

Parsed As: ARI

CBOR: c1354105050232538187181941000

URI

ar/iANA.amp.agent/Ctrl_gen_rpts[ar/iANA.amp.agent/Rpt.full_report]];[]]

JSON

```json
{
  "class": "ARI",
  "type": 1,
  "namespace": 1,
  "data_type": 4,
  "parameters": {
    "class": "TNVC",
    "value": {
      "class": "AC",
      "arg": {
        "class": "ARI",
        "type": 5
      },
      "class": "DNVC",
      "value": {}
    }
  },
  "name": 5
}
```

<table>
<thead>
<tr>
<th>Input</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARI</td>
<td>ar/0x8718194100</td>
<td></td>
</tr>
<tr>
<td>AC</td>
<td>ac/0x81710194100</td>
<td></td>
</tr>
<tr>
<td>TNVC</td>
<td>tnvc/0x0502252381871819410000</td>
<td></td>
</tr>
<tr>
<td>ARI</td>
<td>ar/0xc11541050502325381871819410000</td>
<td></td>
</tr>
</tbody>
</table>
amp.me – CBOR Decoding & Re-encoding

Input (CBOR or URI): arl:/0xc115410505022523817819410000

Trace | Summary | CBOR Encoding | UML
---|---|---|---
Input | Type | Value
---|---|---
AHI | arl:/0x871819410000
AC | ac:/0x81871819410000
TNVC | tnvc:/0x05022523817819410000
ARI | arl:/0xc115410505022523817819410000

**Trace Diagram:**
- AHI
- TNVC
- Name 05
- TODO 0x15 = 21 NS=1 Type=CTRL=1
- Nickname
SQL Insertion

izzie@n1:~$ ./sql_msgs_insert.js --msg "ari:/IANA:amp.agent/Ctrl.gen_rpts([ari:/IANA:amp.agent/Rptt.full_report()],[])" --agent "ipn:3.64"

undefined

[Object: null prototype] {
  ns: 'IANA:amp.agent',
  namespace: 'IANA',
  nsname: 'amp.agent',
  cmd_type: 'Ctrl',
  cmd_name: 'gen_rpts',
  args: '[ari:/IANA:amp.agent/Rptt.full_report()],[]'
}

e= AC

[Object: null prototype] {
  ns: 'IANA:amp.agent',
  namespace: 'IANA',
  nsname: 'amp.agent',
  cmd_type: 'Rptt',
  cmd_name: 'full_report',
  args: ''
}

tnvc fromuri part= [] from uri= [ '[ari:/IANA:amp.agent/Rptt.full_report()]', '[]' ] type= TNVC
insertCtrl(112, null, ari:/IANA:amp.agent/Rptt.full_report())
insertCtrl(118, 24, ari:/IANA:amp.agent/Ctrl.gen_rpts([ari:/IANA:amp.agent/Rptt.full_report()],[]))

Created message group with id of 1

Done
User-friendly views of controls & reports will be added soon.
ADMs Listing

- This listing is generated by parsing the ADM JSON files
- Future enhancements would allow viewing details per ADM from the JSON files and/or provide an equivalent view from the MySQL database.