            IANA Considerations for IAX: Inter-Asterisk eXchange Version 2

Abstract

   This document establishes the IANA registries for IAX, the Inter-
   Asterisk eXchange protocol, an application-layer control and media
   protocol for creating, modifying, and terminating multimedia sessions
   over Internet Protocol (IP) networks. IAX was developed by the open
   source community for the Asterisk PBX and is targeted primarily at
   Voice over Internet Protocol (VoIP) call control, but it can be used
   with streaming video or any other type of multimedia.

Status of This Memo

   This document is not an Internet Standards Track specification; it is
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   http://www.rfc-editor.org/info/rfc5457.

IESG Note

   The IESG thinks that this work is related to IETF work done in SIP,
   MMUSIC, and AVT WGs, but this does not prevent publishing.

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[1](#). Introduction

IAX (Inter-Asterisk eXchange) is an "all-in-one" protocol for
handling multimedia in IP networks. It combines both control and
media services in the same protocol. In addition, IAX uses a single
UDP data stream on a static port greatly simplifying Network Address
Translation (NAT) gateway traversal, eliminating the need for other
protocols to work around NAT, and simplifying network and firewall
management. IAX employs a compact encoding that decreases bandwidth
usage and is well suited for Internet telephony service. In
addition, its open nature permits new payload type additions needed
to support additional services.

This document specifies and provides the initial values for the
creation of the IAX-related IANA registries as per [RFC5226].

2. IANA Considerations

The IAX protocol, as defined in [RFC5456], defines 15 namespaces that
have been registered. These namespaces are described below.

Each of these namespaces utilizes an 'Expert Review' for extension.
Documentation of new values is not mandated as RFCs. The Expert
Review should be guided by a few common sense considerations. For
example, new values should not be specific to a country, region,
organization, or company; they should be well-defined and widely
recognized.

2.1. Meta Command

Registry Name: IAX Meta Commands

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See Section 8.1.3.2 of [RFC5456].

Valid Range: 0x01-x7F.

Display format: hex.

The following table specifies the initial assignments of Meta Command
values:

```
+------+----------------+------------------------------------------+
| TYPE | Name           | Description                               |
+------+----------------+------------------------------------------+
| 0x01 | Trunk Meta     | Indicates that frame is a trunk meta     |
|      | Frame          | frame.                                   |
+------+----------------+------------------------------------------+
```

2.2. Frame Types

Registry Name: IAX Frame Types

Required Information for New Values: Name, description, and relevant
security considerations, if any. In addition, the definition and
description of subclasses.

Description: See Section 8.2 of [RFC5456].

Valid Range: 0x01-xFF.

Display format: hex.

The following table specifies the initial assignments of Frame Type
Values:

```
+------+------------+-------------------------+------------------+
| TYPE | Description | Subclass Description    | Data Description |
+------+------------+-------------------------+------------------+
| 0x01 | DTMF       | 0-9, A-D, *, #          | Undefined        |
|      |            |                         |                  |
| 0x02 | Voice      | Audio Compression Format | Data            |
|      |            |                         |                  |
| 0x03 | Video      | Video Compression Format | Data            |
|      |            |                         |                  |
| 0x04 | Control    | See Control Frame       | Varies with      |
|      |            | Subclass                | subclass         |
|      |            |                         |                  |
| 0x05 | Null       | Undefined               | Undefined        |
|      |            |                         |                  |
| 0x06 | IAX Control | See IAX Protocol       | Information      |
|      |            | Messages                | Elements         |
|      |            |                         |                  |
| 0x07 | Text       | Always 0                | Raw Text         |
|      |            |                         |                  |
| 0x08 | Image      | Image Compression Format | Raw image       |
|      |            |                         |                  |
| 0x09 | HTML       | See HTML Frame Types    | Message Specific |
|      |            |                         |                  |
| 0x0A | Comfort    | Level in -dBov of       | None             |
|      | Noise      | comfort noise           |                  |
+------+------------+-------------------------+------------------+
```

2.3. Control Frame Subclass

Registry Name: IAX Control Frame Subclass

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See Section 8.3 of [RFC5456].

Valid Range: 0x00-x7F.

Display format: hex.

The following table specifies the initial assignments of Control
Frame Subclasses:

VALUE	Name	Description
0x01	Hangup	The call has been hungup at the remote end
0x02	Reserved	Reserved for future use
0x03	Ringing	Remote end is ringing (ring-back)
0x04	Answer	Remote end has answered
0x05	Busy	Remote end is busy
0x06	Reserved	Reserved for future use
0x07	Reserved	Reserved for future use
0x08	Congestion	The call is congested
0x09	Flash Hook	Flash hook
0x0a	Reserved	Reserved for future use
0x0b	Option	Device-specific options are being transmitted
0x0c	Key Radio	Key Radio
0x0d	Unkey Radio	Unkey Radio
0x0e	Call Progress	Call is in progress
0x0f	Call Proceeding	Call is proceeding
0x10	Hold	Call is placed on hold
0x11	Unhold	Call is taken off hold

2.4. IAX Control Frames

   Registry Name: IAX Control Frames

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.4 of [RFC5456].

   Valid Range: 0x01-x7F.

   Display format: hex.

   The following table specifies the initial assignments of IAX Control
   Frame values:

```
   +------+-----------+----------------------------------------+
   | Hex  | Name      | Description                            |
   +------+-----------+----------------------------------------+
   | 0x01 | NEW       | Initiate a new call                    |
   |      |           |                                        |
   | 0x02 | PING      | Ping request                           |
   |      |           |                                        |
   | 0x03 | PONG      | Ping or poke reply                     |
   |      |           |                                        |
   | 0x04 | ACK       | Explicit acknowledgment                |
   |      |           |                                        |
   | 0x05 | HANGUP    | Initiate call tear-down                |
   |      |           |                                        |
   | 0x06 | REJECT    | Reject a call                          |
   |      |           |                                        |
   | 0x07 | ACCEPT    | Accept a call                          |
   |      |           |                                        |
   | 0x08 | AUTHREQ   | Authentication request                 |
   |      |           |                                        |
   | 0x09 | AUTHREP   | Authentication reply                   |
   |      |           |                                        |
   | 0x0a | INVAL     | Invalid message                        |
   |      |           |                                        |
   | 0x0b | LAGRQ     | Lag request                            |
   |      |           |                                        |
   | 0x0c | LAGRP     | Lag reply                              |
   |      |           |                                        |
   | 0x0d | REGREQ    | Registration request                   |
   |      |           |                                        |
   | 0x0e | REGAUTH   | Registration authentication            |
   |      |           |                                        |
   | 0x0f | REGACK    | Registration acknowledgement           |
```

```
|        |           |                                       |
| 0x10   | REGREJ    | Registration reject                   |
|        |           |                                       |
| 0x11   | REGREL    | Registration release                  |
|        |           |                                       |
| 0x12   | VNAK      | Video/Voice retransmit request        |
|        |           |                                       |
| 0x13   | DPREQ     | Dialplan request                      |
|        |           |                                       |
| 0x14   | DPREP     | Dialplan reply                        |
|        |           |                                       |
| 0x15   | DIAL      | Dial                                  |
|        |           |                                       |
| 0x16   | TXREQ     | Transfer request                      |
|        |           |                                       |
| 0x17   | TXCNT     | Transfer connect                      |
|        |           |                                       |
| 0x18   | TXACC     | Transfer accept                       |
|        |           |                                       |
| 0x19   | TXREADY   | Transfer ready                        |
|        |           |                                       |
| 0x1a   | TXREL     | Transfer release                      |
|        |           |                                       |
| 0x1b   | TXREJ     | Transfer reject                       |
|        |           |                                       |
| 0x1c   | QUELCH    | Halt audio/video [media] transmission |
|        |           |                                       |
| 0x1d   | UNQUELCH  | Resume audio/video [media] transmission |
|        |           |                                       |
| 0x1e   | POKE      | Poke request                          |
|        |           |                                       |
| 0x1f   | Reserved  | Reserved for future use               |
|        |           |                                       |
| 0x20   | MWI       | Message waiting indication            |
|        |           |                                       |
| 0x21   | UNSUPPORT | Unsupported message                   |
|        |           |                                       |
| 0x22   | TRANSFER  | Remote transfer request               |
|        |           |                                       |
| 0x23   | Reserved  | Reserved for future use               |
|        |           |                                       |
| 0x24   | Reserved  | Reserved for future use               |
|        |           |                                       |
| 0x25   | Reserved  | Reserved for future use               |
+------+-----------+---------------------------------------+
```

2.5. HTML Command Subclasses

   Registry Name: IAX HTML Command Subclasses

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.2 of [RFC5456].

   Valid Range: 0x01-x7F.

   Display format: hex.

   The following table specifies the initial assignments of IAX HTML
   Command Subclasses:

```
                 +--------+---------------------------+
                 | NUMBER | DESCRIPTION               |
                 +--------+---------------------------+
                 | 0x01   | Sending a URL             |
                 |        |                           |
                 | 0x02   | Data frame                |
                 |        |                           |
                 | 0x04   | Beginning frame           |
                 |        |                           |
                 | 0x08   | End frame                 |
                 |        |                           |
                 | 0x10   | Load is complete          |
                 |        |                           |
                 | 0x11   | Peer does not support HTML |
                 |        |                           |
                 | 0x12   | Link URL                  |
                 |        |                           |
                 | 0x13   | Unlink URL                |
                 |        |                           |
                 | 0x14   | Reject Link URL           |
                 +--------+---------------------------+
```

2.6. Information Elements

   Registry Name: IAX Information Elements

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.6 of [RFC5456].

   Valid Range: 0x01-xFF.

Display format: hex.

The following table specifies the Initial Assignments of Information
Element Definitions:

```
+------+---------------+-----------------------------------------+
| HEX  | NAME          | DESCRIPTION                             |
+------+---------------+-----------------------------------------+
| 0x01 | CALLED NUMBER | Number/extension being called           |
|      |               |                                         |
| 0x02 | CALLING NUMBER| Calling number                          |
|      |               |                                         |
| 0x03 | CALLING ANI   | Calling number ANI for billing          |
|      |               |                                         |
| 0x04 | CALLING NAME  | Name of caller                          |
|      |               |                                         |
| 0x05 | CALLED CONTEXT| Context for number                      |
|      |               |                                         |
| 0x06 | USERNAME      | Username (peer or user) for             |
|      |               | authentication                          |
|      |               |                                         |
| 0x07 | PASSWORD      | Password for authentication             |
|      |               |                                         |
| 0x08 | CAPABILITY    | Actual CODEC capability                 |
|      |               |                                         |
| 0x09 | FORMAT        | Desired CODEC format                    |
|      |               |                                         |
| 0x0a | LANGUAGE      | Desired language                        |
|      |               |                                         |
| 0x0b | VERSION       | Protocol version                        |
|      |               |                                         |
| 0x0c | ADSICPE       | CPE ADSI capability                     |
|      |               |                                         |
| 0x0d | DNID          | Originally dialed DNID                  |
|      |               |                                         |
| 0x0e | AUTHMETHODS   | Authentication method(s)                |
|      |               |                                         |
| 0x0f | CHALLENGE     | Challenge data for MD5/RSA              |
|      |               |                                         |
| 0x10 | MD5 RESULT    | MD5 challenge result                    |
|      |               |                                         |
| 0x11 | RSA RESULT    | RSA challenge result                    |
|      |               |                                         |
| 0x12 | APPARENT ADDR | Apparent address of peer                |
|      |               |                                         |
| 0x13 | REFRESH       | When to refresh registration            |
|      |               |                                         |
| 0x14 | DPSTATUS      | Dialplan status                         |
```

	0x15	CALLNO	Call number of peer
	0x16	CAUSE	Cause
	0x17	IAX UNKNOWN	Unknown IAX command
	0x18	MSGCOUNT	How many messages waiting
	0x19	AUTOANSWER	Request auto-answering
	0x1a	MUSICONHOLD	Request musiconhold with QUELCH
	0x1b	TRANSFERID	Transfer Request Identifier
	0x1c	RDNIS	Referring DNIS
	0x1d	Reserved	Reserved for future use
	0x1e	Reserved	Reserved for future use
	0x1f	DATETIME	Date/Time
	0x20	Reserved	Reserved for future use
	0x21	Reserved	Reserved for future use
	0x22	Reserved	Reserved for future use
	0x23	Reserved	Reserved for future use
	0x24	Reserved	Reserved for future use
	0x25	Reserved	Reserved for future use
	0x26	CALLINGPRES	Calling presentation
	0x27	CALLINGTON	Calling type of number
	0x28	CALLINGTNS	Calling transit network select
	0x29	SAMPLINGRATE	Supported sampling rates
	0x2a	CAUSECODE	Hangup cause
	0x2b	ENCRYPTION	Encryption format
	0x2c	ENCKEY	Reserved for future use

```
|      |               |                                           |
| 0x2d | CODEC PREFS   | CODEC Negotiation                         |
|      |               |                                           |
| 0x2e | RR JITTER     | Received jitter, as in RFC 3550           |
|      |               |                                           |
| 0x2f | RR LOSS       | Received loss, as in RFC 3550             |
|      |               |                                           |
| 0x30 | RR PKTS       | Received frames                           |
|      |               |                                           |
| 0x31 | RR DELAY      | Max playout delay for received frames in  |
|      |               | ms                                        |
|      |               |                                           |
| 0x32 | RR DROPPED    | Dropped frames (presumably by jitter      |
|      |               | buffer)                                   |
|      |               |                                           |
| 0x33 | RR OOO        | Frames received Out of Order              |
|      |               |                                           |
| 0x34 | OSPTOKEN      | OSP Token Block                           |
+------+---------------+-------------------------------------------+
```

                 Table 1: Information Element Definitions

2.7. Authentication Methods

   Registry Name: IAX Authentication Methods

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.6.13 of [RFC5456].

   Valid Range: 0x0001-xFFFF bitmask, values must be a power of two.

   Display format: hex.

   The following table specifies the initial assignments of IAX
   Authentication Methods:

```
              +--------+--------------------------+
              | METHOD | DESCRIPTION              |
              +--------+--------------------------+
              | 0x0001 | Reserved (was Plaintext) |
              |        |                          |
              | 0x0002 | MD5                      |
              |        |                          |
              | 0x0004 | RSA                      |
              +--------+--------------------------+
```

2.8. Dialplan Status Flags

   Registry Name: IAX Dialplan Status Flags

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.6.19 of [RFC5456].

   Valid Range: 0x0001-xFFFF bitmask, values must be a power of two.

   Display format: hex.

   The following table specifies the initial assignments of IAX dialplan
   status flags:

```
              +--------+------------------------------+
              | FLAG   | DESCRIPTION                  |
              +--------+------------------------------+
              | 0x0001 | Exists                       |
              |        |                              |
              | 0x0002 | Can exist                    |
              |        |                              |
              | 0x0004 | Non-existent                 |
              |        |                              |
              | 0x4000 | Retain dialtone (ignorepat)  |
              |        |                              |
              | 0x8000 | More digits may match number |
              +--------+------------------------------+
```

2.9. Calling Presentation

   Registry Name: IAX Calling Presentation

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.6.29 of [RFC5456].

   Valid Range: 0x00-xFF.

   Display format: hex.

The following table specifies the initial assignments of calling
presentation values:

```
+------+--------------------------------------+
| FLAG | PRESENTATION                         |
+------+--------------------------------------+
| 0x00 | Allowed user/number not screened     |
|      |                                      |
| 0x01 | Allowed user/number passed screen    |
|      |                                      |
| 0x02 | Allowed user/number failed screen    |
|      |                                      |
| 0x03 | Allowed network number               |
|      |                                      |
| 0x20 | Prohibited user/number not screened  |
|      |                                      |
| 0x21 | Prohibited user/number passed screen |
|      |                                      |
| 0x22 | Prohibited user/number failed screen |
|      |                                      |
| 0x23 | Prohibited network number            |
|      |                                      |
| 0x43 | Number not available                 |
+------+--------------------------------------+
```

NOTE: The values in this table are derived from Q.931; however,
future values may be from other sources.

2.10. Calling Type of Number (CALLINGTON)

Registry Name: IAX Calling Type of Number

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See Section 8.6.30 of [RFC5456].

Valid Range: 0x00-xFF.

Display format: hex.

The following table specifies the initial assignments of valid
calling type of number values:

```
+-------+-------------------------+
| VALUE | DESCRIPTION             |
+-------+-------------------------+
| 0x00  | Unknown                 |
|       |                         |
| 0x10  | International Number     |
|       |                         |
| 0x20  | National Number         |
|       |                         |
| 0x30  | Network Specific Number |
|       |                         |
| 0x40  | Subscriber Number       |
|       |                         |
| 0x60  | Abbreviated Number      |
|       |                         |
| 0x70  | Reserved for extension  |
+-------+-------------------------+
```

NOTE: The values in this table are derived from Q.931; however,
future values may be from other sources.

[2.11](#). IAX Transit Network Identification

Registry Name: IAX Transit Network Identification Plan

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See [Section 8.6.31 of [RFC5456]](#).

Valid Range: 0000-1111 (four bits).

Display format: binary.

The following table specifies the initial assignments of IAX Calling
Type of Number values:

```
            +------+---------------------------------+
            | BITS | DESCRIPTION                     |
            +------+---------------------------------+
            | 0000 | Unknown                         |
            |      |                                 |
            | 0001 | Caller Identification Code      |
            |      |                                 |
            | 0011 | Data Network Identification Code |
            +------+---------------------------------+
```

NOTE: The values in this table are derived from Q.931; however,
future values may be from other sources.

[2.12](#). **IAX Type of Network**

Registry Name: IAX Type of Network

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See [Section 8.6.30 of [RFC5456]](#).

Valid Range: 000-111 (three bits).

Display format: binary.

The following table specifies the initial assignments of IAX Calling
Type of Network values:

```
            +------+-------------------------------------+
            | BITS | DESCRIPTION                         |
            +------+-------------------------------------+
            | 000  | User Specified                      |
            |      |                                     |
            | 010  | National Network Identification     |
            |      |                                     |
            | 011  | International Network Identification |
            +------+-------------------------------------+
```

NOTE: The values in this table are derived from Q.931, however,
future values may be from other sources.

2.13. Cause Codes

   Registry Name: IAX Cause Codes

   Required Information for New Values: Name, description, and relevant
   security considerations, if any.

   Description: See Section 8.6.30 of [RFC5456].

   Valid Range: 1-255.

   Display format: decimal.

   The following table specifies the initial assignments of IAX Cause
   Code values:

NUMBER	CAUSE
1	Unassigned/unallocated number
2	No route to specified transit network
3	No route to destination
6	Channel unacceptable
7	Call awarded and delivered
16	Normal call clearing
17	User busy
18	No user response
19	No answer
21	Call rejected
22	Number changed
27	Destination out of order
28	Invalid number format/incomplete number
29	Facility rejected
30	Response to status enquiry

	31	Normal, unspecified
	34	No circuit/channel available
	38	Network out of order
	41	Temporary failure
	42	Switch congestion
	43	Access information discarded
	44	Requested channel not available
	45	Preempted (causes.h only)
	47	Resource unavailable, unspecified (Q.931 only)
	50	Facility not subscribed (causes.h only)
	52	Outgoing call barred (causes.h only)
	54	Incoming call barred (causes.h only)
	57	Bearer capability not authorized
	58	Bearer capability not available
	63	Service or option not available (Q.931 only)
	65	Bearer capability not implemented
	66	Channel type not implemented
	69	Facility not implemented
	70	Only restricted digital information bearer capability is available (Q.931 only)
	79	Service or option not available (Q.931 only)
	81	Invalid call reference
	82	Identified channel does not exist (Q.931 only)
	83	A suspended call exists, but this call identity does not (Q.931 only)

```
|        |                                                           |
| 84     | Call identity in use (Q.931 only)                         |
|        |                                                           |
| 85     | No call suspended (Q.931 only)                            |
|        |                                                           |
| 86     | Call has been cleared (Q.931 only)                        |
|        |                                                           |
| 88     | Incompatible destination                                  |
|        |                                                           |
| 91     | Invalid transit network selection (Q.931 only)            |
|        |                                                           |
| 95     | Invalid message, unspecified                              |
|        |                                                           |
| 96     | Mandatory information element missing (Q.931 only)        |
|        |                                                           |
| 97     | Message type nonexistent/not implemented                  |
|        |                                                           |
| 98     | Message not compatible with call state                    |
|        |                                                           |
| 99     | Information element nonexistent                            |
|        |                                                           |
| 100    | Invalid information element contents                       |
|        |                                                           |
| 101    | Message not compatible with call state                    |
|        |                                                           |
| 102    | Recovery on timer expiration                              |
|        |                                                           |
| 103    | Mandatory information element length error (causes.h       |
|        | only)                                                     |
|        |                                                           |
| 111    | Protocol error, unspecified                              |
|        |                                                           |
| 127    | Internetworking, unspecified                             |
+--------+-----------------------------------------------------------+
```

2.14. Encryption Methods

Registry Name: IAX Encryption Methods

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See Section 8.6.34 of [RFC5456].

Valid Range: 0x0001-x8000 bitmask, values must be a power of two.

Display format: hex.

The following table specifies the initial assignments of IAX
encryption methods:

```
+--------+-------------+
| METHOD | DESCRIPTION |
+--------+-------------+
| 0x0001 | AES-128     |
+--------+-------------+
```

[2.15](#). Media Formats

Registry Name: IAX Media Formats

Required Information for New Values: Name, description, and relevant
security considerations, if any.

Description: See [Section 8.7 of [RFC5456]](#).

Valid Range: 0x0001-x8000 bitmask, values must be a power of two.

Display format: hex.

The following table specifies the initial assignments of IAX Media
Format Values

```
+------------+-----------------------------+
| SUBCLASS   | DESCRIPTION                 |
+------------+-----------------------------+
| 0x00000001 | G.723.1                     |
|            |                             |
| 0x00000002 | GSM Full Rate               |
|            |                             |
| 0x00000004 | G.711 mu-law                |
|            |                             |
| 0x00000008 | G.711 a-law                 |
|            |                             |
| 0x00000010 | G.726                       |
|            |                             |
| 0x00000020 | IMA ADPCM                   |
|            |                             |
| 0x00000040 | 16-bit linear little-endian |
|            |                             |
| 0x00000080 | LPC10                       |
|            |                             |
| 0x00000100 | G.729                       |
|            |                             |
| 0x00000200 | Speex                       |
|            |                             |
```

```
            | 0x00000400 | ILBC                       |
            |            |                            |
            | 0x00000800 | G.726 AAL2                 |
            |            |                            |
            | 0x00001000 | G.722                      |
            |            |                            |
            | 0x00002000 | AMR                        |
            |            |                            |
            | 0x00010000 | JPEG                       |
            |            |                            |
            | 0x00020000 | PNG                        |
            |            |                            |
            | 0x00040000 | H.261                      |
            |            |                            |
            | 0x00080000 | H.263                      |
            |            |                            |
            | 0x00100000 | H.263p                     |
            |            |                            |
            | 0x00200000 | H.264                      |
            +------------+----------------------------+
```

[3](#). Security Considerations

   This document defines IAX registries and as such does not raise
   security issues beyond those discussed in [[RFC5456](#)].

[4](#). Acknowledgments

   The author would like to thank Marc Blanchet and Michelle Cotton for
   their support and suggestions.

[5](#). Normative References

   [RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an
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              May 2008.

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              5456](#), February 2010.

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