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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.

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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:

++	Description	-+
0x01 Trunk Meta 	Indicates that frame is a trunk meta 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:

		L	L
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 Subclass	Varies with subclass
0x05	 Null 	Undefined	Undefined
0x06	 IAX Control 	See IAX Protocol Messages	Information Elements
0x07	Text	Always 0	Raw Text
0x08	 Image 	Image Compression Format	 Raw image
0x09	 HTML 	See HTML Frame Types	 Message Specific
0x0A 	 Comfort Noise	Level in -dBov of comfort noise	 None

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.

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

•	+ Name	++ Description ++
0x01		The call has been hungup at the remote end
0x02	 Reserved	Reserved for future use
0x03	 Ringing	
0x04	 Answer	
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 +	1	 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
į	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 ready 0x19 TXREADY Transfer ready 0x1a TXREL Transfer reject 0x1b TXREJ Transfer reject 0x1c QUELCH Halt audio/video [media] transmission 0x1d UNQUELCH Resume audio/video [media] transmission 0x1e POKE Poke request 0x20 MWI Message waiting indication 0x21 UNSUPPORT Unsupported message 0x22 TRANSFER Remote transfer request 0x24 Reserved Reserved for future use 0x25 Reserved Reserved for future use	1	1	
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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	 0x19	TXREADY	Transfer ready
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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	0x1d	UNQUELCH	Resume audio/video [media] transmission
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	0x1e	POKE	Poke request
0x21 UNSUPPORT Unsupported message	0x1f	Reserved	Reserved for future use
0x22 TRANSFER Remote transfer request	0x20	MWI	Message waiting indication
0x23 Reserved Reserved for future use	0x21	UNSUPPORT	Unsupported message
0x24 Reserved Reserved for future use	0x22	TRANSFER	Remote transfer request
i i i i	0x23	Reserved	Reserved for future use
	0x24	Reserved	Reserved for future use
++	'	'	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:

+		++ DESCRIPTION
0x0	1 CALLED NUMBER	Number/extension being called
 0x0	2 CALLING NUMBER	 Calling number
 0x0	3 CALLING ANI	
0x0	04 CALLING NAME	Name of caller
0x0	5 CALLED CONTEXT	Context for number
0x0	06 USERNAME	Username (peer or user) for authentication
0x0	7 PASSWORD	Password for authentication
0x0	08 CAPABILITY	Actual CODEC capability
0x0	9 FORMAT	Desired CODEC format
0x0	a LANGUAGE	Desired language
0x0	b VERSION	Protocol version
0x0	c ADSICPE	CPE ADSI capability
0x0	d DNID	Originally dialed DNID
0x0	e AUTHMETHODS	Authentication method(s)
0x0	f CHALLENGE	
0x1	.0 MD5 RESULT	 MD5 challenge result
 0x1	.1 RSA RESULT	RSA challenge result
0x1	.2 APPARENT ADDR	Apparent address of peer
 0x1	.3 REFRESH	 When to refresh registration
0x1	.4 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 000	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:

+	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:

+	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.

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.

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:

+	++ 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:

+	++ 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

ı	I
 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)

1	
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	
97	Message type nonexistent/not implemented
98	
99	Information element nonexistent
100	Invalid information element contents
101	
102	Recovery on timer expiration
103	Mandatory information element length error (causes.h only)
111	Protocol error, unspecified
1 127	 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.

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
	0x0000002	GSM Full Rate
	0x0000004	G.711 mu-law
	0x00000008	G.711 a-law
	0x0000010	 G.726
	0x00000020	IMA ADPCM
	0x00000040	 16-bit linear little-endian
	0x00000080	LPC10
	0x00000100	G.729
	0x00000200	Speex
- 1		1

	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

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