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Abstract

This document defines the instructions to the IANA and the initial state of the IANA assigned numbers for the SSH protocol. It is intended only for the initialization of the IANA registries referenced in the documents.

Table of Contents

$\underline{1}$. Contributors		<u>4</u>
<u>2</u> . Introduction		<u>4</u>
3. Conventions Used in This Document		<u>4</u>
3.1 RFC2119 Keywords		<u>4</u>
3.2 RFC2434 Keywords		<u>4</u>
3.3 Protocol Fields and Values		<u>5</u>
4. IANA Considerations		6
4.1 Message Numbers		<u>6</u>
4.1.1 Conventions		
4.1.2 Initial Assignments		
4.1.3 Future Assignments		
4.2 Disconnection Messages Reason Codes and Descriptions		<u>+</u> 8
4.2.1 Conventions		<u>8</u>
4.2.2 Initial Assignments		
4.2.3 Future Assignments		
4.3 Channel Connection Failure Reason Codes and Descriptions		9
<u>4.3.1</u> Conventions		9
4.3.2 Initial Assignments		9
4.3.3 Future Assignments		9
$\underline{4.3.4}$ Notes about the PRIVATE USE Range		
<u>4.4</u> Extended Channel Data Transfer data_type_code and Data .		<u>10</u>
$\underline{4.4.1}$ Conventions		<u>10</u>
4.4.2 Initial Assignments		<u>10</u>
4.4.3 Future Assignments		<u>11</u>
4.5 Pseudo-Terminal Encoded Terminal Modes		<u>11</u>
<u>4.5.1</u> Conventions		<u>11</u>
4.5.2 Initial Assignments		<u>11</u>
4.5.3 Future Assignments		<u>13</u>
<u>4.6</u> Names		13
4.6.1 Conventions for Names		13
4.6.2 Future Assignments of Names		
4.7 Service Names		
4.8 Authentication Method Names		
4.9 Connection Protocol Assigned Names		14
4.9.1 Connection Protocol Channel Types	•	<u>15</u>
4.9.2 Connection Protocol Global Request Names		<u>15</u>
4.9.3 Connection Protocol Channel Request Names		15 15
•		
		<u>16</u>
4.9.5 Connection Protocol Subsystem Names		<u>16</u>
4.10 Key Exchange Method Names		<u>16</u>
4.11 Assigned Algorithm Names		<u>17</u>
4.11.1 Encryption Algorithm Names		<u>17</u>
4.11.2 MAC Algorithm Names		<u>17</u>
4.11.3 Public Key Algorithm Names		<u>17</u>
4.11.4 Compression Algorithm Names		<u>18</u>
<u>5</u> . Security Considerations		<u>18</u>

Internet-Draft	SSH Protoco	1 /	Ass.	igr	ned	Nι	ımbe	ers	6			Fe	ebr	ua	ary	/ 2	005
$\underline{6}$. References .																	<u>18</u>
<u>6.1</u> Normative R	eferences .																<u>18</u>
<u>6.2</u> Informative	References																<u>19</u>
Author's Addr	ess																<u>19</u>
Intellectual	Property and	Co	ру	ri	ght	St	ate	eme	ent	S							<u>20</u>

1. Contributors

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Comments on this internet draft should be sent to the IETF SECSH working group, details at:

http://ietf.org/html.charters/secsh-charter.html Note: This paragraph will be removed before this document progresses to become an RFC.

2. Introduction

This document does not define any new protocols. It is intended only to create the initial state of the IANA databases for the SSH protocol and also contains instructions for future assignments. Except for one HISTORIC algorithm generally regarded as obsolete, this document does not define any new protocols or any number ranges not already defined in: [SSH-ARCH], [SSH-TRANS], [SSH-USERAUTH], [SSH-CONNECT].

3. Conventions Used in This Document

3.1 RFC2119 Keywords

All documents related to the SSH protocols shall use the keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" to describe requirements. These keywords are to be interpreted as described in [RFC2119].

3.2 RFC2434 Keywords

The keywords "PRIVATE USE", "HIERARCHICAL ALLOCATION", "FIRST COME FIRST SERVED", "EXPERT REVIEW", "SPECIFICATION REQUIRED", "IESG APPROVAL", "IETF CONSENSUS", and "STANDARDS ACTION" that appear in this document when used to describe namespace allocation are to be interpreted as described in [RFC2434]. These designations are repeated in this document for clarity.

PRIVATE USE - For private or local use only, with the type and purpose defined by the local site. No attempt is made to prevent multiple sites from using the same value in different (and incompatible) ways. There is no need for IANA to review such assignments and assignments are not generally useful for interoperability.

HIERARCHICAL ALLOCATION - Delegated managers can assign values provided they have been given control over that part of the name space. IANA controls the higher levels of the namespace according to one of the other policies.

FIRST COME FIRST SERVED - Anyone can obtain an assigned number, so long as they provide a point of contact and a brief description of what the value would be used for. For numbers, the exact value is generally assigned by the IANA; with names, specific names are usually requested.

EXPERT REVIEW - approval by a Designated Expert is required.

SPECIFICATION REQUIRED - Values and their meaning must be documented in an RFC or other permanent and readily available reference, in sufficient detail so that interoperability between independent implementations is possible.

IESG APPROVAL - New assignments must be approved by the IESG, but there is no requirement that the request be documented in an RFC (though the IESG has discretion to request documents or other supporting materials on a case-by-case basis).

IETF CONSENSUS - New values are assigned through the IETF consensus process. Specifically, new assignments are made via RFCs approved by the IESG. Typically, the IESG will seek input on prospective assignments from appropriate persons (e.g., a relevant Working Group if one exists).

STANDARDS ACTION - Values are assigned only for Standards Track RFCs approved by the IESG.

3.3 Protocol Fields and Values

Protocol fields and possible values to fill them are defined in this set of documents. Protocol fields will be defined in the message definitions. As an example, SSH_MSG_CHANNEL_DATA is defined as follows.

byte SSH_MSG_CHANNEL_DATA uint32 recipient channel

string data

Throughout these documents, when the fields are referenced, they will appear within single quotes. When values to fill those fields are referenced, they will appear within double quotes. Using the above example, possible values for 'data' are "foo" and "bar".

4. IANA Considerations

This entire document is the IANA considerations for the SSH protocol as is defined in [SSH-ARCH], [SSH-TRANS], [SSH-USERAUTH], [SSH-CONNECT]. This section contains conventions used in naming the namespaces, the initial state of the registry, and instructions for future assignments.

4.1 Message Numbers

The Message Number is a byte value, which describes the payload of a packet.

4.1.1 Conventions

Protocol packets have message numbers in the range 1 to 255. These numbers are allocated as follows:

Transport layer protocol:

```
1 to 19
           Transport layer generic (e.g., disconnect, ignore,
           debug, etc.)
```

20 to 29 Algorithm negotiation

30 to 49 Key exchange method specific (numbers can be reused for different authentication methods)

User authentication protocol:

```
50 to 59
         User authentication generic
```

60 to 79 User authentication method specific (numbers can be reused for different authentication methods)

Connection protocol:

```
Connection protocol generic
80 to 89
90 to 127 Channel related messages
```

Reserved for client protocols:

128 to 191 Reserved

Local extensions:

192 to 255 Local extensions

4.1.2 Initial Assignments

The following table identifies the initial assignments of the Message ID values.

Message ID	Value	Reference
SSH_MSG_DISCONNECT	1	[SSH-TRANS]
SSH_MSG_IGNORE	2	[SSH-TRANS]
SSH_MSG_UNIMPLEMENTED	3	[SSH-TRANS]
SSH_MSG_DEBUG	4	[SSH-TRANS]
SSH_MSG_SERVICE_REQUEST	5	[SSH-TRANS]
SSH_MSG_SERVICE_ACCEPT	6	[SSH-TRANS]
SSH_MSG_KEXINIT	20	[SSH-TRANS]
SSH_MSG_NEWKEYS	21	[SSH-TRANS]
SSH_MSG_USERAUTH_REQUEST	50	[SSH-USERAUTH]
SSH_MSG_USERAUTH_FAILURE	51	[SSH-USERAUTH]
SSH_MSG_USERAUTH_SUCCESS	52	[SSH-USERAUTH]
SSH_MSG_USERAUTH_BANNER	53	[SSH-USERAUTH]
SSH_MSG_GLOBAL_REQUEST	80	[SSH-CONNECT]
SSH_MSG_REQUEST_SUCCESS	81	[SSH-CONNECT]
SSH_MSG_REQUEST_FAILURE	82	[SSH-CONNECT]
SSH_MSG_CHANNEL_OPEN	90	[SSH-CONNECT]
SSH_MSG_CHANNEL_OPEN_CONFIRMATION	91	[SSH-CONNECT]
SSH_MSG_CHANNEL_OPEN_FAILURE	92	[SSH-CONNECT]
SSH_MSG_CHANNEL_WINDOW_ADJUST	93	[SSH-CONNECT]
SSH_MSG_CHANNEL_DATA	94	[SSH-CONNECT]
SSH_MSG_CHANNEL_EXTENDED_DATA	95	[SSH-CONNECT]
SSH_MSG_CHANNEL_EOF	96	[SSH-CONNECT]
SSH_MSG_CHANNEL_CLOSE	97	[SSH-CONNECT]
SSH_MSG_CHANNEL_REQUEST	98	[SSH-CONNECT]
SSH_MSG_CHANNEL_SUCCESS	99	[SSH-CONNECT]
SSH_MSG_CHANNEL_FAILURE	100	[SSH-CONNECT]

4.1.3 Future Assignments

Requests for assignments of new message numbers in the range of 1 to 29, 50 to 59, and 80 to 127 MUST be done through the STANDARDS ACTION method as described in [RFC2434].

The meanings of message numbers in the range of 30 to 49 are specific to the key exchange method in use, and their meaning will be specified by the definition of that method.

The meanings of message numbers in the range of 60 to 79 are specific to the user authentication method in use, and their meaning will be specified by the definition of that method.

Requests for assignments of new message numbers in the range of 128 to 191 MUST be done through the IETF CONSENSUS method as described in [RFC2434].

The IANA will not control the message numbers range of 192 through 255. This range will be left for PRIVATE USE.

4.2 Disconnection Messages Reason Codes and Descriptions

The Disconnection Message 'reason code' is a uint32 value. The associated Disconnection Message 'description' is a human-readable message which describes the disconnect reason.

4.2.1 Conventions

Protocol packets containing the SSH_MSG_DISCONNECT message MUST have Disconnection Message 'reason code' values in the range of 0x00000001 to OxFFFFFFF. These are described in [SSH-TRANS].

4.2.2 Initial Assignments

The following table identifies the initial assignments of the SSH_MSG_DISCONNECT 'description' and 'reason code' values.

Symbolic Name	reason	code
SSH_DISCONNECT_HOST_NOT_ALLOWED_TO_CONNECT	1	
SSH_DISCONNECT_PROTOCOL_ERROR	2	
SSH_DISCONNECT_KEY_EXCHANGE_FAILED	3	
SSH_DISCONNECT_RESERVED	4	
SSH_DISCONNECT_MAC_ERROR	5	
SSH_DISCONNECT_COMPRESSION_ERROR	6	
SSH_DISCONNECT_SERVICE_NOT_AVAILABLE	7	
SSH_DISCONNECT_PROTOCOL_VERSION_NOT_SUPPORTED	8	
SSH_DISCONNECT_HOST_KEY_NOT_VERIFIABLE	9	
SSH_DISCONNECT_CONNECTION_LOST	10	
SSH_DISCONNECT_BY_APPLICATION	11	
SSH_DISCONNECT_TOO_MANY_CONNECTIONS	12	
SSH_DISCONNECT_AUTH_CANCELLED_BY_USER	13	
SSH_DISCONNECT_NO_MORE_AUTH_METHODS_AVAILABLE	14	
SSH_DISCONNECT_ILLEGAL_USER_NAME	15	

4.2.3 Future Assignments

Disconnection Message 'reason code' values MUST be assigned sequentially. Requests for assignments of new Disconnection Message 'reason code' values, and their associated Disconnection Message 'description' text, in the range of 0x000000010 through 0xFDFFFFFF MUST be done through the IETF CONSENSUS method as described in [RFC2434]. The IANA will not assign Disconnection Message 'reason code' values in the range of 0xFE000000 through 0xFFFFFFF.

Disconnection Message 'reason code' values in that range are left for PRIVATE USE as described in [RFC2434].

4.3 Channel Connection Failure Reason Codes and Descriptions

The Channel Connection Failure 'reason code' is a uint32 value. The associated Channel Connection Failure 'description' text is a human-readable message which describes the channel connection failure reason. This is described in [SSH-CONNECT].

4.3.1 Conventions

Protocol packets containing the SSH_MSG_CHANNEL_OPEN_FAILURE message MUST have Channel Connection Failure 'reason code' values in the range of 0x00000001 to 0xFFFFFFFF.

4.3.2 Initial Assignments

The initial assignments for the 'reason code' values and 'description' values are given in the table below. Note that the values for the 'reason code' are given in decimal format for readability but that they are actually uint32 values.

Symbolic Name	reason code
SSH_OPEN_ADMINISTRATIVELY_PROHIBITED	1
SSH_OPEN_CONNECT_FAILED	2
SSH_OPEN_UNKNOWN_CHANNEL_TYPE	3
SSH_OPEN_RESOURCE_SHORTAGE	4

4.3.3 Future Assignments

Channel Connection Failure 'reason code' values MUST be assigned sequentially. Requests for assignments of new Channel Connection Failure 'reason code' values, and their associated Channel Connection Failure 'description string', in the range of 0x00000005 to 0xFDFFFFFF MUST be done through the IETF CONSENSUS method as described in [RFC2434]. The IANA will not assign Channel Connection

Failure 'reason code' values in the range of 0xFE000000 to OXFFFFFFF. Channel Connection Failure 'reason code' values in that range are left for PRIVATE USE as described in [RFC2434].

4.3.4 Notes about the PRIVATE USE Range

While it is understood that the IANA will have no control over the range of 0xFE000000 to 0xFFFFFFF, this range will be split in two parts and administered by the following conventions.

- o The range of 0xFE000000 to 0xFEFFFFFF is to be used in conjunction with locally assigned channels. For example: if a channel is proposed with a 'channel type' of "example_session@example.com" but fails, then the server will respond with either a 'reason code' assigned by the IANA (as listed above and in the range of 0x00000001 to 0xFDFFFFFF), or with a locally assigned value in the range of 0xFE000000 to 0xFEFFFFF. Naturally, if the server does not understand the proposed 'channel type', even if it is a locally defined 'channel type', then the 'reason code' MUST be 0x00000003 as described above. If the server does understand the 'channel type' but the channel still fails to open, then the server SHOULD respond with a locally assigned 'reason code' value consistent with the proposed, local 'channel type'. It is assumed that practitioners will first attempt to use the IANA assigned 'reason code' values and then document their locally assigned 'reason code' values.
- o There are no restrictions or suggestions for the range starting with OxFF. No interoperability is expected for anything used in this range. Essentially it is for experimentation.

4.4 Extended Channel Data Transfer data_type_code and Data

The Extended Channel Data Transfer 'data_type_code' is an uint23 value. The associated Extended Channel Data Transfer 'data' is a human-readable message which describes the type of data allowed to be transferred in the channel.

4.4.1 Conventions

Protocol packets containing the SSH_MSG_CHANNEL_EXTENDED_DATA message MUST have Extended Channel Data Transfer 'data_type_code' values in the range of 0x00000001 to 0xFFFFFFFF. This is described in [SSH-CONNECT].

4.4.2 Initial Assignments

The initial assignments for the 'data_type_code' values and 'data' values are given in the table below. Note that the value for the 'data_type_code' is given in decimal format for readability but that the values are actually uint32 values.

Symbolic name	data_type_code
SSH EXTENDED DATA STDERR	1

4.4.3 Future Assignments

Extended Channel Data Transfer 'data_type_code' values MUST be assigned sequentially. Requests for assignments of new Extended Channel Data Transfer 'data_type_code' values, and their associated Extended Channel Data Transfer 'data' strings, in the range of 0x000000002 to 0xFDFFFFFF MUST be done through the IETF CONSENSUS method as described in [RFC2434]. The IANA will not assign Extended Channel Data Transfer 'data_type_code' values in the range of 0xFE000000 to 0xFFFFFFFF. Extended Channel Data Transfer 'data_type_code' values in that range are left for PRIVATE USE as described in [RFC2434].

4.5 Pseudo-Terminal Encoded Terminal Modes

SSH_MSG_CHANNEL_REQUEST messages with a "pty-req" string MUST contain "encoded terminal modes". These "encoded terminal modes" are opcode-argument pairs consisting of an opcode and an argument.

4.5.1 Conventions

Protocol packets containing the SSH_MSG_CHANNEL_REQUEST message with a "pty-req" string MUST contain "encoded terminal modes" with an opcode of 1 byte. The opcode values are in the range of 1 to 255. Opcodes 1 to 159 have a single uint32 argument. Opcodes 160 to 255 are not yet defined.

4.5.2 Initial Assignments

The following table identifies the initial assignments of the opcode and argument values which make up the "encoded terminal modes" values.

opcode a	rgument desc	cription
0 TTY_	_OP_END Indicates	s end of options.
1 VIN	TR Interrupt	t character; 255 if none. Similarly
	for the	other characters. Not all of these
	characte	ers are supported on all systems.
2 VQU	IT The quit	character (sends SIGQUIT signal on
	POSIX sy	/stems).

2	VEDACE	Frace the character to left of the cureer
3 4	VERASE VKILL	Erase the character to left of the cursor. Kill the current input line.
5	VEOF	End-of-file character (sends EOF from the
5	VLOF	terminal).
6	VEOL	End-of-line character in addition to
		carriage return and/or linefeed.
7	VE0L2	Additional end-of-line character.
8	VSTART	Continues paused output (normally
		control-Q).
9	VST0P	Pauses output (normally control-S).
10	VSUSP	Suspends the current program.
11	VDSUSP	Another suspend character.
12	VREPRINT	Reprints the current input line.
13	VWERASE	Erases a word left of cursor.
14	VLNEXT	Enter the next character typed literally,
		even if it is a special character
15	VFLUSH	Character to flush output.
16	VSWTCH	Switch to a different shell layer.
17	VSTATUS	Prints system status line (load, command,
		pid, etc).
18	VDISCARD	Toggles the flushing of terminal output.
30	IGNPAR	The ignore parity flag. The parameter
		SHOULD be 0 if this flag is FALSE,
		and 1 if it is TRUE.
31	PARMRK	Mark parity and framing errors.
32	INPCK	Enable checking of parity errors.
33	ISTRIP	Strip 8th bit off characters.
34	INLCR	Map NL into CR on input.
35	IGNCR	Ignore CR on input.
36	ICRNL	Map CR to NL on input.
37	IUCLC	Translate uppercase characters to
		lowercase.
38	IXON	Enable output flow control.
39	IXANY	Any char will restart after stop.
40	IX0FF	Enable input flow control.
41	IMAXBEL	Ring bell on input queue full.
50	ISIG	Enable signals INTR, QUIT, [D]SUSP.
51	ICANON	Canonicalize input lines.
52	XCASE	Enable input and output of uppercase
		characters by preceding their lowercase
		equivalents with "\".
53	ECH0	Enable echoing.
54	ECH0E	Visually erase chars.
55	ECHOK	Kill character discards current line.
56	ECHONL	Echo NL even if ECHO is off.
57	NOFLSH	Don't flush after interrupt.
58	T0ST0P	Stop background jobs from output.
59	IEXTEN	Enable extensions.

60	ECH0CTL	Echo control characters as ^(Char).
61	ECH0KE	Visual erase for line kill.
62	PENDIN	Retype pending input.
70	0P0ST	Enable output processing.
71	OLCUC	Convert lowercase to uppercase.
72	ONLCR	Map NL to CR-NL.
73	OCRNL	Translate carriage return to newline
74	ONOCR	<pre>(output). Translate newline to carriage return-newline (output).</pre>
75	ONLRET	Newline performs a carriage return (output).
90	CS7	7 bit mode.
91	CS8	8 bit mode.
92	PARENB	Parity enable.
93	PARODD	Odd parity, else even.
128	TTY_OP_ISPEED	Specifies the input baud rate in bits per second.
129	TTY_OP_OSPEED	Specifies the output baud rate in bits per second.

4.5.3 Future Assignments

Requests for assignments of new opcodes and their associated arguments MUST be done through the IETF CONSENSUS method as described in [RFC2434].

4.6 Names

In the following sections, the values for the name spaces are textual. The conventions and instructions to the IANA for future assignments are given in this section. The initial assignments are given in their respective sections.

4.6.1 Conventions for Names

All names registered by the IANA in the following sections MUST be printable US-ASCII strings, and MUST NOT contain the characters at-sign ("@"), comma (","), or whitespace or control characters (ASCII codes 32 or less). Names are case-sensitive, and MUST NOT be longer than 64 characters.

A provision is made here for locally extensible names. The IANA will not register, and will not control names with the at-sign in them. Names with the at-sign in them will have the format of "name@domainname" (without the double quotes) where the part

preceeding the at-sign is the name. The format of the part preceding the at-sign is not specified, however these names MUST be printable US-ASCII strings, and MUST NOT contain the comma character (","), or whitespace, or control characters (ASCII codes 32 or less). The part following the at-sign MUST be a valid, fully qualified internet domain name [RFC1034] controlled by the person or organization defining the name. Names are case-sensitive, and MUST NOT be longer than 64 characters. It is up to each domain how it manages its local namespace. It has been noted that these names resemble STD 11 [RFC0822] email addresses. This is purely coincidental and actually has nothing to do with STD 11 [RFC0822]. An example of a locally defined name is "ourcipher-cbc@example.com" (without the double quotes).

4.6.2 Future Assignments of Names

Requests for assignments of new Names MUST be done through the IETF CONSENSUS method as described in [RFC2434].

4.7 Service Names

The Service Name is used to describe a protocol layer. The following table lists the initial assignments of the Service Names.

Service Name	Reference			
ssh-userauth	[SSH-USERAUTH]			
ssh-connection	[SSH-CONNECT]			

4.8 Authentication Method Names

The Authentication Method Name is used to describe an authentication method for the "ssh-userauth" service [SSH-USERAUTH]. The following table identifies the initial assignments of the Authentication Method Names.

Method Name	Reference
publickey	[SSH-USERAUTH, <u>Section 7</u>]
password	[SSH-USERAUTH, <u>Section 8</u>]
hostbased	[SSH-USERAUTH, <u>Section 9</u>]
none	[SSH-USERAUTH, <u>Section 5.2</u>]

4.9 Connection Protocol Assigned Names

The following table lists the initial assignments of the Connection

Protocol Type and Request names.

4.9.1 Connection Protocol Channel Types

The following table lists the initial assignments of the Connection Protocol Channel Types.

Channel type	Reference	
session	[SSH-CONNECT,	Section 6.1]
x11	[SSH-CONNECT,	Section 6.3.2]
forwarded-tcpip	[SSH-CONNECT,	Section 7.2]
direct-tcpip	[SSH-CONNECT,	Section 7.2]

4.9.2 Connection Protocol Global Request Names

The following table lists the initial assignments of the Connection Protocol Global Request Names.

Request type	Reference
tcpip-forward	[SSH-CONNECT, <u>Section 7.1</u>]
cancel-tcpip-forward	[SSH-CONNECT, <u>Section 7.1</u>]

4.9.3 Connection Protocol Channel Request Names

The following table lists the initial assignments of the Connection Protocol Channel Request Names.

Request type	Reference	
pty-req	[SSH-CONNECT,	Section 6.2]
x11-req	[SSH-CONNECT,	Section 6.3.1
env	[SSH-CONNECT,	Section 6.4]
shell	[SSH-CONNECT,	Section 6.5
exec	[SSH-CONNECT,	Section 6.5
subsystem	[SSH-CONNECT,	Section 6.5]
window-change	[SSH-CONNECT,	Section 6.7
xon-xoff	[SSH-CONNECT,	Section 6.8]
signal	[SSH-CONNECT,	Section 6.9]
exit-status	[SSH-CONNECT,	Section 6.10]
exit-signal	[SSH-CONNECT,	Section 6.10]

4.9.4 Initial Assignment of Signal Names

The following table lists the initial assignments of the Signal Names.

Signal	Reference
ABRT	[SSH-CONNECT]
ALRM	[SSH-CONNECT]
FPE	[SSH-CONNECT]
HUP	[SSH-CONNECT]
ILL	[SSH-CONNECT]
INT	[SSH-CONNECT]
KILL	[SSH-CONNECT]
PIPE	[SSH-CONNECT]
QUIT	[SSH-CONNECT]
SEGV	[SSH-CONNECT]
TERM	[SSH-CONNECT]
USR1	[SSH-CONNECT]
USR2	[SSH-CONNECT]

4.9.5 Connection Protocol Subsystem Names

There are no initial assignments of Connection Protocol Subsystem Names.

4.10 Key Exchange Method Names

The name "diffie-hellman-group1-sha1" is used for a key exchange method using an Oakley group as defined in [RFC2409]. SSH maintains its own group identifier space which is logically distinct from Oakley [RFC2412] and IKE; however, for one additional group, the Working Group adopted the number assigned by [RFC3526], using diffie-hellman-group14-sha1 for the name of the second defined group. Implementations should treat these names as opaque identifiers and should not assume any relationship between the groups used by SSH and the groups defined for IKE.

The following table identifies the initial assignments of the key-exchange methods.

Method name	Reference
diffie-hellman-group1-sha1	[SSH-TRANS, <u>Section 8.1</u>]
diffie-hellman-group14-sha1	[SSH-TRANS, <u>Section 8.2</u>]

4.11 Assigned Algorithm Names

4.11.1 Encryption Algorithm Names

The following table identifies the initial assignment of the Encryption Algorithm Names.

Encryption Algorithm Name	Reference
3des-cbc	[SSH-TRANS, <u>Section 6.3</u>]
blowfish-cbc	[SSH-TRANS, <u>Section 6.3</u>]
twofish256-cbc	[SSH-TRANS, <u>Section 6.3</u>]
twofish-cbc	[SSH-TRANS, <u>Section 6.3</u>]
twofish192-cbc	[SSH-TRANS, <u>Section 6.3</u>]
twofish128-cbc	[SSH-TRANS, <u>Section 6.3</u>]
aes256-cbc	[SSH-TRANS, <u>Section 6.3</u>]
aes192-cbc	[SSH-TRANS, <u>Section 6.3</u>]
aes128-cbc	[SSH-TRANS, <u>Section 6.3</u>]
serpent256-cbc	[SSH-TRANS, <u>Section 6.3</u>]
serpent192-cbc	[SSH-TRANS, <u>Section 6.3</u>]
serpent128-cbc	[SSH-TRANS, <u>Section 6.3</u>]
arcfour	[SSH-TRANS, <u>Section 6.3</u>]
idea-cbc	[SSH-TRANS, <u>Section 6.3</u>]
cast128-cbc	[SSH-TRANS, <u>Section 6.3</u>]
none	[SSH-TRANS, <u>Section 6.3</u>]
des-cbc	[FIPS-46-3] HISTORIC; See page 4
	of [FIPS 46-3]

4.11.2 MAC Algorithm Names

The following table identifies the initial assignments of the MAC Algorithm Names.

MAC Algorithm Name	Reference
hmac-sha1	[SSH-TRANS, <u>Section 6.4</u>]
hmac-sha1-96	[SSH-TRANS, <u>Section 6.4</u>]
hmac-md5	[SSH-TRANS, <u>Section 6.4</u>]
hmac-md5-96	[SSH-TRANS, <u>Section 6.4</u>]
none	[SSH-TRANS, <u>Section 6.4</u>]

4.11.3 Public Key Algorithm Names

The following table identifies the initial assignments of the Public Key Algorithm names.

Public Key Algorithm Name	Reference
ssh-dss	[SSH-TRANS, <u>Section 6.6</u>]
ssh-rsa	[SSH-TRANS, <u>Section 6.6</u>]
spki-sign-rsa	[SSH-TRANS, <u>Section 6.6</u>]
spki-sign-dss	[SSH-TRANS, <u>Section 6.6</u>]
pgp-sign-rsa	[SSH-TRANS, <u>Section 6.6</u>]
pgp-sign-dss	[SSH-TRANS, <u>Section 6.6</u>]

4.11.4 Compression Algorithm Names

The following table identifies the initial assignments of the Compression Algorithm names.

Compression Algorithm Name	Reference
none	[SSH-TRANS, <u>Section 6.2</u>]
zlib	[SSH-TRANS, <u>Section 6.2</u>]

5. Security Considerations

This protocol provides a secure encrypted channel over an insecure network.

Full security considerations for this protocol are provided in [SSH-ARCH].

6. References

6.1 Normative References

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           I-D <u>draft-ietf-secsh-architecture-21.txt</u>, February 2005.
[SSH-TRANS]
           Lonvick, C., "SSH Transport Layer Protocol",
           I-D <u>draft-ietf-secsh-transport-23.txt</u>, February 2005.
[SSH-USERAUTH]
           Lonvick, C., "SSH Authentication Protocol",
           I-D draft-ietf-secsh-userauth-26.txt, February 2005.
[SSH-CONNECT]
           Lonvick, C., "SSH Connection Protocol",
           I-D <u>draft-ietf-secsh-connect-24.txt</u>, February 2005.
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