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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 11308637			
APPLICATION AS FILED – PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))						300			
SEARCH FEE (37 CFR 1.16(k), (i), or (m))						500			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))						200			
TOTAL CLAIMS (37 CFR 1.16(i))	9	minus 20 = *	X	=	X	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *	X	=	X	=			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1000		
APPLICATION AS AMENDED – PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus **	X	=	X	=		
	Independent (37 CFR 1.16(h))	*	Minus ***	X	=	X	=		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE		TOTAL ADD'L FEE			
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus **	X	=	X	=		
	Independent (37 CFR 1.16(h))	*	Minus ***	X	=	X	=		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE		TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number

11308637

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

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OR

OTHER THAN
SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
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MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

RATE (\$)	FEE (\$)
X\$ 25	
X\$100	
N/A	
TOTAL	

OR

RATE (\$)	FEE (\$)
X\$50	
X\$200	
N/A	
TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

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TOTAL ADD'T FEE	

OR

RATE (\$)	ADDI- TIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL ADD'T FEE	

AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
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	Independent (37 CFR 1.16(h))	*	Minus	***	=
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RATE (\$)	ADDI- TIONAL FEE (\$)
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X =	
N/A	
TOTAL ADD'T FEE	

OR

RATE (\$)	ADDI- TIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL ADD'T FEE	

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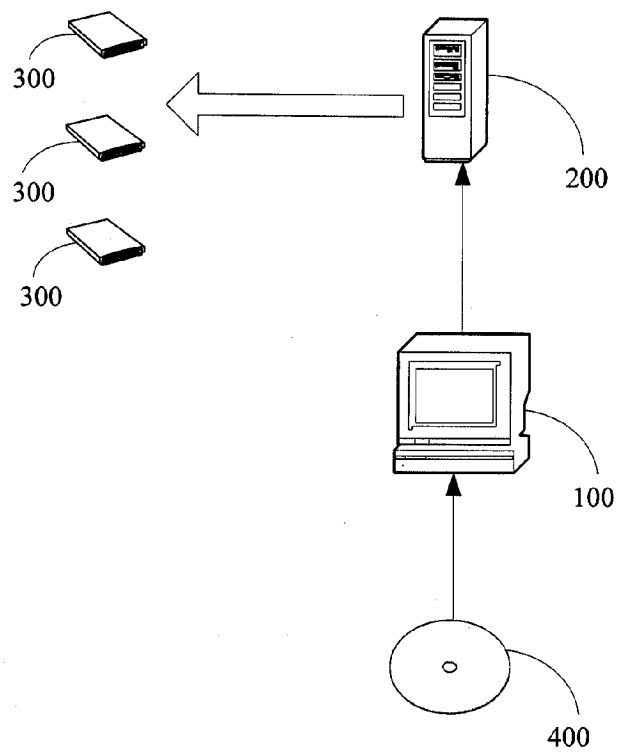


Fig. 1

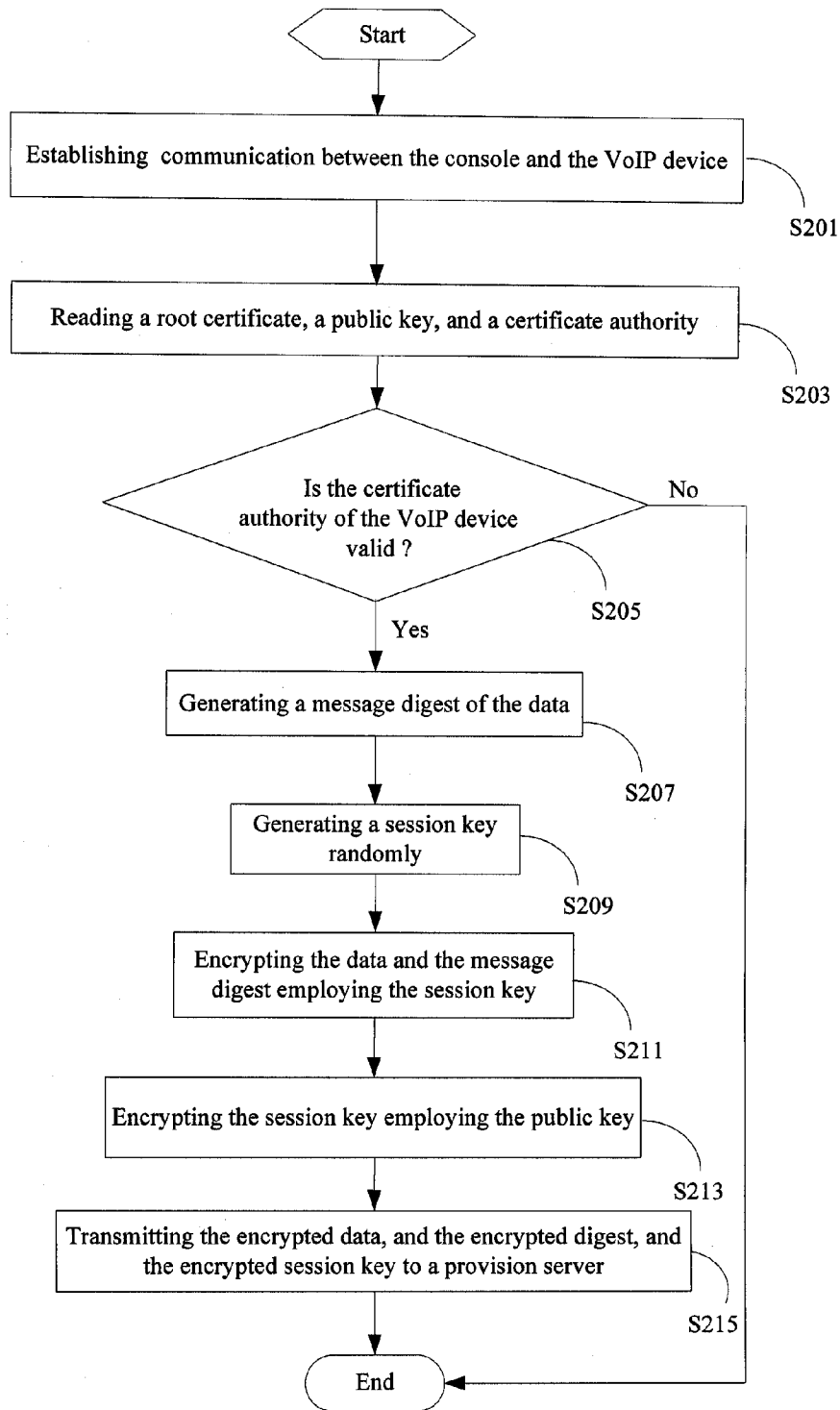


Fig.2

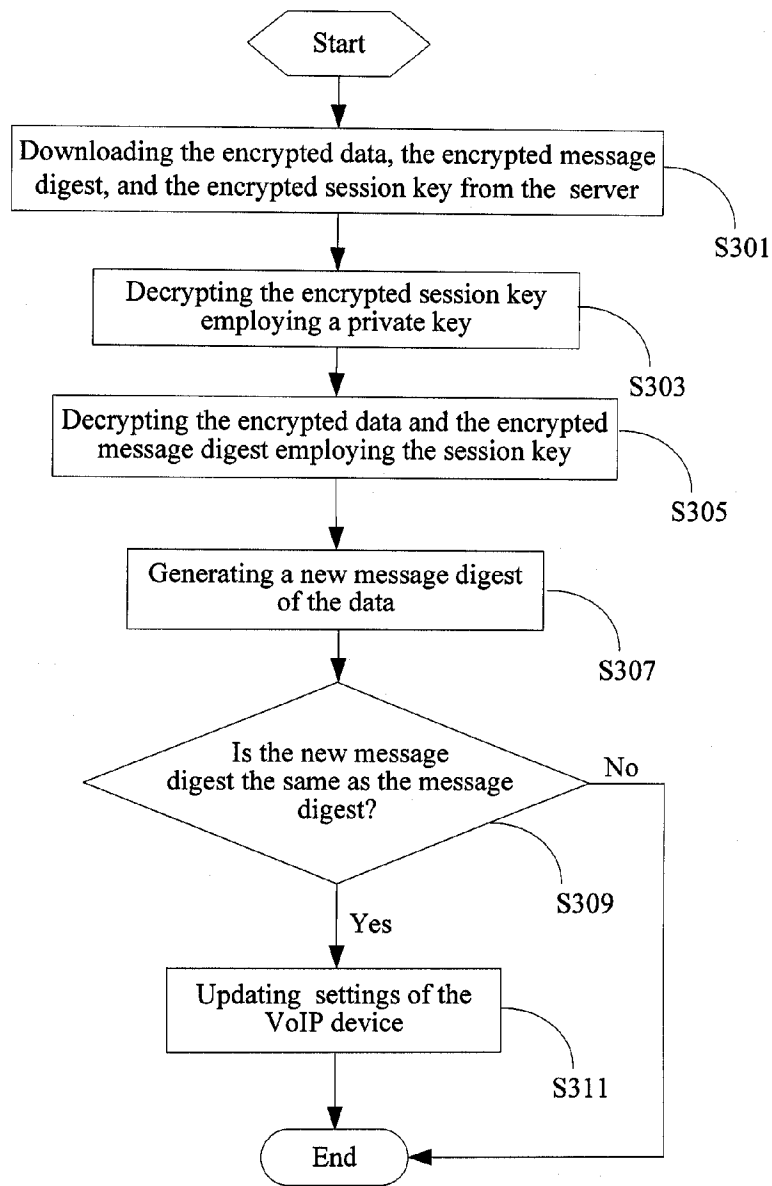


Fig.3

What is claimed is:

[Claim 1] A method for safely downloading setting data in a Voice over Internet protocol (VoIP) system comprising a server, a VoIP device, and a console, the method comprising steps of:

establishing communication between the console and the VoIP device;
determining whether a certificate authority of the VoIP device is valid;
generating a session key randomly if the certificate authority of the VoIP device is valid;
encrypting the setting data of the VoIP system employing the session key;
encrypting the session key employing a public key;
transmitting the encrypted data and the encrypted session key to the VoIP device;
decrypting the encrypted session key employing a private key after the VoIP device received the encrypted data and the encrypted session key;
decrypting the encrypted data to restore the setting data employing the session key; and
checking whether the setting data are correct data.

[Claim 2] The method as recited in claim 1, wherein the step of determining whether the certificate authority of the VoIP device is valid further comprises a step of comparing a root certificate with the certificate authority.

[Claim 3] The method as recited in claim 2, further comprising a step of storing the root certificate, the certificate authority, and the public key in the console before checking the certificate authority of the VoIP device.

[Claim 4] The method as recited in claim 3, wherein the console comprises a memory, and the root certificate and the public key are pre-stored in the memory.

[Claim 5] The method as recited in claim 1, wherein the certificate authority is pre-stored in the VoIP device.

[Claim 6] The method as recited in the claim 1, further comprising steps of:

generating a message digest of the data employing a message digest algorithm;
encrypting the setting data and the message digest employing the session key according to a symmetric algorithm;
encrypting the session key employing the public key according to an asymmetric algorithm;
and
transmitting the encrypted data, the encrypted message digest, and the encrypted session key to the server.

[Claim 7] The method as recited in the claim 6, further comprising steps of:
downloading the encrypted data, the encrypted message digest, and the encrypted session key from the server;
decrypting the encrypted session key employing a private key to restore the session key according to the asymmetric algorithm;
decrypting the encrypted data and the encrypted message digest employing the session key to restore the data and the message digest;
generating a new message digest employing the message digest algorithm;
determining whether the new message digest is the same as the message digest; and
updating the settings of the VoIP device according to the data if the new message digest is the same as the message digest.

[Claim 8] The method as recited in claim 7, wherein the private key is pre-stored in the VoIP device.

[Claim 9] The method as recited in claim 6, wherein the message digest algorithm is message digest algorithm 5 (MD5).

METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM

DESCRIPTION

Field of the Invention

[Para 1] The present invention relates to a method for downloading data in a voice over Internet protocol (VoIP) system, and particularly to a method for safely downloading setting data in the VoIP system.

Description of Related Art

[Para 2] As the communications industry continues to dominate the growth of the global economy, providing a desired level of privacy for network users while also satisfying performance, flexibility, regulatory, and other requirements has become increasingly important. In particular, the advent of Internet protocol (IP) telephony has increased the requirements for information privacy to a marked degree.

[Para 3] However, encryption techniques used for transferring information streams between computers typically involve computationally intensive encipherment techniques that provide a much higher level of security than is typically needed for IP telephony. However, use of these techniques in an IP telephony environment may contravene the cryptography axiom that the encryptor is not tailored to particular security needs.

[Para 4] Other encryption techniques, although generally better adapted to requirements associated with IP telephony, use relatively simple linear and non-linear feedback shift registers to provide the output key sequences. Although such techniques provide reasonable levels of security and are typically less computationally intensive, they are often inflexible in their structure and with respect to the privacy provided. As a result of these

and other deficiencies, current encryption techniques are inadequate to meet the requirements associated with IP telephony and other communications within communications networks.

Summary of Invention

[Para 5] In an exemplary embodiment, a method for safely downloading setting data in a Voice over Internet protocol (VoIP) system including a server, a VoIP device, and a console is provided. The method includes steps of: establishing communication between the console and the VoIP device; determining whether a certificate authority of the VoIP device is valid; generating a session key randomly if the certificate authority of the VoIP device is valid; encrypting the setting data of the VoIP system employing the session key; encrypting the session key employing a public key; transmitting the encrypted data and the encrypted session key to the VoIP device; decrypting the encrypted session key employing a private key after the VoIP device received the encrypted data and the encrypted session key; decrypting the encrypted data to restore the setting data employing the session key; and checking whether the setting data are correct data.

[Para 6] Other advantages and novel features will be drawn from the following detailed description of embodiments with the attached drawings, in which:

Brief Description of Drawings

[Para 7] FIG. 1 is a schematic diagram of a Voice over Internet Protocol (VoIP) system in accordance with an exemplary embodiment of the present invention;

[Para 8] FIG. 2 is a flow chart of an encryption process for safely downloading setting data in the VoIP system in accordance with another exemplary embodiment of the invention; and

[Para 9] FIG. 3 is a flow chart of a decryption process for securely downloading setting data in the VoIP system in accordance with a further exemplary embodiment of the present invention.

Detailed Description

[Para 10] FIG. 1 is a schematic diagram of a Voice over Internet Protocol (VoIP) system in accordance with an exemplary embodiment of the present invention. In the embodiment, the VoIP system includes a console 100, a provision server 200, a plurality of VoIP devices 300, and a memory 400. In the embodiment, the VoIP devices 300 may be VoIP gateways, which are respectively connected to telephones (not shown). The memory 400 may be a CD-ROM, a hard disk, or other kind of storing device.

[Para 11] Certificates and keys of an asymmetric algorithm thereof are generated when the VoIP devices 300 are manufactured. Typically, the keys of the asymmetric algorithm includes a public key and a private key, the certificates includes a root certificate and a certificate authority. The private key and the certificate authority are pre-stored in the VoIP devices 300, the public key and the root certificate are pre-stored in the memory 400. The console 100 is used for encrypting setting data of the VoIP devices 300, and transmitting the encrypted data to the provision server 200. The VoIP devices 300 download the setting data from the provision server 200, and update settings thereof according to the setting data.

[Para 12] FIG. 2 is a flow chart of an encryption process for safely downloading setting data in the VoIP system in accordance with an exemplary embodiment of the invention.

[Para 13] The process begins in step S201, where communication between the console 100 and the VoIP device 300 is established.

[Para 14] In step S203, the console 100 reads the root certificate, the public key, and the certificate authority in the memory 400.

[Para 15] In step 205, the console 100 determines whether the certificate authority of the VoIP device 300 is valid. In the exemplary embodiment, the console 100 compares the root certificate with the certificate authority to determine whether the certificate authority is valid. If the certificate authority is valid, the console 100 communicates with the VoIP device 300.

[Para 16] In step S207, the console 100 generates a message digest of setting data of the VoIP device 300 according to a message-digest algorithm. The message digest is a unique serial number. In the exemplary embodiment, the console 100 uses a message-digest algorithm 5 (MD5) to generate the message digest.

[Para 17] In step S209, the console 100 generates a session key randomly. In the exemplary embodiment, since the session key is generated randomly, the session key is variable.

[Para 18] In step S211, the console 100 uses the session key to encrypt the setting data and the message digest according to a symmetric algorithm. It should be noted that since the session key is generated randomly, the console 100 may use different session keys each time.

[Para 19] In step 213, the console 100 uses the public key stored in the memory 400 to encrypt the session key according to the asymmetric algorithm.

[Para 20] In step S215, the console 100 inserts the encrypted session key and the encrypted message digest into the encrypted data, and transmits the encrypted data to the provision server 200.

[Para 21] It should be noted that in other embodiments, the encrypted data, the message digest, and the encrypted session key may be transmitted to the provision server 200 separately.

[Para 22] FIG. 3 is a flow chart of a decryption process of a method for securely downloading data in the VoIP system in accordance with another exemplary embodiment of the present invention.

[Para 23] In step S301, the VoIP device 300 downloads the encrypted data, the encrypted message digest, and the encrypted session key from the provision server 200.

[Para 24] In step S303, the VoIP device 300 uses the private key pre-stored in the VoIP device 300 to decrypt and restore the encrypted session key.

[Para 25] In step 305, the VoIP device 300 uses the session key to decrypt the encrypted data and the encrypted message digest, and restore the data and the message digest.

[Para 26] In step S307, the VoIP device 300 calculates a new message digest of the data according to the message digest algorithm. In the exemplary embodiment, the VoIP device 300 uses the message-digest algorithm 5 to calculate the new message digest.

[Para 27] In step S309, the VoIP device 300 checks whether the new message digest is the same as the message digest. If the new message digest is the same as the message digest, the process proceeds to step S311 described below.

[Para 28] In step S311, the settings of the VoIP device 300 is updated according to the setting data.

[Para 29] It is believed that the present embodiments and their advantages will be understood from the foregoing description, and it will be apparent that various changes may be made thereto without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the examples hereinbefore described merely being preferred or exemplary embodiments.

[Para 30] It is believed that the present embodiments and their advantages will be understood from the foregoing description, and it will be apparent that various changes may be made thereto without departing from the spirit and scope of the invention or

sacrificing all of its material advantages, the examples hereinbefore described merely being preferred or exemplary embodiments.

ABSTRACT

A method for safely downloading setting data in a Voice over Internet protocol (VoIP) system including a server, a VoIP device, and a console, includes steps of: establishing communication between the console and the VoIP device; determining whether a certificate authority of the VoIP device is valid; generating a session key randomly if the certificate authority of the VoIP device is valid; encrypting the setting data of the VoIP system employing the session key; encrypting the session key employing a public key; transmitting the encrypted data and the encrypted session key to the VoIP device; decrypting the encrypted session key employing a private key after the VoIP device received the encrypted data and the encrypted session key; decrypting the encrypted data to restore the setting data employing the session key; and checking whether the setting data are correct data.

ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention	METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM																																																																																																						
Submission Type :	Utility Patent Filing																																																																																																						
Application Number:	11/308637																																																																																																						
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us-ids	US7901E-usidst.xml	713	2006-04-15																																																																																																				
us-ids	us-ids.dtd	7763	2006-04-15																																																																																																				
us-ids	us-ids.xml	12026	2006-04-15																																																																																																				
us-assignment	US7901E-usassn.xml	1786	2006-04-15																																																																																																				
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us-assignment	us-assignment.dtd	11123	2006-04-15																																																																																																				
us-assignment	us7901assign1.tif	46440	2006-04-15																																																																																																				
us-assignment	us7901assign2.tif	15540	2006-04-15																																																																																																				
us-request	US7901E-usrequ.xml	2221	2006-04-15																																																																																																				
us-request	us-request.dtd	19064	2006-04-15																																																																																																				
us-request	us-request.xml	31967	2006-04-15																																																																																																				
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us-declaration	us7901power2.tif	83952	2006-04-15																																																																																																				
us-declaration	us7901power3.tif	66676	2006-04-15																																																																																																				
application-body	US7901ABX.xml	15584	2006-04-15																																																																																																				

Doc. Name	File Name	Size (Bytes)	Date Produced (yyyymmdd)
application-body	application-body.dtd	49498	2006-04-15
application-body	Image1.tif	24417	2006-04-15
application-body	Image2.tif	89767	2006-04-15
application-body	Image3.tif	73771	2006-04-15
application-body	isoamsa.ent	5191	2006-04-15
application-body	isoamsb.ent	3988	2006-04-15
application-body	isoamsc.ent	1460	2006-04-15
application-body	isoamsn.ent	5620	2006-04-15
application-body	isoamso.ent	1934	2006-04-15
application-body	isoamsr.ent	7073	2006-04-15
application-body	isobox.ent	3568	2006-04-15
application-body	isocyr1.ent	5345	2006-04-15
application-body	isocyr2.ent	2504	2006-04-15
application-body	isodia.ent	1508	2006-04-15
application-body	isogr1.ent	4030	2006-04-15
application-body	isogr2.ent	2259	2006-04-15
application-body	isogr3.ent	3559	2006-04-15
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application-body	isolat2.ent	9007	2006-04-15
application-body	isomfrk.ent	4553	2006-04-15
application-body	isomopf.ent	2571	2006-04-15
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application-body	isonum.ent	5913	2006-04-15
application-body	isopub.ent	6621	2006-04-15
application-body	isotech.ent	5268	2006-04-15
application-body	mathml2.dtd	54588	2006-04-15
application-body	mathml2-qname-1.mod	13225	2006-04-15
application-body	mmlalias.ent	38209	2006-04-15
application-body	mmlextra.ent	7901	2006-04-15
application-body	soextblx.dtd	12870	2006-04-15
application-body	us-application-body.xsl	82504	2006-04-15
application-body	wipo.ent	4956	2006-04-15
application-body-pdf-wrap	US7901ABX-pdf-wrap.xml	743	2006-04-15
abstract-pdf	US7901ABX-abst.pdf	12786	2006-04-15
claims-pdf	US7901ABX-clms.pdf	16615	2006-04-15
description-pdf	US7901ABX-desc.pdf	28160	2006-04-15
drawings-pdf	US7901ABX-draw.pdf	52850	2006-04-15
package-data	US7901E-pkda.xml	10778	2006-04-15
package-data	package-data.dtd	27025	2006-04-15
package-data	us-package-data.xsl	19263	2006-04-15
Total files size		1184480	

Message Digest:

2dbc6afffa851e43b7fcd75bb1bd316b8b1e70d

Digital Certificate Holder
Name:

cn=Wei Te Joseph
Chung,ou=Registered
Attorneys,ou=Patent and
Trademark
Office,ou=Department of
Commerce,o=U.S.
Government,c=US

TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM	
Application Number :		
Date :		
First Named Applicant:	CHIN-HUNG CHIEN	
Confirmation Number:		
Attorney Docket Number:	US7901	
I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law. I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.		
Submitted By:		Elec. Sign.
WEI TE CHUNG		/WEI TE CHUNG/
		Sign. Capacity
		Agent

Documents being submitted:	Files
us-fee-sheet	US7901E-usfees.xml us-fee-sheet.xsl us-fee-sheet.dtd
us-declaration	US7901E-usdecl.xml us-declaration.dtd us-declaration.xsl
us-power-of-attorney-grant	US7901E-uspoat.xml us-power-of-attorney-grant.dtd us-power-of-attorney-grant.xsl
us-ids	US7901E-usidst.xml us-ids.dtd us-ids.xsl
us-assignment	US7901E-usassn.xml us-assignment.xsl us-assignment.dtd us7901assign1.tif us7901assign2.tif
us-request	US7901E-usrequ.xml us-request.dtd us-request.xsl
us-declaration	us7901power1.tif
us-declaration	us7901power2.tif
us-declaration	us7901power3.tif
application-body	US7901ABX.xml application-body.dtd Image1.tif Image2.tif Image3.tif isoamsa.ent isoamsb.ent isoamsc.ent isoamsn.ent isoamso.ent isoamsr.ent isobox.ent isocyr1.ent isocyr2.ent isodia.ent isogr1.ent isogr2.ent isogr3.ent isogr4.ent isolat1.ent isolat2.ent isomfrk.ent isomopf.ent isomscr.ent isonum.ent isopub.ent

	isotech.ent
	mathml2.dtd
	mathml2-qname-1.mod
	mmlalias.ent
	mmlextra.ent
	soextblx.dtd
	us-application-body.xsl
	wipo.ent
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abstract-pdf	US7901ABX-abst.pdf
claims-pdf	US7901ABX-clms.pdf
description-pdf	US7901ABX-desc.pdf
drawings-pdf	US7901ABX-draw.pdf
Comments	

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

METHOD FOR SAFELY DOWNLOADING SETTING DATA IN
VoIP SYSTEM

Application Number :

Confirmation Number:

First Named Applicant: CHIN-HUNG CHIEN

Attorney Docket Number: US7901

Art Unit:

Examiner:

Search string: (6023689).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6023689	2000-02-08	Nokia Mobile Phones Limited			

Signature

Examiner Name	Date

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Electronic Version v11

Stylesheet Version v10

Title of Invention	METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM
-------------------------------	--

As the below named inventors, we declare that:

This declaration is directed to the invention titled: " METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM"

We believe that we are the original and first inventors of the subject matter which is claimed and for which a patent is sought;

We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

We acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

All statements made herein of own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTORS:

Inventor 1: CHIN-HUNG CHIEN	Inventor
Signature :	Citizen of : TW
Inventor 2: WEI-WEN CHUANG	Inventor
Signature :	Citizen of : TW

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**



Declaration
Submitted
With Initial
Filing

OR



Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket
Number

US7901

First Named Inventor

Chin-hung Chien

COMPLETE IF KNOWN

Application Number

Filing Date

Art Unit

Examiner Name

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VOIP SYSTEM

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
200510035909.1	China	7/9/2005	☐	☐	☒
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐



Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B. attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance completing the form, call 1-800-PTO-9199 and select option 2.

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (If applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Customer Number

54000

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label here

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number 54000 OR ☐ Correspondence address below

Name					
Address					
Address					
City		State		ZIP	
Country		Telephone		Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname					
Chin-hung		Chien					
Inventor's Signature	Chin-hung Chien			Date	Apr. 2, 2006		
Residence: City	Shenzhen	State		Country	China	Citizenship	Taiwan
Post Office Address	458 E. Lambert Road						
Post Office Address							
City	Fullerton	State	Ca	ZIP	92835	Country	U.S.A.

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

Please type a plus sign (+) inside this box → +

PTO/SB/02A (3-97)
Approved for use through 9/30/98. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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+

DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
--------------------	---

Name of Additional Joint Inventor, if any:				☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Wei-wen				Chuang			
Inventor's Signature	Wei-Wen Chuang					Date	Apr. 2, 2006
Residence: City	Shenzhen	State		Country	China	Citizenship	Taiwan
Post Office Address 458 E. Lambert Road							
Post Office Address							
City	Fullerton	State	Ca	ZIP	92835	Country	U.S.A.
Name of Additional Joint Inventor, if any:				☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Inventor's Signature						Date	
Residence: City	Shenzhen	State		Country	China	Citizenship	Taiwan
Post Office Address 458 E. Lambert Road							
Post Office Address							
City	Fullerton	State	Ca	ZIP	92835	Country	U.S.A.
Name of Additional Joint Inventor, if any:				☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Inventor's Signature						Date	
Residence: City		State		Country		Citizenship	
Post Office Address 458 E. Lambert Road							
Post Office Address							
City	Fullerton	State	Ca	ZIP	92835	Country	U.S.A.

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

FEE TRANSMITTAL

Electronic Version v10

Stylesheet Version v10

**Title of
Invention**

METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM

Application Number :

Date :

First Named Applicant: CHIN-HUNG CHIEN

Attorney Docket Number: US7901

TOTAL FEE AUTHORIZED \$ 1040

Patent fees are subject to annual revisions on or about October 1st of each year.

Filing as large entity

BASIC FILING FEE

Fee Description	Fee Code	Amount \$	Fee Paid \$
Utility Filing Fee	1011	300	300
Subtotal For Basic Filing Fees: \$ 300			

EXTRA CLAIM FEES

Fee Description	Extra Claim	Fee Code	Amount \$	Fee Paid \$
Total Claims : 9	0	1202	50	0
Independent Claims : 1	0	1201	200	0
Subtotal For Extra Claims Fees: \$ 0				

ADDITIONAL FEES

Fee Description	Extra Pages Increment	Fee Code	Amount \$	Fee Paid \$
Extra pages fee	0	1081	250	0
Examination fee		1311	200	200
Search fee		1111	500	500
Subtotal For Additional Fees: \$700				

PATENT ASSIGNMENT FEES

Fee Description	Property Number	Quantity	Fee Code	Amount \$	Fee Paid \$
Recording Each Patent Assignment Per Property Fee	00000000	1	8021	40	40
Subtotal For Assignment Fees: \$40					

AUTHORIZED BILLING INFORMATION

The commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit account number: 503789

Access Code ****

Deposit name: PCE Industry Inc.

Deposit authorized name: WEI TE CHUNG

Signature: /WEI TE CHUNG/

Date (YYYYMMDD): 2006-04-11

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

APPLICATION DATA SHEET

Electronic Version v14

Stylesheet Version v14.1

Applicants Information:

Inventor 1:

Applicant Authority Type: Inventor
Citizenship: TW
Given Name: CHIN-HUNG
Family Name: CHIEN
Residence:
City of Residence: SHENZHEN
Country of Residence: CN
Address-1 of Mailing Address: 66,CHUNG SHAN ROAD
Address-2 of Mailing Address:
City of Mailing Address: TU CHENG
State of Mailing Address:
Postal Code of Mailing Address:
Country of Mailing Address: TW
Phone:
Fax:
E-mail:

Inventor 2:

Applicant Authority Type: Inventor
Citizenship: TW
Given Name: WEI-WEN
Family Name: CHUANG
Residence:
City of Residence: SHENZHEN
Country of Residence: CN
Address-1 of Mailing Address: 66,CHUNG SHAN ROAD
Address-2 of Mailing Address:
City of Mailing Address: TU CHENG
State of Mailing Address:
Postal Code of Mailing Address:
Country of Mailing Address: TW
Phone:
Fax:
E-mail:

Correspondence Information:

Customer Number: 54000



Application Information:

Title of Invention : METHOD FOR SAFELY DOWNLOADING
SETTING DATA IN VoIP SYSTEM
Application Type : regular, utility
Attorney Docket Number : US7901

Botanic Information:

Publication Information:

Suggested Figure for Publication - FIG.

Suggested Classification -
Suggested Technology Center -
Total Number of Drawing Sheets - 3

Representative Information:

practitioner(s) at Customer Number:

54000



as our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Domestic Priority Information:

Foreign Priority Information:

Doc.No:200510035909.1; **Country-**CN ; **Date:** 2005-07-09 us-priority-claimed

Assignee Information:

Assignee 1:

Organization Name: HON HAI PRECISION INDUSTRY CO., LTD.
Address-1 of Mailing Address: 66,CHUNG SHAN ROAD
Address-2 of Mailing Address:
City of Mailing Address: TU CHENG

State of Mailing Address:

Postal Code of Mailing Address:

Country of Mailing Address: TW

Phone:

Fax:

E-mail:

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Electronic Version v05

Stylesheet Version v05.0

Title of Invention	METHOD FOR SAFELY DOWNLOADING SETTING DATA IN VoIP SYSTEM										
First Named Applicant :		CHIN-HUNG CHIEN									
Attorney Docket Number :		US7901									
We hereby appoint the registered practitioner(s) at Customer Number: 54000 											
as attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. We are the Applicants/Inventors. Full Names of Applicants of Record: <table border="1"><tr><td colspan="2">CHIN-HUNG CHIEN</td></tr><tr><td>Signature: /CHIN-HUNG CHIEN/</td><td>Date: 2006-04-02</td></tr><tr><td colspan="2">WEI-WEN CHUANG</td></tr><tr><td>Signature: /WEI-WEN CHUANG/</td><td>Date: 2006-04-02</td></tr></table>				CHIN-HUNG CHIEN		Signature: /CHIN-HUNG CHIEN/	Date: 2006-04-02	WEI-WEN CHUANG		Signature: /WEI-WEN CHUANG/	Date: 2006-04-02
CHIN-HUNG CHIEN											
Signature: /CHIN-HUNG CHIEN/	Date: 2006-04-02										
WEI-WEN CHUANG											
Signature: /WEI-WEN CHUANG/	Date: 2006-04-02										