

1) Family number: 30624059 (US2003055962A)

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Title: SYSTEM PROVIDING INTERNET ACCESS MANAGEMENT WITH ROUTER-BASED POLICY ENFORCEMENT

Priority: US20010303653P 20010706 US20010308498P 20010727 US20010944057 20010830
US20010003161 20011114 US20020362525P 20020306 US20020372907P 20020415
US20020159820 20020531 US20020192819 20020709 US20020430458P 20021202
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Family:	Publication number	Publication date	Application number	Application date
	US2003055962 AA	20030320	US20010944057	20010830
	US2003055994 AA	20030320	US20020192819	20020709
	US2003167405 AA	20030904	US20010003161	20011114
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	US2004107360 AA	20040603	US20030249073	20030313
	US2004167984 AA	20040826	US20040708660	20040317
	US6873988 BB	20050329	US20020192819	20020709
	US7222359 BB	20070522	US20010003161	20011114
	US7546629 BB	20090609	US20020159820	20020531
	US7590684 BB	20090915	US20040708660	20040317
	US8200818 BB	20120612	US20010944057	20010830

Probable Assignee: CHECK POINT SOFTWARE TECHNOLOGIES INC

Assignee(s):(std): CHECK POINT SOFTWARE TECHNOLOGIES INC ; ZONE LABS INC ; HERRMANN CONRAD KAMAHA O ; HAYCOCK KEITH ALLAN ; FREUND GREGOR PAUL ; CHECK POINT SOFTWARE TECH LTD ; CHECK POINT SOFTWARE TECHNOLOG

Assignee(s): HERRMANN CONRAD K ; HAYCOCK KEITH A ; FREUND GREGOR P ; ZONE LABS INC A CORP OF CALIFORNIA ; ZONE LABS LLC ; ZANZIBAR ACQUISITION LLC ; FREUND GREGOR ; HAYCOCK KEITH ; HERRMANN CONRAD ; ZONE L S INC AB

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International class (IPC 8-9): G06F15/16 G06F15/173 G06F7/04 H04K1/00 H04L12/28 H04L29/06 H04L9/00 (Advanced/Invention);
G06F15/16 G06F17/00 (Advanced/Non-invention);
H04L12/28 H04L29/06 (Core/Invention)

International class (IPC 1-7): G06F11/30 G06F15/16 G06F15/173 G06F17/30 H04L9/00 H04L9/32

CPC: H04L63/104 H04L63/08 H04L63/0807 H04L63/083 H04L63/102 H04L63/162 Y10S707/99945 H04L63/0263 H04L12/2856 H04L12/2876 H04L63/145 H04L63/20

European class: H04L12/28P1 H04L12/28P1D1C H04L29/06C6A H04L29/06C6C2 H04L29/06C6E H04L63/02B6 H04L63/08 H04L63/10C H04L63/14D1 H04L63/16B H04L63/20 T04L29/06C6M T04L63/08 T04L63/08A T04L63/08D T04L63/10B T04L63/20

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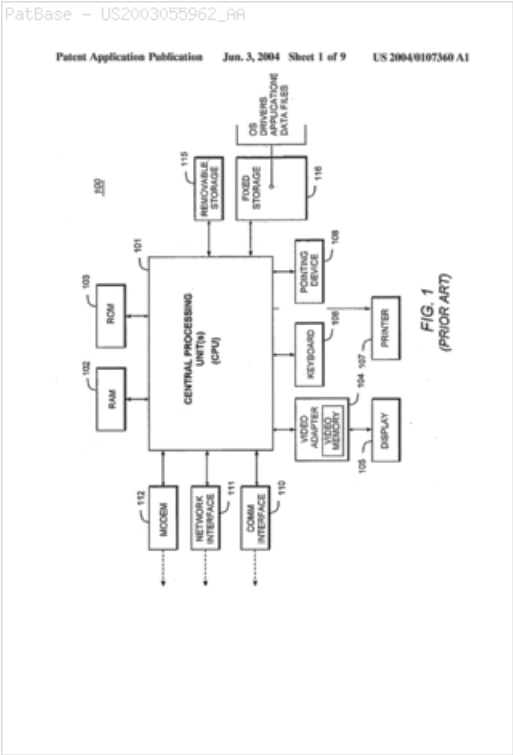
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Abstract:

A computing environment with methods for monitoring access to an open network such as the Internet, is described. The system includes one or more client computers, each operating applications (e.g., Netscape Navigator or Microsoft Internet Explorer) requiring access to an open network, such as a WAN or the Internet, and a router or other equipment that serves a routing function (e.g., a cable modem) for the client computers. A centralized security enforcement module on the router maintains access rules for the client computers and verifies the existence and proper operation of a client-based security module on each client computer. The router-side

security module periodically sends out a router challenge via Internet broadcast to the local computers on the network. If the client-side security module is installed and properly operating, the client-side security module responds to the router challenge. The responses received by the router-side security module are maintained in a table. Each time the router receives a request from a client computer to connect to the Internet, the router-side security module reviews the table and analyzes whether or not the computer requesting a connection to the Internet properly responded to the most recent router challenge. If it determines that the computer has properly responded to the router challenge, then it permits the computer to connect to the Internet. If a computer has not properly responded or if a computer has not answered the router challenge, then the computer is not allowed to connect to the Internet as requested.



2) Family number: 28397078 (US2003055990A)

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Title:	SINGLE-MODEM MULTI-USER VIRTUAL PRIVATE NETWORK			
Priority:	US20010940141 20010823			
Family:	Publication number	Publication date	Application number	Application date
	US2003055990 AA	20030320	US20010940141	20010823
	US7769838 BB	20100803	US20010940141	20010823
Probable Assignee:	HUGHES ELECTRONICS CORP			
Assignee(s):(std):	DIRECTV GROUP INC ; HUGHES ELECTRONICS CORP			
Inventor(s):(std):	CHELINE DOUGLAS A ; CHONG LESTER J ; MA MICHAEL ; ZHANG YE			
International class (IPC 8-9):	G06F15/173 G06F15/177 G06F21/00 H04L29/06 (Advanced/Invention); H04L29/06 (Core/Invention)			
International class (IPC 1-7):	G06F11/30 G06F12/14 G06F15/16 H04L9/00 H04L9/32			
CPC:	H04L63/0272 H04L63/0428 H04L63/08 H04L63/0823 H04L63/0838 H04L63/20			
European class:	H04L29/06C6A H04L29/06C6B H04L29/06C6C2 T04L29/06C6R T04L63/04B T04L63/08C T04L63/08D1 T04L63/20			
US class:	379/901 379/901S 709/220 709/223 709/229 709/229P 713/182 713/201 713/202 726/15 726/15S 726/5 726/5S			

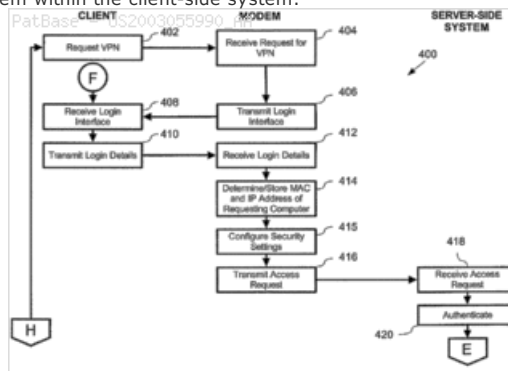
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Forward Citations:	WO14087261, WO14027338, WO08014272, WO08014272, WO07081424, WO06037864, WO06037864, US9906534, US9735979, US9628489, US9515991, US9319967, US9301137, US9253151, US9215224, US9207953, US9020964, US8767686, US8707025, US8650394, US8549022, US8503433, US8463000, US8364567, US8261091, US8185507, US8019850, US7990998, US7886346, US7865577, US7814181, US7808974, US7764700, US7752319, US7715429, US7684321, US7665122, US7660886, US7653746, US7647390, US7529231, US7421736, US7299288, US7287274, US7099653, US7032012, US6996620, US6990655, US6920502, US2017310666, US2016294778, US2016285925, US2016182511, US2016065464, US2015319155, US2014208406, US2014096223, US2012060027, US2011055557, US2009276530, US2009271523, US2009271352, US2009190578, US2008155271, US2008025278, US2007286198, US2007277228, US2007275701, US2007199053, US2007165613, US2006165087, US2006133409,

US2006080445, US2005262550, US2005227670, US2004260747, US2004255035, US2004128561, US2004121759, US2004034695, US2004006708, US2003219022, US2003159072, US2003131110, US2003123446, US2003120822, US2003069958, US2003061342, US2003061328, US2003061321, US2003055987, US2002032725, US10659428, US10541971, US10412048, US10389686, US10313350, US10284517, US10193869, US10193853, US10164943, US10135827, US10069873, US10003576, EP1743252, EP1743252, EP1743252, CN108512752, CN105407092,

Abstract:

A request is received to establish a VPN session with a server-side system from at least one client computer out of a plurality of client computers coupled to a modem within a client-side system. The request contains login details for a user of the at least one client computer. A network address, such as an IP (Internet Protocol) or MAC (Media Access Control) address of the at least one client computer is then determined. The user is authenticated based on the user login details, and a VPN tunnel is established over the modem between the at least one client computer having the network address and the server-side system. The same method is then used for the remainder of the plurality of client computers coupled to the modem within the client-side system.



3) Family number: 20656128 (US2002035618A)

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Title:	SYSTEM AND METHOD FOR TRANSMITTING WORKSPACE ELEMENTS ACROSS A NETWORK							
Priority:	US19960766307	19961213	US19960766307	19961213	US19960766307	19961231		
	US19970841950	19970408	US19970835997	19970411	US19970865075	19970529		
	US19970897888	19970722	US19970899277	19970723	US19970903118	19970730		
	EP19980936865	19980721	EP20060009953	19980721	EP20060075422	19980721		
	EP20070122412	19980721	WO1998US14742	19980721	CA19982297969	19980723		
	CA19982616759	19980723	EP19980936975	19980723	CA19982617304	19980723		
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	US20010921228	20010801	US20030741113	20031219	US20060340083	20060125		
	US20070693323	20070329	US20090480500	20090608	US20090489318	20090622		
	US20090489326	20090622	US20090558208	20090911	US20090575387	20091007		
	US20110038801	20110302						

Family:	Publication number	Publication date	Application number	Application date
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	AT411571 E	20081015	AT19980009953T	19980721
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Inventor(s):(std): BAILES R S ; BUI HONG O ; CHISTINE YING ; CHRISTINE YING ; COWAN DAVID I ; DANIEL J MENDEZ ; DANIEL MENDEZ ; MARK D RIGGINS ; MARKD RIGGINS ; PRASAD ; PRASAD WAGLE ; QUINLAN SEAN M ; RIGGINS MARK D ; WAGLE ; WAGLE PRASAD ; YING CHRISTINE C ; ZULEEG CHRISTOPHER R ; ZULEEG CHRISTOPHER ; MENDEZ DANIEL I ; MENDEZ DANIEL J ; YING CHRISTINE ; WAGLE DANIEL J MENDEZ MARK D R ; RIGGINS MARK ; QUINLAN SEAN MICHAEL ; QUINLAN SEAN ; NG MASON ; COWAN DAVID J ; COWAN DAVID ; BUI HONG Q ; BUI HONG ; BAILES STANLEY R ; BAILES R STANLEY ; BAILES R ; APTEKAR STROBER JOANNNA A ; APTEKAR STROBER JOANNA A ; APTEKAR STROBER JOANNA ; YING CHISTINE ; MENDEZ DANIEL ; RIGGINS D ; MENDEZ J ; BAILES STANLEY

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Agent(s): OSLER HOSKIN AND HARCOURT LLP; EISENFUEHR SPEISER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; SPAARGAREN JEROME; SPAARGAREN JEROME ET AL; MCCANN HEATHER ALISON ET AL; VISSER DERK; MCCANN HEATHER ALISON; PEREZ ELIANA; DEACONS; PEARL COHEN ZEDEK LATZER BARATZ; ONDA MAKOTO; ONDA HIRONORI; MANATT PHELPS AND PHILLIPS ROBERT D BECKER; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; MANATT PHELPS AND PHILLIPS; EIP US LLP; FISH AND RICHARDSON PC

Designated states: AL AM AT AZ BE BY CA CH CN CY DE DK ES FI FR GB GR IE IL IT JP KG KZ LI LT LU LV MC MD MK NL PT RO RU SE SG SI TJ TM

International class (IPC 8-9): G06F1/00 G06F12/00 G06F13/00 G06F13/42 G06F15/00 G06F15/15 G06F15/16 G06F17/00 G06F17/30 G06F21/00 G06F21/31 G06F21/62 G06F9/44 G06F9/46 G06Q G06Q10/00 G06Q10/10 H04K1/00 H04L12/12 H04L12/16 H04L12/24 H04L12/54 H04L12/58 H04L29/06 H04L29/08 H04L9/00 H04W4/00 (Advanced/Invention); G06F1/00 G06F21/20 (Advanced/Non-invention); G06F12/00 G06F13/00 G06F13/42 G06F15/00 G06F15/16 G06F17/00 G06F17/30 G06F21/00 G06F9/46 G06Q10/00 H04K1/00 H04L12/16 H04L12/58 H04L29/06 H04L9/00 (Core/Invention); G06F1/00 G06F21/00 (Core/Non-invention); G06F (Subclass/Invention)

International class (IPC 1-7): G06F1/00 G06F12/00 G06F13/00 G06F13/42 G06F15/00 G06F15/16 G06F15/177 G06F17/00 G06F17/30 G06F17/60 G06F9/44 G06Q10/00 H04K1/00 H04L12/16 H04L12/24 H04L12/54 H04L12/58 H04L29/06 H04L9/00

CPC: H04L63/0838 G06Q20/382 Y10S707/99931 Y10S707/99939 Y10S707/99945 Y10S707/99952 Y10S707/99953 Y10S707/99934 Y10S707/99954 H04L51/22 G06F9/54 H04L51/36 H04L67/1095 H04L67/42 H04L69/04 H04L67/28 H04L67/2823 H04L67/2842 H04L67/2876 H04L67/2838 G06Q10/10 G06F21/6218 G06F16/273 H04L69/329 G06Q10/107 H04L63/04 H04L63/0823 G06F21/31 G06F21/629 G06F2211/007 G06F2221/2141 H04L29/06 H04L63/02 H04L63/0435 H04L63/0807 H04L63/10 H04L63/102

European class: G06F1/00N5A2 G06F17/30S7A G06F17/60A2 G06F21/31 G06F21/62B G06F21/62C G06F9/54 G06Q10/10 G06Q10/107 G06Q20/382 H04L12/58 H04L12/58U H04L29/06 H04L29/06C5 H04L29/06C6A H04L29/06C6B H04L29/06C6C2 H04L29/06C6D H04L29/06C8 H04L29/06S2 H04L29/06S4 H04L29/08A7 H04L29/08N27 H04L29/08N27F H04L29/08N27S H04L29/08N27X2 H04L51/36 H04L63/02 H04L63/04 H04L63/04B1 H04L63/08C H04L63/08D1 H04L63/10 H04L63/10B S06F211/014B S06F221/2141 T04L29/06C6D T04L29/06C6D2 T04L29/06C6D4A T04L29/06C6J T04L29/06C8 T04L29/08A7 T04L29/08N27I T04L29/08N27S T04L29/08N9R T04L63/02 T04L63/08A

US class: 1/1 15/749 395/200.35 705/64 707/1 707/10 707/104 707/104.1 707/201 707/203 707/4 707/9 707/999.001 707/999.004 707/999.009 707/999.01 707/999.104 707/999.201 707/999.202 707/999.203 707/E17.005 707/E17.005S 709/200 709/200S 709/203 709/203S 709/204 709/205 709/206 709/217 709/218 709/218P 709/219 709/219P 709/219S 709/220 709/220P 709/224 709/225 709/229 709/229P 709/246 709/248 709/248P 709/248S 713/168 713/185 726/11 726/11S 726/3 726/4 726/6

JP class F-Term: 5B084 5B084/AA01 5B084/AA11 5B084/AA15 5B084/AB02 5B084/BB17 5B084/CD10 5B084/CD25 5B089 5B089/GA11 5B089/GB01 5B089/JA31 5B089/KA01 5B089/KA17 5B089/KB13 5B089/LA08 5B089/LA14 5K030 5K030/GA11 5K030/HA05 5K030/KA01 5K030/KA07 5K030/KA13 5K030/LD11 5K030/MB18 5B048 5B075 5B082 5B082/GB02 5B082/GC00 5B082/HA00 5B084/AA12 5B084/AA30 5B084/AB04 5B084/AB16 5B084/AB36 5B084/AB39 5B084/BB16 5B084/DC02 5B098 5B175 5B034 5B082/GA02 5B082/GA05 5B082/HA03 5B085 5B085/BG07 5B185 5B185/BG07 5B082/HA06 5B185/AA08 5B185/AE02

JP class F-Index: G06F13/00/351/G G06F13/00/610/A H04L11/20/101/B H04L12/58/100/Z G06F11/22/605 G06F12/00/533/J G06F12/00/545/A G06F13/00/530/B G06F16/178 G06F16/182 G06F16/95 G06F9/46/475/C G06F9/52/150/C G06F11/16/675 G06F12/00/517 G06F15/00/310/A G06F15/00/470 G06F16/17/200

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Forward Citations:

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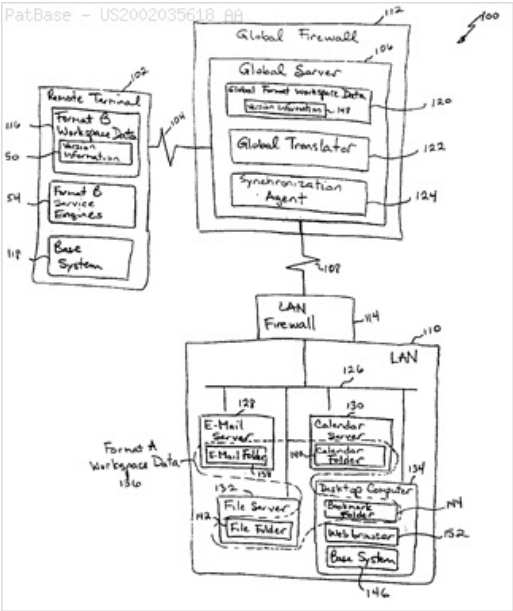
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Abstract:

A system uses a global translator to automatically synchronize multiple copies of a workspace element across different formats between multiple sites in a secure network environment, independent of whether the sites are protected by site firewalls. The secure network environment includes a global server connected to multiple clients. The system includes a first store for storing a first workspace element in a first format, a second store for storing a second workspace element which is an independently-modifiable copy of the first workspace element in a second format, a communications channel coupling the first store to the second store, synchronization means for synchronizing the first workspace element and the second workspace element, and a translator for translating between the first format and the second format.



4) Family number: 11896132 (US2008028436A)

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Title:	GENERALIZED POLICY SERVER					
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	WO9840992 A3	19990415	WO1998US04522	19980309

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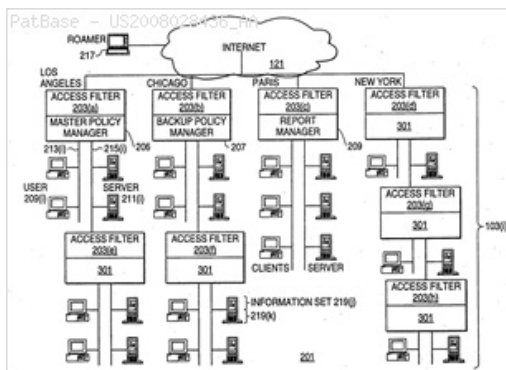
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Abstract:

A scalable access filter that is used together with others like it in a virtual private network to control access by users at clients in the network to information resources provided by servers in the network. Each access filter use a local copy of an access control database to determine whether an access request made by a user. Changes made by administrators in the local copies are propagated to all of the other local copies. Each user belongs to one or more user groups and each information resource belongs to one or more information sets. Access is permitted or denied according to of access policies which define access in terms of the user groups and information sets. The rights of administrators are similarly determined by administrative policies. Access is further permitted only if the trust levels of a mode of identification of the user and of the path in the network by which the access is made are sufficient for the sensitivity level of the information resource. If necessary, the access filter automatically encrypts the request with an encryption method whose trust level is sufficient. The first access filter in the path performs the access check and encrypts and authenticates the request; the other access filters in the path do not repeat the access check. A policy server component of the access filter has been separated from the access filter and the policies have been generalized to permit administrators of the policy server to define new types of actions and new types of entities for which policies can be made. Policies may now further have specifications for time intervals during which the policies are in force and the entities may be associated with attributes that specify how the entity is to be used when the policy applies.



5) Family number: 28046138 (US2003028805A)

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Title: SYSTEM AND METHOD FOR MANAGING NETWORK SERVICE ACCESS AND ENROLLMENT
Priority: US20010922440 20010803 EP20020749230 20020801 WO2002I802991 20020801
Family:

Publication number	Publication date	Application number	Application date
AU2002319859 AA	20030224	AU20020319859	20020801
CN1332521 C	20070815	CN20028015257	20020801
CN1539216 A	20041020	CN20028015257	20020801
DE60244703 D1	20130523	DE20026044703	20020801
EP1413083 A2	20040428	EP20020749230	20020801
EP1413083 A4	20080514	EP20020749230	20020801
EP1413083 B1	20130327	EP20020749230	20020801

KR100579840 B1	20060512	KR20047001299	20020801
KR20040019375 A	20040305	KR20047001299	20020801
US2003028805 AA	20030206	US20010922440	20010803
US7114175 BB	20060926	US20010922440	20010803
WO03014860 A2	20030220	WO2002IB02991	20020801
WO03014860 A3	20030605	WO2002IB02991	20020801
WO03014860 C1	20040304	WO2002IB02991	20020801

Probable Assignee: NOKIA TECHNOLOGIES OY
Assignee(s):(std): NOKA OY ; NOKIA CORP ; NOKIA INC
Assignee(s): NOKIA TECHNOLOGIES OY
Inventor(s):(std): LAEHTENMAEKI MARKKU ; LAHTENMAKI M ; LAHTENMAKI MARKKU ; M LAHTENMAKI
Inventor(s): MARKKU LAHTENMAKI
Agent(s): SAMSON AND PARTNER; HOLLINGSWORTH AND FUNK LLC
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8-9): G06F11/30 G06F12/14 G06F15/00 G06F15/16 H04L29/06 H04L9/00 H04L9/32
H04W12/06 (Advanced/Invention);
G06F15/00 (Advanced/Non-invention);
G06F11/30 G06F12/14 G06F15/00 G06F15/16 H04L29/06 H04L9/00 H04L9/32 (Core/Invention)

International class (IPC 1-7): G06F11/30 G06F12/14 G06F15/00 G06F15/173 H04L9/00 H04L9/32

CPC: H04L63/0823 H04L63/10 H04W4/00 H04W6/00 H04W74/00 H04W12/0609 H04W12/08

European class: H04L29/06C6C2 H04L63/08C H04W12/06 T04L29/06C6D4A T04L63/10 T04W12/08 T04W4/00 T04W60/00 T04W74/00

US class: 709/229 709/229S 713/201 726/27 726/28 726/29 726/4 726/6 726/6P

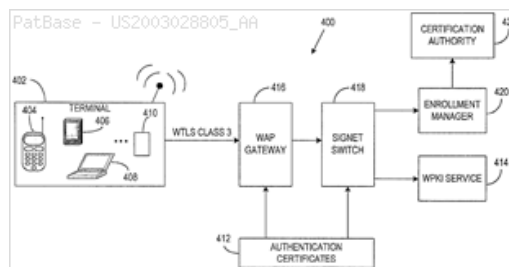
[Classification Explorer](#)

Cited documents: WO0133797 A2, WO0059225 A1, US6463534 BA, US6385651 BB, US6385651 BA, US6367013 BA, US6035402 A, US5715403 A, US5339403 A, US2002004390 AA,

Forward Citations: WO10129475, WO10068389, WO10068389, WO08153456, WO08127516, WO06001587, US9973893, US9973890, US9906497, US9866519, US9853947, US9788205, US9749791, US9686684, US9445270, US9325697, US9306747, US9237021, US9171410, US9100457, US9100222, US9049595, US8983065, US8971790, US8959610, US8924714, US8924577, US8903434, US8856509, US8844015, US8744674, US8730999, US8724803, US8718279, US8713400, US8700771, US8683073, US8667339, US8533463, US8505076, US8417933, US8397060, US8392560, US8370917, US8341395, US8130953, US8121296, US8098818, US8077679, US7987273, US7885870, US7711000, US7693139, US7530117, US7529933, US7512715, US7471794, US7311167, US7299411, US7278167, US2019141474, US2018234791, US2017325059, US2016099916, US2015106184, US2015007303, US2014062650, US2013297672, US2013133058, US2013007295, US2012143404, US2012042160, US2012035993, US2011268276, US2011191581, US2011078764, US2011045864, US2010281519, US2010281249, US2010272124, US2010185849, US2010169947, US2010167764, US2010151818, US2010048206, US2010031028, US2009327696, US2009103725, US2009077239, US2009063855, US2009041026, US2007258441, US2007255840, US2007116282, US2007081672, US2007061569, US2007043950, US2006179474, US2005176428, US2005149724, US2005147249, US2005144144, US2005138379, US2005109209, US2005086467, US2005053241, US2005010774, US2004267665, US2004254889, US2004254888, US2004133855, US2004046018, US2003226017, US2003182551, US2003154274, US2002141371, US10659428, US10580281, US10558961, US10541971, US10462600, US10424189, US10412048, US10390227, US10389686, US10389459, US10365953, US10361800, US10349203, US10341328, US10313449, US10284517, US10255110, US10206107, US10193869, US10187750, US10163318, US10085149, US10063521, US10033706, US10021516, KR20190006776, KR102019279, KR100689028, JP5771603, JP5461574, JP5166524, JP2012526454, JP2012511873, JP2010532596, EP2377090, EP2168068, EP2168068, CN1917423, CN105447692, CN104579662, CN101860861, CN101860861,

Abstract:

A system and method for automatically switching network connections to an appropriate network entity based on access rights possessed by a user of a wireless terminal. A switch recognizes the certificate provided by a terminal, and directs the connection to the service provider hosting a targeted secure service if the certificate proves to have the appropriate access rights. The switch directs the connection to an enrollment module if the certificate does not correspond to the service provider's required certificate, where the user can attempt to obtain the appropriate certificate from the enrollment module to ultimately access the targeted secure service.



6) Family number: 53534244 (US8429232B)

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Title: MESSAGE AUTHENTICATION USING SIGNATURES
Priority: US20030508666P 20031003 US20040951975 20040928 US20100703177 20100209
US20120476792 20120521

Family:

Publication number	Publication date	Application number	Application date
US8429232 BA	20130423	US20040951975	20040928
US8756289 BA	20140617	US20120476792	20120521

Probable Assignee: MICRO FOCUS LLC

Assignee(s):(std): PAUKER MATTHEW J ; CHOI TIMOTHY Y ; APPENZELLER GUIDO ; VOLTAGE SECURITY INC

Assignee(s): VENTURE LENDING AND LEASING VII INC ; VENTURE LENDING AND LEASING VI INC ; ENTIT SOFTWARE LLC ; JPMORGAN CHASE BANK NA ; MICRO FOCUS LLC ; VENTURE LENDING AND LEASING IV INC ; VOLTAGE SECURITY LLC

Inventor(s):(std): APPENZELLER GUIDO ; CHOI TIMOTHY Y ; PAUKER MATTHEW J

Agent(s): TREYZ LAW GROUP; G VICTOR; DAVID C; MICHAEL H

International class (IPC 8-9): G06F15/16 G06F15/173 (Advanced/Invention)

CPC: G06Q10/107 H04L51/063 H04L51/12 H04L51/28

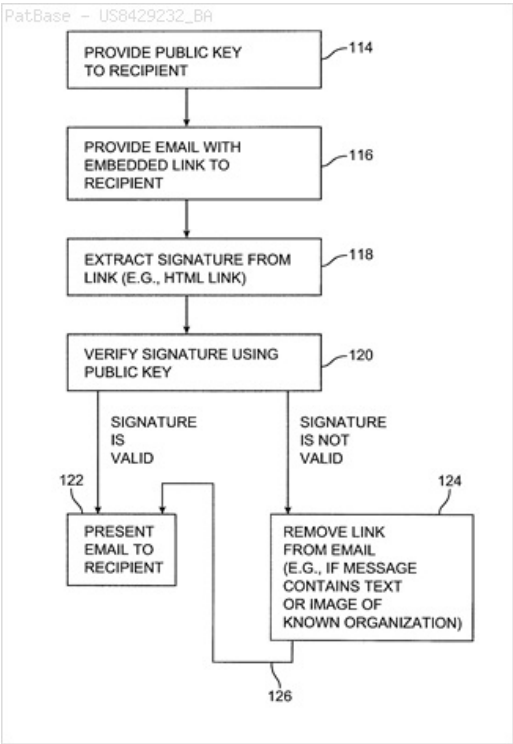
US class: 709/206

[Classification Explorer](#)

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Forward Citations: US9973340, US9906497, US9866519, US9853947, US9563706, US9516047, US9432328, US9325724, US9306889, US9237163, US9154511, US8966620, US8955136, US8955106, US8850566, US2017141923, US2016099916, US2015356630, US2014214792, US2014095860, US2014040394, US2013218989, US2011296524, US2008104703, US2007294765, US10659428, US10541971, US10412048, US10389686, US10284517, US10193869, US10084801, US10069851, US10063521, US10043199, AT517151,

Abstract:
Systems and methods are provided for using digital signatures to help distinguish legitimate email from known or trusted organizations from unsolicited email or forged email. Digital signatures may be used in an email body, mail header, or embedded links. The signatures may be verified by a recipient or internet service provider and may be used in conjunction with spam filtering applications.



7) Family number: 31430309 (US2004268121A)

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Title: REDUCING NETWORK CONFIGURATION COMPLEXITY WITH TRANSPARENT VIRTUAL PRIVATE NETWORKS

Priority: US20030611832 20030630

Family:

Publication number	Publication date	Application number	Application date
AT476044 E	20100815	AT20040014497T	20040621
CN1578218 A	20050209	CN200410063244	20040630
CN1578218 B	20101208	CN200410063244	20040630
DE602004028316 D1	20100909	DE200460028316T	20040621
EP1494420 A2	20050105	EP20040014497	20040621
EP1494420 A3	20060607	EP20040014497	20040621
EP1494420 B1	20100728	EP20040014497	20040621
JP2005027312 A2	20050127	JP20040194757	20040630
JP4558389 B2	20101006	JP20040194757	20040630

KR101076848 B1	20111025	KR20040049692	20040629
KR20050002632 A	20050107	KR20040049692	20040629
US2004268121 AA	20041230	US20030611832	20030630
US7305705 BB	20071204	US20030611832	20030630

Probable Assignee: MICROSOFT CORP

Assignee(s):(std): HUITEMA CHRISTIAN ; MICROSOFT CORP ; SHELEST ART

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s):(std): ART SHELEST ; CHRISTIAN HUITEMA ; HUITEMA CHRISTIAN ; SHELEST ART

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; ABE KAZUO; TANI YOSHIKAZU; WORKMAN NYDEGGER

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

International class (IPC 8-9): G06F11/30 G06F13/00 G06F15/00 G06F15/16 G06F21/20 H04L12/22 H04L12/28 H04L12/56 H04L12/66 H04L29/06 H04L9/32 (Advanced/Invention); G06F15/16 H04L12/22 H04L12/28 (Advanced/Non-invention); G06F11/30 G06F13/00 G06F15/00 G06F15/16 G06F21/20 H04L12/22 H04L12/28 H04L12/56 H04L12/66 H04L29/06 H04L9/32 (Core/Invention)

International class (IPC 1-7): G06F11/30 G06F13/00 G06F15/00 G06F15/16 H04L12/22 H04L12/28 H04L12/56 H04L12/66 H04L29/06 H04L9/32

CPC: H04L9/3218 H04L2209/56 H04L2209/76 H04L2209/80 H04L63/0272 H04L63/029 H04L63/0442 H04L63/08 H04L63/083 H04L63/0853 H04L63/1458 H04L63/166

European class: H04L29/06C6A H04L29/06C6C2 H04L29/06S14D2 H04L29/06S16E H04L29/06S2C H04L29/06S2E H04L29/06S4B2 H04L29/06S8 H04L29/06S8D H04L29/06S8E H04L63/02C H04L63/02E H04L63/04B2 H04L63/08 H04L63/08D H04L63/08E H04L63/14D2 H04L63/16D H04L9/32 T04L29/06C6R

US class: 713/156 713/156P 713/201 726/11 726/15 726/15S

JP class F-Term: 5B085 5B085/AE01 5B085/AE09 5B085/AE23 5B085/BA06 5B085/BG07 5B089 5B089/KA13 5B089/KA17 5B089/KB13 5B285 5B285/AA01 5B285/AA05 5B285/BA01 5B285/CA02 5B285/CA34 5B285/CA44 5B285/CB02 5B285/CB43 5B285/CB47 5B285/CB74 5B285/CB76 5B285/CB84 5B285/CB92 5B285/CB94 5B285/DA09 5K030 5K030/GA03 5K030/GA15 5K030/HA08 5K030/HC01 5K030/HC13 5K030/HD03 5K030/LC09

JP class F-Index: G06F13/00/351/Z G06F15/00/330/A G06F21/20/133 G06F21/20/144/C G06F21/33 G06F21/44 H04L12/56/H H04L12/66/B H04L12/70/D

[Classification Explorer](#)

Cited documents: WO9700471 A2, WO9700471, US7188314 BB, US7155614 BB, US7143174 BB, US7073067 BB, US7058817 BA, US7051365 BA, US7020645 BB, US7010604 BA, US6954862 BB, US6938157 BB, US6931529 BB, US6883095 BB, US6834795 BA, US6631435 BA, US6615358 BA, US6496935 BA, US6473863 BA, US6332192 BA, US6327659 BB, US6317838 BA, US6230271 BA, US6141755 A, US6009475 A, US5983350 A, US5835726 A, US5511122 A, US5483597 A, US2006099826, US2004083394 AA, US2004003116 AA, US2003200321 AA, US2003177390 AA, US2003046587 AA, US2003046586 AA, US2003046391 AA, US2002199007 AA, US2002161884 AA, US2002099826 AA, US2002023220 AA, JP2003030063 A2, JP2003030063, JP2002353959 A2, JP2002353959, JP2002183008 A2, JP2002183008, JP11328118 A2, JP11328118, JP11031020 A2, JP11031020,

Forward Citations: WO16019183, WO15021897, WO07008856, US9853947, US9781162, US9729581, US9729580, US9628444, US9621514, US9560015, US9516026, US9497423, US9344403, US9300635, US9154328, US9009812, US9009327, US8959334, US8676998, US8544081, US8543734, US8451806, US8418243, US8356171, US8261341, US8250214, US8239917, US8213393, US8166538, US8132005, US7840806, US7788513, US7685298, US7614080, US7594259, US2018152320, US2014317683, US2013283379, US2010175125, US2009144436, US2009051765, US2009037763, US2008307488, US2008046994, US2008043761, US2008043749, US2007256120, US2007189307, US2007150932, US2007033646, US2007011453, US2006245414, US2006235973, US2006168656, US2004123156, US2003115480, US10630507, US10541971, US10412048, US10326799, US10200281, US10193869, US10178133, US10158545, US10116539, US10069726, US10038725, KR102015395, KR101997847, KR101072981, KR101022508, KR100828372, GB2414627, EP2264973, EP2264973, CN107465752, CN106357590, CN102611700, CN102611700, CN102404334, CN102131189, CN102131189, CN101222456,

Abstract:

A firewall acts as a transparent gateway to a server within a private network by initiating an unsolicited challenge to a client to provide authentication credentials. After receiving the client's credentials, the firewall verifies the authentication credentials and establishes a secure channel for accessing the server. Data destined for the server from the client may be forwarded through the firewall using the secure channel. The firewall may sign, or otherwise indicate that data forwarded to the server is from a client that the firewall has authenticated. The firewall also may provide some level of authentication to the client. While connected to the server, the client may access other servers external to the private network without having the data associated with the other servers pass through the private network. The firewall reduces configuration information that a client otherwise must maintain to access various private network servers.



International class (IPC 8-9):	G06F11/00 G06F15/16 (Advanced/Invention); G06F11/00 (Advanced/Non-invention); G06F11/00 G06F15/16 (Core/Invention)
CPC:	G06F16/958 G06F21/33 G06F21/31 G06F21/6209 G06F21/6218 G06F21/6263 G06F21/64 H04L63/08 H04L63/0807 H04L63/0823 H04L63/168
European class:	G06F17/30W7 G06F21/31 G06F21/33 G06F21/62A G06F21/62B G06F21/62B5B G06F21/64 H04L29/06S16G H04L29/06S8 H04L29/06S8A H04L29/06S8C H04L63/08 H04L63/08A H04L63/08C H04L63/16G
US class:	707/10 707/999.01 709/203 709/203P 709/217 709/225 709/226 709/227 709/228 709/229 713/201 713/202 713/300 713/310 726/14 726/14P

Forward Citations:	WO16014068, WO14179835, WO12012277, WO12012277, WO10096913, WO09140953, WO07106261, US9E461587, US99548433, US99486444, US9940481, US9916549, US9906528, US9906497, US9898769, US9892477, US9892444, US9892443, US9892442, US9892241, US9882935, US9881301, US9866519, US9858562, US9858439, US9853947, US9851966, US9838362, US9830306, US9830305, US9792425, US9785799, US9762563, US9762397, US9756133, US9749318, US9747435, US9740849, US9736120, US9729520, US9722801, US9712502, US9712494, US9712322, US9674226, US9673984, US9665883, US9645712, US9628444, US9626667, US9619632, US9589110, US9588828, US9582479, US9571492, US9564952, US9560015, US9514446, US9509684, US9491126, US9473536, US9473499, US9467405, US9466054, US9455969, US9450944, US9430452, US9424564, US9424543, US9405738, US9397996, US9342274, US9338214, US9338152, US9317843, US9313209, US9311485, US9300641, US9298896, US9294491, US9286466, US9275399, US9262608, US9258279, US9258146, US9244896, US9237020, US9235834, US9235833, US9158844, US9148408, US9148285, US9147200, US9143514, US9143496, US9141815, US9116867, US9088414, US9082128, US9059979, US9047458, US9047450, US9038170
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Abstract:

The present invention relates to methods and systems for creating secure cookies. The methods can be used to create, receive, and transmit secure cookies, confidential cookies, and authentication cookies.

Cookie	Domain	Flag	Path	Cookie Name	Cookie Value	Secure	Expiration
Cookie 1	acme.com	TRUE	/	Name	Alice	FALSE	12/31/99
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
Cookie n	acme.com	TRUE	/	Role	manager	FALSE	12/31/99

9) Family number: 60449359 (US2016099916A)

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Title:	SYSTEMS AND METHODS FOR PROTECTING NETWORK DEVICES					
Priority:	US20140060427P	20141006	US20140578140	20141219	US20150112457P	20150205
	US20150630550	20150224	US20150828357	20150817	JP20170519551T	20150916
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	US20190519990	20190723				

Family:	Publication number	Publication date	Application number	Application date
	AU2015328628 AA	20170427	AU20150328628	20150916

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WO16057177 A1	20160414	WO2015US50485	20150916
WO16126313 A1	20160811	WO2015US63783	20151203

Probable Assignee: CRYPTZONE NORTH AMERICA INC

Assignee(s):(std): KRIPTZOUN NORT AMERIKA INK ; CRYPTZONE NORTH AMERICA INC

Assignee(s): WESTERN ALLIANCE BANK ; ALLANSSON PER JOHAN ; BERBEROGLU GOKHAN ; CRYPTZONE NORTH AMERICA INC WALTHAM ; CRYPTZONE WORLDWIDE INC ; GLAZEMAKERS KURT ; HAMILTON MALCOLM

Inventor(s):(std): ALLANSSON PER JOHAN ; BERBEROGLU GOKKHAN ; GLEJZMEJKERS KURT ; KHEMILTON MALKOLM ; PER JOHAN ALLANSSON ; MALCOLM HAMILTON ; MALCOLM HAMILTON ; KURT GLAZEMAKERS ; GOKHAN BERBEROGLU ; HAMILTON MALCOLM ; GLAZEMAKERS KURT ; BERBEROGLU GOKHAN

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; MCMILLAN LLP; CAROLINA MERCEDES DAZA MONTALVO; PIOTROWICZ PAWEL JAN ANDRZEJ DR; DERRY PAUL STEFAN; DESHIMARU TAKESHI; OHTSUKA FUMIAKI; NISHIJIMA TAKAKI; SUDA HIROYUKI; UESUGI HIROSHI; KONDO NAOIKI; R AND C IP LAW FIRM; YURIDICHESKAYA GORODISKII I PARTNERY OOO FA; GREENBERG TRAURIG LLP; WARD JOHN P

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TN TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G06F13/00 G06F21/44 G06F21/62 H04L12/16 H04L12/22 H04L12/46 H04L12/66 H04L12/70 H04L12/701 H04L12/713 H04L12/741 H04L29/06 H04L29/08 H04L9/32 (Advanced/Invention)

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US class: 1/1 726/12

JP class F-Term: 5B017 5B089 5B089/GA12 5B089/GA21 5B089/GA25 5B089/GA31 5B089/GB01 5B089/HA10 5B089/HB02 5B089/HB05 5B089/KA17 5B089/KC47 5B089/KC52 5B089/KC58 5K030 5K030/GA15 5K030/HD03 5K030/HD06 5K030/LD20 5K030/HA08 5K030/HC01 5K030/HC13 5K030/HC20 5K030/KX30 5K030/LC13 5K030/MD07 5B084 5B084/AA01 5B084/AA11 5B084/AA30 5B084/AB36 5B084/AB39 5B084/BA07

JP class F-Index:

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[Classification Explorer](#)**Cited documents:**

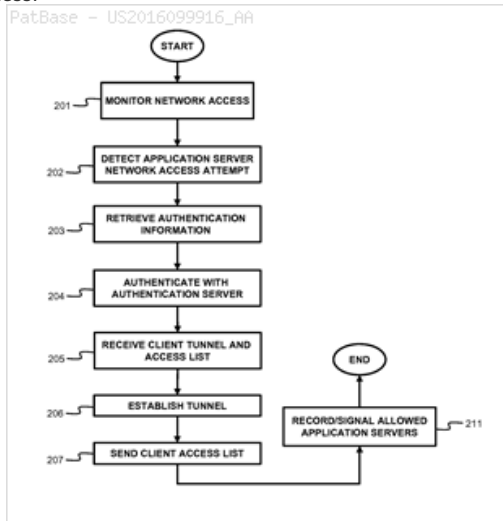
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Abstract:

Embodiments of the present disclosure help protect network devices from unauthorized access. Among other things, embodiments of the disclosure allow full access to application servers and other network devices that a client is allowed to access, while preventing all access (or even knowledge) of network devices the client is not allowed to access.

**10) Family number: 54836527** (US8549300B)

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Title: VIRTUAL SINGLE SIGN-ON FOR CERTIFICATE-PROTECTED RESOURCES**Priority:** US20100711094 20100223

Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: PULSE SECURE LLC

Assignee(s):(std): JUNIPER NETWORKS INC ; KUMAR KARTIK ; WOOD JAMES
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International class (IPC 8-9): G06F12/14 G06F17/00 G06F7/04 H04L29/06 H04L9/32 (Advanced/Invention)
CPC: H04L9/3263 H04L63/0272 H04L63/0815 H04L63/0823 H04L63/0884 H04L9/3247
US class: 713/153 713/168 713/175 726/11 726/12 726/23 726/4

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Abstract:

In general, the invention is directed to techniques for enabling single sign-on (SSO) for a client seeking access to multiple resources protected by a certificate-based authentication scheme. For example, as described herein, a secure gateway comprises a certificate repository to store a digital certificate as well as a policy that includes one or more policy rules. A network interface of the secure gateway receives a message from a client device, wherein the message comprises a request to access a protected resource and an identifier for the requesting agent. The secure gateway also comprises a resource authentication module to map the identifier and the protected resource to the digital certificate based on the policy. The resource authentication module retrieves the digital certificate from the certificate repository and sends the digital certificate to the protected resource to authenticate the secure gateway to the protected resource.

