

Search history

Search PN=(WO2016057177) (Results 1)

1:

Search [SP]: 1. a computer-implemented method comprising: receiving a data packet over a network by a routing component of a virtual private network (vpn) client, the vpn client residing in a user space portion of an operating system running on a computer system identifying, by the routing component, a destination for the data packet on the network creating, by the vpn client, a connection to a gateway corresponding to the destination for the data packet and transmitting the data packet to the destination via the gateway. 2. the method of claim 1, wherein the data packet is received via a virtual adapter operating in a kernel space portion of the operating system. 3. the method of claim 1, wherein identifying the destination for the data packet includes identifying the gateway corresponding to the destination for the data packet. 4. the method of claim 1, wherein creating the connection to the gateway includes creating a transmission control protocol connection. 5. the method of claim 1, wherein creating the connection to the gateway includes creating a user datagram protocol connection. 6. the method of claim 1, further comprising removing the gateway connection. 7. the method of claim 1, further comprising: receiving, by the routing component, a plurality of data packets identifying a respective destination on the network for each respective data packet from the plurality of data packets creating a respective connection to a gateway corresponding to a respective destination for each respective data packet in the plurality of data packets and transmitting each respective data packet to its respective destination via its respective gateway connection. 8. the method of claim 7, further comprising removing one or more of the plurality of gateway connections. 9. the method of claim 1, wherein the plurality of data packets are each routed through a single virtual adapter operating in a kernel space of the operating system. 10. the method of claim 1, wherein the routing component comprises a routing table. 11. the method of claim 10, wherein the routing table identifies a destination address for a data packet. 12. a non-transitory, computer-readable medium storing instructions that, when executed, cause a computer system to: receive a data packet over a network by a routing component of a virtual private network (vpn) client, the vpn client residing in a user space portion of an operating system running on the computer system identifying, by the routing component, a destination for the data packet on the network create, by the vpn client, a connection to a gateway corresponding to the destination for the data packet and transmit the data packet to the destination via the gateway. 13. a computer system comprising: a processor and memory in communication with the processor and storing instructions that, when executed by the processor, cause the computer system to: receive a data packet over a network by a routing component of a virtual private network (vpn) client, the vpn client residing in a user space portion of an operating system running on the computer system identifying, by the routing component, a destination for the data packet on the network create, by the vpn client, a connection to a gateway corresponding to the destination for the data packet and transmit the data packet to the destination via the gateway. (Results 0)

Search [SP]: multi-tunneling virtual network adapter multiple virtual private network connections to be created without the need for administrative privileges, and network traffic to be routed using a single virtual adapter instead of a dedicated virtual adapter for each virtual network connection. (Results 119)

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4:

Search [SP]: cross-references to related applications[0001] the present application is a continuation application of u.s. patent application ser. no. 14/630,550, filed on feb. 24, 2015, issued as u.s. pat. no. 9,906,497 on feb. 27, 2018, and entitled "multi-tunneling virtual network adapter," which claims priority to u.s. provisional pat. app. ser. no. 62/060,427, filed oct. 6, 2014 and entitled "system, devices and methods for protecting networking devices," and priority to u.s. provisional pat. app. ser. no. 62/112,457, filed feb. 5, 2015 and entitled "multi-tunneling virtual network adapter," the entire disclosures of which applications are hereby incorporated herein by reference.[0002] the present application is related to u.s. patent application ser. no. 14/578,140, filed dec. 19, 2014, issued as u.s. pat. no. 9,148,408 on sep. 29, 2015, and entitled "systems and methods for protecting network devices," the disclosure of which is hereby incorporated herein by reference.[0003] in a client-server network model, companies or service providers typically offer services and/or applications to client computers and to other services over a computer network. servers and associated services may include, for example, mail servers, file servers, customer relationship management or crm services, enterprise resource planning or erp services, document management services, and the like.[0004] on the one hand, security needs to be guaranteed by restricting the access to these services to trusted users and clients only. on the other hand, trusted users need access to the services in an easy and straightforward manner. preferably, the services can be reached from anywhere at any time. with the "bring your own device" (or "byod") policy finding more and more acceptance in companies, services should also be reachable from "anything", i.e., from any device owned by a trusted user such as for example a tablet computer, a laptop computer, his computer at home or a smartphone.[0005] various conventional approaches exist to attempt to prevent unauthorized access to such application servers or to the services or applications served by these application servers. for example, placing application servers within a private network is itself a security measure as it isolates the companies network, local area network (or "lan") from the internet and other external public networks. devices, and thus services, inside the private network are not visible from the public network. the content of the traffic in the private network, and the manner the traffic can traverse the company's network boundaries, can be regulated and monitored by using network address translation (nat), firewall rules and proxies in the gateway devices separating the wan from the company's private network. private networks may further be subdivided physically or virtually by for example virtual lan's in order to further separate applications servers from potential unauthorized access by clients within the company's private network.[0006] network level security may be enforced on a user by user or a client by client basis, such as by configuring a client's firewall to (by default) only have access to an authentication server. when the client is authorized, the client's firewall is opened and all network devices are configured to let pass the client's network traffic to application servers it has been granted access to.[0007] network level security on a client or user level may also be attempted by a controller generating access rights for users based on identity profiles and health profiles. the controller then configures a protection device thereby providing network access to a set of servers.[0008] the enforcement of network level security in an accepting host may be attempted by configuring the host by a controller. when an initiating host is authorized access to an accepting host, the controller configures the accepting host to accept network connections from the initiating host.[0009] security within a private network may further be enforced by application level security where user or clients can only access the services on the servers after authentication. in such case a client may find the application server within the network, for example by its ip network address and may find the service running on the application server by its tcp or udp port number, but the service or application itself may deny the client or user based on authentication credentials. such authentication may be locally managed by the individual services or centrally by an authentication server. the services then check the authentication credentials against such an authentication server before granting a user and/or client access to a certain service.[0010] access to a company's private network may be established by a vpn or the virtual private network where a secured networking tunnel is setup between a client device and the private network. the setup of such a tunnel is only granted by authentication with a vpn server. different authorization schemes exist to ensure that only trusted users and/or clients can join a vpn.[0011] another solution for providing access to services in a company's private network is by opening up outside access to some services. for example, an email server may allow connections from outside so that users can check their email when they are not in the company. these services are sometimes restricted by only providing access through a specific interface such as for example through the company's website so that the client does not have physical network access to the server running the service but only to a web server providing a subset of the services. [0012] in risk based authentication, access to services is not only granted based on identification of the user and/or client by authentication credentials, but also based on further metrics in order to derive a level of trust appropriate to the risk level. such metrics are for example: the location of the user, the type of client, the operating system, if all security patches have been installed, the logon history of the user etc. this way a user logging on by vpn may be restricted from services he would not be restricted from when logging on from within the private network. or a user logging on from within the private network with his own device may be denied some services.[0013] virtual network adapters are used when setting up vpn connections whereby the operating system routes packets destined to the vpn through the

virtual adapter. virtual adapters run in the kernel space of an operating system. the vpn software, i.e., the dedicated software application running in user-space, then encrypts the complete packet and sends it to its destination (vpn service at the other side where the inverse process occurs). in conventional systems, however, administrative privileges are needed in order to create a virtual adapter, as the adapter resides in kernel space. additionally, for every vpn connection that is made, a new virtual adapter is needed. embodiments of the present disclosure address these and other issues.summary[0014] among other things, embodiments of the present disclosure allow multiple virtual private network connections to be created without the need for administrative privileges, and allow network traffic to be routed using a single virtual adapter instead of a dedicated virtual adapter for each virtual network connection.[0015] a computer-implemented method according to one embodiment of the present disclosure includes: receiving a data packet over a network by a routing component of a virtual private network (vpn) client, the vpn client residing in a user space portion of an operating system running on a computer system identifying, by the routing component, a destination for the data packet on the network creating, by the vpn client, a connection to a gateway corresponding to the destination for the data packet and transmitting the data packet to the destination via the gateway.[0016] the present disclosure includes various methods, apparatuses (including computer systems) that perform such methods, and computer readable media containing instructions that, when executed by computing systems, cause the computing systems to perform such methods.[0017] other features will be apparent from the accompanying drawings and from the detailed description which follows.brief description of drawings[0018] fig. 1 is an exemplary system for protecting network devices from network access by untrusted client devices according to various aspects of the disclosure.[0019] fig. 2 is an exemplary process executed by a client device to gain network access to protected network devices according to various aspects of the disclosure.[0020] fig. 3 is an exemplary process executed by an authentication server for providing a client access and tunnel list to a client device allowing this client network access to protecting network devices according to various aspects of the disclosure.[0021] fig. 4 is an exemplary process executed by a gateway to provide a client access to protected network devices behind a firewall in this gateway according to various aspects of the disclosure.[0022] fig. 5 is an exemplary process executed by client device to gain network access to a second selection of network devices behind a firewall of a gateway after having gained access to a first selection of these network devices according to various aspects of the disclosure.[0023] fig. 6 illustrates an exemplary exchange of a keep alive message between a client device and a gateway in order to maintain a networking tunnel between the client and the client device according to various aspects of (Results 119)

Search 3 or 4 or 5 (Results 119)

6:

Search 6 and PD < 20141006 (Results 101)

7:

Search 7 and method* and (VPN or private or LAN or local network or local area) (Results 88)

8:

Title: SECURE CONTAINER FOR PROTECTING ENTERPRISE DATA ON A MOBILE DEVICE

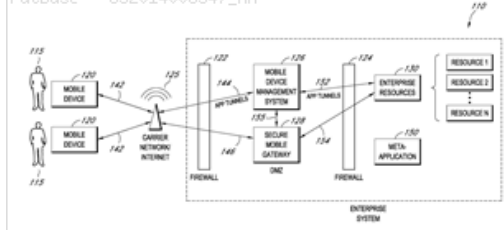
Abstract: A system is disclosed that includes components and features for enabling enterprise users to securely access enterprise resources (documents, data, application servers, etc.) using their mobile devices. An enterprise can use some or all components of the system to, for example, securely but flexibly implement a BYOD (bring your own device) policy in which users can run both personal applications and secure enterprise applications on their mobile devices. The system may, for example, implement policies for controlling mobile device accesses to enterprise resources based on device attributes (e.g., what mobile applications are installed), user attributes (e.g., the user's position or department), behavioral attributes, and other criteria. Client-side code installed on the mobile devices may further enhance security by, for example, creating a secure container for locally storing enterprise data, creating a secure execution environment for running enterprise applications, and/or creating secure application tunnels for communicating with the enterprise system.

Classifications:**International (IPC 8-9):** A63F13/20 G06F11/30 G06F12/14G06F13/00 G06F15/16 G06F15/173 G06F15/177 G06F17/00
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G06F21/88 G06F3/00 G06F3/01 G06F3/0481 G06F3/0482 G06F7/04
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H04W12/00 H04W12/06 H04W12/08 H04W24/00 H04W4/00

H04W4/02 H04W4/50 H04W8/18 H04W8/24 (Advanced/Invention);

A63F13/213 G06F15/16 G06F17/00 G06F17/30 G06F21/35 G06F21/41 G06F21/62 G06F7/04 G06Q10/06
G06Q10/10 H04L1/14 H04L12/28 H04L12/46 H04L12/813 H04L29/06 H04L29/08 H04M3/56 H04W12/06 (Advanced/Non-invention)**CPC:** H04L51/08 G06F21/72 H04L63/0263 H04L63/0861 H04L12/2876 H04L41/0893 H04L63/108 G06F9/5005 H04L41/50
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PatBase - US2014006347_RR

**Family:**

Publication number	Publication date	Application number	Application date
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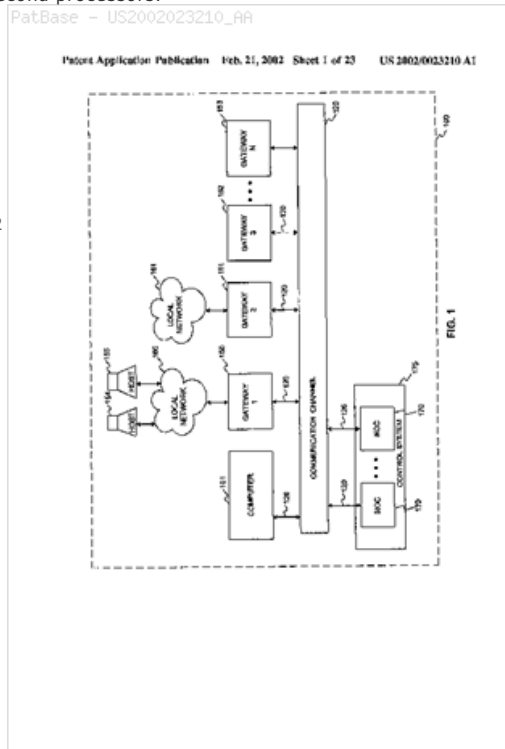
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Abstract: **Methods** and systems are provided for enabling a network between a first and a second processor using at least one additional processor separate from the first and second processors. In one embodiment, the at least one additional processor receives information indicating a consent on behalf of the first processor to enabling a tunnel between the first processor and the second processor and receives information indicating a consent on behalf of the second processor to enabling a tunnel between the second processor and the first processor. The at least one additional processor determines a first virtual address for the first processor and a second virtual address for the second processor such that the first and second virtual addresses uniquely identify the first and second processors, respectively, and are routable through the network. The at least one additional processor provides to each of the first and second processors the first and second virtual addresses to enable one or more tunnels between the first and the second processors.

International (IPC a-9): G06F13/00 G06F15/16 G06F15/17
G06F15/177 G06F21/20 G06F7/04 H0419/00 H04L12/24 H04L12/26
H04L12/46 H04L12/56 H04L29/06 H04L29/08 H04L29/12
H04L9/00 (Advanced/Invention);
G06F3/00 H04L29/08 H04L29/12 (Advanced/Non-invention);
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H04L29/08 H04L29/12 (Core/Invention);
H04L29/08 H04L29/12 (Core/Non-invention)

CPC: H04L69/329 H04L63/0227 H04L41/0856 H04L63/0428
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Inventor(s): SAMUEL BENDINELLI ; ROBERT LARSON ; NEIL R BRUTMAN ; MICHAEL J HARRIS ; MICHAEL HERRICK ; MARK TUOMENOKSA ; JOSEPH FERRARO ; JONATHAN HARWOOD ; JOHN KEANE ; JEROLD FRANCUS ; CHRISTOPHER MACEY ; BRION SHIMAMOTO

Agent(s): SMART AND BIGGAR; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

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 EE ES FI FR GA GB GD GE GH GM GN 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 PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: **METHODS** AND SYSTEMS FOR SECURING ACCESS TO **PRIVATE** NETWORKS USING ENCRYPTION AND AUTHENTICATION TECHNOLOGY BUILT IN TO PERIPHERAL DEVICES

Abstract: A **method** for routing packets from a peripheral device to a Virtual **Private** Network (**VPN**) gateway includes the step of implementing, by a peripheral device, a change to a routing table. The peripheral device receives an outbound packet. The peripheral device transmits information about the outbound packet to a **VPN** client application. The peripheral device modifies address information on the outbound packet with address information associated with the **VPN** client application. The peripheral device transmits the modified outbound packet to the **VPN** client application.

Classifications:

International (IPC 8-9): G01R31/08 G06F11/20 G06F13/00 G06F15/16 G06F15/173 G06F21/20 H04J3/16 H04J3/22 H04L H04L1/14 H04L1/18 H04L12/24 H04L12/26 H04L12/28 H04L12/46 H04L12/56 H04L12/66 H04L12/701 H04L12/721 H04L12/725 H04L12/749 H04L12/801 H04L12/805 H04L12/813 H04L12/851 H04L12/853 H04L12/859 H04L12/861 H04L29/06 H04L29/08 H04L29/12 H04L29/14 H04L9/00 (Advanced/Invention); H04L9/32 (Advanced/Non-invention); G01R31/08 G06F11/20 G06F13/00 G06F15/16 H04J3/16 H04J3/22 H04L1/12 H04L1/16 H04L12/24 H04L12/26 H04L12/28 H04L12/46 H04L12/56 H04L12/66 H04L29/06 H04L29/08 H04L29/14 (Core/Invention); H04L (Subclass/Invention)

International (IPC 1-7): A61K31/454 H04L12/56 H04L29/06 H04L29/08 H04L29/14

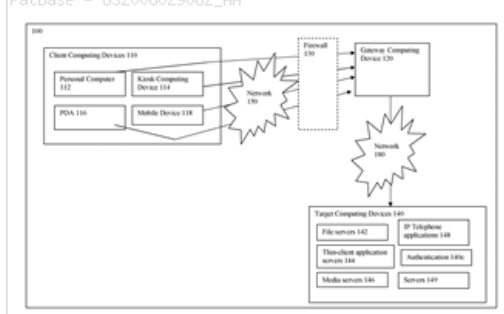
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European: H04L1/18R7 H04L12/24E1A H04L12/28P1 H04L12/28P1D3 H04L12/46E H04L12/46V H04L29/06C6A H04L29/06C6C H04L29/06C8A H04L29/06S10A H04L29/06S16C H04L29/06S16E H04L29/06S20 H04L29/06S2B H04L29/08A7 H04L29/08N13 H04L29/08N13A H04L29/08N9A H04L29/08N9A11 H04L29/12A H04L29/12A4A H04L29/12A4A1B H04L29/12A4A7 H04L29/14 H04L41/08A1 H04L43/08D H04L45/00 H04L45/30 H04L47/10 H04L47/20 H04L47/24B H04L47/24C1 H04L47/24H H04L47/36 H04L61/00 H04L61/25A1B H04L61/25A7 H04L63/02B H04L63/02B1 H04L63/02C H04L63/02E H04L63/04B H04L63/06A H04L63/06B H04L63/10A H04L63/12B H04L63/16C H04L63/16D H04L63/20 T04L12/24D T04L12/24E3 T04L29/06C6R T04L41/08F T04L63/16C T04L63/16D

US: 1/1 370/229 370/235 370/236 370/352 370/352P 370/389 370/389P 370/391 370/392 370/395.52 370/401 370/465 370/465P 370/466 370/470 370/471 707/204 707/682 709/217 709/219 709/223 709/224 709/225 709/227 709/228 709/229 709/229P 709/230 709/230P 709/238 709/239 709/245 709/248 709/249 713/151 713/151P 713/153 713/154 713/160 713/160P 713/160S 714/6 714/6.12 714/748 714/750 726/1 726/13 726/13P 726/14 726/14P

PatBase - US2006029062_HH



Family:

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AT535078 E	20111215	AT20050776653T	20050722
AU2005266943 AA	20060202	AU20050266943	20050722
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Priority:

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AU20100214746	20100831	US20120618180	20120914	US20130739895	20130111

Probable Assignee: CITRIX SYSTEMS INC

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Assignee(s): CITRIX SYSTEMS INC CAMBOURNE ; CITRIX SYSTEMS INC FORT LAUDERDALE

Inventor(s): (std): BRUEGGEMANN ERIC ; BRUEGGEMANN ERIC R ; ERIC BRUEGGEMANN ; ROBERT RAO GOUTHAM P BRUEGGEMA ; ROBERT RODRIGUEZ ; RODRIGUEZ ROBERT ; RODRIGUEZ ROBERT A ; GOUTHAM P RAO ; RAO GOUTHAM P ; RAO GOUTHAM

Inventor(s): RAO GOUTHAM P SAN JOSE ; RODRIGUEZ ROBERT SAN JOSE ; RODRIGUEZ ROBERT C O KELLAN PONIKIEWICZ IP COUNSEL ; BRUEGGEMANN ERIC CUPERTINO

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; BERESKIN AND PARR LLP SENCRL SRL; MURGITROYD AND CO; SCHIEBER FARAGO; ARMSTRONG ROSEMARY; MODIANO MICAELA NADIA; COOPER JOHN; FAIRBAIRN CATLEY LOW AND KONG; MARKS AND CLERK; ELLA CHEONG HONG KONG LTD; WOLFF BREGMAN AND GOLLER; CHOATE HALL AND STEWART LLP; CHOATE HALL AND STEWART CITRIX SYSTEMS INC; JOHN D; CHRISTOPHER J; CHRISTOPHER; DANIEL E; FOLEY AND LARDNER LLP; CHRISTOPHER; PAUL M H

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

Title: THIRD PARTY **VPN** CERTIFICATION

Abstract: A virtual **private** network (**VPN**) over a telecommunications network is created by sending a request from a first **VPN** device to a second **VPN** device for establishing a **VPN** between the first and second **VPN** devices. The request includes a first signed certificate having a verified **VPN** parameter for the first **VPN** device. A reply is received at the first **VPN** device from the second **VPN** device that includes a second signed certificate having a verified **VPN** parameter for the second **VPN** device. The **VPN** is established between the first and second **VPN** devices based on each verified **VPN** parameter for each of the first and second **VPN** devices.

Classifications:

International (IPC 8-9): G06F15/16 G06F17/30 G06F21/00 G06F9/00 H04L12/24 H04L12/28 H04L12/50 H04L12/56 H04L12/927 H04L29/06 H04L9/00 H04L9/32 (Advanced/Invention); H04L29/06 (Advanced/Non-invention)

International (IPC 1-7): H04L12/26 H04L12/28 H04L12/50 H04L29/06

CPC: H04L63/04 H04L41/0806 H04L41/12 H04L63/0823 H04L63/0435 H04L63/12 H04L63/0272 H04L9/3263 H04L47/805 H04L63/0428 H04L2209/64 H04L63/061 H04L63/20

European: H04L29/06C6C2 H04L63/02C H04L63/08C

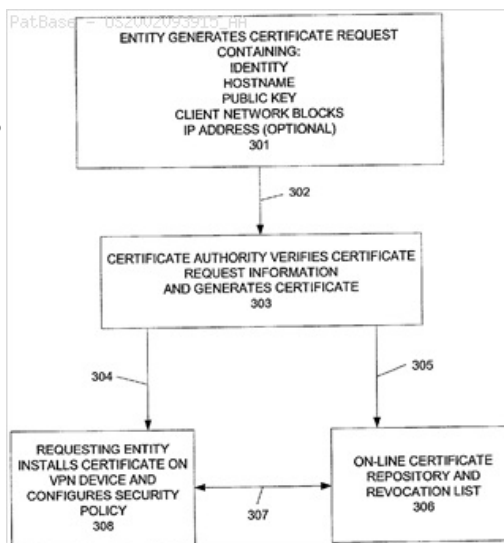
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US: 1/1 370/235 370/235P 370/252 370/252S 370/254 370/389

370/389S 370/400 370/400S 370/409 370/409S 709/203 709/203S

709/225 713/155 713/168 713/168P 713/175 726/10 726/10S

726/15 726/15P



Family:

Publication number	Publication date	Application number	Application date
AT536020 E	20111215	AT20020718836T	20020117
AU2002249950 AA	20020730	AU20020249950	20020117
DE60241659 D1	20120126	DE20026041659	20020117
DE60245340 D1	20131002	DE20026045340	20020117
DE60245642 D1	20131205	DE20026045642	20020117
EP1360803 A1	20031112	EP20020718836	20020117
EP1360803 A4	20050316	EP20020718836	20020117
EP1360803 B1	20111130	EP20020718836	20020117
EP2264951 A2	20101222	EP20100012245	20020117
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US2008040794 AA	20080214	US20070840579	20070817
US2012036359 AA	20120209	US20110110509	20110518
US2012131665 AA	20120524	US20110110353	20110518
US2013014246 AA	20130110	US20120620358	20120914
US2013067087 AA	20130314	US20120620368	20120914
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US2015358168 AA	20151210	US20150827243	20150814
US2017272255 AA	20170921	US20170614365	20170605
US2018248703 AA	20180830	US20180960182	20180423
US7209479 BB	20070424	US20010874258	20010606
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Priority:

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Probable Assignee: VIRNETX INC

Assignee(s): (std): LARSON VICTOR ; SCIENCE APPLIC INT CORP ; VIRNETX INC ; VIRTNETX INC

Assignee(s): VIMETX INC ; VIRNETX INC ZEPHYR COVE ; SCIENCE APPLICATIONS INT CORP ; SCIENCE APPLICATION INT CORP ; SCIENCE APPLICATIONS INT ; ANDEBOH HOLDINGS FLP

Inventor(s): (std): LARSON VICTOR

Inventor(s): LARSON VICTOR FAIRFAX

Agent(s): PATENTANWAELTE EINSEL AND KOLLEGEN; BETTEN AND RESCH PATENT U RECHTSANWAELTE PARTGMBB; BENECH FREDERIC; VENNER SHIPLEY LLP; BANNER AND WITCOFF; MCDERMOTT WILL AND EMERY LLP; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

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 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

Title: REMOTE ACCESS **VPN** MEDIATION **METHOD** AND MEDIATION DEVICE

Abstract: A mediating apparatus is provided on an IP network, and stores an access control list (ACL) retained in a **VPN** gateway unit. The mediating apparatus: receives a retrieval request from a **VPN** client unit; acquires a **private** IP address of a communication unit by reference to ACL; searches DNS to acquire therefrom an IP address of the **VPN** gateway unit and for encrypted communication therebetween; sends the IP address of the **VPN** gateway unit, the **private** IP address of the communication unit, and the common key to the **VPN** client unit; and sends the IP address of the **VPN** client unit and the common key to the **VPN** gateway unit.

Classifications:

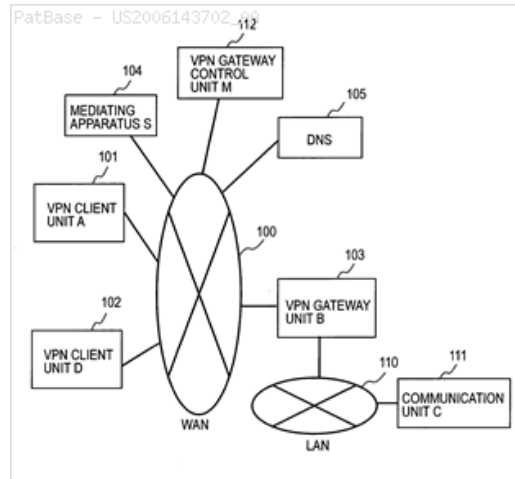
International (IPC 8-9): G06F15/16 G06F17/00 G06F9/00 H04L12/46 H04L12/56 H04L12/70 H04L29/06 H04L9/08 (Advanced/Invention); G06F15/16 G06F17/00 G06F9/00 H04L12/46 H04L12/56 H04L29/06 (Core/Invention)

International (IPC 1-7): H04L12/56

CPC: H04L9/006 H04L63/0272 H04L12/4641 H04L63/101

European: H04L12/46V H04L63/02C H04L9/08 T04L29/06C6R T04L63/10A

US: 709/227 709/229 726/11 726/15 726/15P 726/27



Family:

Publication number	Publication date	Application number	Application date
CN100456739 C	20090128	CN200480000812	20040702
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Priority:

JP20030271202 20030704 WO2004JP09446 20040702

Probable Assignee: NIPPON TELEGRAPH AND TELEPHONE CORP

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

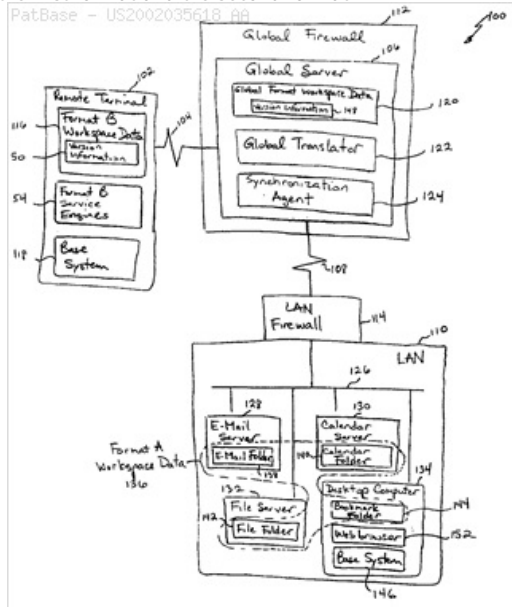
Abstract: A system uses a global translator to automatically synchronize multiple copies of a workspace element across different formats between multiple sites in a secure network environment, independent of whether the sites are protected by site firewalls. The secure network environment includes a 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.

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G06F15/00 G06F15/15 G06F15/16 G06F17/00 G06F17/30 G06F21/00
G06F21/31 G06F21/62 G06F9/44 G06F9/46 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)

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 G06Q10/107
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H04L29/06 H04L63/102 G06Q10/10 G06F21/6218

European: G06F1/00N5A2 G06F17/30S7A G06F17/60A2 G06F21/31
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726/11S 726/3 726/4 726/6



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Priority:

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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

Title: VIRTUAL **PRIVATE** NETWORK CROSSOVERS BASED ON CERTIFICATES

Abstract: A **method** and system for enabling interconnection of **VPNs** is disclosed. An interconnection device manages an interconnection process at one or more facilities including, for example, a gateway device. The gateway device has information relating to a plurality of **VPNs**, and may facilitate interconnection between devices on at least two of the **VPNs** by determining that one device is in fact a member of a first one of the **VPNs**, and by forwarding connection parameters of the first **VPN** to the second **VPN** on an as-needed basis. In this way, the gateway allows interconnection without the need for a completely centralized decision-making process, and does so independently of the type of device and/or **VPN(s)** being used. Moreover, the gateway may implement only those **VPN** parameters needed by both **VPNs** to communicate with one another with a desired level of security, thereby simplifying the routing and forwarding processes associated with the actual communication occurring via the interconnection. The information related to the plurality of **VPNs** and their respective member devices may be stored in a mapping table at the gateway, and identification parameters of a device seeking interconnection and/or associated **VPN** parameters may be verified by the use of digital certificates.

Classifications:

International (IPC 8-9): G06F15/16 H04L12/46 H04L29/06

H04W12/06 (Advanced/Invention);

H04L (Subclass/Invention)

International (IPC 1-7): H04L29/06 H04L9/00

CPC: H04L12/4641 H04L63/0236 H04L63/0254 H04L63/0263

H04L63/0272 H04L63/0281 H04L63/08 H04L63/0823 H04L63/083

H04L63/0869 H04L63/101 H04L63/20

European: H04L12/46V H04L29/06C6A H04L29/06C6C2

H04L63/02B6 H04L63/02C H04L63/08 T04L29/06C6D4A

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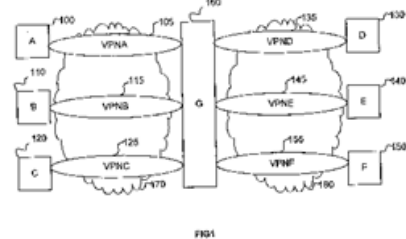
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US: 370/401 709/238 713/153 713/153S 713/156 713/156P 713/161

713/168 713/170 726/15

PatBase - US2004088542_AA

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Family:

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Priority:

US20020288574 20021106 EP20030104019 20031029

Probable Assignee: AT AND T CORP

Assignee(s): (std): AT AND T CORP ; AT AND T INTELLECTUAL PROPERTY I ; AT AND T IP II LP

Assignee(s): DAUDE OLIVIER ; FIESCHI JACQUES ; T CORP ; LE PENNEC JEAN FRANCOIS ; GALAND CLAUDE ; HERICOURT OLIVIER ; AT and T INTELLECTUAL PROPERTY II L P ; AT AND T INTELLECTUAL PROPERTY

II LP

Inventor(s): (std): DAUDE OLIVIER ; FIESCHI JACQUES ; GALAND CLAUDE ; HERICOURT OLIVIER ; LE PENNEC JEAN FRANCOIS ; PENNEC JEAN FRANCOIS LE

Inventor(s): CLAUDE GALAND ; OLIVIER DAUDE ; OLIVIER HERICOURT ; JACQUES FIESCHI ; JEAN FRANCOIS LE PENNEC

Agent(s): ASQUITH JULIAN PETER ET AL; ASQUITH JULIAN PETER

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

Title: GENERALIZED POLICY SERVER

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.

Classifications:

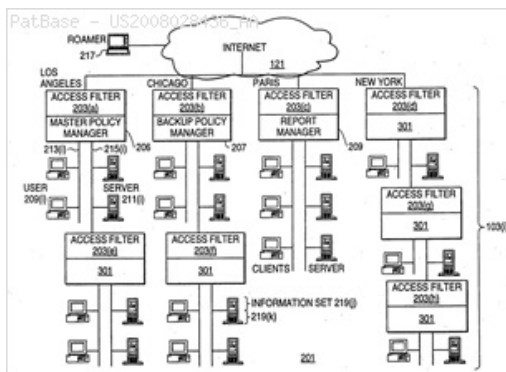
International (IPC 8-9): G06F15/00 G06F15/16 G06F17/00 G06F17/30 G06F21/00 G06F21/62 H04L12/24 H04L12/26 H04L29/06 H04L9/28 (Advanced/Invention); H04L12/24 (Advanced/Non-invention); G06F15/16 G06F17/00 G06F17/30 G06F21/00 H04L29/06 (Core/Invention); H04L12/24 (Core/Non-invention)

International (IPC 1-7): G06F1/00 G06F15/00 G06F15/16 G06F15/163 G06F17/30 G06F17/60 G06F9/00 G09G5/00 H04L12/24 H04L29/00 H04L29/06 H04L9/32

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European: G06F17/30H G06F17/30S4F9R G06F21/62B G06F21/62B1 H04L29/06C6A H04L29/06C6B H04L29/06C6C H04L29/06C6E H04L29/06S2A1 H04L29/06S2B H04L29/06S2B6 H04L29/06S2C H04L29/06S4 H04L63/02A1 H04L63/02B H04L63/02B6 H04L63/02C H04L63/04 H04L63/10A H04L63/10B H04L63/10D H04L63/20 S06F221/2113 T04L12/24G T04L29/06C6M T04L29/06C6R T04L41/28

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Family:

Publication number	Publication date	Application number	Application date
AU199864527 A1	19980929	AU19980064527	19980309
AU199948386 A1	20000117	AU19990048386	19990628
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AU200057553 A1	20010109	AU20000057553	20000621
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AU733109 B2	20010510	AU19980064527	19980309
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EP0966822 A2	19991229	EP19980910236	19980309
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TW448387 B	20010801	TW19990110985	19990906
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US20100850587 20100804	US20120364214 20120201	

Probable Assignee: QUEST SOFTWARE INC

Assignee(s): (std): INTERNET DYNAMICS INC ; HANNEL CLIFFORD LEE ; HANNEL CLIFFORD L ; DROPBOX INC ; MAY ANTHONY ALLAN ; SCHNEIDER DAVID S ; LIPSTONE LAURENCE R ; SCHNEIDER DAVIS S ; SONICWALL INC ; REDLEAF GROUP INC ; RIBET MICHAEL B

Assignee(s): PSM MERGER SUB DELAWARE INC C O THOMA BRAVO LLC ; PSM MERGER SUB DELAWARE INC ; KENDALL HOLDINGS LLC ; PSM MERGER SUB (DELAWARE) INC ; PSM MERGER SUB (DELAWARE) INC C O THOMA BRAVO LLC ; SONICWALL LLC ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; QUEST SOFTWARE INC F K A DELL SOFTWARE INC ; QUEST SOFTWARE INC ; XYLON LLC ; SONICWALL US HOLDINGS INC ; UBS STAMFORD BRANCH COLLATERAL AGENT AG AS ; MARSHMAN RESEARCH LLC ; AVENTAIL LLC ; BANK OF NEW YORK MELLON TRUST CO NA NOTES COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AG ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; DELL INC ; INTERNET DYNAMICS INC (A OF DELAWARE) CORP ; JENSEN DANIEL ; INTERNET DYNAMICS INC A OF DELAWARE CORP ; DELL SOFTWARE INC ; INTELLECTUAL VENTURES ASSETS 8 LLC ; DELL PRODUCTS LP

Inventor(s): (std): HANNEL CLIFFORD LEE ; MAY ANTHONY ALLAN ; SCHNEIDER DAVIS S ; SCHNEIDER DAVID S ; RIBET MICHAEL B ; LIPSTONE LAURENCE R ; JENSEN DANIEL ; HANNEL CLIFFORD L ; MICHAEL B RIBET ; LAURENCE R LIPSTONE ; DAVIS S SCHNEIDER ; DAVID S SCHNEIDER ; DANIEL JENSEN ; CLIFFORD L HANNEL ; MAY ANTHONY

Inventor(s): ANTHONY ALLAN MAY ; CLIFFORD LEE HANNEL ; HANNEL CLIFFORD ; LIPSTONE LAURENCE ; SCHNEIDER DAVID

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; CARR AND FERRELL LLP; LEWIS AND ROCA LLP; LEWIS ROCA ROTHGERBER LLP; FENWICK AND WEST LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

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

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.

Classifications:

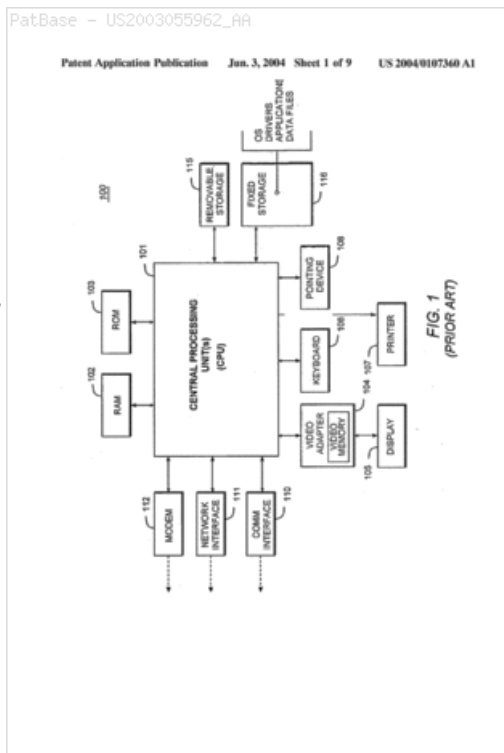
International (IPC 8-9): G06F15/16 G06F15/173 G06F7/04 H04K1/00 H04L12/28 H04L29/06 H04L9/00 (Advanced/Invention); G06F15/16 G06F17/00 (Advanced/Non-invention); H04L12/28 H04L29/06 (Core/Invention)

International (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: 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

US: 1/1 707/10 707/104.1 707/999.01 707/999.104 709/203 709/217 709/219 709/223 709/223S 709/224 709/225 709/225P 709/227 709/229 709/229P 709/229S 713/152 713/201 726/1 726/11 726/12 726/12P 726/13 726/14 726/15 726/1P 726/27 726/27S 726/3

**Family:**

Publication number	Publication date	Application number	Application date
US2003055962 AA	20030320	US20010944057	20010830
US2003055994 AA	20030320	US20020192819	20020709
US2003167405 AA	20030904	US20010003161	20011114
US2003177389 AA	20030918	US20020159820	20020531
US2004107360 AA	20040603	US20030249073	20030313
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US6873988 BB	20050329	US20020192819	20020709
US7222359 BB	20070522	US20010003161	20011114
US7546629 BB	20090609	US20020159820	20020531
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US8200818 BB	20120612	US20010944057	20010830

Priority:

US20010303653P 20010706	US20010308498P 20010727	US20010944057 20010830
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US20020159820 20020531	US20020192819 20020709	US20020430458P 20021202
US20030249073 20030313	US20030481679P 20031120	US20040708660 20040317

Probable Assignee: CHECK POINT SOFTWARE TECHNOLOGIES INC

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

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

Inventor(s): (std): HERRMANN CONRAD K ; MURARI SINDUJA ; LEROY JESS A ; KAWAMURA KYLE N ; KAWAMURA KYLE ; HERRMANN CONRAD KAMAHA O ; HERMANN CONRAD ; HAYCOCK KEITH ALLAN ; HAYCOCK KEITH A ; FREUND GREGOR PAUL ; FREUND GREGOR P ; BENTLEY JOSEPH E ; BAHARESTAN KAVEH ; ALBERT ANTHONY ; HERRMANN CONRAD ; HAYCOCK KEITH ; FREUND GREGOR

Agent(s): JOHN A ; G MACK ; SMART JOHN A

Title: SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT

Abstract: A **method** and system provide a user device with secure access to an enterprise application in an enterprise network through **VPN**. The enterprise application is accessed from a user device such that it sends and receives data packets through the **VPN** client. For this, a request to send packets, originating from the user application, is intercepted by a **VPN** agent associated with the user application. In turn, the **VPN** agent associates an address of a loop-back interface with the user application. Thereafter, packets sent by the user application, are re-directed to the **VPN** client through the loop-back interface. Similarly, packets received by the **VPN** client from the enterprise network are routed through the loop-back interface to the user application.

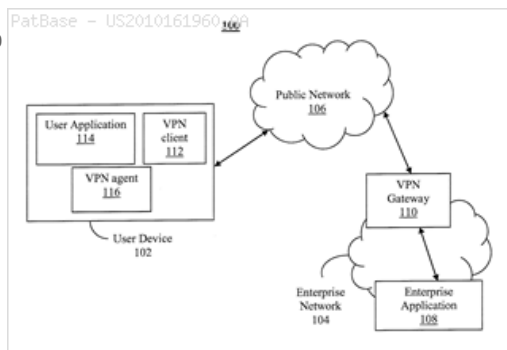
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CPC: H04L63/1408 H04L63/0272 H04L9/00 H04W12/08

European: H04L63/02C

US: 713/152 713/152P 726/15 726/15S

**Family:**

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CA2746341 AA	20110609	CA20092746341	20091216
CN102257760 A	20111123	CN200980151045	20091216
CN102257760 B	20150121	CN200980151045	20091216
EP2359529 A1	20110824	EP20090832772	20091216
EP2359529 A4	20130109	EP20090832772	20091216
IN04154CN2011 A	20120907	IN2011CN04154	20110614
JP2012512573 T2	20120531	JP20110541042T	20091216
JP5620400 B2	20141105	JP20110541042T	20091216
KR20110098824 A	20110901	KR20117016566	20091216
RU2011124586 A	20130127	RU20110124586	20091216
RU2533063 C2	20141120	RU20110124586	20091216
US2010161960 AA	20100624	US20090638556	20091215
US2014366122 AA	20141211	US20140467107	20140825
US8893260 BB	20141118	US20090638556	20091215
WO10069058 A1	20100624	WO2009CA01834	20091216

Priority:

IN2008CH03174 20081217
US20140467107 20140825

US20090638556 20091215

WO2009CA01834 20091216

Probable Assignee: RPX CLEARINGHOUSE LLC

Assignee(s): (std): NORTEL NETWORKS ; NORTEL NETWORKS LTD ; ROCKSTAR BIDCO LP ; ROCKSTAR CONSORTIUM US LP ; ROKSTAR KONSORTSIUM JUEHS LP ; SADASIVAN BIJU

Assignee(s): RPX CORP ; NORTEL NETWORKS LTD2351 BOULEVARD ALFRED-NOBELST-LAURENTQ1H4S 2A9CA ; ROCKSTAR BIDCO LP1285 AVENUE OF THE AMERICASNEW YORKNY10019-6064US ; ROCKSTAR CONSORTIUM US LP1N-110 2201 LAKESIDE BLVD RICHARDSONTX75082US ; RPX CLEARINGHOUSE LLC ; NORTEL NETWORKS LIMITED ; JEFFERIES FINANCE LLC ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS

Inventor(s): (std): BIJU SADASIVAN ; SADASIVAN BIDZHU ; SADASIVAN BIJU

Inventor(s): SADASIVAN BIJUN

Agent(s): GOWLING LAFLEUR HENDERSON LLP; BORTON CLAIRE; ANDERSON GORECKI AND MANARAS LLP ATTN JOHN C GORECKI; ANDERSON GORECKI AND ROUILLE LLP; MEASURES JEFFREY M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FLEXIBLE AUTOMATED CONNECTION TO VIRTUAL **PRIVATE** NETWORKS

Abstract: A network interface unit is provided for use intermediate a **LAN** and a public or **private** network, or a combination of both, for establishing secure links to a **VPN** gateway. Login by a **LAN** client with the network interface unit, addressing, authentication, and other configuration operations achieved using a web page-based GUI are applied in establishing tunnels from **LAN** clients to desired **VPN** destinations. Illustrative network interface units include a DHCP server and provide encryption-decryption and encapsulation-decapsulation of data packets for communication with **VPN** nodes. Configuration and connection of a client are further enhanced by a built-in DNS server and other functional servers to provide a high degree of autonomy in establishing connections to a desired **VPN** gateway via an ISP or other public and/or **private** network links to. The interface unit then performs required authentication exchanges, and required encryption key exchanges.

Classifications:**International (IPC 8-9):** G06F15/16 G06F15/17 G06F15/173

H04L12/46 H04L12/56 H04L29/06 H04L9/08

H04L9/32 (Advanced/Invention);

H04L29/08 (Advanced/Non-invention);

G06F15/16 H04L12/46 H04L29/06 (Core/Invention)

International (IPC 1-7): G06F15/16 H04L12/56 H04L9/32**CPC:** H04L12/4641 H04L12/4675 H04L63/0227 H04L63/0272

H04L63/0428 H04L63/083 H04L9/0861 H04L29/06 H04L29/08072

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Y10S707/9994 H04L61/1511 H04L61/2015 H04L61/2061

H04L61/2514 H04L63/08 H04L63/20

European: H04L12/46V H04L29/06C6A H04L29/06C6B

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US: 370/229 370/230 370/231 370/310 370/328 370/329 370/331 370/335 370/351 370/389 370/392 370/400 370/401

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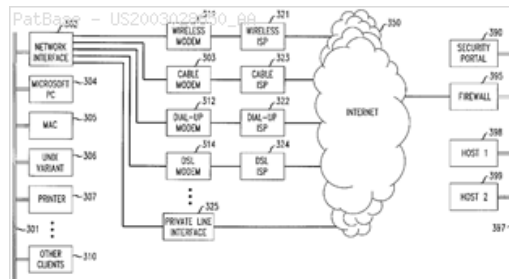
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726/4 726/7

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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US20120531012 20120622		

Probable Assignee: AT AND T CORP

Assignee(s): (std): AT AND T CORP ; AT AND T INTELLECTUAL PROPERTY I ; AT AND T IP II LP ; CHEN YIHSIU ; GOLDMAN SHELLEY B ; STONE KEVIN ; FOLADARE MARK J ; KILLIAN THOMAS J ; SCHRYER NORMAN L ; WEBER ROY P ; SCHRYER NORMAN LOREN ; KILLIAN THOMAS JOSEPH ; BELLOVIN STEVEN MICHAEL ; RUBIN AVIEL D ; LAROSE BRUCE

Assignee(s): FOLADARE MARK JEFFREY ; WEBER ROY PHILIP ; AT AND T PROPERTIES LLC ; AT AND T PROPERTIES LLC A NEVADA FORMATION ; AT AND T PROPERTIES LLC A NEVADA LIABILITY CO LTD ; AT AND T PROPERTIES LLC A NEVADA LTD ; AT AND T INTELLECTUAL PROPERTY II L P ; AT AND T INTELLECTUAL PROPERTY II LP ; AT AND T INTELLECTUAL PROPERTY II LP A NEVADA PART ; AT AND T INTELLECTUAL PROPERTY II LP A NEVADA PARTERSHIP LTD

Inventor(s): (std): WEBER ROY PHILLIP ; WEBER ROY PHILIP ; STONE KEVIN ; SCHRYER NORMAN LOREN ; RUBIN AVIEL D ; LAROSE BRUCE ; KILLIAN THOMAS JOSEPH ; GOLDMAN SHELLEY B ; FOLADARE MARK JEFFREY ; CHEN YIHSIU ; BELLOVIN STEVEN MICHAEL ; WEBER ROY P ; SCHRYER NORMAN L ; KILLIAN THOMAS J ; FOLADARE MARK J

Inventor(s): WEBER ROY ; SCHRYER NORMAN ; KILLIAN THOMAS ; GOLDMAN SHELLEY ; FOLADARE MARK

Agent(s): KIRBY EADES GALE BAKER; AT AND T CORP; HANLEY FLIGHT AND ZIMMERMAN LLC

Title: Vehicle seat for reversible occupant travel

Abstract: A vehicle seat allowing an occupant to either face in a first direction or a second opposed direction is provided. The seat comprises a base that allows for the back rest of the seat to be moved, alternatively, forward or back on a cushion such that the user may select whether he will ride facing towards the direction of the automobile's movement or facing away from the direction of movement. The seat further comprises a pop-up seat cushion which allows the occupant to open up the seat cushion to sit more securely within the seat cushion while having side cushions for added support and impact resistance. The present invention provides better security for small children and pregnant, elderly or otherwise more fragile adults. The seat allows children to be placed such that they do not face the direction of oncoming traffic and instead ride in the more generally agreed to be secure direction of travel.

Classifications:

International (IPC 8-9): A47C3/18 A47C7/40 B60N2/02 B60N2/18 B60N2/20 B60N2/24 B60N2/28 B60N2/30 G06F1/00 G06F12/14 G06F17/30 G06F21/00 G06F21/20 G06F21/24 G06F21/33 G06F21/60 G06F21/62 G09C1/00 H04L29/06 H04L9/00 H04L9/08 H04L9/30 H04L9/32 (Advanced/Invention);

A47C7/40 (Advanced/Non-invention); G06F1/00 G06F12/14 G06F17/30 G06F21/00 G06F21/20 G09C1/00 H04L29/06 H04L9/00 H04L9/08 H04L9/28 H04L9/32 (Core/Invention)

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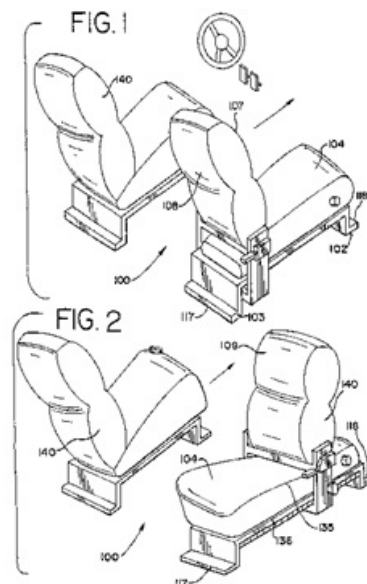
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European: B60N2/02D B60N2/20B B60N2/28C B60N2/28P2 B60N2/28P4 B60N2/30K B60N2/30K3 G06F21/33 G06F21/33A G06F21/60A G06F21/60B G06F21/62A G06F21/62B G06F21/62B3 G06Q20/3821 G06Q30/06 H04L29/06C6B H04L29/06C6C2 H04L29/06C6E H04L63/04B2 H04L63/08B H04L63/08C H04L63/08D H04L63/10B H04L63/10C H04L63/12B H04L63/14D4 H04L9/32S H04L9/32S3 H04L9/32T S06F221/2107 S06F221/2113 S06F221/2115 S06F221/2117 S06F221/2119 S06F221/2141 S06F221/2149 S06F221/2153 T04L29/06C6D4 T04L29/06C6D4A T04L29/06C6G T04L29/06C6R T04L63/02B T04L63/02C T04L63/04B T04L63/04B2 T04L63/06B T04L63/06C T04L63/12

US: 296/64 296/65.01 296/65.13 297/114 297/233 297/234 297/236 297/237 297/238 297/256.16 297/344.1 297/344.100P 297/383 297/94 297/94S 297/95 380/277 380/279 380/279P 380/282 380/282P 380/286 705/76 707/201 707/6 707/999.006 707/999.201 709/201 709/229 713/155 713/155S 713/156 713/156P 713/157 713/157P 713/158 713/166 713/166S 713/171 713/171S 713/173 713/175 713/175S 713/176 713/176S 713/182 713/185 713/189 713/200 713/201 726/10 726/15 726/2 726/30 726/30P 726/9

PatBase - US2002024245_AA

Patent Application Publication Feb. 28, 2002 Sheet 1 of 20 US 2002/0024245 A1



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Publication number	Publication date	Application number	Application date
AU200033599 A1	20010305	AU20000033599	20000209
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Priority:

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Probable Assignee: NORTHROP GRUMMAN SYSTEMS CORP

Assignee(s): (std): HOON Y KIM ; KIM HOON Y ; NORTHROP GRUMMAN CORP ; NORTHOP GRUMMAN CORP ; KIM Y HOON ; AULL KENNETH W ; NORTHROP GRUMMAN SYSTEMS CORP ; TRW INC

Assignee(s): Y KIM HOON ; NORTHROP GRUMMAN SYSTEMS LOS ANGELES CORP ; NORTHROP GRUMMAN CORP LOS ANGELES ; HOON Y ; NORTHROP GRUMMAN SPACE AND MISSION SYSTEMS CORP

Inventor(s): (std): KIM HOON Y ; HOON Y KIM ; MCCULLOUGH VINCENT J ; KIM Y HOON ; NORTHRUP JAMES I ; AULL KENNETH W

Inventor(s): MCCULLOUGH VINCENT J CHANTILLY ; HOON Y ; AULL KENNETH W FAIRFAX ; AULL KENNETH ; Y KIM HOON

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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 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 PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

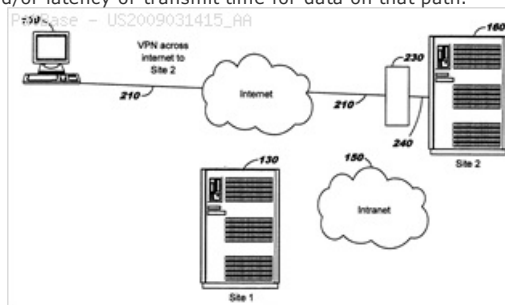
Title: DYNAMIC NETWORK TUNNEL ENDPOINT SELECTION

Abstract: Dynamically selecting an endpoint for a tunnel into an enterprise computing infrastructure. A client dynamically selects a gateway (which may alternatively be referred to as a boundary device or server) as a tunnel endpoint for connecting over a public network (or, more generally, an untrusted network) into an enterprise computing infrastructure. The selection is made, in preferred embodiments, according to least-cost routing metrics pertaining to paths through the enterprise network from the selected gateway to a destination host. The least-cost routing metrics may be computed using factors such as the proximity of selectable tunnel endpoints to the destination host; stability or redundancy of network resources for this gateway; monetary costs of transmitting data over a path between the selectable tunnel endpoints and destination host; congestion on that path; hop count for that path; and/or latency or transmit time for data on that path.

Classifications:**International (IPC 8-9):** G06F17/00 G06F17/30

H04L9/00 (Advanced/Invention);

H04L9/00 (Core/Invention)

CPC: H04L63/0272**European:** H04L63/02C**US:** 726/11 726/12 726/12P 726/14 726/15 726/15P 726/3**Family:**

Publication number	Publication date	Application number	Application date
US2009031415 AA	20090129	US20070828756	20070726
US2011083174 AA	20110407	US20100968200	20101214
US7992201 BB	20110802	US20070828756	20070726
US8261339 BB	20120904	US20100968200	20101214

Priority:

US20070828756 20070726

US20100968200 20101214

Probable Assignee: A10 NETWORKS INC**Assignee(s):** (std): ALDRIDGE M LYNN ; DILL PETER C ; HENINGER IVAN M ; IBM ; KARI JOHN D ; MARANO CLIFFORD D ; URGO DAVID M**Assignee(s):** A10 NETWORKS INC ; INT BUSINESS MACHINES CORP**Inventor(s):** (std): ALDRIDGE M LYNN ; DILL PETER C ; HENINGER IVAN M ; KARI JOHN D ; MARANO CLIFFORD D ; URGO DAVID M**Agent(s):** MARCIA L DOUBET LAW FIRM; MARCIA L

Title: SYSTEM AND **METHOD** FOR ACCESS CONTROL

Abstract: A system and **method** for access control is provided. In one embodiment, a system includes a computing device connected to an access server that controls the ability of the computing device to access to a computing resource, such as the Internet. The access server connects to an activation server via a network. The activation server is operable to receive a request for to generate a certificate for the computing device from the activation server. The activation server is operable to generate the certificate and embed a unique identifier of the computing device and/or the access server and/or the like inside the certificate. Once generated, the certificate is installed in the computing device. When the computing device initiates a request to access the computing resource, the computing device initially sends the certificate to the access server. If the certificate received by the access server does not include the expected unique identifier(s), then access to the computing resource is prevented and/or restricted. If the key received by the access server includes the expected unique identifier(s), then access to the computing resource is permitted.

Classifications:

International (IPC 8-9): G06F12/14 G06F21/20 G06F21/33 H04L12/22 H04L12/66 H04L9/00 H04L9/32 (Advanced/Invention);

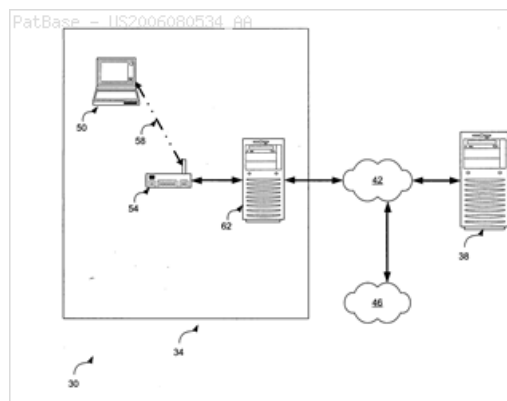
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International (IPC 1-7): G06F12/14 H04L12/22 H04L9/32

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European: G06F21/33 H04L29/06C6C2 H04L63/08C H04W12/06

US: 713/156 713/158 713/176 713/176P 726/10 726/12



Family:

Publication number	Publication date	Application number	Application date
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CA2578186 C	20120710	CA20042578186	20041012
US2006080534 AA	20060413	US20040002315	20041203
US7904952 BB	20110308	US20040002315	20041203
WO06039771 A1	20060420	WO2004CA01821	20041012

Priority:

WO2004CA01821 20041012 US20040002315 20041203

Probable Assignee: BCE INC

Assignee(s): (std): BCE INC ; LOU DAFU ; O BRIEN WILLIAM G ; O BRIEN WILLIAM J ; YEAP TET H ; YEAP TET HIN

Inventor(s): (std): LOU DAFU ; O BRIEN WILLIAM G ; O BRIEN WILLIAM J ; YEAP TET H ; YEAP TET HIN

Inventor(s): O'BRIEN WILLIAM G ; YEAP TET ; O BRIEN WILLIAM

Agent(s): SMART AND BIGGAR; FETHERSTONHAUGH - SMART AND BIGGAR; FETHERSTONHAUGH SMART AND BIGGAR

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: REDUCING NETWORK CONFIGURATION COMPLEXITY WITH TRANSPARENT VIRTUAL **PRIVATE** NETWORKS

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.

Classifications:

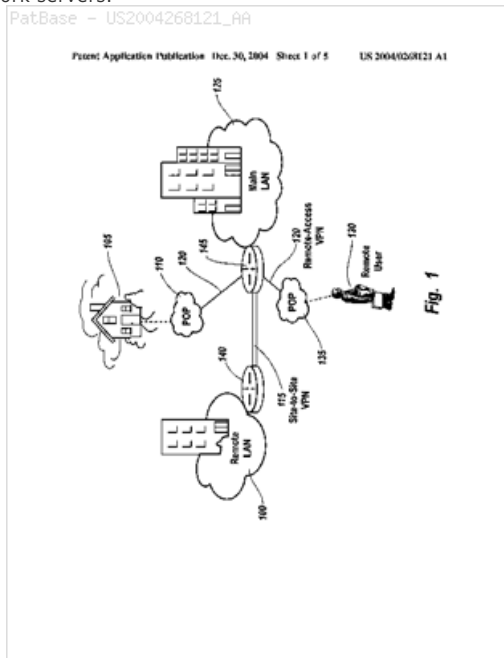
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H04L29/06 H04L9/32 (Advanced/Invention);
G06F15/16 H04L12/22 H04L12/28 (Advanced/Non-invention);
G06F11/30 G06F13/00 G06F15/00 G06F15/16 G06F21/20 H04L12/22
H04L12/28 H04L12/56 H04L12/66 H04L29/06
H04L9/32 (Core/Invention)

International (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
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H04L63/0853 H04L63/1458 H04L63/166

European: H04L29/06C6A H04L29/06C6C2 H04L29/06S14D2
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US: 713/156 713/156P 713/201 726/11 726/15 726/15S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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 SCHWANHAUESSER ANWALTSSOZIELTET; 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

Title: VIRTUAL **PRIVATE** NETWORK AND TUNNEL GATEWAY WITH MULTIPLE OVERLAPPING, REMOTE SUBNETS

Abstract: Local gateway support for multiple overlapping remote networks. The local gateway includes a pool of unique, internally routable system-wide addresses, an address bind table, a filter rules table, and a collection of security association databases. A plurality of overlapping connections are received at the local gateway from remote networks, each including an inbound packet having a source IP address. For each connection, the source IP address is bound with an address from the address pool in a bind table. Outbound packets are processed through the bind table to determine the destination IP address corresponding to a correct one of the plurality of overlapping connections.

Classifications:

International (IPC 8-9): H04L12/28 H04L12/46 H04L12/56 H04L29/06
H04L29/12 (Advanced/Invention);

H04L29/06 (Advanced/Non-invention);

H04L12/46 H04L12/56 H04L29/06 H04L29/12 (Core/Invention);

H04L29/06 (Core/Non-invention)

International (IPC 1-7): G06F15/173

CPC: H04L12/4641 H04L29/12009 H04L29/12424 H04L29/12509

H04L61/2535 H04L61/2567 H04L63/0227 H04L63/0272

European: H04L12/46V H04L29/06C6A H04L29/12A

H04L29/12A4A2D H04L29/12A4A8B H04L61/00 H04L61/25A2D

H04L61/25A8B H04L63/02C T04L29/06C6R T04L63/02B

US: 370/389 370/392 370/392P 370/401 370/401S 709/223 709/229
709/229S 709/238 709/238P

PatBase - US2003145104_AA

Patent Application Publication Jul. 31, 2003 Sheet 1 of 11 US 2003/0145104 A1

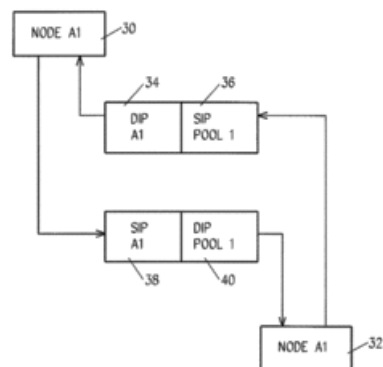


FIG. 1

Family:

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Priority:

US20020055690 20020123 US20060493887 20060726

Probable Assignee: TREND MICRO INC

Assignee(s): (std): IBM

Assignee(s): INT BUSINESS MACHINE CORP ; INT BUSINESS MACHINES CORP ; TREND MICRO INC

Inventor(s): (std): BODEN EDWARD B ; PALERMO DONALD A

Inventor(s): PALERMO DONALD ; BODEN EDWARD

Agent(s): SHELLEY M BECKSTRAND; SHELLEY M; ROY W

Title: SYSTEM AND **METHOD** OF SELECTING A VIRTUAL **PRIVATE** NETWORK ACCESS SERVER

Abstract: The present disclosure is directed to a system and **method** of selecting a virtual **private** network access server. In a particular embodiment, the **method** includes receiving a request from a client device to access a network resource via a virtual **private** network (**VPN**). The **method** also includes sending operational data related to each of a plurality of **VPN** access servers to the client device. The **method** also includes receiving a selection of one of the plurality of **VPN** access servers from the client device and communicatively connecting the client device with the selected one of the **VPN** access servers.

Classifications:

International (IPC 8-9): G06F15/16 G06F9/00

H04L29/06 (Advanced/Invention);

G06F15/16 (Core/Invention)

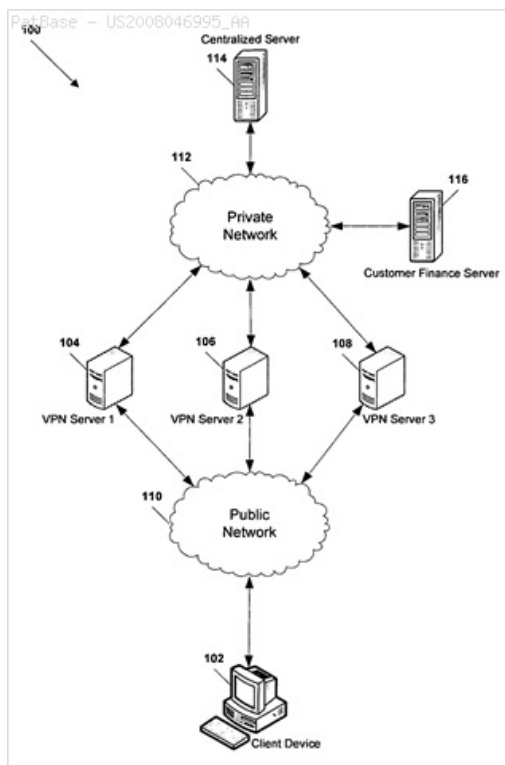
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H04L67/1036 H04L12/4679

European: H04L12/46V3A H04L29/08N9A H04L29/08N9A13

H04L29/08N9A1B H04L29/08N9A1C H04L29/08N9A1H

US: 713/135 713/153 726/11 726/15 726/15P



Family:

Publication number	Publication date	Application number	Application date
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US7849505 BB	20101207	US20060506210	20060817

Priority:

US20060506210 20060817

Probable Assignee: SBC KNOWLEDGE VENTURES LP

Assignee(s): (std): AT AND T INTELLECTUAL PROPERTY I ; AT AND T IP I LP ; SBC KNOWLEDGE VENTURES LP

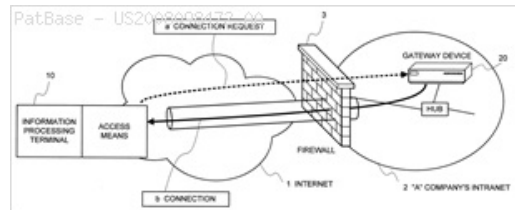
Assignee(s): AT AND T INTELLECTUAL PROPERTY I LP

Inventor(s): (std): HUTNIK STEPHEN MATTHEW ; SATTERLEE MICHAEL

Agent(s): TOLER LAW GROUP

Abstract: A **VPN** connection **method** and a communication system are provided, each which can omit the setting of a firewall and the installation of a relay server and can establish communications from the outside of a firewall to the inside thereof. The internal network 2 is connected to the external network 1 via the firewall 13. The internal network 2 enables communications by an e-mail from the external network 1 (outside the firewall) to the mail server 21 in the internal network 2 (inside the firewall) or communications by telephone or radio, which is not via the firewall 3. The feature of the firewall 3 is utilized that access from the outside to the inside of the firewall through **VPN** connection is very difficult but the access in the reverse stream can be simply performed. Using the mail server, telephone line or radio line, the internal network 2 receives an e-mail, which requires for **VPN** connection from the external network 1, or control information through the telephone line. Thus, the internal network 2 sends callback for **VPN** connection to the e-mail transmission source. As a result, the callback allows the external network 1 to pass through the firewall 3.

US: 1/1 726/12 726/12P



Publication number	Publication date	Application number	Application date
CN1981496 A	20070613	CN200580022200	20050726
CN1981496 B	20160914	CN200580022200	20050726
JP2006011464 A1	20080501	JP20060529327T	20050726
JP4352275 B1	20091028	JP20060529327T	20050726
JP4352275 B2	20091028	JP20060529327T	20050726
TW200620913 A	20060616	TW20050125406	20050727
US2008098472 AA	20080424	US20050572496	20050726
US9088547 BB	20150721	US20050572496	20050726
WO06011464 A1	20060202	WO2005JP13617	20050726

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

Title: SYSTEMS AND **METHODS** FOR ESTABLISHING SECURE VIRTUAL **PRIVATE** NETWORK COMMUNICATIONS USING NON-PRIVILEGED **VPN** CLIENT

Abstract: Systems and **methods** are provided for establishing secure **VPN** communications using processes executing in unprivileged user space. For example, systems and **methods** for establishing secure **VPN** communications implement user mode **VPN** clients and user mode network protocol stacks (e.g., TCP/IP stacks) that operate in user space without root access to an operating system of a computing device.

Classifications:

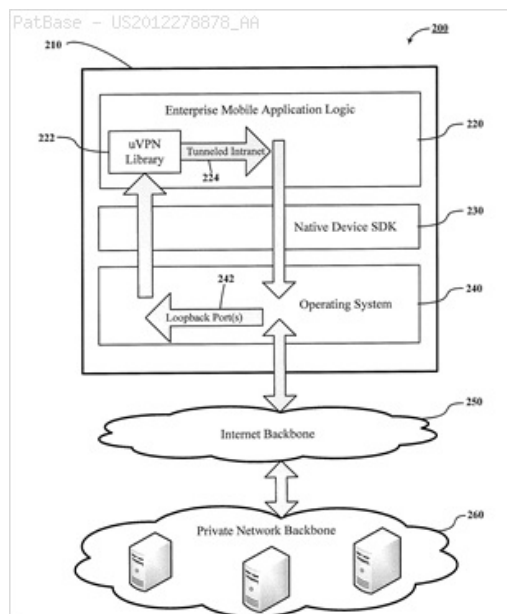
International (IPC 8-9): G06F21/00 H04L29/06 (Advanced/Invention)

CPC: H04L63/10 H04L63/101 H04L63/0272 H04L63/0485

H04L63/0876 H04L63/107

European: H04L63/02C H04L63/04B14

US: 1/1 726/15 726/4



Family:

Publication number	Publication date	Application number	Application date
US2012278878 AA	20121101	US20110095437	20110427
US2013133043 AA	20130523	US20130743265	20130116
US9094400 BB	20150728	US20130743265	20130116

Priority:

US20110095437 20110427

US20130743265 20130116

US20130743313 20130116

Probable Assignee: IBM

Assignee(s): (std): BARKIE ERIC J ; FLETCHER BENJAMIN L ; IBM ; WYSKIDA ANDREW P

Assignee(s): INT BUSINESS MACHINES CORP

Inventor(s): (std): BARKIE ERIC J ; FLETCHER BENJAMIN L ; PISTOIA MARCO ; PONZO JOHN J ; WYSKIDA ANDREW P

Agent(s): RYAN MASON AND LEWIS LLP; LOUIS J

Title: WORKGROUP KEY WRAPPING FOR COMMUNITY OF INTEREST MEMBERSHIP AUTHENTICATION

Abstract: **Methods** and systems for managing a community of interest, and protecting one or more resources associated with the community of interest using the workgroup key. The **method** also includes encrypting the workgroup key using a public key associated with an administrator of the community of interest, the public key included with a **private** key in a public/**private** key pair associated with the administrator. The **method** further includes storing the encrypted workgroup key and associating the workgroup key with a user, thereby adding the user to the community of interest.

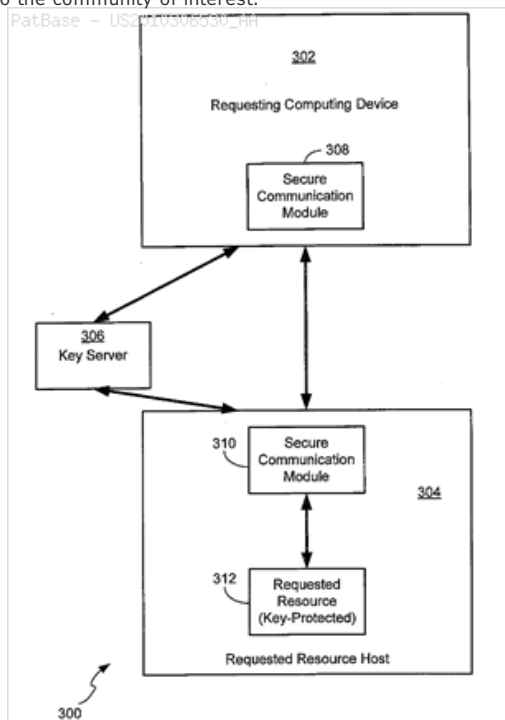
Classifications:

International (IPC 8-9): G06F21/00 H04L29/06 H04L9/08 H04L9/30 H04L9/32 (Advanced/Invention)

CPC: H04L63/065 G06F21/335 G06F21/602 G06F21/6218 G06F2221/2149 H04L9/0833 H04L9/0891 H04L63/0823 H04L63/102

European: G06F21/33A G06F21/60A G06F21/62B H04L63/06C H04L63/08C H04L9/08 S06F221/2107 S06F221/2117 S06F221/2149 T04L63/10B

US: 380/282 380/282S 380/44 380/44S 713/155 713/155P

**Family:**

Publication number	Publication date	Application number	Application date
AU2010256810 AA	20101209	AU20100256810	20100601
AU2010256810 BB	20150709	AU20100256810	20100601
DE602010003179 D1	20121213	DE201060003179T	20100601
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IN10441DN2011 A	20121207	IN2011DN10441	20111230
US2010306530 AA	20101202	US20090476437	20090602
WO10141445 A2	20101209	WO2010US36869	20100601
WO10141445 A3	20110407	WO2010US36869	20100601

Priority:

US20090476437 20090602 EP20100727567 20100601 WO2010US36869 20100601

Probable Assignee: UNISYS CORP

Assignee(s): (std): CHIN EDWARD ; DODGSON DAVID ; JOHNSON ROBERT A ; UNISYS CORP

Assignee(s): UNISYS BLUE BELL CORP ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL TRUSTEE AS ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL AGENT CORP AS

Inventor(s): (std): CHIN EDWARD ; DODGSON DAVID ; JOHNSON ROBERT ; JOHNSON ROBERT A

Agent(s): GRIFFITH HACK; MAYER AND KOLLEGEN; HARRISON GODDARD FOOTE; UNISYS OFFICE OF GENERAL COUNSEL CORP; GREGSON RICHARD J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DOMAIN NAME SYSTEM RESOLUTION

Abstract: A host name query is received by a modem from a client computer. The host name query is simultaneously transmitted from the modem to a plurality of Domain Name System (DNS) servers. A response is returned to the client computer from the modem, where the response is based on the host name query and any responses received from the DNS servers. In a preferred embodiment at least one address associated with the host name query is acquired from the DNS servers. The client computer then sends a request for content to the address. If more than one address is returned, all but one of the addresses is eliminated. This can be done by rejecting all but the most recent address, or rejecting all addresses not provided by a service provider DNS server. (132 words)

Classifications:

International (IPC 8-9): G06F15/16 H04L29/06

H04L29/12 (Advanced/Invention);

G06F15/16 H04L29/06 H04L29/12 (Core/Invention)

International (IPC 1-7): G06F15/16

CPC: H04L29/12066 H04L61/1511 H04L63/0272 H04L63/0823

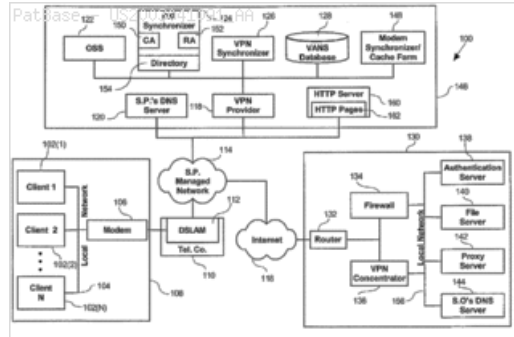
H04L63/0838

European: H04L29/06C6B H04L29/06C6C H04L29/06C6C2

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T04L29/06C6D4A T04L29/06C6R T04L29/12A2 T04L63/08D1

US: 709/200 709/200P 709/245 709/245P

**Family:**

Publication number	Publication date	Application number	Application date
US2003041091 AA	20030227	US20010938430	20010823
US2006271707 AA	20061130	US20060474573	20060626
US7099957 BB	20060829	US20010938430	20010823

Priority:

US20010938430 20010823 US20060474573 20060626

Probable Assignee: HUGHES ELECTRONICS CORP

Assignee(s): (std): CHELINE DOUGLAS A ; CHONG LESTER J ; DIRECTTV GROUP INC ; HUGHES ELECTRONICS CORP ; MA MICHAEL ; ZHANG YE

Inventor(s): (std): CHELINE DOUGLAS A ; CHONG LESTER J ; MA MICHAEL ; ZHANG YE

Inventor(s): CHONG LESTER ; CHELINE DOUGLAS

Agent(s): THE DIRECTV GROUP INC; DIRECTV GROUP INC; GEORGANN S

Title: POLICY BASED VIRTUAL **PRIVATE** NETWORK (**VPN**) COMMUNICATIONS

Abstract: Techniques for policy based virtual **private** network (**VPN**) communications are provided. A principal uses a client device to establish a **VPN** session with a remote processing environment. At the remote processing environment, policies are evaluated and are used for modifying permissible **VPN** routes that the client uses on behalf of the principal during the **VPN** session. The modified **VPN** routes are dynamically pushed to the client at the start of the **VPN** session and dynamically enforced by the client with communications, which are initiated by the principal during the **VPN** session.

Classifications:

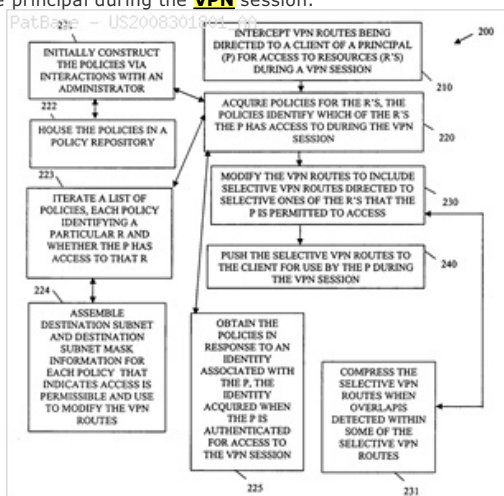
International (IPC 8-9): G06F15/16 (Advanced/Invention); G06F15/16 (Core/Invention)

International (IPC 1-7): H04M7/00

CPC: H04L12/4641 H04L63/0272

European: H04L12/46V H04L29/06S2C H04L63/02C

US: 726/15 726/15P



Family:

Publication number	Publication date	Application number	Application date
IN01167DE2007 A	20081226	IN2007DE01167	20070531
US2008301801 AA	20081204	US20070904376	20070927

Priority:

IN2007DE01167 20070531

Probable Assignee: NOVELL INC

Assignee(s): (std): JOTHIMANI PREMKUMAR

Assignee(s): NOVELL INC ; APPLE INC ; CPTN HOLDINGS LLC ; CREDIT SUISSE COLLATERAL AGENT AG AS

Inventor(s): (std): JOTHIMANI PREMKUMAR

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER NOVELL

Title: SYSTEM AND **METHOD** FOR SECURE NETWORK CONNECTIVITY

Abstract: A system and **method** to ensure that a remote computer making a **VPN** connection complies with network security policies. Server-driven security checks may be configured to verify compliance with each access level before access is granted at that level. The security checks may be selected based at least according to the information received from the remote computer. After the server determines that the remote computer complies with the security policy for the requested access level, the server may pass a token to the remote computer, or may grant **VPN** access to the remote computer. If the remote computer does not comply with the security policy associated with the requested access level but is in compliance with a security policy corresponding to a lower access level, the server may grant the remote computer access to the lower access level.

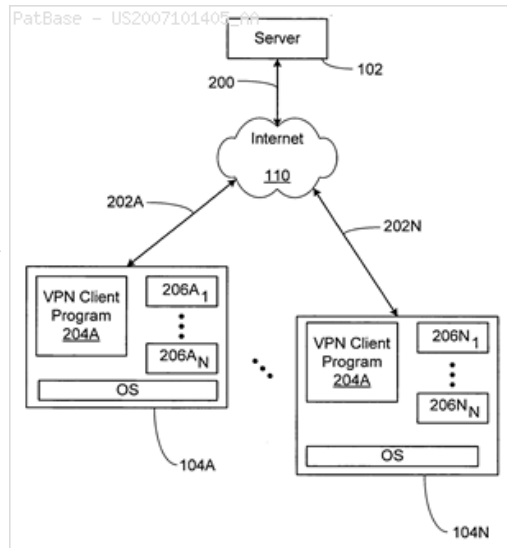
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CPC: H04L63/20 H04L63/105 H04L63/108 H04L63/1433 H04L63/0272 H04L63/102

European: H04L29/06C6C H04L29/06S10B H04L29/06S2C H04L63/02C H04L63/10B T04L29/06C6M T04L29/06C6R

US: 709/219 709/225 709/225S 726/1 726/12 726/15 726/1S 726/2 726/25 726/25P 726/25S 726/2S 726/4 726/4P 726/5 726/5S 726/6 726/6S 726/7 726/7S 726/9 726/9S



Family:

Publication number	Publication date	Application number	Application date
DE602005047751 D1	20151203	DE200560047751T	20050722
EP1782265 A2	20070509	EP20050775366	20050722
EP1782265 A4	20130515	EP20050775366	20050722
EP1782265 B1	20151021	EP20050775366	20050722
ES2556245 T3	20160114	ES20050775366T	20050722
HK1104628 A1	20160624	HK20070109617	20070904
HK1104628 A1	20080118	HK20070109617	20070904
HK1104628 A3	20080118	HK20070109617	20070904
JP2008508797 T2	20080321	JP20070523678T	20050722
JP2010176685 A2	20100812	JP20100044404	20100301
JP4699461 B2	20110608	JP20070523678T	20050722
JP4829354 B2	20111207	JP20100044404	20100301
US2007101405 AA	20070503	US20040903941	20040730
US2007107060 AA	20070510	US20060516930	20060906
US2007107061 AA	20070510	US20060516931	20060906
US7360237 BB	20080415	US20040903941	20040730
US7428746 BB	20080923	US20060516930	20060906
US7428753 BB	20080923	US20060516931	20060906
WO06014842 A2	20060209	WO2005US26215	20050722
WO06014842 A3	20060526	WO2005US26215	20050722

Priority:

US20040903941	20040730	EP20050775366	20050722	JP20070523678	20050722
WO2005US26215	20050722	US20060516930	20060906	US20060516931	20060906

Probable Assignee: BARCLAYS CAPITAL INC

Assignee(s): (std): ENGLE MICHAEL ; ENGLE MICHAEL T ; LEHMAN BROTHERS INC ; NWOKOBIA FREDERICK ; NOACK BRADLEY D ; MAKOWIECKI JERZY ; BARCLAYS CAPITAL INC

Assignee(s): BARCLAYS CAPITAL INC NEW YORK ; LEHMAN BROTHERS INC ENGLE MICHAEL T NWOKOBIA FREDE

Inventor(s): (std): NWOKOBIA FREDERICK ; NOACK BRADLEY D ; MAKOWIECKI JERZY ; ENGLE MICHAEL T

Inventor(s): NOACK BRADLEY ; ENGLE MICHAEL ; ENGLE MICHAEL T SOUTH AMBOY ; MAKOWIECKI JERZY WHITEHOUSE STATION ; NOACK BRADLEY D HOBOKEN ; NWOKOBIA FREDERICK UNION

Agent(s): RGC JENKINS AND CO; DUNLOP HUGH CHRISTOPHER; CARPINTERO MARIO; HONG KONG PATENT REGISTRATIONS CO; MORGAN LEWIS AND BOCKIUS LLP

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

Title: SYSTEM, **METHOD** AND PROGRAM FOR DETERMINING A NETWORK PATH BY WHICH TO SEND A MESSAGE

Abstract: System, **method** and program determining a network path by which a workstation can send a message to a target network. The workstation accesses a first part of the network path via a network access server. A plurality of other servers by which the workstation can access a second part of the network path leading to the target network are identified. Respective response times to communicate between the workstation or the network access server and each of the other servers are measured. A determination is made which one of the other servers has a shortest response time. The workstation attempts to connect to the one server, before attempting to connect to other of the other servers, to access the second part of the network. The second part of the network can be a virtual **private** network, and the other servers are entry point servers for respective virtual **private** networks.

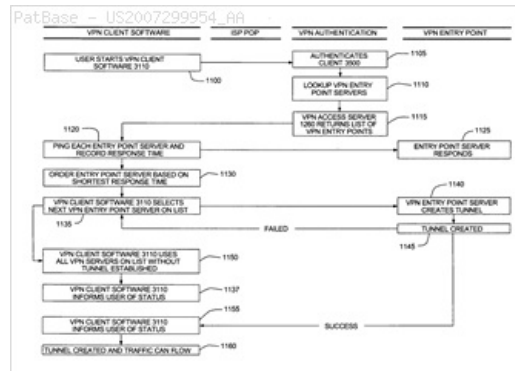
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H04L12/46 H04L12/54 H04L12/701 H04L12/721 H04L12/729
H04L29/06 (Advanced/Invention);
G06F15/16 (Core/Invention)

CPC: H04L12/4641 H04L12/5692 H04L45/00 H04L45/125 H04L45/26
H04L63/0272

European: H04L12/46V H04L12/56F1 H04L29/06S2C H04L45/00
H04L45/125 H04L45/26 H04L63/02C

US: 1/1 709/223 709/223P 709/227 709/227S



Family:

Publication number	Publication date	Application number	Application date
TW200822625 A	20080516	TW20070121836	20070615
US2007299954 AA	20071227	US20060475578	20060627
US9137043 BB	20150915	US20060475578	20060627

Priority:

US20060475578 20060627

Probable Assignee: IBM

Assignee(s): (std) FATULA JR JOSEPH J ; IBM

Assignee(s): INT BUSINESS MACHINES CORP

Inventor(s): (std) FATULA JR ; FATULA JR JOSEPH J ; FATULA JOSEPH J

Agent(s): IBM CORP; WILLIAM E; SCHMEISER OLSEN AND WATTS LLP

Title: **METHOD** AND SYSTEM FOR INCREASING SPEED OF DOMAIN NAME SYSTEM RESOLUTION WITHIN A COMPUTING DEVICE

Abstract: A system for resolving domain name system (DNS) queries, contains a communication device for resolving DNS queries, wherein the communication device further contains a memory and a processor that is configured by the memory, a cache storage for use by the communication device, and a network of authoritative domain name servers, where in a process of the communication device looking up a DNS request within the cache storage, if the communication device views an expired DNS entry within the cache storage, the communication device continues the process of looking up the DNS request in the cache storage while, in parallel, sending out a concurrent DNS request to an authoritative domain name server that the expired DNS entry belongs to.

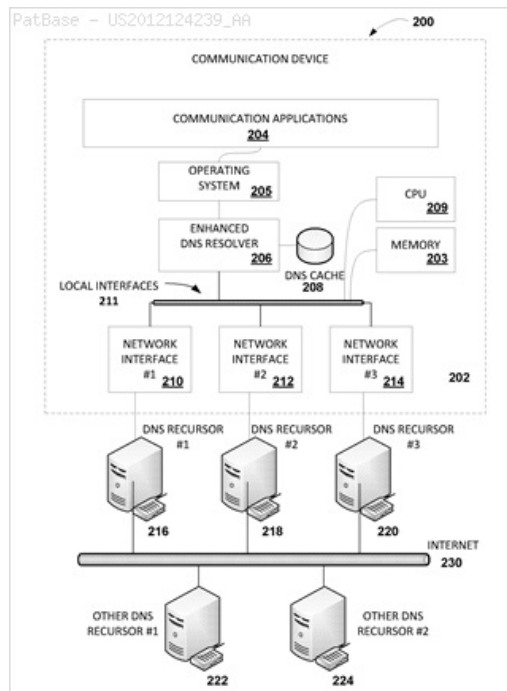
Classifications:

International (IPC 8-9): G06F15/16 G06F15/177 G06F17/30 H04L12/24 H04L29/08 H04L29/12 (Advanced/Invention); G06F15/173 G06F15/177 (Advanced/Non-invention)

CPC: H04L61/1552 H04L61/6009 G06F17/30864 H04L67/2842 H04L61/2053 H04L61/103 H04L41/0806 H04L61/1511

European: H04L61/15A1 H04L61/15E H04L61/60B

US: 709/203 709/208 709/213 709/222 709/245 709/245P



Family:

Publication number	Publication date	Application number	Application date
US2012124239 AA	20120517	US20110034239	20110224
US2014143370 AA	20140522	US20140162953	20140124
US2015256507 AA	20150910	US20150717267	20150520
US2017054681 AA	20170223	US20160344512	20161106
US2018103007 AA	20180412	US20170836871	20171210
US8671221 BB	20140311	US20110034239	20110224
US9043429 BB	20150526	US20140162953	20140124
US9515981 BB	20161206	US20150717267	20150520
US9866523 BB	20180109	US20160344512	20161106
WO12067862 A1	20120524	WO2011US59494	20111107

Priority:

US20100414641P 20101117 US20110034239 20110224 US20140162953 20140124
US20150717267 20150520 US20160344512 20161106 US20170836871 20171210

Probable Assignee: HOLA NEWCO LTD

Assignee(s): (std): HOLA INC ; HOLA NETWORKS LTD ; SHRIBMAN DERRY ; HOLA NEWCO LTD ; VILENSKI OFER ; SHRIBMAN DERRY B

Inventor(s): (std): VILENSKI OFER ; SHRIBMAN DERRY ; SHRIBMAN DERRY B

Agent(s): PETER A; SHEEHAN PHINNEY BASS AND GREEN PA; MAY PATENTS LTD C O DORIT SHEM TOV; MAY PATENTS LTD C O DORIL SHEM TOV; NIEVES PETER A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: AUTOMATED CONFIGURATION OF A VIRTUAL **PRIVATE** NETWORK

Abstract: Data is received by a service provider that is indicative of a selected server-side system and a selected client-side system between which a **VPN** is to be established. Security settings are then automatically determined for the client-side system based at least partially on the data. The security settings are preferably public and **private** keys and/or a Digital Certificate. **VPN** configuration details, including the security settings, are then automatically transmitted to the client-side system. The client side system then uses the configuration details to automatically configure itself to establish a secure **VPN** tunnel between the server-side system and itself. **VPN** configuration details may also be automatically transmitted to a **VPN** concentrator within the server-side system. A Virtual **Private** Network tunnel is subsequently established between the client-side system and the server-side system, and the tunnel's operation verified. A computer program product for configuring a **VPN** system is also provided. (147 words)

Classifications:

International (IPC 8-9): G06F15/16 H04L29/06

H04L29/08 (Advanced/Invention);

H04L29/08 (Advanced/Non-invention);

G06F15/16 H04L29/06 H04L29/08 (Core/Invention);

H04L29/08 (Core/Non-invention)

International (IPC 1-7): G06F15/173 H04L9/00

CPC: H04L67/14 H04L67/34 H04L69/329 H04L63/0272 H04L29/06

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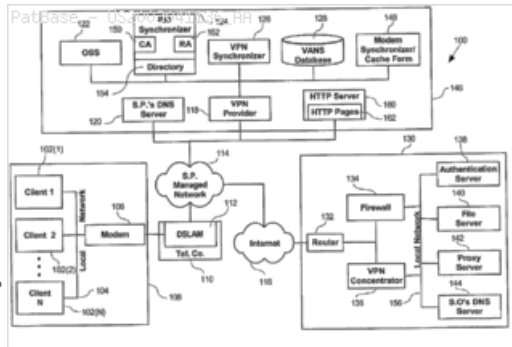
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T04L63/20

US: 370/252 379/93.01 709/22 709/220 709/220S 709/223 709/223P

713/201 726/15 726/15S



Family:

Publication number	Publication date	Application number	Application date
US2003041136 AA	20030227	US20010938443	20010823
US7197550 BB	20070327	US20010938443	20010823

Priority:

US20010938443 20010823

Probable Assignee: HUGHES ELECTRONICS CORP

Assignee(s): (std): DIRECTV GROUP INC ; HUGHES ELECTRONICS CORP

Inventor(s): (std): ZHANG YE ; MA MICHAEL ; CHONG LESTER J ; CHELINE DOUGLAS A

Agent(s): GEORGANN S

Title: SYSTEM AND **METHOD** FOR MONITORING AND ANALYZING INTERNET TRAFFIC

Abstract: A system and **method** for monitoring and analyzing Internet traffic is provided that is efficient, completely automated, and fast enough to handle the busiest websites on the Internet, processing data many times faster than existing systems. The system and **method** of the present invention processes data by reading log files produced by web servers, or by interfacing with the web server in real time, processing the data as it occurs. The system and **method** of the present invention can be applied to one website or thousands of websites, whether they reside on one server or multiple servers. The multi-site and sub-reporting capabilities of the system and **method** of the present invention makes it applicable to servers containing thousands of websites and entire on-line communities. In one embodiment, the system and **method** of the present invention includes e-commerce analysis and reporting functionality, in which data from standard traffic logs is received and merged with data from e-commerce systems. The system and **method** of the present invention can produce reports showing detailed "return on investment" information, including identifying which banner ads, referrals, domains, etc. are producing specific dollars.

Classifications:

International (IPC 8-9): C07K14/705 G06F15/16 G06F15/173

G06F17/30 G06F7/00 G06Q30/00 G06Q30/06 H04L12/24

H04L12/26 (Advanced/Invention);

A61K38/00 G06Q10/10 (Advanced/Non-invention);

C07K14/435 G06F15/16 G06F17/30 G06F7/00 G06Q30/00 H04L12/24

H04L12/26 (Core/Invention);

A61K38/00 (Core/Non-invention)

International (IPC 1-7): G06F15/16 G06F15/173 G06F7/00

CPC: H04L43/045 H04L43/06 H04L43/062 H04L43/065 H04L43/067 H04L43/106 H04L67/146 H04L67/22 H04L41/142

H04L41/22 G06Q10/10 A61K38/00 C07K14/705 G06Q30/06 Y10S707/99943 H04L43/0888 G06F17/30067 G06F17/30286

G06F17/30595

European: C07K14/705 G06F17/60B G06Q30/06 H04L12/24F3 H04L12/26M2B1 H04L29/08N13J H04L29/08N21 H04L41/22

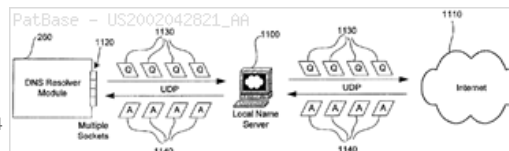
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T04L43/06 T04L43/06B T04L43/06C T04L43/10B

US: 1/1 707/10 707/102 707/803 707/999.01 707/999.102 709/203 709/203P 709/217 709/219 709/219P 709/223 709/223P

709/224 709/224P 709/224S 709/226 709/229 709/238 709/238S 715/749 715/749S



Family:

Publication number	Publication date	Application number	Application date
AU200078518 A1	20010510	AU20000078518	20001004
AU200078518 A5	20010510	AU20000078518	20001004
US2002042821 AA	20020411	US20010852264	20010510
US2005165889 AA	20050728	US20040799738	20040315
US2010049847 AA	20100225	US20090606683	20091027
US2012042051 AA	20120216	US20110233698	20110915
US2014025814 AA	20140123	US20130966433	20130814
US6792458 BA	20040914	US20000679297	20001004
US6804701 BB	20041012	US20010852264	20010510
US7610289 BB	20091027	US20040799738	20040315
US8032564 BB	20111004	US20090606683	20091027
US8554804 BB	20131008	US20110233698	20110915
US9185016 BB	20151110	US20130966433	20130814
WO0125896 A1	20010412	WO2000US27287	20001004

Priority:

US19990157649P	19991004	US20000679297	20001004	WO2000US27287	20001004
US20010852264	20010510	US20010893512	20010629	US20040799738	20040315
US20090606683	20091027	US20110233698	20110915	US20130966433	20130814

Probable Assignee: GOOGLE INC

Assignee(s): (std): GOOGLE INC ; QUANTIFIED SYSTEMS INC ; URCHIN SOFTWARE CORP ; MOON HUI SOK ; MURET PAUL N

Assignee(s): GOOGLE LLC

Inventor(s): (std): MOON HUI SOK ; MURET PAUL NICOLAS ; MURET PAUL N ; MOON HUI S

Inventor(s): MOON HUI ; HUI SOK MOON ; MURET PAUL ; PAUL NICOLAS MURET

Agent(s): FLESHNER AND KIM LLP; FISH AND RICHARDSON PC

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 CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Title: **METHOD** AND SYSTEM FOR ENABLING CONNECTIONS INTO NETWORKS WITH LOCAL ADDRESS REALMS

Abstract: The invention generally concerns the issue of providing connectivity between two different address realms, generally referred to as an inside realm and an outside realm, by establishing connections through an intermediate gateway. The gateway normally has a number of outside-realm gateway addresses for enabling representation of inside-realm nodes in the outside realm. In a first aspect, support for flexible outside-realm initiated connections is enabled by dynamically establishing new gateway connection states triggered, for each new connection, by a respective user-resource identifier query initiated from a corresponding outside node. In a second aspect of the invention, intelligent use of predetermined connection information in the process of setting up new gateway connection states makes it possible to significantly increase the number of connections that can be simultaneously supported by the gateway using a limited number of outside-realm addresses.

Classifications:

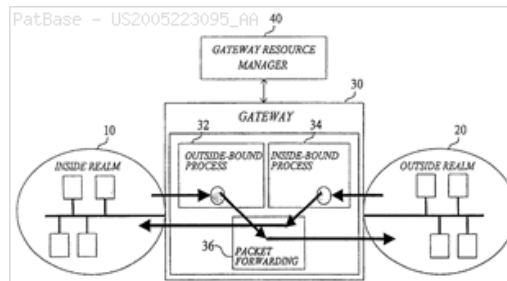
International (IPC 8-9): G06F15/16 G06F15/173 H04L12/46
H04L12/56 H04L12/66 H04L29/06 H04L29/12 (Advanced/Invention)

International (IPC 1-7): G06F15/173 H04L12/46 H04L12/56
H04L12/66 H04L29/06 H04L29/06 H04L29/12

CPC: H04L67/42 H04L29/12509 H04L29/12066 H04L29/12537
H04L29/12547 H04L61/1511 H04L61/2567 H04L61/2578
H04L61/2582

European: H04L29/06C8 H04L29/12A2A1 H04L29/12A4A8B
H04L29/12A4A8E H04L29/12A4A8F H04L61/15A1 H04L61/25A8B
H04L61/25A8E H04L61/25A8F T04L29/12A2

US: 709/223 709/225 709/225P 709/245



Family:

Publication number	Publication date	Application number	Application date
AU2003230768 AA	20031027	AU20030230768	20030328
CN101795303 A	20100804	CN201010118736	20030328
CN101795303 B	20120801	CN201010118736	20030328
CN1647489 A	20050727	CN20038007847	20030328
DE10392494 B4	20140130	DE20031092494	20030328
DE10392494 T5	20050217	DE20031092494T	20030328
GB200421206 A0	20041027	GB20040021206	20030328
GB2402586 A1	20041208	GB20040021206	20030328
GB2402586 B2	20051221	GB20040021206	20030328
HK1081353 A3	20060512	HK20060101139	20060125
IN02970DN2004 A	20091113	IN2004DN02970	20040930
IN264208 B	20141219	IN2004DN02970	20040930
JP2005522949 T2	20050728	JP20030585405T	20030328
JP4303600 B2	20090729	JP20030585405T	20030328
US2005223095 AA	20051006	US20030510546	20030328
US7533164 BB	20090512	US20030510546	20030328
WO03088625 A1	20031023	WO2003US09834	20030328

Priority:

US20020370812P 20020408 US20030510546 20030328 WO2003US09834 20030328
US20050510546 20050425

Probable Assignee: TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): (std): CHAMBERT GEORGE ; ERICSSON TELEFON AB L M ; ERICSSON TELEFON AB LM ; ERICSSON TELEFON L M AB ; ISMAILOV YURI ; KORLING MARTIN ; VOLZ BERNIE ; LANDFELDT BJORN ; TELEFONAKTIEBOLAGET LM ERICSSON

Assignee(s): TELEFONAKTIEBOLAGET LM ERICSSON PUBL STOCKHOLM ; TELEFONAKTIEBOLAGET L M ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) ; TELEFONAKTIEBOLAGET L M ERICSSON

Inventor(s): (std): CHAMBERT GEORGE ; ISMAILOV YURI ; KORLING MARTIN ; LANDFELDT BJORN ; VOLZ BERNIE ; YURI ISMAILOV ; MARTIN KORLING ; LANDFELDT BJOERN ; GEORGE CHAMBERT ; BJORN LANDFELDT ; BERNIE VOLZ

Inventor(s): CHAMBERT GEORG ; BJOERN LANDFELDT

Agent(s): ERICSSON INC ; NIXON AND VANDERHYE PC

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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: **METHODS** AND SYSTEMS FOR CONTROLLING ACCESS TO RESOURCES AND PRIVILEGES PER PROCESS

Abstract: To control privileges and access to resources on a per-process basis, an administrator creates a rule that may be applied to modify a token of a process. The rule may include an application-criterion set and changes to be made to the groups and/or privileges of the token. The rule may be set as a policy within a group policy object (GPO), where a GPO is associated with one or more groups of computers or users. When a GPO containing a rule is applied to a computer, a driver installed on the computer may access the rule(s) anytime a logged-on user executes a process. If the executed process satisfies the criterion set of a rule, the changes contained within the rule are made to the process token, and the user has expanded and/or contracted access and/or privileges for only that process.

Classifications:

International (IPC 8-9): G06F15/16 G06F21/00 G06F21/31
G06F21/44 G06F21/60 G06F21/62 G06F7/04 G06F9/46 H04L29/06
H04L9/32 (Advanced/Invention)

CPC: G06F21/604 G06F21/31 G06F9/468 G06F21/44 G06F21/6209

European: G06F21/60B G06F9/46V

US: 709/229 709/229S 713/167 726/19 726/28 726/29 726/9 726/9P



Family:

Publication number	Publication date	Application number	Application date
US2011030045 AA	20110203	US20100772914	20100503
US2015047025 AA	20150212	US20140522540	20141023
US2015074828 AA	20150312	US20140502845	20140930
US8850549 BB	20140930	US20100772914	20100503
US9558343 BB	20170131	US20140502845	20140930
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Priority:

US20090174513P 20090501 US20100772914 20100503 US20140502845 20140930
US20140522540 20141023

Probable Assignee: BEYONDTRUST INC

Assignee(s): (std): BEYONDTRUST SOFTWARE INC ; KOLISHCHAK ANDREY ; JENNINGS SHANNON E ; HOGAN ROBERT F ; BEAUREGARD PETER DAVID

Assignee(s): BEYONDTRUST CORP ; BEYONDTRUST INC ; WELLS FARGO CAPITAL FINANCE LLC AGENT AS ; FIFTH STREET MANAGEMENT LLC ; OAKTREE FUND ADMINISTRATION LLC

Inventor(s): (std): BEAUREGARD PETER DAVID ; HOGAN ROBERT F ; JENNINGS SHANNON E ; KOLISHCHAK ANDREY

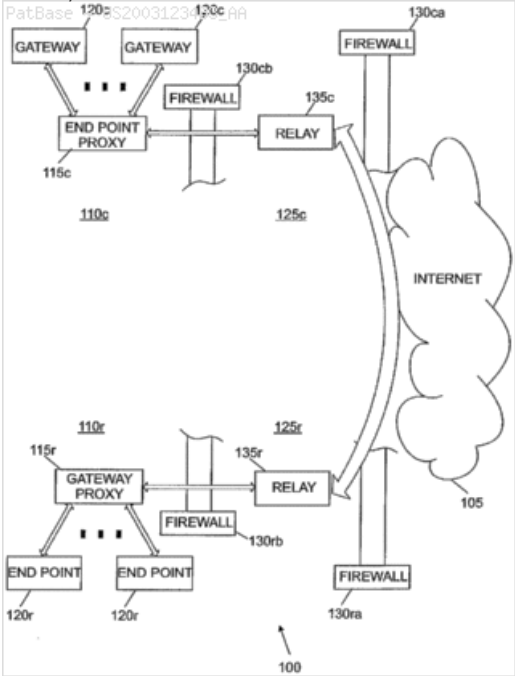
Agent(s): SHEPPARD MULLIN RICHTER AND HAMPTON LLP; KEVIN; HANKIN PATENT LAW APC; ANOOJ; SUSAN L

Title: **METHOD** AND SYSTEM FOR TRANSMITTING INFORMATION ACROSS FIREWALLS

Abstract: A **method** and a corresponding system for transmitting information across a plurality of firewalls (particularly in a multi-segmented DMZ) are disclosed. The proposed solution provides a layered communication stack. A connection manager (210) manages the actual transfer of data through a single point-to-point connection crossing a respective firewall. A sessions manager (220) multiplexes multiple sessions over the connection. A routing manager (225) exploits the sessions manager for building a routing table dynamically. A routed sessions manager (235) implements routed sessions between two applications at opposite ends of the system; the routed sessions manager exploits the sessions manager to let the data navigate through the firewalls, and it exploits the routing manager to address the data correctly from source to destination.

Classifications:

International (ipc 8-9): G06F15/16 G06F17/00 G06F21/00 G06F21/22 G06F9/00 H04L12/747 H04L29/06 H04L29/08 H04L9/00 H04L9/08 H04L9/30 (Advanced/Invention); H04L29/08 (Advanced/Non-invention); G06F15/16 G06F21/00 H04L29/06 H04L29/08 H04L9/00 H04L9/08 H04L9/28 (Core/Invention); H04L29/08 (Core/Non-invention)
International (ipc 1-7): G06F11/30 G06F12/14 G06F15/16 H04J3/22 H04L9/00 H04L9/32
CPC: H04L67/14 H04L69/329 H04L63/0218 H04L29/06 H04L45/742
European: H04L29/06 H04L29/06C6A H04L29/08N13 H04L29/08N27 H04L45/742 H04L63/02A1 T04L29/06C6M T04L29/08A7
US: 370/469 380/259 380/278 380/278P 709/217 709/217P 709/227 709/229 709/229P 709/238 713/201 726/11 726/12 726/12S 726/13 726/3 726/6



Family:

Publication number	Publication date	Application number	Application date
US2003123483 AA	20030703	US20020285999	20021031
US2003126230 AA	20030703	US20020290416	20021107
US2008130897 AA	20080605	US20070877352	20071023
US2009187667 AA	20090723	US20090389729	20090220
US7316028 BB	20080101	US20020290416	20021107
US7506058 BB	20090317	US20020285999	20021031
US7899914 BB	20110301	US20090389729	20090220
US8006296 BB	20110823	US20070877352	20071023

Priority:

EP20010480148 20011221 EP20010480154 20011228 US20020285999 20021031
US20020290416 20021107 US20070877352 20071023 US20090389729 20090220

Probable Assignee: ARUBA NETWORKS INC

Assignee(s): (std): IBM

Assignee(s): INT BUSINESS MACHINES CORP ; ARUBA NETWORKS INC ; HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP

Inventor(s): (std): LERRO MARCO ; DONATELLI ALEX

Agent(s): IBM CORP YA C O YEE AND ASSOCIATES PC; IBM CORP WIP C O WALDER INTELLECTUAL PROPERTY LAW PC; YEE DUKE W; LABAW JEFFREY S; GLANZMAN GERALD H; JEFFREY S; GERALD H; DUKE W; TKACS STEPHEN R; WALDER JR STEPHEN J; STEPHEN J; STEPHEN R; YEE AND ASSOCIATES PC

Title: SECURED SYSTEM FOR ACCESSING APPLICATION SERVICES FROM A REMOTE STATION

Abstract: A secured system for accessing application services from at least one application program where at least one client station having low-level application independent logics stored therein and at least one controller for controlling the low-level application independent logics, the low-level application logics including a user interface logic, a device control logic for controlling devices, a file system logic, and a communication interface logic, and wherein at least one client station has means to restrict access to said application independent logics, at least one application server having high-level application logic stored in a server device for running at least one application program, the server device being coupled to said at least one application server and low-level interface between said at least one client station and said at least one server for connecting said at least one client station to said at least one application server, wherein upon accessing by said at least one client station, said at least one application server runs at least one application program which selectively controls said low-level application independent logics for controlling devices of said at least one client station and accessing data of said at least one client station without permanently storing said at least one client station data in said at least one server. There is also a description of a secure operating system and **method** and a secured system and **method** of construction of a computer system as well as description of system and **method** of how to preserve a running current state of an application program for security and relocation purpose.

Classifications:

International (IPC 8-9): G06F1/00 G06F12/14 G06F15/163 G06F15/80 G06F21/00 G06F3/14 G06F9/00 G06F9/46 G06F9/50 H04L29/06 H04L29/08 (Advanced/Invention);

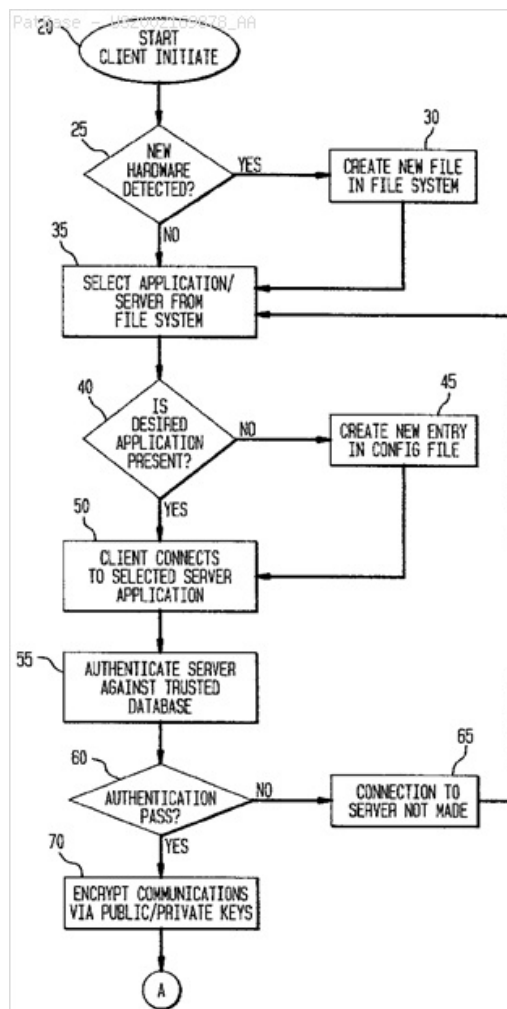
G06F1/00 G06F21/00 H04L29/06 H04L29/08 (Core/Invention)

International (IPC 1-7): G01F11/00 G06F G06F11/00 G06F12/14 G06F15/16 G06F15/163 G06F15/80 G06F19/00 G06F3/14 G06F9/00 G06F9/44 G06F9/46 G06F9/54 H04L

CPC: H04L67/08 H04L67/42 H04L69/329 H04L63/10 G06F21/6218 G06F9/5055 H04L29/06 H04L63/105

European: G06F1/00N7R2 G06F21/62B H04L29/06C6C H04L29/06C6D H04L63/10 T04L29/06C8 T04L29/08A7 T04L29/08N7

US: 395/187.01 395/200.33 395/200.59 709/203 709/219 709/219S 709/227 709/227P 709/229 713/201 719/310 719/310P 726/3 726/4

**Family:**

Publication number	Publication date	Application number	Application date
AU199857938 A1	19980715	AU19980057938	19971209
AU200040415 A1	20001114	AU20000040415	20000328
AU200040415 A5	20001114	AU20000040415	20000328
AU739561 B2	20011018	AU19980057938	19971209
CA2254936 AA	19981112	CA19972254936	19971209
EP0925544 A1	19990630	EP19970954066	19971209
EP0925544 A4	20010926	EP19970954066	19971209
EP1099154 A2	20010516	EP20000919791	20000328
EP1099154 A4	20060531	EP20000919791	20000328
IL126737 A0	19990817	IL19970126737	19971209
US2002169878 AA	20021114	US20020124051	20020417
US2002184398 AA	20021205	US20020124124	20020417
US5889942 A	19990330	US19960769493	19961218
US6393569 BA	20020521	US19990280264	19990329
WO0062459 A2	20001019	WO2000US08297	20000328
WO0062459 A3	20010215	WO2000US08297	20000328
WO9827501 A1	19980625	WO1997US22579	19971209

Priority:

US19960769493 19961218
WO2000US08297 20000328

WO1997US22579 19971209
US20020124051 20020417

US19990280264 19990329
US20020124124 20020417

Probable Assignee: ORENSHTEYN ALEXANDER S

Assignee(s): (std): ORENSHTEYN ALEXANDER S

Assignee(s): ALEXANDER S ORENSHTEYN

Inventor(s): (std): ORENSHTEYN ALEXANDER S

Inventor(s): ALEXANDER S ORENSHTEYN

Agent(s): APT PATENT AND TRADE MARK ATTORNEYS

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES
FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: SOFTWARE DEPLOYMENT AND CONTROL **METHOD** AND SYSTEM

Abstract: In one aspect, a **method** of monitoring a computer apparatus by means of a management system via a network is provided, the **method** comprising: establishing a connection between the computer apparatus and the management system via the network, the computer apparatus being located at a first location and the management system being located at a second location remote from the first location; installing a controller and creating on the computer apparatus at least one virtual machine, the or each virtual machine being monitored by the controller; monitoring one or more characteristics of the computer apparatus and/or the or each virtual machine and generating monitoring results based on the characteristics; and reporting the monitoring results to the management system via the network. A corresponding system may also be provided. In one embodiment, characteristics of the computer apparatus include the state of the at least one virtual machine or the state of the one or more programs running within the at least one virtual machine and monitoring results include state information indicative of the state. In a second aspect, a **method** and system of establishing a connection between a computer apparatus and a management system via a network, and a corresponding controller for connecting a virtual machine to a network. In a third aspect, a **method** of configuring a virtual machine is provided. In a fourth aspect, a **method** of controlling data flow between one or more peripheral devices and a virtual machine on a computing apparatus is provided.

Classifications:

International (IPC 8-9): G06F11/14 G06F11/30 G06F21/00

G06F21/62 G06F9/445 G06F9/455 H04L12/26 H04L29/06

H04L29/08 (Advanced/Invention)

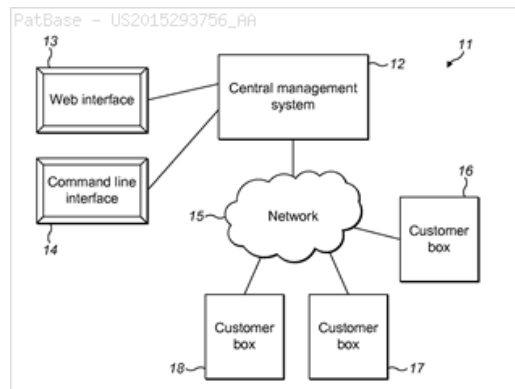
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G06F9/45558 H04L67/10 H04L43/10 G06F11/1464 H04L67/141

G06F2009/45591 G06F2201/875 G06F21/577

US: 717/178 718/1



Family:

Publication number	Publication date	Application number	Application date
CN104981784 A	20151014	CN201380060153	20131118
EP2917838 A2	20150916	EP20130799627	20131118
GB201220692 A0	20130102	GB20120020692	20121116
US2015293756 AA	20151015	US20130443317	20131118
WO14076447 A2	20140522	WO2013GB00495	20131118
WO14076447 A3	20141023	WO2013GB00495	20131118

Priority:

GB20120020692 20121116 WO2013GB00495 20131118

Probable Assignee: OVERNET DATA MANAGEMENT LTD

Assignee(s): (std): OVERNET DATA MAN LTD

Assignee(s): OVERNET DATA MANAGEMENT LIMITED ; OVERNET DATA MANAGEMENT LTD

Inventor(s): (std): WRIGHT ANTHONY

Agent(s): PATEL NIKESH; PATEL NIKESH ET AL

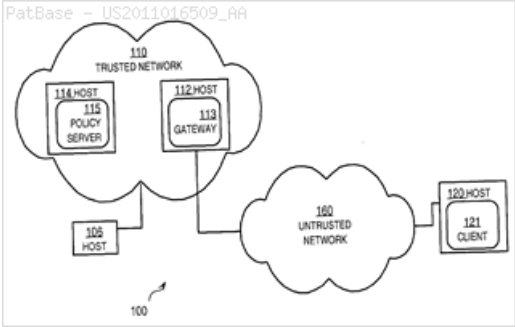
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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 TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **METHOD** AND APPARATUS FOR PASSING SECURITY CONFIGURATION INFORMATION BETWEEN A CLIENT AND A SECURITY POLICY SERVER

Abstract: Techniques for passing security configuration information between a security policy server and a client includes the client forming a request for security configuration information that configures the client for secure communications. The client is separated by an untrusted network from a trusted network that includes the security policy sever. A tag is generated that indicates a generic security configuration attribute. An Internet Security Association and Key Management Protocol (ISAKMP) configuration mode request message is sent to a security gateway on an edge of the trusted network connected to the untrusted network. The message includes the request in association with the tag. The gateway sends the request associated with the tag to the security policy server on the trusted network and does not interpret the request. The techniques allow client configuration extensions to be added by modifying the policy server or security client, or both, without modifying the gateway.

Classifications:

International (IPC 8-9): G06F21/00 H04L9/00 (Advanced/Invention)
CPC: H04L67/34 H04L63/062 H04L63/02 H04L63/102 H04L63/20
European: H04L63/06B H04L63/20 T04L29/08N33 T04L63/02 T04L63/10B
US: 713/153 713/154 726/1 726/1P



Family:

Publication number	Publication date	Application number	Application date
US2011016509 AA	20110120	US20100888289	20100922
US7849495 BA	20101207	US20020226887	20020822
US8261318 BB	20120904	US20100888289	20100922

Priority:

US20020226887 20020822 US20100888289 20100922

Probable Assignee: CISCO SYSTEMS INC

Assignee(s): (std): CISCO TECH INC ; HUANG GEOFFREY ; VILHUBER JAN

Assignee(s): CISCO TECHNOLOGY INC ; CISCO SYSTEMS INC

Inventor(s): (std): HUANG GEOFFREY ; VILHUBER JAN

Agent(s): HICKMAN PALERMO TRUONG AND BECKER LLP; HICKMAN PALERMO TRUONG BECKER BINGHAM WONG LLP; ADAM C

Title: **METHOD** FOR THE ROUTING AND CONTROL OF PACKET DATA TRAFFIC IN A COMMUNICATION SYSTEM

Abstract: The invention relates to a **method**, which comprising initiating the establishment of a security association between a client node and a gateway node. User data is obtained from an authentication server and the user is au-thenticated. Authorization is obtained for the user for certain network services from a separate authorization node. An authorized address is provided to the client node. The authorization is checked by the gateway node for the allowing outbound packets to specific destinations.

Classifications:

International (ipc 8-9): H04L12/28 H04L12/56 H04L12/66 H04L29/06

H04L9/32 (Advanced/Invention);

H04L12/28 H04L12/56 H04L12/66 H04L29/06

H04L9/32 (Core/Invention)

CPC: H04L65/1006 H04L65/1016 H04W12/06 H04L63/0272

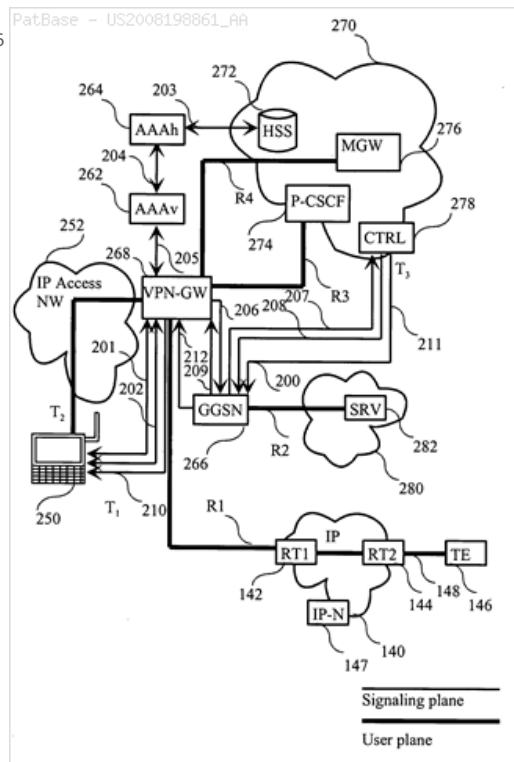
H04L63/162 H04W88/16 H04L67/14 H04L67/142 H04L67/143

H04L67/147 H04L63/0227

European: H04L29/08N13B H04L29/08N13C H04L29/08N13M

H04W12/06

US: 370/401 370/401P 726/4 726/4S



Family:

Publication number	Publication date	Application number	Application date
US2008198861 AA	20080821	US20070707020	20070216
US7809003 BB	20101005	US20070707020	20070216
WO08099062 A1	20080821	WO2008FI50060	20080213

Priority:

US20070707020 20070216

Probable Assignee: CONVERSANT WIRELESS LICENSING RL SA

Assignee(s): (std): MAEKELAE RIKU VILLE ; NOKIA CORP

Assignee(s): NOKIA 2011 PATENT TRUST ; MICROSOFT CORP ; 2011 INTELLECTUAL PROPERTY ASSET TRUST ; CONVERSANT WIRELESS LICENSING RL SA ; CORE WIRELESS LICENSING SARL ; CPPIB CREDIT INVESTMENTS INC

Inventor(s): (std): MAEKELAE RIKU VILLE ; MAKELA RIKU VILLE

Agent(s): SQUIRE SANDERS AND DEMPSEY LLP; HARRINGTON AND SMITH; PAPULA OY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CONNECTION SUPPORTING APPARATUS

Abstract: Provided is a connection supporting apparatus for supporting to establish a **VPN** through an IKE between a client and a gateway, comprising, a mode judging unit receiving authentication information of the client employed in the IKE, and judging whether or not a key exchange mode of the client is a main mode based upon the authentication information, a **VPN** setting request transmitting unit transmitting a **VPN** setting request to the gateway when the key exchange mode of the client is the main mode, the **VPN** setting request containing a client IP address as an authentication ID and information as to a communication key to be used when the client executes the IKE; and a notifying unit notifying both the communication key and the IP address to the client when the notifying unit receives a response with respect to the **VPN** setting request from the gateway.

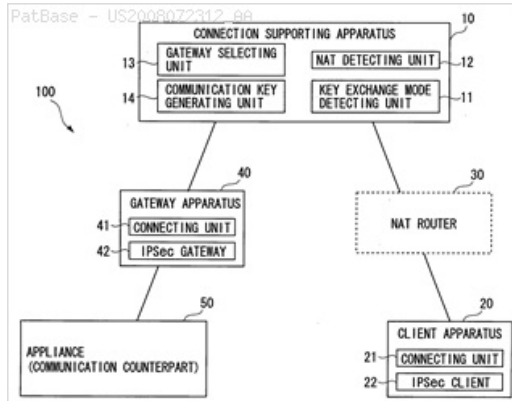
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International (IPC 8-9): G06F13/00 G06F15/16 H04L12/46 H04L12/56 H04L12/70 H04L29/00 H04L9/08 (Advanced/Invention); G06F15/16 H04L12/46 H04L12/56 H04L9/08 (Core/Invention)

CPC: H04L12/4641 H04L63/0272 H04L63/061

European: H04L12/46V H04L63/06A T04L63/02C

US: 713/153 713/171 726/14 726/15 726/15P

**Family:**

Publication number	Publication date	Application number	Application date
JP2008072473 A2	20080327	JP20060249533	20060914
JP4763560 B2	20110831	JP20060249533	20060914
US2008072312 AA	20080320	US20070700022	20070131
US8312532 BB	20121113	US20070700022	20070131

Priority:

JP20060249533 20060914

Probable Assignee: FUJITSU LTD

Assignee(s): (std): FUJITSU LTD ; KITADA ATSUSHI ; MATSUOKA NAOKI ; TAKEYOSHI HARUYUKI

Assignee(s): FUJITSU LIMITED

Inventor(s): (std): KITADA ATSUSHI ; MATSUOKA NAOKI ; TAKEYOSHI HARUYUKI

Agent(s): MATSUKURA HIDEMI; TOYAMA TSUTOMU; BINGHAM MCCUTCHEN LLP; MURPHY AND KING PC

Title: **METHOD** FOR AUTHENTICATING A USER TO A SERVICE OF A SERVICE PROVIDER

Abstract: **Methods**, devices, and computer programs for an authentication of a user to a service of a service provider (SP) are disclosed. Access for the user to the service of the service provider (SP) is requested. One or more authentication security profiles are selected by the service provider (SP) for specifying an authentication security requirement of the service provider (SP) for the authentication of the user to the service. An indication of the one or more selected authentication security profiles and a user identity identifying the user to an identity provider (IdP1) are sent from the service provider (SP) to the identity provider (IdP1) for requesting the authentication of the user by the identity provider (IdP1). The user is authenticated based on the user identity and one of the one or more selected authentication security profiles. An assertion indicating the authentication of the user to the service provider (SP) is sent to the service provider (SP).

Classifications:

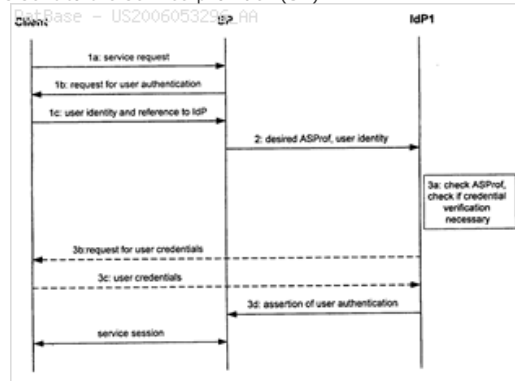
International (IPC 8-9): G06F1/00 G06F15/00 G06F21/20 G09C1/00 H04L29/06 H04L9/00 H04L9/32 (Advanced/Invention); G06F1/00 G06F15/00 H04L29/06 (Advanced/Non-invention)

International (IPC 1-7): G06F1/00 G06F15/00 G09C1/00 H04L29/06

CPC: H04L63/08 H04L63/083 H04L63/105 H04L63/20 H04L63/0815

European: H04L29/06C6C2 H04L29/06C6E H04L29/06S10D H04L29/06S20 H04L29/06S8D H04L63/08D H04L63/10D H04L63/20 T04L29/06C6M

US: 713/182 713/182P 726/4 726/4S 726/7



Family:

Publication number	Publication date	Application number	Application date
AT367043 E	20070815	AT20030737969T	20030523
AU2003245887 AA	20031212	AU20030245887	20030523
AU2003245887 AH	20031212	AU20030245887	20030523
CN1656773 A	20050817	CN20038011865	20030523
CN1656773 B	20100428	CN20038011865	20030523
DE60314871 D1	20070823	DE20036014871	20030523
DE60314871 T2	20080313	DE20036014871T	20030523
EP1508236 A2	20050223	EP20030737969	20030523
EP1508236 B1	20070711	EP20030737969	20030523
JP2005535006 T2	20051117	JP20040507932T	20030523
JP4668610 B2	20110413	JP20040507932T	20030523
KR100989487 B1	20101022	KR20047018941	20030523
KR20040105259 A	20041214	KR20047018941	20030523
US2006053296 AA	20060309	US20030513212	20030523
US2014101743 AA	20140410	US20130059966	20131022
WO03100544 A2	20031204	WO2003EP05421	20030523
WO03100544 A3	20040311	WO2003EP05421	20030523

Priority:

EP20020011440 20020524 EP20030737969 20030523 WO2003EP05421 20030523
 US20050513212 20050318 US20130059966 20131022

Probable Assignee: TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): (std): BUSBOOM AXEL ; ERICSSON TELEFON AB L M ; ERICSSON TELEFON AB LM ; ERICSSON TELEFON L M AB ; HOLTMANN'S SILKE ; QUINET RAPHAEL ; SCHUBA MARKO ; TELEFONAKTIEBOLAGET L M ERICSSON

Assignee(s): TELEFONAKTIEBOLAGET L M ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

Inventor(s): (std): BUSBOOM AXEL ; HOLTMANN'S SILKE ; QUINET RAPHAEL ; SCHUBA MARKO ; SILKE HOLTMANN'S ; RAPHAEL QUINET ; MARKO SCHUBA ; AXEL BUSBOOM

Agent(s): ERICSSON INC

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 SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: PER-USER FIREWALL

Abstract: A network device to provide per-user firewall capabilities. The network device identifies a user associated with a received frame and a role of the user. The network device determines the firewall actions to be taken for the frame based on the role of the associated user. The user role may be dynamically changed by an administrator or automatically. A user role may be altered based on the authentication level of the user. The network device provides a system where a customized authentication experience may be provided for each user and services and permissions may be managed on a per-user basis.

Classifications:

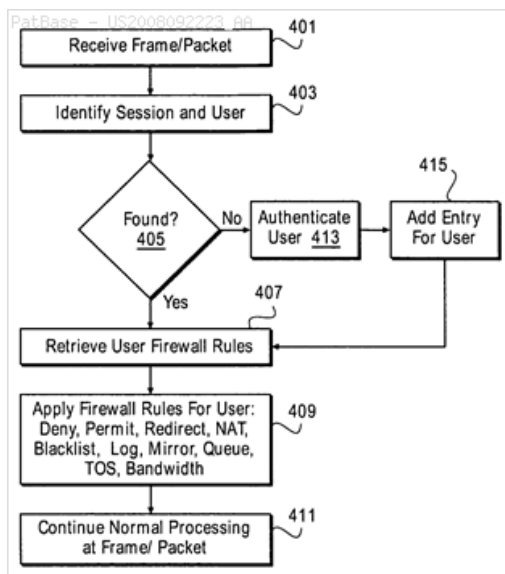
International (IPC 8-9): G06F15/16 G06F17/00 G06F9/00
H04L29/06 (Advanced/Invention);

G06F15/16 G06F17/00 G06F9/00 (Core/Invention)

CPC: H04L63/0227 H04L63/08 H04L63/101

European: H04L63/02B T04L63/08 T04L63/10A

US: 1/1 726/11 726/11P 726/13 726/13S 726/14 726/14S



Family:

Publication number	Publication date	Application number	Application date
US2008092223 AA	20080417	US20060582096	20061016
US9231911 BB	20160105	US20060582096	20061016

Priority:

US20060582096 20061016

Probable Assignee: ARUBA NETWORKS INC

Assignee(s): (std): ARUBA NETWORKS INC ; ARUBA WIRELESS NETWORKS ; MELKOTE KEERTI ; NAMBIAR BRIJESH ; TAYLOR JOHN ; SETIA DEEPINDER

Assignee(s): HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP

Inventor(s): (std): MELKOTE KEERTI ; NAMBIAR BRIJESH ; SETIA DEEPINDER ; TAYLOR JOHN

Agent(s): BLAKELY SOKOLOFF TAYLOR AND ZAFMAN; MANNAVA AND KANG PC

Title: BROKERING STATE INFORMATION AND IDENTITY AMONG USER AGENTS, ORIGIN SERVERS, AND PROXIES

Abstract: **Methods**, signals, devices, and systems are provided for using proxy servers to transparently forward messages between clients and origin servers if, and only if, doing so does not violate network policies. In some systems, a transparent proxy uses a combination of standard-format HTTP commands, embedding auxiliary information in URLs and other tools and techniques to redirect an initial client request to one or more policy modules, such as a login server or an identity broker or an access control server. The policy module authenticates the request, and uses HTTP redirection to have the client transmit authorization data to the proxy. The proxy extracts the authorization data, directs the client to use a corresponding cookie, and subsequently provides the implicitly requested proxy services to the client in response to the client's subsequently providing the authorization data in a cookie. This is accomplished without requiring installation of any invention-specific software or hardware on either the client or the origin server, and also works with proxy servers that are known to the client. Unless the client request violates network policy, a person using the client will generally perceive no reduction of services, and will instead benefit from the proxy's caching and/or other performance enhancements.

Classifications:

International (ipc 8-9): G06F15/173 H04L29/00 H04L29/06

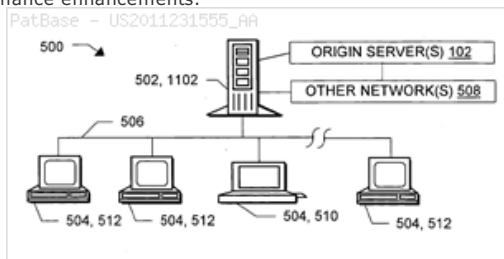
H04L29/08 (Advanced/Invention)

CPC: H04L67/2814 H04L63/102 H04L67/02 H04L67/2819

European: H04L29/06S10B H04L29/08N1 H04L29/08N27D

H04L29/08N27E H04L63/10B

US: 709/226 709/226P 709/227 709/229 713/159 713/160 713/161
713/165 713/166 713/179 726/10 726/12 726/9



Family:

Publication number	Publication date	Application number	Application date
US2011231555 AA	20110922	US20110118185	20110527
US7954144 BA	20110531	US20000484691	20000118
US8850017 BB	20140930	US20110118185	20110527

Priority:

US20000484691 20000118 US20110118185 20110527

Probable Assignee: RPX CORP

Assignee(s): (std): EBRAHIMI HASHEM MOHAMMAD ; MAJOR ROBERT DREW ; NOVELL INC

Assignee(s): RPX CORP ; RPX CLEARINGHOUSE LLC ; NOVELL INTELLECTUAL PROPERTY HOLDING INC ; NOVELL INTELLECTUAL PROPERTY HOLDINGS INC ; VOLERA INC ; JEFFERIES FINANCE LLC ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; CPTN HOLDINGS LLC

Inventor(s): (std): EBRAHIMI HASHEM MOHAMMAD ; MAJOR ROBERT DREW

Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA

Title: **METHOD** AND SYSTEM FOR CONTROLLING NETWORK ACCESS

Abstract: Systems and **methods** intended to control a network devices access to a network are disclosed. Embodiments of the current invention expose a **method** for confining a network client's network access to a specific logical region of the network. A network communication may be received and the client that originated this communication determined. This client is associated with a set of rules or walled garden that specifies the access allowed by that client. The destination of the communication may also be determined and if the destination is allowed by the set of rules associated with the client and access to the destination allowed if access to the destination is allowed by the set of rules.

Classifications:

International (IPC 8-9): G06F11/30 G06F12/14 G06F15/16
G06F15/173 G06F17/30 G06F9/00 H04K1/00 H04L29/02 H04L29/06
H04L9/00 H04L9/32 (Advanced/Invention);
G06F11/30 G06F12/14 G06F15/16 G06F17/30 H04K1/00 H04L29/02
H04L9/00 H04L9/32 (Core/Invention)

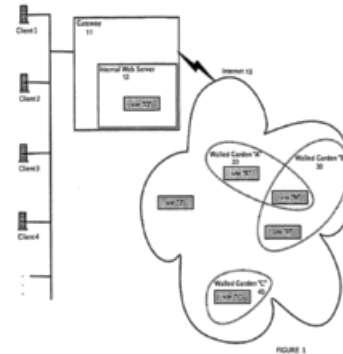
International (IPC 1-7): G06F11/30 G06F12/14 G06F15/16
G06F15/173 H04K1/00 H04L9/00 H04L9/32

CPC: H04L63/168 H04L63/08 H04L63/0263 H04L63/105

US: 709/224 709/225 709/229 713/182 713/201 726/1 726/11
726/12 726/2 726/22 726/3 726/5 726/5P

PatBase - US2005204050_AA

Patent Application Publication Sep. 15, 2005 Sheet 1 of 2 US 2005/0204050 A1



Family:

Publication number	Publication date	Application number	Application date
US2005204050 AA	20050915	US20050076591	20050310
US2005204168 AA	20050915	US20050076646	20050310
US2010064356 AA	20100311	US20090619560	20091116
US7665130 BB	20100216	US20050076646	20050310
US8356336 BB	20130115	US20090619560	20091116
US8543710 BB	20130924	US20050076591	20050310

Priority:

US20040551702P 20040310 US20040551705P 20040310 US20050076591 20050310
US20050076646 20050310 US20090619560 20091116

Probable Assignee: RPX CORP

Assignee(s): (std): RPX CORP ; TONNESEN STEVEN D ; TURLEY PATRICK ; WHITE ERIC ; JOHNSTON KEITH ; MARTIN JOHN

Assignee(s): ROCKSTEADY TECHNOLOGIES LLC ; JEFFERIES FINANCE LLC

Inventor(s): (std): JOHNSTON KEITH ; MARTIN JOHN ; TONNESEN STEVEN D ; TURLEY PATRICK ; WHITE ERIC

Inventor(s): TONNESEN STEVEN

Agent(s): SPRINKLE IP LAW GROUP; HOWISON AND ARNOTT LLP

Title: SECURITY SYSTEM WITH **METHODOLOGY** PROVIDING VERIFIED SECURED INDIVIDUAL END POINTS

Abstract: A security system with **methodology** providing verified secured individual end points is described. In one embodiment, for example, a **method** of the present invention is described for controlling access to a particular application, the **method** comprises steps of: defining firewall rules specifying filtering conditions for incoming network traffic, the firewall rules including an application attribute that allows individual rules to be associated with specific applications, the firewall rules also including extended attributes that allow specification of additional conditions that a given end point is required to meet; intercepting incoming network traffic destined for a particular application for which a particular application-specific firewall rule has been created; examining the extended attributes for the particular application-specific firewall rule, for determining what additional conditions the given end point must comply with in order to communicate with the particular application; if the given end point complies with the additional conditions, allowing the end point to communicate with the particular application; and otherwise blocking the end point to prevent communication with the particular application.

Classifications:

International (ipc 8-9): G06F11/30 G06F12/14 H04L29/06 H04L9/00 H04L9/32 (Advanced/Invention);

G06F11/30 G06F12/14 H04L29/06 H04L9/00 H04L9/32 (Core/Invention)

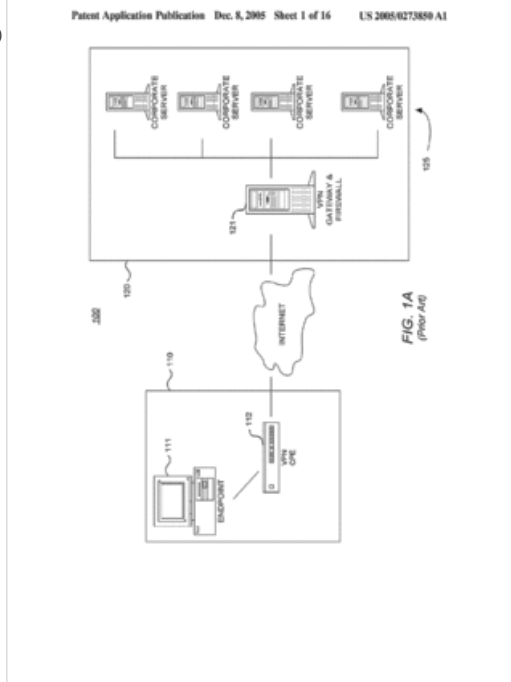
International (ipc 1-7): G06F11/30 G06F12/14 H04L9/00 H04L9/32

CPC: H04L63/0227 H04L63/0428 H04L63/0823 H04L63/166 H04L63/20

European: H04L29/06C6 H04L29/06S16E H04L29/06S20 H04L29/06S2B H04L29/06S4B H04L29/06S8C H04L63/02B H04L63/04B H04L63/08C H04L63/16D H04L63/20

US: 713/152 713/187 714/E11.207 714/E11.207S 726/1 726/11 726/14 726/14P 726/2 726/22 726/23 726/24 726/25 726/3 726/4

PatBase - US2005273850_AA



Family:

Publication number	Publication date	Application number	Application date
US2005273850 AA	20051208	US20050907331	20050329
US8136149 BB	20120313	US20050907331	20050329

Priority:

US20040521623P 20040607 US20050907331 20050329

Probable Assignee: CHECK POINT SOFTWARE TECHNOLOGIES INC

Assignee(s): (std): CHECK POINT SOFTWARE TECH LTD ; CHECK POINT SOFTWARE TECHNOLOG ; CHECK POINT SOFTWARE TECHNOLOGIES INC ; FREUND GREGOR PAUL

Inventor(s): (std): FREUND GREGOR PAUL ; FREUND GREGOR P

Inventor(s): FREUND GREGOR

Agent(s): JOHN A SMART; JOHN A; G MACK

Title: SYSTEM AND **METHOD** FOR ADDRESS BLOCK ENHANCED DYNAMIC NETWORK POLICY MANAGEMENT

Abstract: A **method**, computer readable medium, and system for acquiring address block information for an attached function that initiates network access on a distributed computing network. Additional policy information is acquired concerning the attached function. One or more access policies are set based, at least in part, on the address block information and the additional policy information.

Classifications:

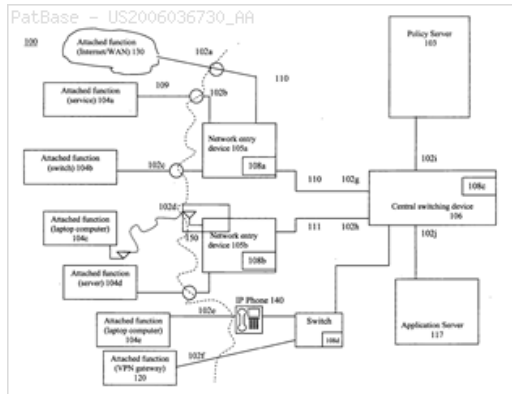
International (ipc 8-9): G06F11/30 G06F12/14 G06F15/173
G06F7/04 G06F9/445 H04L12/24 H04L12/26 H04L29/06 H04L29/08
H04L9/00 H04L9/32 (Advanced/Invention);
G06F12/14 G06F15/16 H04L12/24 H04L12/26 (Core/Invention)

International (ipc 1-7): G06F15/173

CPC: H04L67/025 H04L67/125 H04L29/12009 H04L29/12801
H04L29/12839 H04L61/6004 H04L61/6022 H04L63/20 H04L43/00
H04L41/042 H04L63/1416 H04L63/1441

European: H04L12/24B1 H04L12/26M H04L29/06S14A1
H04L29/06S14D H04L29/08N11M H04L29/08N1A H04L29/12A
H04L29/12A9A H04L29/12A9D11 H04L41/04A H04L43/00 H04L61/00
H04L61/60A H04L61/60D11 H04L63/14A1 H04L63/14D
T04L29/06C6M T04L63/20

US: 709/224 709/224P 709/224S 713/151 713/152 713/153 726/22
726/22P 726/27 726/28 726/29 726/3 726/30 726/4



Family:

Publication number	Publication date	Application number	Application date
EP1725946 A2	20061129	EP20050724113	20050225
EP1725946 A4	20120711	EP20050724113	20050225
US2006036730 AA	20060216	US20050199552	20050808
US2006037075 AA	20060216	US20050066622	20050225
US7945945 BB	20110517	US20050199552	20050808
WO05091901 A2	20051006	WO2005US06503	20050225
WO05091901 A3	20060202	WO2005US06503	20050225

Priority:

US20040552000P 20040310 US20040552000P 20040310 US20040599626P 20040806
WO2005US06503 20050225 US20050066622 20050225 US20050199552 20050808

Probable Assignee: EXTREME NETWORKS INC

Assignee(s): (std): ENTERASYS NETWORKS INC ; FRATTURA DAVID E ; GRAHAM RICHARD ; GRAHAM RICHARD W ; ROESE JOHN

Assignee(s): SILICON VALLEY BANK ; EXTREME NETWORKS INC ; BANK OF MONTREAL

Inventor(s): (std): GRAHAM RICHARD ; ROESE JOHN ; GRAHAM RICHARD W ; FRATTURA DAVID E

Inventor(s): FRATTURA DAVID

Agent(s): GROSSMAN TUCKER PERREAULT AND PFLEGER PLLC; HOLLAND AND KNIGHT LLP; BRIAN J; J MITCHELL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG 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 NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DYNAMIC WALLED GARDEN

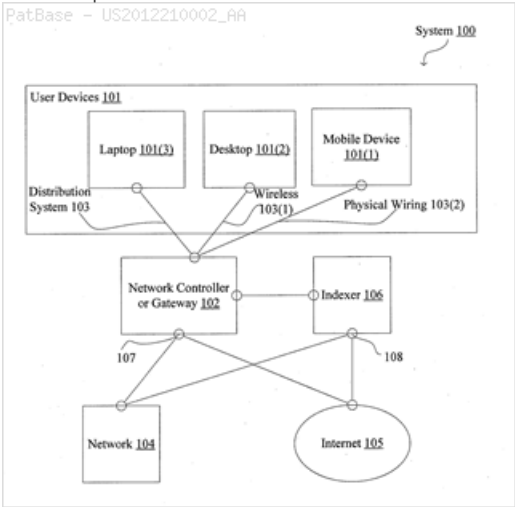
Abstract: A dynamic walled garden access **method**, apparatus, and system for a **local area** network. The walled garden access **method** comprises configuring an indexer to automatically and periodically populate a list of additional permitted locations in a predefined fashion based on a list of initial permitted locations; intercepting, by a network controller/gateway, an access request from a user device; and configuring the network controller/gateway to allow the access request if the access request is on the list of initial permitted locations or the list of additional permitted locations.

Classifications:

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

CPC: G06F21/6218 H04L63/102 H04L63/101

US: 709/225 709/225P



Family:

Publication number	Publication date	Application number	Application date
US2012210002 AA	20120816	US20120372198	20120213

Priority:

US20110463285P 20110215	US20120372198 20120213
Probable Assignee:	ALL CITY WIRELESS
Assignee(s): (std):	MCQUADE PHILIP A
Assignee(s):	ALL CITY WIRELESS
Inventor(s): (std):	MCQUADE PHILIP A

Title: ESTABLISHMENT OF A SECURE COMMUNICATION

Abstract: There is proposed a mechanism for establishing a secure communication between network elements in a communication network. The network nodes execute an authentication procedure with an authentication network element. The authentication network may also one of the network elements as a gateway element. Then, a respective data key for the network elements authenticated is generated and distributed to the gateway element by using a secure channel between the authentication network element and the gateway element. The data keys are stored the data keys in the gateway element. When a secure communication is to be setup, a respective session key is generated in the network elements intending to participate in the secure communication. The session keys are exchanged between the network elements intending to participate in the secure communication via secure channels between the gateway element and the network elements.

Classifications:

International (IPC 8-9): G06F15/00 G06F15/16 G06F17/00 G06F9/00 H04L29/06 H04L9/00 H04L9/08 H04L9/14 H04L9/32

H04W12/06 (Advanced/Invention);

H04W12/04 H04W12/06 H04W76/02 H04W88/16 (Advanced/Non-invention);

G06F15/00 G06F15/16 G06F17/00 G06F9/00 H04L29/06 H04L9/00 H04L9/08 H04L9/14 H04L9/32 H04W12/00 (Core/Invention);

H04W76/00 H04W88/00 (Core/Non-invention)

International (IPC 1-7): H04L29/06

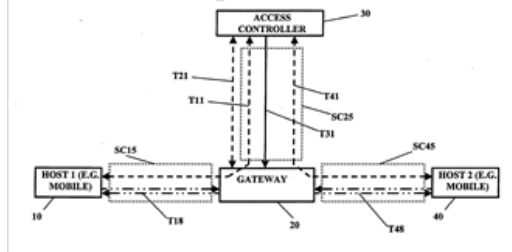
CPC: G06F15/16 H04W12/02 H04W12/04 H04L63/0272 H04L63/08

H04W12/06 H04W88/16 H04L9/0894 H04L9/14 H04W76/10

European: H04L29/06C6C2 H04L63/02C H04L63/08 H04W12/06 T04W76/02 T04W88/16

US: 713/153 713/153S 713/171 713/171P 726/12 726/12S 726/15 726/15S

PatBase - US2006248337_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN101204065 A	20080618	CN200680019517	20060428
EP1875709 A1	20080109	EP20060728079	20060428
IN07896DN2007 A	20080704	IN2007DN07896	20071012
JP2008539643 T2	20081113	JP20080508402T	20060428
KR100922679 B1	20091019	KR20077024781	20060428
KR20080002894 A	20080104	KR20077024781	20060428
US2006248337 AA	20061102	US20050159146	20050623
US2007198837 AA	20070823	US20060412864	20060428
WO06117738 A1	20061109	WO2006IB51336	20060428

Priority:

US20050675858 20050429
US20060412864 20060428

US20050675858P 20050429
WO2006IB51336 20060428

US20050159146 20050623
WO2006IB51336 20071026

Probable Assignee: NOKIA CORP

Assignee(s): (std): FORSBERG DAN ; KOODLI RAJEEV ; NOKIA CORP

Inventor(s): (std): DAN FORSBERG ; FROSBERG DAN ; KOODLI RAJEEV ; RAJEEV KOODLI ; FORSBERG DAN

Agent(s): SQUIRE SANDERS AND DEMPSEY LLP

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

Title: DYNAMIC VIRTUAL **PRIVATE** NETWORK (**VPN**) RESOURCE PROVISIONING USING A DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP) SERVER, A DOMAIN NAME SYSTEM (DNS) AND/OR STATIC IP ASSIGNMENT

Abstract: A **method** of provisioning resources, which includes hosting at least one resource at a first site. A secure connection is established between the first site and a second site, and a listing of available resources is exported to the second site. The second site publishes the listing of available resources to at least one client and at least one resource from the first site to second site is provisioned by providing the at least one client with an IP address of the at least one resource.

Classifications:

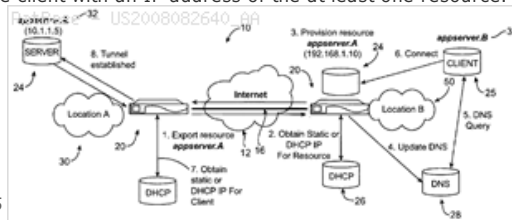
International (ipc 8-9): G06F13/00 G06F15/177 H04L12/28
H04L12/46 H04L12/66 H04L29/06 H04L29/12 (Advanced/Invention);
G06F15/16 H04L12/46 H04L12/66 H04L29/06

H04L29/12 (Core/Invention)

CPC: H04L29/12367 H04L29/12066 H04L61/1511 H04L61/2015
H04L61/2514 H04L63/0272

European: H04L29/12A2A1 H04L29/12A3A1 H04L29/12A4A1B
H04L61/15A1 H04L61/20A1 H04L61/25A1B T04L63/02C

US: 370/395.3 370/397 709/220 709/220P 709/229 709/229S 726/15



Family:

Publication number	Publication date	Application number	Application date
CN101184015 A	20080521	CN200710151832	20070920
CN101184015 B	20130320	CN200710151832	20070920
US2008082640 AA	20080403	US20060541179	20060929
US8249081 BB	20120821	US20060541179	20060929

Priority:

US20060541179 20060929

Probable Assignee: ARRAY NETWORKS INC

Assignee(s): (std): ARRAY NETWORKS INC ; CHANG ARTHUR ; HSU NAI TING ; WU MICHAEL ; YEN LEEMAY ; ZHAO LINGYAN

Inventor(s): (std): ARTHUR CHANG ; CHANG ARTHUR ; HSU NAI TING ; LEEMAY YEN ; LINGYAN ZHAO ; MICHAEL WU ; WU MICHAEL ; YEN LEEMAY ; ZHAO LINGYAN

Agent(s): BUCHANAN INGERSOLL AND ROONEY PC

Title: USING PERMISSIONS TO ALLOCATE DEVICE RESOURCES TO AN APPLICATION

Abstract: Resources to a device are granted access to an application based on privileges associated with the application. A permission list may be created by a server. The permission list may be created using information from authorities, entities, or parties and information about the device resources. The permission list indicates what device resources the application may access. During application execution when the application requests a resource, a control program executing on the device may be used to check the permission list associated with the application to determine if the application may access the resource. The control program can then grant or deny access based on the privileges defined in the permission list. Digital signatures may be used to detect modifications to the application and/or permission list. In addition, multiple permission lists may be associated with the same application.

Classifications:

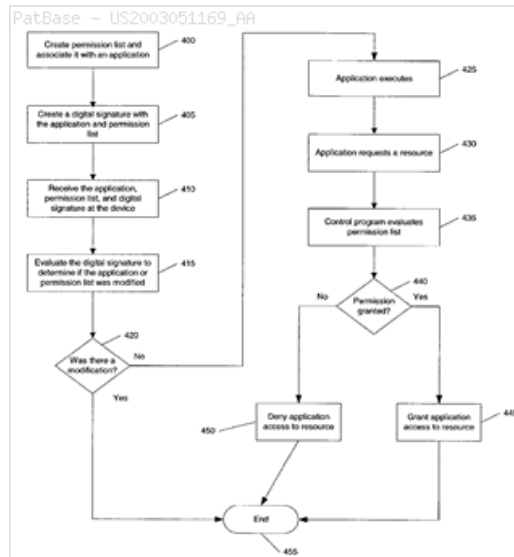
International (IPC 8-9): G06F15/177 G06F17/00 G06F21/00 G06F21/20 G06F21/22 G06F7/04 G06F9/46 G06K9/00 H04K9/00 H04L9/32 (Advanced/Invention); G06F15/177 H04L12/28 (Advanced/Non-invention); G06F15/16 (Core/Invention)

International (IPC 1-7): G06F1/00 G06F15/00 G06F15/177 G06F17/00 G06F17/60 G06F21/00 H04L9/00

CPC: H04L63/101 H04L63/12 G06F21/53 G06F9/468 G06F21/54 H04W12/06 H04W12/08

European: G06F21/53 G06F21/54 G06F9/46V T04W12/06 T04W12/08 T04W212/06 T04W272/04 T04W274/00 T04W36/04 T04W36/08 T04W6/06

US: 380/249 713/170 713/185 713/185S 713/193 713/194 713/201 726/2 726/27 726/28 726/29 726/3 726/4 726/4P 726/5 726/6 726/7

**Family:**

Publication number	Publication date	Application number	Application date
AR037011 AA	20041020	AR2002P103050	20020813
AU2002326629 AA	20030318	AU20020326629	20020813
BRPI0211884 A	20040921	BR2002P111884	20020813
CA2457357 AA	20040212	CA20022457357	20020813
CL2002001820 A1	20030711	CL20020001820	20020812
CN1556959 A	20041222	CN20028018504	20020813
EP1417588 A1	20040512	EP20020761353	20020813
EP1417588 A4	20080109	EP20020761353	20020813
HK1070158 A3	20050610	HK20050102745	20050401
IL160341 A0	20040725	IL20020160341	20020813
IN00307CN2004 A	20051223	IN2004CN00307	20040213
IN232202 B	20090327	IN2004CN00307	20040213
JP2005502128 T2	20050120	JP20030525489T	20020813
JP4351046 B2	20091028	JP20030525489T	20020813
KR100607423 B1	20060801	KR20037002152	20020815
KR20040015703 A	20040219	KR20037002152	20020815
MXPA04001386 A1	20040603	MX2004PA01386	20020813
NZ531131 A	20051223	NZ20020531131	20020813
PE03772003 A1	20030412	PE20020000728	20020813
RU2004107491 A	20050920	RU20040107491	20020813
RU2307390 C2	20070927	RU20040107491	20020813
TWI281107 B	20070511	TW20020118210	20020813
US2003051169 AA	20030313	US20020218321	20020813
US7743407 BB	20100622	US20020218321	20020813
WO03021467 A1	20030313	WO2002US25746	20020813

Priority:

US20010312146P 20010813 US20020218321 20020813 WO2002US25746 20020813
 WO2002US25746 20020815

Probable Assignee: QUALCOMM INC

Assignee(s): (std): LUNDBLADE LAURENCE ; QUALCOMM INC ; SPRIGG STEPHEN A

Assignee(s): KVEHLKOMM INKORPOREJTED ; QUALCOMM INC A DELAWARE CORP

Inventor(s): (std): LAURENCE LUNDBLADE ; LUNDBLADE LAURENCE ; SPRIGG STEPHEN A ; STEPHEN A SPRIGG ; SPRIGG STEFEN A ; LANDBLEHJD LORENS

Inventor(s): SPRIGG STEPHEN ; LUNDBLADE LAURENCE

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; JOHANSSON; ROBERT J; JAMES T

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 US UZ VC VN YU ZA ZM ZW

Title: **METHOD** AND APPARATUS FOR COMMUNICATING AUTHORIZATION DATA

Abstract: A permission level associated with a child's access to a Web server is identified. A relationship ticket is obtained from an authentication server and a request is generated to set the identified permission level. The request and the relationship ticket are sent to the Web server and a success code is received from the Web server if the requested permission level is established.

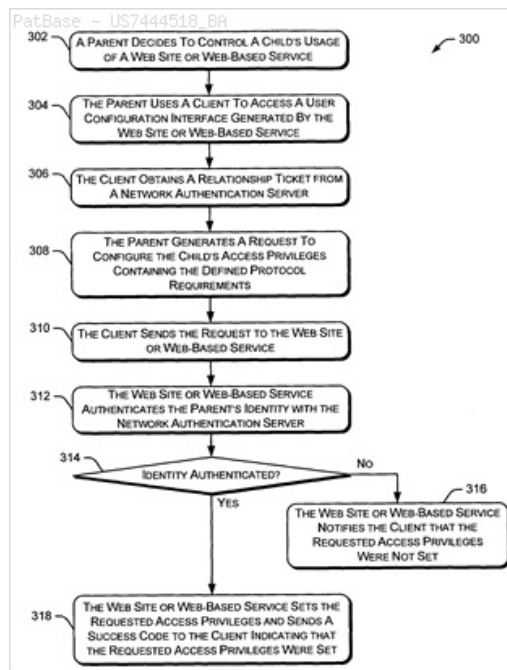
Classifications:

International (IPC 8-9): H04K1/00 (Advanced/Invention)

CPC: H04L63/0807 H04L63/166

European: H04L63/08A T04L63/16D

US: 705/67 705/72 705/76 709/219 709/225 709/229 713/168 713/182 713/185 726/10 726/2 726/3 726/9



Family:

Publication number	Publication date	Application number	Application date
US7444518 BA	20081028	US20030674105	20030929
US7844826 BA	20101130	US20080206371	20080908
US7849324 BA	20101207	US20080207299	20080909
US8560861 BA	20131015	US20080209855	20080912

Priority:

US20030478748P 20030616 US20030674105 20030929 US20080206371 20080908
 US20080207299 20080909 US20080209855 20080912

Probable Assignee: MICROSOFT CORP

Assignee(s): (std): DHARMARAJAN BASKARAN ; MATHEW ASHVIN J ; MICROSOFT CORP ; PAYA ISMAIL CEM

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): DHARMARAJAN BASKARAN ; MATHEW ASHVIN ; MATHEW ASHVIN J ; PAYA CEM ; PAYA ISMAIL CEM

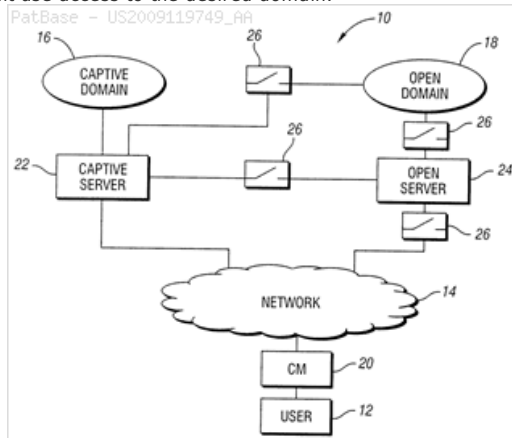
Agent(s): LEE AND HAYES PLLC

Title: **METHOD** AND SYSTEM FOR DIRECTING USER BETWEEN CAPTIVE AND OPEN DOMAINS

Abstract: A **method** for limiting user access to a captive domain or an open domain. The captive domain may include electronically accessible content that is selected/controlled by a service provider and the open domain may include electronically accessible content that is not completely selected/controlled by the service provider. The **method** may include configuring a modem or other user device in such a manner as to limit use access to the desired domain.

Classifications:

International (IPC 8-9): G06F15/16 G06F17/30 G06F21/20 G06F7/04
H04L12/22 H04L12/28 H04L12/911 H04L29/06 H04L29/08
H04L9/32 (Advanced/Invention);
G06F15/16 G06F17/30 G06F7/04 H04L12/28 H04L12/56
H04L29/08 (Advanced/Non-invention);
G06F17/30 G06F21/00 (Core/Invention)
CPC: H04L47/70 H04L63/10 H04L67/2814 H04L67/289
European: H04L63/10 T04L29/08N27D T04L29/08N27X8
US: 370/389 709/225 709/225P 709/229 709/249 726/3 726/3P



Family:

Publication number	Publication date	Application number	Application date
CA2700625 AA	20100322	CA20082700625	20081028
DE602008041712 D1	20160211	DE200860041712T	20081028
EP2210199 A1	20100728	EP20080846111	20081028
EP2210199 A4	20110316	EP20080846111	20081028
EP2210199 B1	20151223	EP20080846111	20081028
US2009119749 AA	20090507	US20070933669	20071101
US2012096160 AA	20120419	US20110336672	20111223
US2014143420 AA	20140522	US20130051025	20131010
US2017353393 AA	20171207	US20170461015	20170316
US8108911 BB	20120131	US20070933669	20071101
US8601545 BB	20131203	US20110336672	20111223
US9654412 BB	20170516	US20130051025	20131010
WO09058756 A1	20090507	WO2008US81422	20081028

Priority:

US20070933669 20071101 EP20080846111 20081028 WO2008US81422 20081028
US20110336672 20111223 US20130051025 20131010 US20170461015 20170316

Probable Assignee: COMCAST CABLE COMMUNICATIONS LLC

Assignee(s): (std): AVIRNENI SRINI ; C O COMCAST CABLE COMMUNICATIONS LLC ; COMCAST CABLE COMM LLC ; COMCAST CABLE HOLDINGS LLC ; DATLA RAJU

Assignee(s): COMCAST CABLE HOLDINGS LLC PHILADELPHIA ; COMCAST CABLE COMMUNICATOINS LLC ; COMCAST CABLE COMMUNICATIONS LLC

Inventor(s): (std): DATLA RAJU ; AVIRNENI SRINI

Inventor(s): DATLA RAJU CHERRY HILL ; AVIRNENI SRINI CHESTER SPRINGS

Agent(s): BORDEN LADNER GERVAIS LLP; PATENTANWALTE SCHOLZ AND PARTNER; WATTERSON PEER MARTEN JOHN; CHEW KWAN CHONG DANIEL; BROOKS KUSHMAN PC; BANNER AND WITCOFF LTD; BUSER JOHN R ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SYSTEM AND **METHOD** FOR MANAGING NETWORK SERVICE ACCESS AND ENROLLMENT

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.

Classifications:**International (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 (IPC 1-7): G06F11/30 G06F12/14 G06F15/00

G06F15/173 H04L9/00 H04L9/32

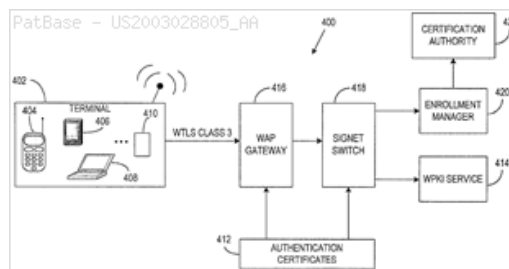
CPC: H04L63/0823 H04L63/10 H04W4/00 H04W12/06 H04W12/08

H04W60/00 H04W74/00

European: H04L29/06C6C2 H04L63/08C H04W12/06

T04L29/06C6D4A T04L63/10 T04W12/08 T04W4/00 T04W60/00

T04W74/00

US: 709/229 709/229S 713/201 726/27 726/28 726/29 726/4 726/6 726/6P**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	WO20021B02991	20020801
WO03014860 A3	20030605	WO20021B02991	20020801
WO03014860 C1	20040304	WO20021B02991	20020801

Priority:

US20010922440 20010803

EP20020749230 20020801

WO20021B02991 20020801

Probable Assignee: NOKIA TECHNOLOGIES OY**Assignee(s):** (std): NOKA OY ; NOKIA CORP ; NOKIA INC**Assignee(s):** NOKIA TECHNOLOGIES OY**Inventor(s):** (std): LAHTENMAKI M ; LAHTENMAKI MARKKU ; M LAHTENMAKI ; LAHTENMAEKI MARKKU**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

Title: **METHOD**, SYSTEM, PACKET DATA GATEWAY AND COMPUTER PROGRAM FOR PROVIDING CONNECTION FOR DATA DELIVERY

Abstract: The invention relates to a **method** for providing a connection for data delivery in a communication system comprising at least two communication devices, a packet data gateway, and an authentication server, the **method** comprising: requesting (202) a virtual **private** network tunnel connection by a first communication device; requesting (204) a virtual **private** network tunnel connection by a second communication device; establishing (206) the virtual **private** network tunnels by using an authentication procedure, the authentication procedure producing user identification information; mapping (208) the user identification information and a predetermined web address of each communication device and storing the mapped information in a mapping data base; checking (210) predetermined access allowance information from the mapping data base; and if the communication devices are allowed to access each other, transmitting (214) data between the communication devices via a packet data gateway.

Classifications:

International (IPC 8-9): H04L12/46 H04L29/06

H04W12/08 (Advanced/Invention);

H04L12/46 H04L29/06 H04W12/00 (Core/Invention)

CPC: H04L12/4633 H04L63/0272 H04L63/0892 H04W12/08

H04L63/101 H04L63/162 H04W12/06

European: H04L12/46E H04L29/06S2C H04L63/02C H04L63/08K
H04W12/08

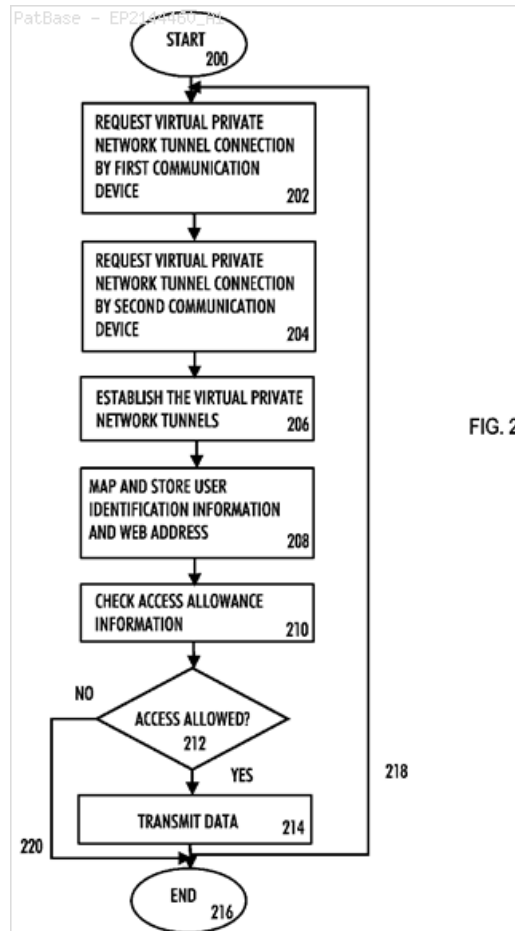


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
DE602008041083 D1	20151224	DE200860041083T	20080710
DK2144460 T3	20160208	DK20080160082T	20080710
EP2144460 A1	20100113	EP20080160082	20080710
EP2144460 B1	20151111	EP20080160082	20080710

Priority:

EP20080160082 20080710

Probable Assignee: TELIASONERA AB

Assignee(s): (std): TELIASONERA AB

Inventor(s): (std): ERKKILAE ANTTI

Inventor(s): ERKKILAE ANTTI 01600

Agent(s): OFFICE FREYLINGER SA; NYLUND SOLVEIG HELENA; KOLSTER OY AB

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: **METHODS** AND APPARATUS FOR IMPLEMENTING A SEARCH TREE

Abstract: Apparatus and **methods** are provided for implementing a firewall in a network infrastructure component. A **method** comprises generating a search tree for a plurality of rules. The search tree comprises a first node having a first field bounds and a first set of rules of the plurality of rules, and a plurality of child nodes for the first node. Each child node has child field bounds based on an intersection of the first field bounds and the first set of rules, and each child node is assigned a respective subset of the first set of rules based on the respective child field bounds. The **method** further comprises receiving a first packet, identifying a first child node of the plurality of child nodes based on values for one or more fields of the first packet, and applying the respective subset of rules assigned to the first child node to the first packet.

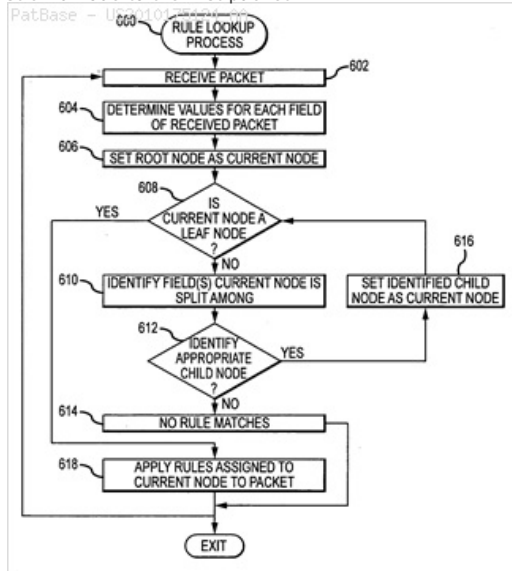
Classifications:

International (IPC 8-9): G06F21/00 H04L29/06 (Advanced/Invention); G06F21/00 (Core/Invention)

CPC: H04L63/0263

European: G06F17/30Z1T H04L63/02B6

US: 713/153 726/13 726/13P



Family:

Publication number	Publication date	Application number	Application date
US2010175124 AA	20100708	US20090349924	20090107
US8171539 BB	20120501	US20090349924	20090107

Priority:

US20090349924 20090107

Probable Assignee: EXTREME NETWORKS INC

Assignee(s): (std): MIRANDA TREVOR ; SYMBOL TECHNOLOGIES INC

Assignee(s): SYMBOL TECHNOLOGIES LLC ; SILICON VALLEY BANK ; MORGAN STANLEY SENIOR FUNDING INC
COLLATERAL AGENT AS ; BANK OF MONTREAL ; EXTREME NETWORKS INC

Inventor(s): (std): MIRANDA TREVOR

Agent(s): INGRASSIA FISHER AND LORENZ PC SYMBOL

Title: FIREWALL FOR FILTERING TUNNELED DATA PACKETS

Abstract: A **method** of filtering a tunneled data packet comprising an outer header and an outer payload, the outer payload comprising an inner data packet comprising an inner header and an inner payload, where the value of at least one outer header field of the tunneled data packet is matched to a first rule, and the action defined in the first rule is taken. Taking the action defined in the first rule comprises detecting the inner data packet within the tunneled data packet, matching the value of at least one field of the inner data packet to a second rule, and taking the action defined in the second rule.

Classifications:

International (IPC 8-9): H04L29/06 (Advanced/Invention);
H04L29/06 (Core/Invention)

International (IPC 1-7): G06F15/173 H04L29/06

CPC: H04L63/0236 H04L63/0254 H04L63/029 H04W80/04

European: H04L29/06C6A H04L63/02B1 H04L63/02B4 H04L63/02E
T04W280/04 T04W38/02 T04W80/04

US: 709/225 709/225P 713/150 713/160

PatBase - US2003115328_AA

Patent Application Publication Jun. 19, 2003 Sheet 1 of 6 US 2003/0115328 A1

RULE #	SRC ADDR	DST ADDR	SERVICE	ACTION
1	any	172.16.1.10	http	allow
2	any	any	http	deny
3	10.1.1.0	192.168.1.1	ftp	allow
4	10.1.1.0	any	telnet	allow
5	any	any	any	deny

Fig. 1A

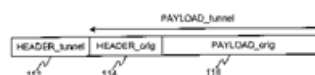


Fig. 1B

Family:

Publication number	Publication date	Application number	Application date
DE60225892 D1	20080515	DE20026025892	20021121
DE60225892 T2	20090528	DE20026025892T	20021121
EP1317115 A2	20030604	EP20020396174	20021121
EP1317115 A3	20070404	EP20020396174	20021121
EP1317115 B1	20080402	EP20020396174	20021121
FI20012338 A0	20011129	FI20010002338	20011129
US2003115328 AA	20030619	US20020301857	20021122
US7721084 BB	20100518	US20020301857	20021122

Priority:

FI20010002338 20011129

Probable Assignee: FORCEPOINT LLC

Assignee(s): (std): STONESOFT CORP

Assignee(s): WEBSense FINLAND OY ; SYVANNE TUOMO ; SALMINEN RIKU ; FORCEPOINT FINLAND OY ;
FORCEPOINT LLC ; JALAVA MIKA ; RAYTHEON CO

Inventor(s): (std): JALAVA MIKA ; SALMINEN RIKU ; SYVAENNE TUOMO ; SYVANNE TUOMO

Agent(s): AEKRAES TAPIO JUHANI; BARNES AND THORNBURG LLP

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

Title: SYSTEM AND APPARATUS FOR STORAGE AND TRANSFER OF SECURE DATA ON WEB

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.

Classifications:

International (IPC 8-9): G06F11/00 G06F15/16 (Advanced/Invention);
G06F11/00 (Advanced/Non-invention);
G06F15/16 (Core/Invention)

CPC: G06F21/33 G06F17/3089 G06F21/31 G06F21/6209
G06F21/6218 G06F21/6263 G06F21/64 H04L63/08 H04L63/0807
H04L63/0823 H04L63/168

European: 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: 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

PatBase - US2006101114A

	Description	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

Family:

Publication number	Publication date	Application number	Application date
US2006101114 AA	20060511	US20050303927	20051219
US2008052775 AA	20080228	US20070864597	20070928
US6985953 BA	20060110	US19990451090	19991130
US7293098 BB	20071106	US20050303927	20051219
US8019881 BB	20110913	US20070864597	20070928

Priority:

US19980110217P 19981130 US19990451090 19991130 US20050303927 20051219
US20070864597 20070928

Probable Assignee: GEORGE MASON INTELLECTUAL PROPERTIES INC

Assignee(s): (std): GEORGE MASON UNIVERSITY ; GEORGE MASON UNIVERSITY ; PARK JOON S ; SANDHU RAVI ; UNIV
GEORGE MASON ; GEORGE MASON INTELLECTUAL PROP

Assignee(s): GEORGE MASON INTELLECTUAL PROPERTIES INC ; GEORGE MASON UNIV

Inventor(s): (std): PARK JOON S ; SANDHU RAVI

Inventor(s): PARK JOON

Agent(s): GEORGE MASON UNIVERSITY, OFFICE OF TECHNOLOGY TRANSFER MSN 5G5; GEORGE MASON UNIV
OFFICE OF TECHNOLOGY TRANSFER MSN 5G5; DAVID G; RICHARD M; DAVID

Title: DYNAMIC POLICY PROVISIONING WITHIN NETWORK SECURITY DEVICES

Abstract: The invention is directed to techniques for dynamic policy provisioning. A network security device may comprise a memory that stores a first policy that identifies a first set of patterns that correspond to a first set of network attacks and a second policy, and a control unit that applies the first policy to the network traffic to detect the first set of network attacks. The control unit, while applying the first policy, monitors parameters corresponding to one or more resources and dynamically determines whether to apply a second policy to the network traffic based on the parameters. The control unit, based on the dynamic determination, applies the second policy to the network traffic to detect a second set of network attacks and forwards the network traffic based on the application of the second policy. In this manner, the network security device may implement the dynamic policy provisioning techniques.

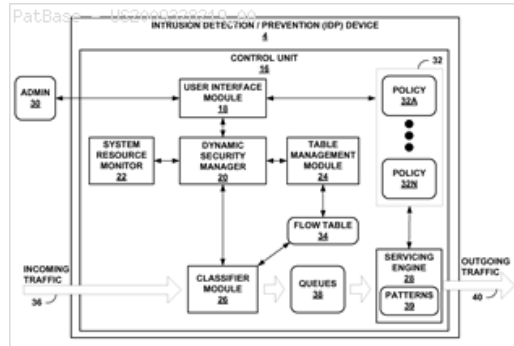
Classifications:

International (IPC 8-9): G06F15/173 G06F17/30 G06F21/00
G06F7/04 H04L12/26 H04L12/56 H04L29/06 (Advanced/Invention);
G06F17/30 (Advanced/Non-invention);
G06F15/16 G06F21/00 G06F7/02 H04L12/26
H04L29/06 (Core/Invention);
G06F17/30 (Core/Non-invention)

CPC: H04L63/1408 H04L63/1425 H04L63/20

European: H04L63/14A2 H04L63/20

US: 707/6 707/999.006 707/999.006S 707/E17.14 707/E17.140S
709/239 709/239S 713/164 713/166 713/188 713/193 718/106
718/106S 726/1 726/11 726/13 726/22 726/23 726/23P

**Family:**

Publication number	Publication date	Application number	Application date
CN101616041 A	20091230	CN200910151518	20090629
CN101616041 B	20120530	CN200910151518	20090629
EP2139199 A2	20091230	EP20090163021	20090617
EP2139199 A3	20140730	EP20090163021	20090617
EP2139199 B1	20180509	EP20090163021	20090617
US2009328219 AA	20091231	US20090468905	20090520
US8856926 BB	20141007	US20090468905	20090520

Priority:

US20080076448P 20080627 US20090468905 20090520

Probable Assignee: JUNIPER NETWORKS INC

Assignee(s): (std): ARUN PRASHANTH ; JUNIPER NETWORKS INC ; JUNIPER NETWORKS INC US ; NARAYANASWAMY KRISHNA

Inventor(s): (std): NARAYANASWAMY KRISHNA ; ARUN PRASHANTH ; PRASHANTH ARUN ; KRISHNA NARAYANASWAMY ; US NARAYANASWAMY KRISHNA

Inventor(s): NARAYANASWAMY KRISHNA US

Agent(s): HARRISON GODDARD FOOTE; HARRIS IAN RICHARD; D YOUNG AND CO LLP; SHUMAKER AND SIEFFERT PA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Title: **METHOD** AND APPARATUS FOR NETWORK SECURITY BASED ON DEVICE SECURITY STATUS

Abstract: A **method** and apparatus are provided for network security based on a security status of a device. A security update status of a device is evaluated; and one or more of a plurality of security policies are selected to apply to the device based on the security update status. The available security philosophies may include, for example, a "protect the good" philosophy, an "encourage the busy" philosophy and a "shut off the non-compliant" philosophy. The security update status can evaluate, for example, a version level of one or more security features installed on the device or can be based on a flag indicating whether the device satisfies predefined criteria for maintaining one or more computer security protection features up-to-date.

Classifications:

International (IPC 8-9): G06F1/00 G06F15/00 G06F15/16 G06F21/00 H04L12/12 H04L12/22 H04L12/24 H04L29/06

H04L9/32 (Advanced/Invention);

G06F15/00 G06F15/16 H04L12/22 (Advanced/Non-invention);

G06F1/00 G06F15/00 G06F15/16 G06F21/00 H04L12/22 H04L29/06

H04L9/32 (Core/Invention)

International (IPC 1-7): G06F1/00 H04L12/12 H04L12/24 H04L29/06 H04L9/00 H04L9/32

CPC: H04L63/065 H04L63/101 H04L63/104 H04L63/1433 H04L63/145

European: H04L29/06C6C H04L29/06C6E H04L29/06S10A

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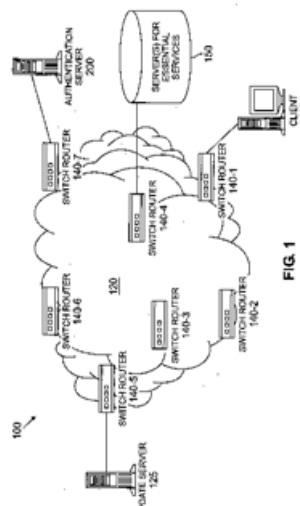
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T04L29/06C6L

US: 709/225 709/226 709/227 709/228 709/229 713/155 713/172 713/174 726/1 726/11 726/11P 726/2 726/21 726/24 726/24S 726/3 726/4 726/5 726/6

PatBase - US2005246767_AA

Patent Application Publication Nov. 3, 2005 Sheet 1 of 8 US 2005/0246767 A1



Family:

Publication number	Publication date	Application number	Application date
CA2497950 AA	20051026	CA20052497950	20050222
DE602005006658 D1	20080626	DE200560006658T	20050301
EP1591868 A1	20051102	EP20050251222	20050301
EP1591868 B1	20080514	EP20050251222	20050301
EP1956463 A2	20080813	EP20080075131	20050301
EP1956463 A3	20080820	EP20080075131	20050301
JP2005318584 A2	20051110	JP20050120498	20050419
KR20060046704 A	20060517	KR20050034456	20050426
US2005246767 AA	20051103	US20040832107	20040426
US8230480 BB	20120724	US20040832107	20040426

Priority:

US20040832107 20040426 CA20052497950 20050222 EP20050251222 20050301

Probable Assignee: AVAYA TECHNOLOGY CORP

Assignee(s): (std): FAZAL LOOKMAN Y ; KAPPES MARTIN ; AVAYA TECHNOLOGY LLC ; AVAYA INC ; AVAYA TECH LLC ; AVAYA TECHNOLOGY CORP ; KRISHNAKUMAR ANJUR S ; KRISHNAN P ; KRISHNAN PARAMESHWARAN

Assignee(s): OCTEL COMMUNICATIONS LLC WAS KNOWN AS OCTEL COMMUNICATIONS CORPORATION.. ; VPNET TECHNOLOGIES INC ; OCTEL COMMUNICATIONS LLC ; SIERRA HOLDINGS CORP ; AVAYA INTEGRATED CABINET SOLUTIONS INC ; CITIBANK NA ; CITICORP USA INC ; CITIBANK NA ADMINISTRATIVE AGENT AS ; CITICORP USA INC ADMINISTRATIVE AGENT AS ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL AGENT AS ; GOLDMAN SACHS BANK USA COLLATERAL AGENT AS ; CITIBANK NA COLLATERAL AGENT AS

Inventor(s): (std): FAZAL LOOKMAN Y ; KAPPES MARTIN ; KAPPES MARTIN ; KRISHNAKUMAR ANJUR S ; KRISHNAN P ; KRISHNAN PARAMESHWARAN ; LOOKMAN FAZAL Y

Inventor(s): KRISHNAKUMAR ANJUR ; FAZAL LOOKMAN

Agent(s): KIRBY EADES GALE BAKER; WILLIAMS DAVID JOHN ET AL; MOTOMIYA TERUHISA; UBUKATA KAZUO; KATO NOBUAKI; OCHI TAKAO; OKABE MASAO; ASAHI NOBUMITSU; USUI SHINICHI; OKABE YUZURU; RYAN MASON AND LEWIS LLP, SUITE 205; RYAN MASON AND LEWIS LLP SUITE 205; MALDJIAN LAW GROUP LLC; JOHN P; ALEXANDER D

Designated states: DE FR GB IT

Title: TRUSTED CONTENT DISTRIBUTION SYSTEM

Abstract: A trusted content distribution system is described comprising a trustworthy enduser device and a network management infrastructure, the enduser device being adapted for communications between the enduser device and the networked infrastructure via a secure tunnel; the end user device comprising a host processor and memory; secure non-volatile memory for storing an operating system, a trusted boot process executed by the host processor to boot the end user device into a known state, means for communicating with a visualisation device.

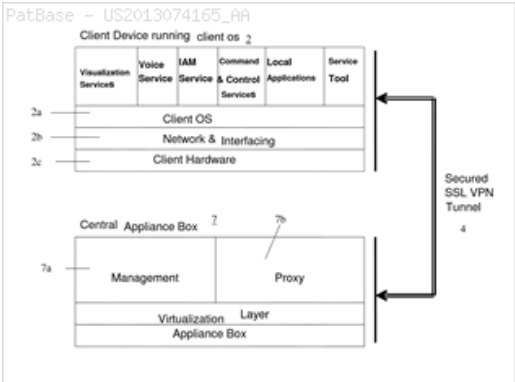
Classifications:

International (IPC 8-9): G06F21/00 G06F21/20 G06F21/22
G06F21/34 G06F7/04 H04L29/06 (Advanced/Invention)

CPC: H04L63/0272 G06F21/34 H04L63/0815

European: G06F21/34 H04L29/06S2C H04L63/02C H04L63/08B

US: 1/1 726/5



Family:

Publication number	Publication date	Application number	Application date
DE602011008127 D1	20140828	DE201160008127T	20110324
DK2550620 T3	20141013	DK20110722337T	20110324
EP2550620 A2	20130130	EP20110722337	20110324
EP2550620 B1	20140702	EP20110722337	20110324
US2013074165 AA	20130321	US20110636825	20110324
US9432333 BB	20160830	US20110636825	20110324
WO11117370 A2	20110929	WO2011EP54574	20110324
WO11117370 A3	20111117	WO2011EP54574	20110324

Priority:

EP20100447010 20100324 EP20110722337 20110324 WO2011EP54574 20110324

Probable Assignee: E BO ENTERPRISES

Assignee(s): (std): DHAENE CHRISTOPHE ; E BO ENTPR

Assignee(s): E-BO ENTERPRISES ; E BO ENTERPRISES

Inventor(s): (std): DHAENE CHRISTOPHE

Agent(s): ARNOLD AND SIEDSMA; BECK MICHAEL ANDRIES T; DHALLEWEYN NELE VEERLE TREES GERTRUDIS; BANNER AND WITCOFF LTD; BIRD WILLIAM E ET AL

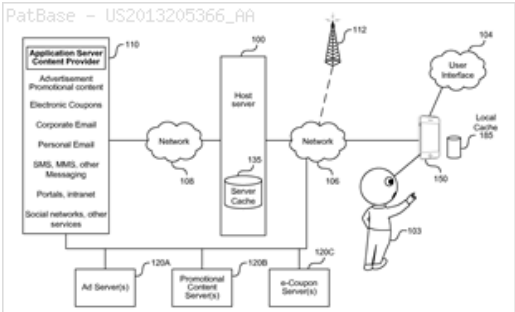
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Title: DYNAMIC CATEGORIZATION OF APPLICATIONS FOR NETWORK ACCESS IN A MOBILE NETWORK

Abstract: Systems and **methods** of dynamic categorization of applications for network use and access in a mobile network are disclosed. Using application profile information, applications can be categorized into one of multiple categories that define restrictions on the application's access to the wireless network or cellular network. One example of such categories is the concept of black, white and grey listings. The "white" listed applications may be always allowed access, "black" listed application may never or almost never be granted network access (e.g., application may be malware like or otherwise consumes large amounts of network/device resources), and grey listed applications may be granted access based on one or more criteria.

Classifications:

International (IPC 8-9): H04L29/06 H04W12/08
H04W48/02 (Advanced/Invention)
CPC: H04L63/101 H04L63/102 H04L63/20 H04L63/107 H04W12/08
US: 1/1 726/1



Family:

Publication number	Publication date	Application number	Application date
US2013205366 AA	20130808	US20130758906	20130204
US9203864 BB	20151201	US20130758906	20130204
WO13116856 A1	20130808	WO2013US24664	20130204

Priority:

US20120594237P 20120202 US20130758906 20130204

Probable Assignee: SEVEN NETWORKS INC

Assignee(s): (std): SEVEN NETWORKS INC ; SEVEN NETWORKS LLC

Inventor(s): (std): BOTT ROSS ; LUNA MICHAEL

Agent(s): NK PATENT LAW PLLC; FU YENYUN ET AL

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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ARCHITECTURE FOR ROUTING AND IPSEC INTEGRATION

Abstract: The invention is directed towards routing a packet using both IPsec and common routing protocols within dynamic network topologies in a **VPN**. The routing of IPsec packets employs Open System Interconnection (OSI) layer three information. In one embodiment, a tree mechanism is used for looking up layer three information that may be associated with a protected subnetwork. When a packet is identified as being associated with a protected subnetwork, the packet may be encrypted and encapsulated, including the original destination and source IP address header information within another packet employing the IP Encapsulating Security Payload (ESP) protocol. New source and destination IP addresses are provided for the new packet using IP addresses associated with an entry gateway and an exit gateway to the **VPN**. The new packet may then be routed through the **VPN** using traditional routing protocols.

Classifications:

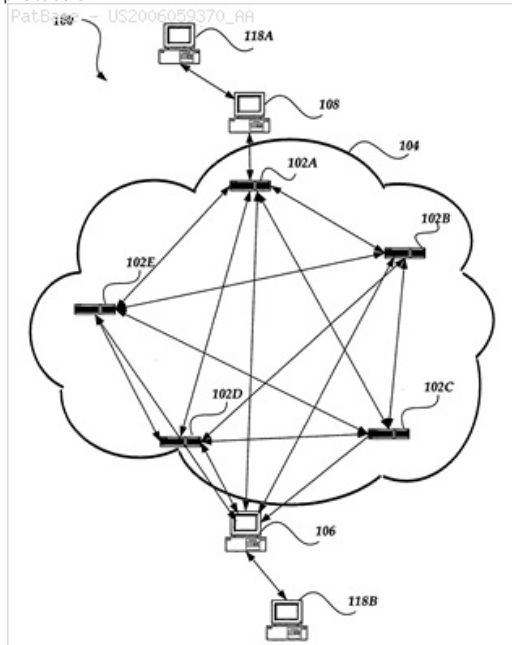
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International (ipc 1-7): H04L12/46 H04L12/56 H04L29/06

CPC: H04L63/0272 H04L63/0428 H04L63/164

European: H04L29/06C6B H04L29/06S16C H04L29/06S2C H04L29/06S4B H04L63/02C H04L63/04B H04L63/16C T04L29/06C6R

US: 709/224 709/225 709/233 709/234 713/151 713/153 713/189 713/189P 726/13

**Family:**

Publication number	Publication date	Application number	Application date
CN101048978 A	20071003	CN200580036668	20050901
EP1794937 A1	20070613	EP20050784496	20050901
KR20070053345 A	20070523	KR20077008543	20070413
TW200625875 A	20060716	TW20050131407	20050913
TWI312626 B	20090721	TW20050131407	20050913
US2006059370 AA	20060316	US20040941772	20040915
US7647492 BB	20100112	US20040941772	20040915
WO06030266 A1	20060323	WO20051B02585	20050901

Priority:

US20040941772 20040915 WO20051B02585 20050901

Probable Assignee: CHECK POINT SOFTWARE TECHNOLOGIES INC

Assignee(s): (std): ASNIS JAMES D ; ASNIS JAMES DAVID ; CHECK POINT SOFTWARE TECH LTD ; CHECK POINT SOFTWARE TECHNOLOG ; KARTAU OLEV ; LEHTONEN TEEMU S ; NOKIA INC ; LEHTONEN TEEMU SAMULI ; NOKIA CORP ; NOKIA CORPORATIO

Assignee(s): CHECK POINT SOFTWARE TECHNOLOGIES INC

Inventor(s): (std): ASNIS JAMES D ; ASNIS JAMES DAVID ; JAMES D ASNIS ; KARTAU OLEV ; LEHTONEN TEEMU S ; LEHTONEN TEEMU SAMULI ; OLEV ASNIS JAMES DAVID LEHTONE ; OLEV KARTAU ; TEEMU S LEHTONEN

Inventor(s): ASNIS JAMES DAVID LEHTONEN TEEMU SAMULI KARTAU... ; LEHTONEN TEEMU ; ASNIS JAMES

Agent(s): DARBY AND DARBY PC; SQUIRE SANDERS AND DEMPSEY LLP

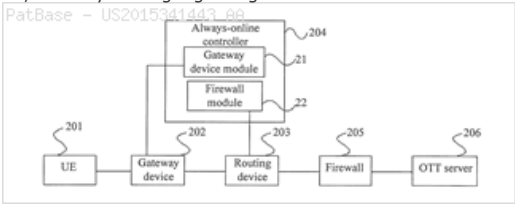
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Title: **METHOD** FOR KEEPING APPLICATION ONLINE, ALWAYS-ONLINE CONTROLLER, AND DEVICE

Abstract: Embodiments of the present invention provide a **method** for keeping an application online, an always-online controller, and a device. In the embodiments of the present invention, by sending an always-online request to an always-online controller, and further enabling a gateway device to keep a bearer tunnel always online, it is implementing that an application is always online and a heartbeat packet exchange is avoided, thereby saving signaling.

Classifications:

International (ipc 8-9): H04L29/06 H04L29/08
H04W76/04 (Advanced/Invention)
CPC: H04L67/142 H04L67/10 H04L67/42 H04W76/25
US: 709/203



Family:

Publication number	Publication date	Application number	Application date
CN104137641 A	20141105	CN201380000351	20130131
EP2945456 A1	20151118	EP20130874189	20130131
EP2945456 A4	20160427	EP20130874189	20130131
IN02587KN2015 A	20160624	IN2015KN02587	20150806
US2015341443 AA	20151126	US20150814138	20150730
WO14117375 A1	20140807	WO2013CN071227	20130131

Priority:

WO2013CN071227 20130131 US20150814138 20150730

Probable Assignee: HUAWEI TECHNOLOGIES CO LTD

Assignee(s): (std): HUAWEI TECH CO LTD

Assignee(s): HUAWEI TECHNOLOGIES CO ; HUAWEI TECHNOLOGIES CO LTD

Inventor(s): (std): ZHOU WENTAO ; SHEN ZHIMIN ; LIU QINGSHUN ; LI JIAN

Agent(s): EPPING HERMANN FISCHER

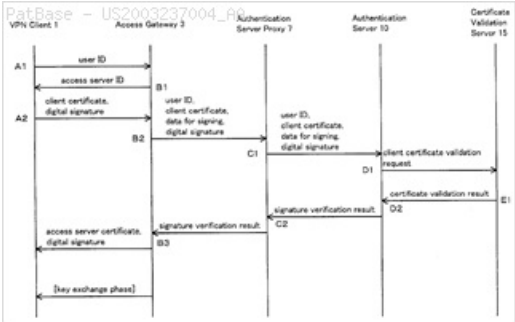
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Title: CERTIFICATE VALIDATION **METHOD** AND APPARATUS THEREOF

Abstract: Virtual **Private** Network (**VPN**) client 1 and M access gateways 3, 4 and 5 each possess a public key cryptography key pair (i.e., a **private** key and a public key). If **VPN** client 1 sends Public Key Infrastructure (PKI) compliant signature based authentication information to an access gateway 3, 4 or 5, the access gateway does not itself verify this authentication information. Instead, it entrusts this processing to an authentication server 8, 9 or 10 and receives the verification result, via authentication server proxy 7. Conversely, generation of PKI compliant signature based authentication information to be sent from an access gateway to a **VPN** client is carried out by the access gateway alone. The access gateway and the authentication server thus together implement PKI support but have the functions required for such support apportioned between them.

Classifications:

International (ipc 8-9): G06F21/20 G09C1/00 H04L29/06 H04L9/32 (Advanced/Invention);
G06F21/00 G06F21/20 G09C1/00 H04L29/06 H04L9/32 (Core/Invention)
International (ipc 1-7): G06F15/00 G09C1/00 H04L9/00 H04L9/32
CPC: H04L63/0272 H04L63/0823
European: H04L29/06C6A H04L29/06C6C2 H04L29/06S2C H04L63/02C H04L63/08C T04L29/06C6D4A
US: 713/150 713/150S 713/175 713/175S 713/176 713/176S 713/201 726/15 726/15P



Family:

Publication number	Publication date	Application number	Application date
JP2004032311 A2	20040129	JP20020185022	20020625
JP4304362 B2	20090729	JP20020185022	20020625
US2003237004 AA	20031225	US20030465320	20030618

Priority:

JP20020185022 20020625

Probable Assignee: NEC CORP
Assignee(s): (std): NEC CORP
Inventor(s): (std): OKAMURA MINE ; OKAMURA MITSUKO

Title: SYSTEM AND **METHOD** FOR SECURE APPLICATION COMMUNICATION BETWEEN NETWORKED PROCESSORS

Abstract: A system and **method** is disclosed for transporting application data through a communications tunnel between a host device and a guest device that each includes networked processors. The application data may be transported between the host device and the guest device through an allowed port of the host device, the communications tunnel, and a port of the guest device. Based on logon credentials, the guest device can be authenticated by a security server and a role may be determined. The role can include allowed ports and associated applications on the host that the guest is allowed to access. Remote access from the guest device to host devices or remote devices may be enabled without needing prior knowledge of their configurations. Secure access may be facilitated to remote host devices or remote devices, according to security policies that can vary on a per-session basis and takes into account various factors.

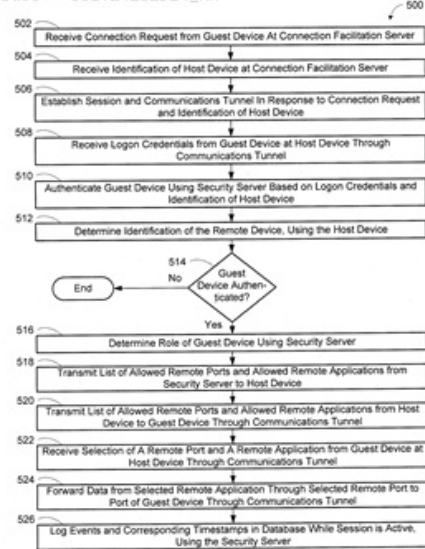
Classifications:

International (IPC 8-9): G06F21/30 H04L29/06 (Advanced/Invention)

CPC: H04L63/08 H04L63/0272 H04L63/0227 H04L63/0876 H04L63/101

US: 726/4 726/7

PatBase - US2014282914_AA



Family:

Publication number	Publication date	Application number	Application date
EP2973160 A1	20160120	EP20140765651	20140314
EP2973160 A4	20160824	EP20140765651	20140314
US2014282914 AA	20140918	US20140213893	20140314
US2014282976 AA	20140918	US20140214113	20140314
WO14144808 A1	20140918	WO2014US29371	20140314

Priority:

US20130798491P 20130315
WO2014US29371 20140314

US20140213893 20140314

US20140214113 20140314

Probable Assignee: NETOP SOLUTIONS A S

Assignee(s): (std): NETOP SOLUTIONS AS

Assignee(s): NETOP SOLUTIONS A S

Inventor(s): (std): HOLMELIN PETER ; IVAN DRAGOS ; PALADE VALENTIN

Agent(s): SKONE JAMES ROBERT EDMUND; MURAFF JAMES P ET AL

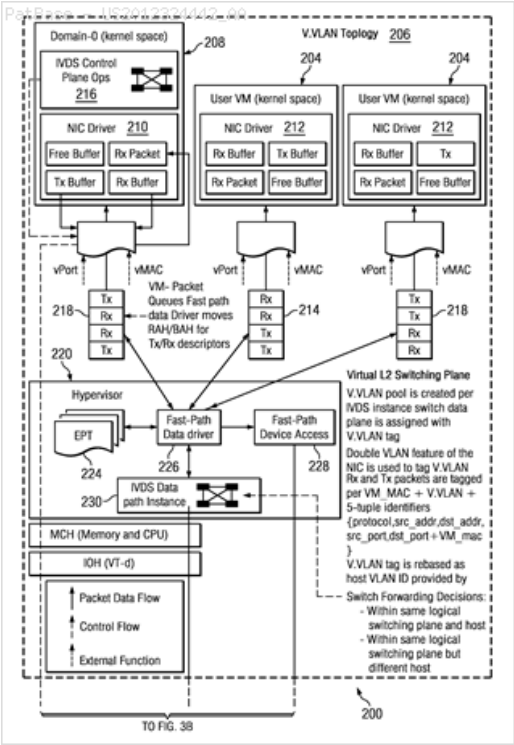
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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 TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SYSTEM AND METHOD FOR AN IN-SERVER VIRTUAL SWITCH

Abstract: In accordance with an embodiment, a data processing system includes a processor, a memory, and an interface port configured to be coupled to a hardware network interface device. The processor is configured to run a process that maps network switching functions of each of a plurality of virtual machines to the hardware network interface device.

Classifications:

International (ipc 8-9): G06F15/16 G06F9/455
H04L12/28 (Advanced/Invention);
H04L12/50 (Advanced/Non-invention)
CPC: H04L49/70 G06F9/45558 G06F2009/45595
US: 370/386 370/409 718/1



Family:

Publication number	Publication date	Application number	Application date
US2012324442 AA	20121220	US20110159968	20110614
US8761187 BB	20140624	US20110159968	20110614

Priority:

US20110159968 20110614

Probable Assignee: FUTUREWEI TECHNOLOGIES INC
Assignee(s): (std): BARDE KAUSHIK C ; FUTUREWEI TECHNOLOGIES INC
Inventor(s): (std): BARDE KAUSHIK C
Agent(s): SLATER AND MATSIL LLP

Title: CLIENT APPARATUS, DEVICE VERIFICATION APPARATUS, AND VERIFICATION **METHOD**

Abstract: A client apparatus for utilizing services by executing service programs includes a policy holding unit, a verification unit, a verification result holding unit, and a verification result notification unit. The policy holding unit holds a service-specific verification policy pre-checked by a device verification apparatus. The verification unit verifies an operation and configuration of the client apparatus itself by using the verification policy when the service program is executed. The verification result notification unit notifies the verification result to the device verification apparatus, which requests the verification result.

Classifications:

International (IPC 8-9): G06F17/30 G06F21/00 G06F21/20

G06F21/24 H04L29/06 H04L9/00 (Advanced/Invention);

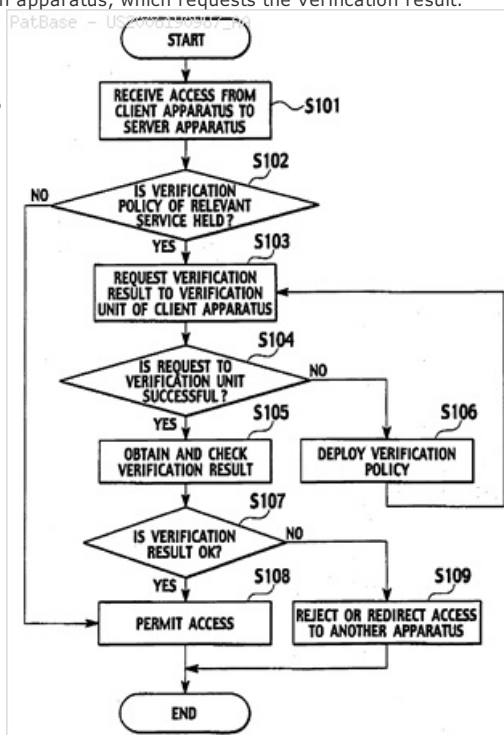
G06F17/30 G06F21/00 H04L9/00 (Core/Invention)

CPC: G06F21/57 H04L63/10 H04L63/12 H04L63/1416 Y10S707/99936

European: G06F21/57 H04L29/06C6C H04L29/06C6G H04L63/10

H04L63/12 T04L29/06C6M T04L63/14A1

US: 1/1 707/10 707/6 707/999.006 726/1 726/1P



Family:

Publication number	Publication date	Application number	Application date
CN1815949 A	20060809	CN200610003326	20060205
CN1815949 B	20101013	CN200610003326	20060205
DE602006030039 D1	20120802	DE200660030039T	20060206
EP1689145 A1	20060809	EP20060002346	20060206
EP1689145 B1	20120613	EP20060002346	20060206
JP2006244469 A2	20060914	JP20060019524	20060127
JP4376233 B2	20091202	JP20060019524	20060127
US2006190987 AA	20060824	US20060346290	20060203
US7693835 BB	20100406	US20060346290	20060203

Priority:

JP20050029758 20050204 JP20060019524 20060127 EP20060002346 20060206

Probable Assignee: NTT DOCOMO INC

Assignee(s): (std): NTT DOCOMO INC

Assignee(s): N A

Inventor(s): (std): ATSUSHI OHTA KEN INAMURA HIROSHI ; ATSUSHI TAKESHITA ; HIROSHI INAMURA ; INAMURA HIROSHI ; KEN OHTA ; OHTA KEN ; OHTA MASARU ; TAKESHITA ATSUSHI

Inventor(s): TAKESHITA ATSUSHI C OI P DEPT NTT DOCOMO INC ; TAKESHITA ATSUSHI C OIPDEPT NTT DOCOMO INC ; OHTA KEN C OINTELL PROP DEPT NTT DOCOMO INC ; OHTA KEN C OINTELLPROPDEPT NTT DOCOMO INC ; OHTA KEN INAMURA HIROSHI TAKESHITA ATSUSHI ; INAMURA HIROSHI C OIN PROP DEPT NTT DOCOMO INC ; INAMURA HIROSHI C OINPROPDEPT NTT DOCOMO INC

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; MIYOSHI HIDEKAZU; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: DE GB

Title: MESSAGE AUTHENTICATION USING SIGNATURES

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.

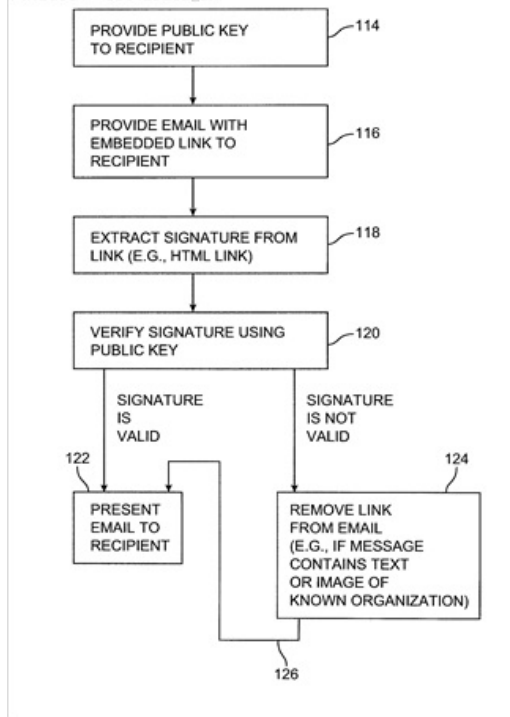
Classifications:

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

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

US: 709/206

PatBase - US8429232_BA

**Family:**

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

Priority:

US2003050866P 20031003 US20040951975 20040928 US20100703177 20100209
US20120476792 20120521

Probable Assignee: VOLTAGE SECURITY INC

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

Assignee(s): JPMORGAN CHASE BANK NA ; VENTURE LENDING AND LEASING IV INC ; VENTURE LENDING AND LEASING VI INC ; VENTURE LENDING AND LEASING VII INC

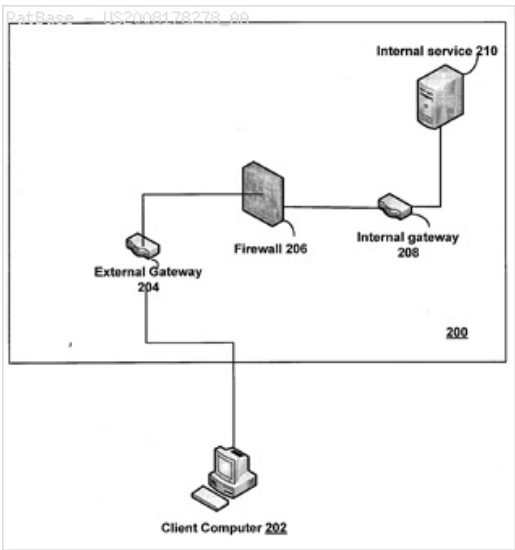
Inventor(s): (std): PAUKER MATTHEW J ; CHOI TIMOTHY Y ; APPENZELLER GUIDO

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

Title: PROVIDING A GENERIC GATEWAY FOR ACCESSING PROTECTED RESOURCES

Abstract: An internal gateway establishes persistent connections to an external gateway through permitted ports and protocols of a firewall. Software on the external gateway and the internal gateway collaborate in order to make available internal, firewall-protected resources to external clients securely and without having to modify network or firewall configurations. Any computing resource such as a web service, web application, or any other network addressable resource residing behind a firewall can be securely exposed in a generic fashion to clients on the external network. No special software is required by clients.

Classifications:
International (IPC 8-9): G06F21/00 H04L12/66 (Advanced/Invention); G06F21/00 H04L12/66 (Core/Invention)
CPC: H04L63/0227 H04L63/166 H04L63/168
European: H04L63/02B T04L63/16D T04L63/16G
US: 726/12 726/12P



Family:

Publication number	Publication date	Application number	Application date
US2008178278 AA	20080724	US20070625514	20070122
WO08147475 A2	20081204	WO2008US00676	20080118
WO08147475 A3	20090305	WO2008US00676	20080118

Priority:

US20070625514 20070122

Probable Assignee: BITKOO LLC

Assignee(s): (std): BITKOO LLC ; GRINSTEIN DORON ; KOTLER ERIC N

Inventor(s): (std): GRINSTEIN DORON ; KOTLER ERIC N

Agent(s): WOODCOCK WASHBURN LLP; STEIN MICHAEL D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SYSTEM AND **METHOD** FOR DYNAMICALLY CONTROLLING AGGREGATE AND INDIVIDUAL PACKET FLOW CHARACTERISTICS WITHIN A COMPRESSED LOGICAL DATA TUNNEL

Abstract: A system and **method** for dynamically controlling aggregate and individual packet flow characteristics within a compressed logical data tunnel. A logical data tunnel is formed and includes one or more packet flows. Each packet flow includes individual packets having a shared destination address. Bandwidth allocated to control an aggregated flow of packets routed through the logical data tunnel. A transfer rate is assigned to control each packet flow transiting within the logical data tunnel.

Classifications:

International (IPC 8-9): G06F15/16 H04L1/00 (Advanced/Invention);

G08C15/00 H04J3/16 (Advanced/Non-invention);

G06F15/16 H04L1/00 (Core/Invention);

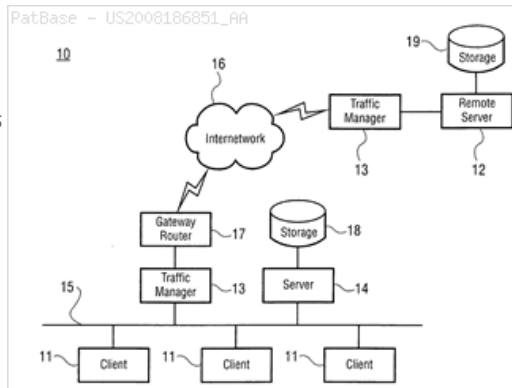
G08C15/00 H04J3/16 (Core/Non-invention)

CPC: Y02D50/30 H04L47/10 H04L41/5022 H04L47/2441 H04L47/2475 H04L47/38 H04L47/41

European: H04L12/24S1C1 H04L41/50B1 H04L47/10 H04L47/24D

H04L47/24H H04L47/38 H04L47/41 Y02B60/33

US: 370/232 370/232P 370/468 370/468S 709/228 709/231 709/232 709/232S 709/234



Family:

Publication number	Publication date	Application number	Application date
US2008186851 AA	20080807	US20080032571	20080215
US7359974 BA	20080415	US20020112577	20020329
US7779144 BB	20100817	US20080032571	20080215

Priority:

US20020112577 20020329 US20080032571 20080215

Probable Assignee: SYMANTEC CORP

Assignee(s): (std): LAIER MARY ; PACKETEER INC ; QUINN MICHAEL J

Assignee(s): SYMANTEC CORP ; BLUE COAT SYSTEMS INC ; JEFFERIES FINANCE LLC ; JEFFERIES FINANCE LLC
COLLATERAL AGENT AS

Inventor(s): (std): LAIER MARY ; QUINN MICHAEL J

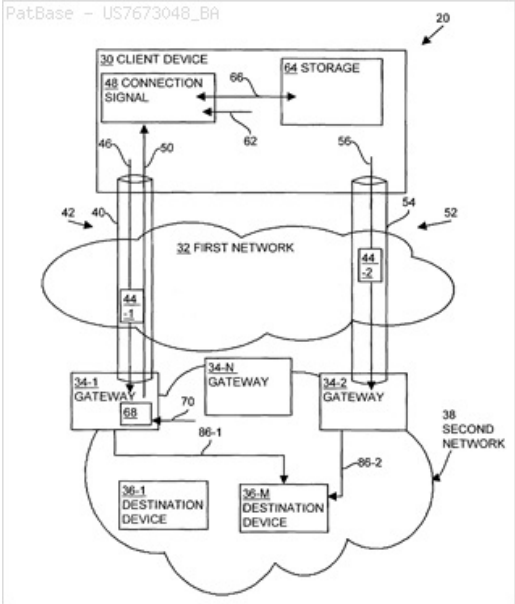
Agent(s): LAW OFFICE OF MARK J SPOLYAR; SPOLYAR MARK J; MARK J; BAKER BOTTS LLP

Title: **METHODS** AND APPARATUS FOR ESTABLISHING A COMPUTERIZED DEVICE TUNNEL CONNECTION

Abstract: A client device establishes a first tunnel connection or tunnel, through a public network, with a first gateway of a **private** network and establishes, through the tunnel connection, a data connection with a destination device within the **private** network. The first gateway monitors or analyzes the geographic locations of the gateways associated with the **private** network relative to geographic location of the destination device associated with the data connection. Based upon such the monitoring, the first gateway transmits information to the client device relating to establishment of a second tunnel connection or tunnel with a second gateway of the **private** network. The client device establishes the second tunnel connection with the second gateway and establishes a data connection with the destination device through the second gateway. By establishing the second tunnel connection with the second gateway, the client device utilizes the bandwidth of the public network to exchange data with the destination device, thereby decreasing data transmission costs to the **private** network and decreasing **private** network latency.

Classifications:

International (IPC 8-9): G06F15/16 G06F15/173
H04L12/26 (Advanced/Invention);
G06F15/16 H04L12/26 (Core/Invention)
CPC: H04L12/4633 H04L12/66
European: H04L12/46E H04L12/66
US: 370/229 370/237 709/223 709/226 709/227 709/232 709/238



Family:

Publication number	Publication date	Application number	Application date
US7673048 BA	20100302	US20030373274	20030224

Priority:

US20030373274 20030224

Probable Assignee: CISCO SYSTEMS INC
Assignee(s): (std): CISCO TECH INC
Assignee(s): CISCO TECHNOLOGY INC ; CISCO SYSTEMS INC
Inventor(s): (std): O TOOLE JR JAMES W ; TOWNSLEY WILLIAM MARK
Inventor(s): O'TOOLE JR JAMES W
Agent(s): PATTERSON AND SHERIDAN LLP

Title: AUTHENTICATION FEDERATION SYSTEM AND ID PROVIDER DEVICE

Abstract: According to one embodiment, the ID provider device stores pieces of policy information for each service provider ID. The ID provider device outputs a policy evaluation request including the user ID used in the log-in processing and the service provider ID in the authentication federation request when the log-in processing is successful. The ID provider device reads the policy information in accordance with the service provider ID in the policy evaluation request. The ID provider device judges whether to permit the transmission of the service data in accordance with whether environmental conditions of the user for the execution of a service conform to the read policy information.

Classifications:

International (IPC 8-9): G06F15/00 G06F21/20 G06F21/41
G06F21/60 H04L29/06 H04L9/32 (Advanced/Invention)

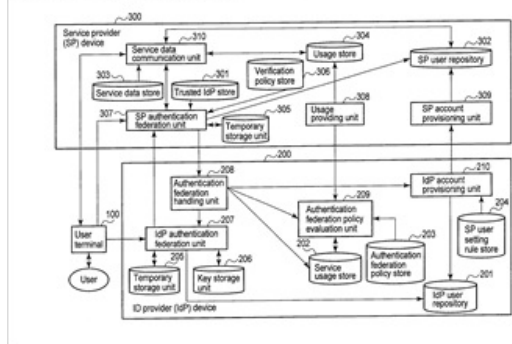
International (IPC 1-7): G06F21/20

CPC: H04L63/08 G06F21/41 G06F21/604 H04L63/0815

European: G06F21/60B H04L63/08A

US: 1/1 726/1

PatBase - US2013247142_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN103109298 A	20130515	CN201180044620	20111107
CN103109298 B	20151209	CN201180044620	20111107
DE602011046135 D1	20180329	DE201160046135T	20111107
EP2639727 A1	20130918	EP20110839719	20111107
EP2639727 A4	20170301	EP20110839719	20111107
EP2639727 B1	20180228	EP20110839719	20111107
JP2012103846 A2	20120531	JP20100250903	20101109
JP4892093 B1	20120307	JP20100250903	20101109
SG190128 A1	20130628	SG20130034046	20111107
US2013247142 AA	20130919	US20130890539	20130509
US9059982 BB	20150616	US20130890539	20130509
WO12063783 A1	20120518	WO2011JP75611	20111107

Priority:

JP20100250903 20101109 EP20110839719 20111107 WO2011JP75611 20111107

Probable Assignee: TOSHIBA KK

Assignee(s): (std): IKEDA TATSURO ; NISHIZAWA MINORU ; TOSHIBA SOLUTIONS CORP ; TANAKA SEIICHIRO ; TOSHIBA KK ; TOSHIBA CORP ; TOSHIBA SOLUTIONS LTD

Inventor(s): (std): IKEDA TATSURO ; NISHIZAWA MINORU ; TANAKA SEIICHIRO

Inventor(s): TANAKA SEIICHIRO MINATO KU ; NISHIZAWA MINORU MINATO KU ; IKEDA TATSURO MINATO KU

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWALTE PARTMBB; HOFFMANN EITLE; OBLON MCCLELLAND MAIER AND NEUSTADT LLP; KURATA MASATOSHI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 IS IT 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 PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: REMOTE ACCESS SYSTEM, REMOTE ACCESS **METHOD**, AND REMOTE ACCESS PROGRAM

Abstract: A remote access system includes target units to be accessed, a home gateway serving as an entrance of a home network to which the target units belong, and a portable unit carried by the user to access the target units. When the portable unit sends and presents an attribute certificate in which at least privilege with regard to a resource and information of the home gateway are described, to the target units through the home gateway, an access made by the portable unit to the resource is checked.

Classifications:

International (IPC 8-9): G06F21/20 H04L12/28 H04L29/06 H04L9/32 (Advanced/Invention);

G06F21/00 G06F21/20 H04L12/28 H04L29/06

H04L9/32 (Core/Invention)

International (IPC 1-7): G06F15/00 G06F15/16 H04L29/06 H04L9/00 H04L9/32

CPC: H04L12/2803 H04L12/2818 H04L63/061 H04L63/0823 H04L63/0869

European: H04L12/28H H04L29/06C6B H04L63/06A H04L63/08C H04L63/08G T04L12/28H T04L12/28H3A T04L29/06C6D4A

US: 709/229 709/229S 713/175 713/175P

PatBase - US2004078573_AA

Patent Application Publication Apr. 22, 2004 Sheet 1 of 20 US 2004/0078573 A1

FIG. 1

ITEM	DESCRIPTION
Version 1	
version	VERSION OF FORMAT OF CERTIFICATE
serial Number	SERIAL NUMBER OF CERTIFICATE SPECIFIED BY CERTIFICATION AUTHORITY
signature algorithm identifier algorithm parameters	SIGNATURE ALGORITHM AND ITS PARAMETERS OF CERTIFICATE
issuer	NAME OF CERTIFICATION AUTHORITY (IN DISTINGUISHED NAME FORMAT)
validity not Before not After	EFFECTIVE PERIOD OF CERTIFICATE START DATE END DATE
subject	NAME FOR IDENTIFYING USER
subject Public Key Info algorithm subject Public key	PUBLIC-KEY INFORMATION OF USER KEY ALGORITHM KEY INFORMATION
Version 3	
authority Key Identifier key Identifier authority Cert Issuer authority Cert Serial Number	FOR IDENTIFYING KEY USED FOR VERIFYING SIGNATURE OF CERTIFICATION AUTHORITY KEY IDENTIFICATION NUMBER (IN OCTAL) NAME OF CERTIFICATION AUTHORITY (IN GENERAL NAME FORMAT) AUTHENTICATION NUMBER
subject key Identifier	IDENTIFIER OF EACH KEY, USED WHEN PLURALITY OF KEYS ARE CERTIFIED
key usage (0)digital Signature (1)non Repudiation (2)key Encipherment (3)data Encipherment (4)key Agreement (5)key Cert Sign (6)CRL Sign (7)encipher Only (8)decipher Only	FOR SPECIFYING USE OBJECTIVE OF KEY (0) FOR DIGITAL SIGNATURE (1) FOR REPUDIATION PREVENTION (2) FOR ENCRYPTING KEY (3) FOR ENCRYPTING MESSAGE (4) FOR DISTRIBUTING COMMON KEY (5) FOR VERIFYING SIGNATURE IN AUTHENTICATION (6) FOR VERIFYING SIGNATURE IN INVALIDITY LIST (7) ONLY FOR ENCRYPTING DATA WHEN KEY IS CHANGED (8) ONLY FOR DECRYPTING DATA WHEN KEY IS CHANGED
private Key Usage Period not Before not After	EFFECTIVE PERIOD OF PRIVATE KEY HELD BY USER

Family:

Publication number	Publication date	Application number	Application date
EP1381201 A2	20040114	EP20030015192	20030704
JP2004046430 A2	20040212	JP20020201472	20020710
JP4129783 B2	20080806	JP20020201472	20020710
US2004078573 AA	20040422	US20030617069	20030710

Priority:

JP20020201472 20020710

Probable Assignee: SONY CORP

Assignee(s): (std): SONY CORP

Assignee(s): MATSUYAMA SHINAKO

Inventor(s): (std): MATSUYAMA SHINAKO

Agent(s): INAMOTO YOSHIO

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

Title: SYSTEM AND **METHOD** FOR SINGLE SIGN-ON TO RESOURCES ACROSS A NETWORK

Abstract: Systems, **methods** and apparatus for providing single sign on across a plurality of resources is disclosed. An exemplary **method** includes receiving a request from a user to access a particular one of the plurality of resources; establishing an SSO session for the user if an SSO session has not been established; determining if the user has been authenticated to the particular resource, and if not, retrieving credentials for the user that are specific to the resource; presenting the credentials to the resource so as to create a session with the resource; and presenting a user interface for a customer to configure which of the plurality of resources can be accessed by users.

Classifications:

International (IPC 8-9): G06F17/00 G06F3/01 H04L29/06

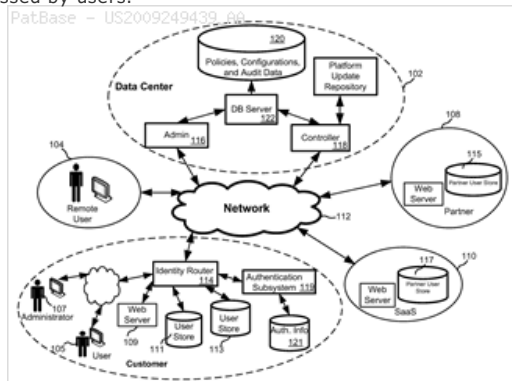
H04L9/32 (Advanced/Invention);

G06F17/00 G06F3/01 H04L29/06 H04L9/32 (Core/Invention)

CPC: H04L63/0815 H04L63/101 H04L63/20

European: H04L63/08B T04L63/10A

US: 726/1 726/1P 726/2 726/28 726/3 726/3S 726/4 726/5 726/6 726/6S 726/8 726/8S



Family:

Publication number	Publication date	Application number	Application date
US2009249439 AA	20091001	US20090410971	20090325
US2009249440 AA	20091001	US20090410992	20090325
US8418238 BB	20130409	US20090410992	20090325
US8990911 BB	20150324	US20090410971	20090325
WO09145987 A2	20091203	WO2009US38254	20090325
WO09145987 A3	20100211	WO2009US38254	20090325

Priority:

US20080040673P 20080330 US20080094972P 20080907 US20090410971 20090325
US20090410992 20090325

Probable Assignee: EMC IP HOLDING CO LLC

Assignee(s): (std): BERG KESHAVA ; EMC CORP ; OLDEN ERIC ; ROYER COBY ; PLATT DARREN C ; WALLINGFORD III JOSEPH H ; SYMPLIFIED INC ; WALLINGFORD JOSEPH H

Assignee(s): SYMPLIFEID INC ; EMC IP HOLDING CO LLC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; BANK OF NEW YORK MELLON TRUST CO NA NOTES COLLATERAL AGENT AS

Inventor(s): (std): BERG KESHAVA ; OLDEN ERIC ; PLATT DARREN C ; ROYER COBY ; WALLINGFORD III JOSEPH H ; WALLINGFORD JOSEPH H

Agent(s): NEUGEBORN O'DOWD PC; NEUGEBORN ODOWD PC; NEUGEBORN O DOWD PC; BAINWOODHUANG; O DOWD SEAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MULTI-TIER SECURITY EVENT CORRELATION AND MITIGATION

Abstract: The present invention is directed to the use of a multi-tiered security architecture that includes vendor-operated global security services and policy servers able to exchange security events and mitigation measures.

Classifications:

International (IPC 8-9): G06F15/00 G06F15/16

G06F21/00 (Advanced/Invention);

G06F15/00 G06F21/00 (Advanced/Non-invention);

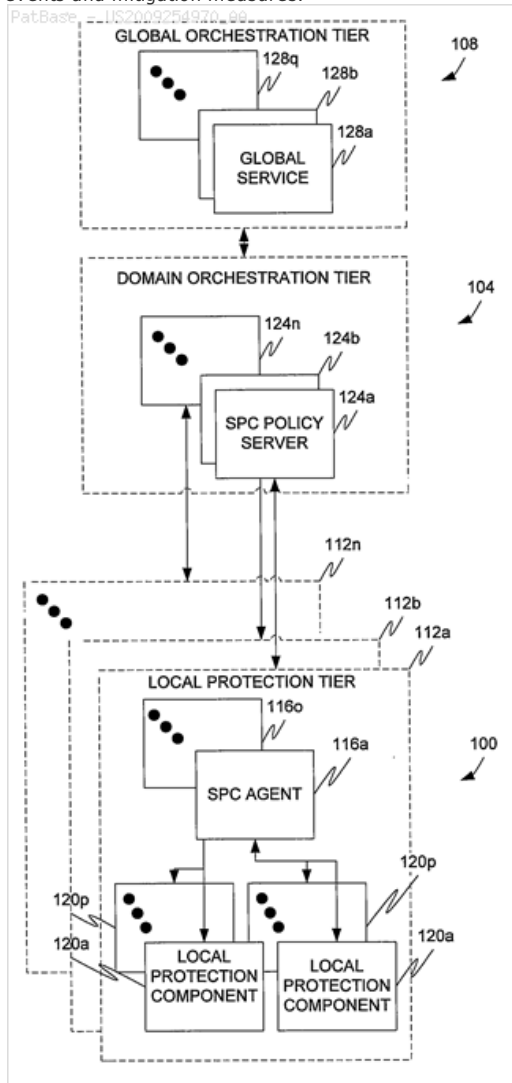
G06F15/16 G06F21/00 (Core/Invention)

International (IPC 1-7): G06F15/16 G06F21/00

CPC: H04L63/1425 G06F21/554

European: G06F21/55B

US: 726/1 726/1P

**Family:**

Publication number	Publication date	Application number	Application date
EP2260426 A2	20101215	EP20090755353	20090325
IN02063MN2010 A	20110304	IN2010MN02063	20100929
KR20100133398 A	20101221	KR20107021950	20090325
US2009254970 AA	20091008	US20080234248	20080919
WO09145990 A2	20091203	WO2009US38293	20090325
WO09145990 A3	20100121	WO2009US38293	20090325

Priority:

WO2008US38293 20080325 US20080042458 20080404 US20080042458P 20080404
US20080234248 20080919 WO2009US38293 20090325

Probable Assignee: AVAYA INC

Assignee(s): (std): AGARWAL AMIT ; AHRENS DAVID ; AVAYA INC ; SINGH NAVJOT ; ZMOLEK ANDREW ; LIVINGOOD ROD ; MANI MAHALINGAM

Assignee(s): BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL AGENT AS

Inventor(s): (std): AGARWAL AMIT ; AHRENS DAVID ; LIVINGOOD ROD ; MANI MAHALINGAM ; SINGH NAVJOT ; ZMOLEK ANDREW

Inventor(s): NAVJOT SINGH ; ROD LIVINGOOD ; MAHALINGAM MANI ; AMIT AGARWAL ; ANDREW ZMOLEK ; DAVID AHRENS

Agent(s): WILLIAMS DAVID JOHN; SHERIDAN ROSS PC; SWARTZ DOUGLAS W

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: QUARANTINE NETWORKING

Abstract: In some illustrative embodiments, a novel system and **method** is provided that includes a quarantining architecture for quarantining of clients, including: a) an unauthenticated network; b) a quarantine network; and c) a safe network.

Classifications:

International (ipc 8-9): G09C1/00 H04L12/24 H04L12/28 H04L12/56

H04L29/06 (Advanced/Invention);

G09C1/00 H04L12/24 H04L12/28 H04L12/56 (Core/Invention)

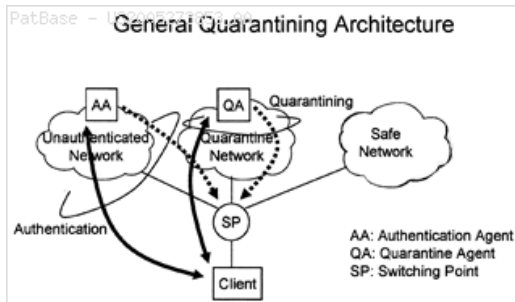
International (ipc 1-7): H04L12/28

CPC: H04L41/28 H04L63/08 H04L63/10 H04L63/145 H04L63/1491 H04L63/20

European: H04L12/24G H04L41/28 H04L63/08 H04L63/10

H04L63/14D1 H04L63/14D10 H04L63/20

US: 726/22 726/22P

**Family:**

Publication number	Publication date	Application number	Application date
CA2580274 AA	20061123	CA20052580274	20050524
CN101433020 A	20090513	CN200580022906	20050524
EP1762045 A2	20070314	EP20050754014	20050524
EP1762045 A4	20101201	EP20050754014	20050524
JP2008502209 T2	20080124	JP20070515270T	20050524
US2005273853 AA	20051208	US20050908199	20050502
WO05117356 A2	20051208	WO2005US18258	20050524
WO05117356 A3	20090416	WO2005US18258	20050524

Priority:

US20040573702P 20040524

US20050908199 20050502

WO2005US18258 20050524

Probable Assignee: TOSHIBA KK

Assignee(s): (std): DAS SUBIR ; DUTTA ASHUTOSH ; OBA YOSHIHIRO ; TELCORDIA INC ; TELECORDIA INC ; TOSHIBA AMERICA RES INC ; TOSHIBA CORP

Assignee(s): TOSHIBA AMERICA RESEARCH INC ; TOSHIBA KK ; TELCORDIA TECHNOLOGIES INC

Inventor(s): (std): DAS SUBIR ; DUTTA ASHUTOSH ; OBA YASHIHIRO ; OBA YOSHIHIRO ; YOSHIHIRO OBA ; SUBIR DAS ; ASHUTOSH DUTTA

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; WATCHSTONE P AND D

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

Title: PROTECTED ACCESS CONTROL **METHOD** FOR SHARED COMPUTER RESOURCES

Abstract: In embodiments of the present invention improved capabilities are described for providing protected computer communications. The present invention may provide for computer communications where in response to a receipt of a communication at a first computing facility from a second computing facility, the first computing facility may be caused to send a request to a compliance center for security compliance information relating to the second computing facility. In response to the request for security compliance information, the first computing facility may receive compliance information related to the second computing facility, which may cause the first computing facility to perform an action regulating further communications from the second computing facility if the second computing facility security compliance information indicates that the second client computing facility is not compliant with a current security policy.

Classifications:

International (IPC 8-9): G06F21/00 H04L29/06

H04L9/32 (Advanced/Invention);

G06F11/00 G06F12/14 G06F12/16 G06F15/16 G06F17/00 G06F17/30

G06F7/04 (Advanced/Non-invention);

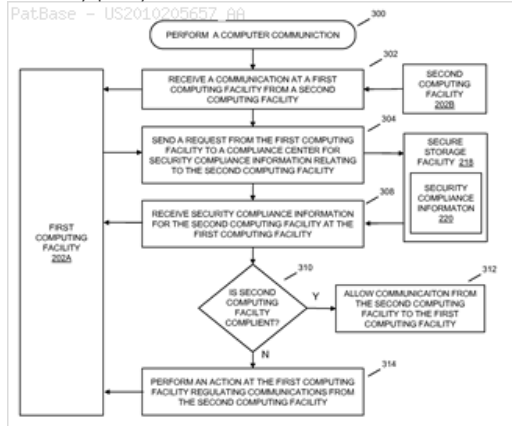
G06F21/00 H04L9/32 (Core/Invention)

CPC: G06F21/57 G06F21/566 G06F21/6218 G06F2221/2141

H04L63/145 H04L63/20

European: S06F221/2115 S06F221/2141

US: 726/1 726/15 726/22 726/26 726/4 726/5 726/5P 726/9



Family:

Publication number	Publication date	Application number	Application date
US2010205657 AA	20100812	US20090369030	20090211
US8392972 BB	20130305	US20090369030	20090211

Priority:

US20090369030 20090211

Probable Assignee: SOPHOS LTD

Assignee(s): (std): MANRING BRADLEY A C ; MOORE HOWARD ; SMITH ANDREW G P ; THOMAS ANDREW J ; SOPHOS PLC

Assignee(s): ROYAL BANK OF CANADA EUROPE COLLATERAL AGENT AS LT ; SOPHOS LTD ; ROYAL BANK OF CANADA EUROPE COLLATERAL AGENT AS LTD ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS

Inventor(s): (std): MANRING BRADLEY A C ; MOORE HOWARD ; SMITH ANDREW G P ; THOMAS ANDREW J

Inventor(s): MANRING BRADLEY AC

Agent(s): STRATEGIC PATENTS PC ; STRATEGIC PATENTS P C

Title: DEVICE AND A **METHOD** FOR MANAGING ACCESS TO A POOL OF COMPUTER AND NETWORK RESOURCES MADE AVAILABLE TO AN ENTITY BY A CLOUD COMPUTING SYSTEM

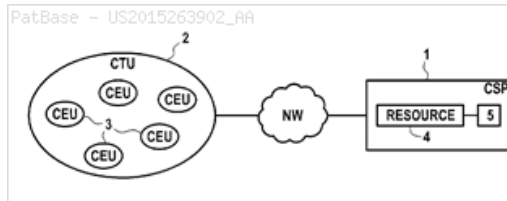
Abstract: Disclosed is a **method** comprising updating a first model describing a pool of computer and network resources and a second multi-level hierarchical model describing an entity, each level having at least one element containing one or more users of the entity and associated with an algorithm for allocating at least a portion of the pool, the union of the elements at any level containing all of the users, such that the first and second models represent a current state of the pool of resources and a current state of the entity. Upon request from a user to access a resource specified in the request, resources may be identified by applying the algorithms of the second model to the current state of the pool represented by the first model, verifying compatibility between the identified resources and the resource specified in the request, and rejecting the request in the event of incompatibility.

Classifications:

International (IPC 8-9): G06F21/62 G06F9/50 H04L12/24 H04L12/911 H04L29/08 (Advanced/Invention)

CPC: H04L41/145 H04L47/781 G06F9/5072 G06F21/6218

US: 709/226



Family:

Publication number	Publication date	Application number	Application date
EP2901279 A1	20150805	EP20130779288	20130923
FR2996018 A1	20140328	FR20120059122	20120927
US2015263902 AA	20150917	US20130431638	20130923
US9736029 BB	20170815	US20130431638	20130923
WO14049251 A1	20140403	WO2013FR52207	20130923

Priority:

FR20120059122 20120927 WO2013FR52207 20130923

Probable Assignee: ORANGE

Assignee(s): (std): FRANCE TELECOM ; ORANGE

Inventor(s): (std): HE RUAN ; LEBOURGEOIS JACQUES ; TERRIER JULIEN

Inventor(s): RUAN HE ; JACQUES LEBOURGEOIS ; JULIEN TERRIER

Agent(s): FONTENELLE SANDRINE; CABINET BEAU DE LOMENIE; KNOBBE MARTENS OLSON AND BEAR LLP;
ORANGE IMT OLPS IPL PAT

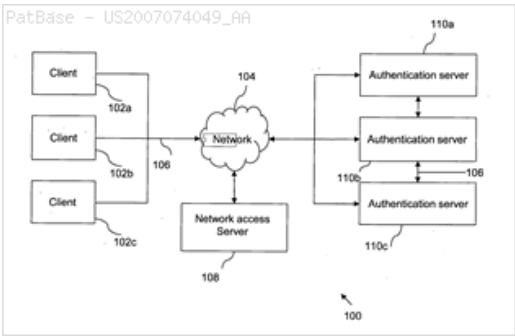
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Title: **METHOD** AND SYSTEM FOR CONTINUOUSLY SERVING AUTHENTICATION REQUESTS

Abstract: A **method** and system for continuously serving the authentication requests of networked computers is disclosed. The authentication requests of computers are served and the services for the computers are reserved for a predefined time interval. The authentication service for a computer is reserved by an authentication server, which receives authentication requests of the computer.

Classifications:

International (IPC 8-9): G06F12/14 H04L29/06 (Advanced/Invention); G06F12/14 (Core/Invention)
CPC: H04L63/0846
European: H04L63/08D2
US: 713/153 713/193 713/193P 726/12



Family:

Publication number	Publication date	Application number	Application date
US2007074049 AA	20070329	US20050239010	20050929
US8151338 BB	20120403	US20050239010	20050929

Priority:

US20050239010 20050929

Probable Assignee: CISCO SYSTEMS INC

Assignee(s): (std): BRONSSTEIN ILAN ; CISCO TECH INC ; FRENKEL ILAN ; KOBOZEV ALEXEY ; ZAVALKOVSKY ARTHUR

Assignee(s): CISCO TECHNOLOGY INC ; CISCO SYSTEMS INC

Inventor(s): (std): BRONSSTEIN ILAN ; FRENKEL ILAN ; KOBOZEV ALEXEY ; ZAVALKOVSKY ARTHUR

Agent(s): TRELLIS INTELLECTUAL PROPERTY LAW GROUP PC; FISH AND RICHARDSON PC

Title: SECURE RESOURCE ACCESS

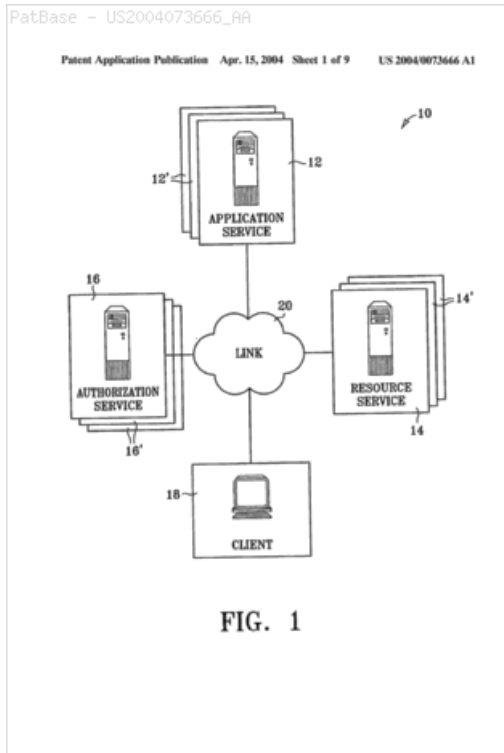
Abstract: A **method** and system for enabling a user to authorize a client, acting under the directed of a first resource, to access a second resource. Before the client accesses the second resource, client programming, that is autonomous of the first and second resources, redirects the client to an authorization service that is also autonomous of the first and second resource. The authorization service authenticates the user, identifies policy data, if any, associated with the user and the first resource, and then returns to the client an interface generated according to the identified policy data, if any, enabling the user to grant or deny authorization. Where policy data does not exist, the authorization service returns an interface to the client enabling the user to set policy data.

Classifications:**International (IPC 8-9):** G06F13/368 G06F9/44

H04L29/06 (Advanced/Invention);

G06F13/38 (Advanced/Non-invention);

H04L29/06 (Core/Invention)

International (IPC 1-7): G06F15/173**CPC:** H04L63/08 H04L63/102**European:** H04L29/06C6C2 H04L29/06S8 H04L63/08 H04L63/10B**US:** 709/225 709/225P 726/21 726/28 726/29 726/30**Family:**

Publication number	Publication date	Application number	Application date
US2004073666 AA	20040415	US20020229641	20020827
US7373662 BB	20080513	US20020229641	20020827

Priority:

US20020229641 20020827

Probable Assignee: HEWLETT PACKARD DEVELOPMENT CO LP**Assignee(s):** (std): HEWLETT PACKARD DEVELOPMENT CO**Assignee(s):** HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD DEVELOPMENT COMPANY L P ; MADRIL ROBERT JOHN ; SIMPSON SHELL STERLING ; FOSTER WARD SCOTT ; HEWLETT PACKARD CO**Inventor(s):** (std): FOSTER WARD SCOTT ; MADRIL ROBERT JOHN ; SIMPSON SHELL STERLING ; MADRIL JR ROBERT JOHN

Title: FLEXIBLE END-POINT COMPLIANCE AND STRONG AUTHENTICATION FOR DISTRIBUTED HYBRID ENTERPRISES

Abstract: Systems, **methods** and apparatus for accessing at least one resource hosted by at least one server of a cloud service provider. In some embodiments, a client computer sends authentication information associated with a user of the client computer and a statement of health regarding the client computer to an access control gateway deployed in an enterprise's managed network. The access control gateway authenticates the user and determines whether the user is authorized to access the at least one resource hosted in the cloud. If the user authentication and authorization succeeds, the access control gateway requests a security token from a security token service trusted by an access control component in the cloud and forwards the security token to the client computer. The client computer sends the security token to the access component in the cloud to access the at least one resource from the at least one server.

Classifications:

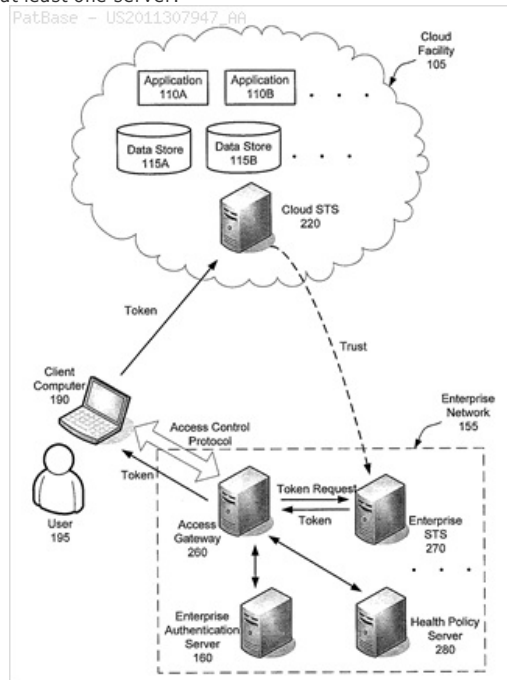
International (IPC 8-9): G06F7/04 H04L29/06

H04L29/08 (Advanced/Invention)

CPC: H04L63/08 H04L63/102 H04L2463/082

European: H04L63/08 H04L63/10B T04L463/082

US: 713/156 713/185 726/1 726/12 726/25 726/4 726/5 726/9 726/9P



Family:

Publication number	Publication date	Application number	Application date
CN102281286 A	20111214	CN201110170880	20110613
CN102281286 B	20170524	CN201110170880	20110613
US2011307947 AA	20111215	US20100815215	20100614
US8997196 BB	20150331	US20100815215	20100614

Priority:

US20100815215 20100614

Probable Assignee: MICROSOFT CORP

Assignee(s): (std): ANANIEV OLEG ; KARIV ASAF ; KERSHAW DANIEL ; MICROSOFT CORP ; NEYSTADT EUGENE JOHN ; TOVBEYN ELI

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): TOVBEYN ELI ; NEYSTADT EUGENE JOHN ; KERSHAW DANIEL ; KARIV ASAF ; ANANIEV OLEG

Inventor(s): NEYSTADT EUGENE (JOHN)

Agent(s): HENRY; MICKY; KATE

Title: USER-SPACE ENABLED VIRTUAL **PRIVATE** NETWORK

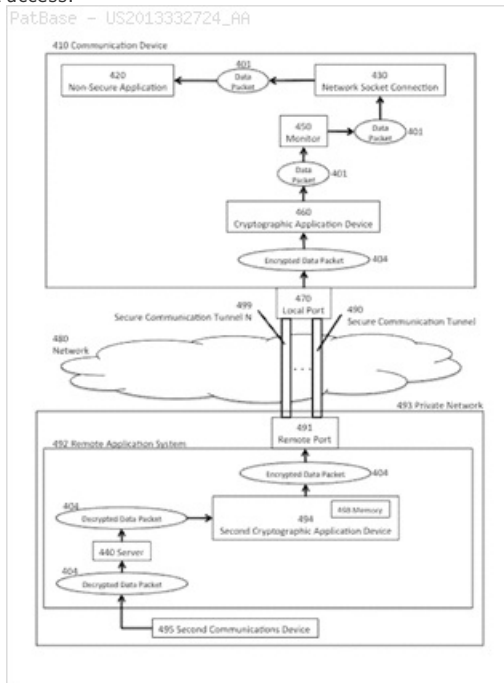
Abstract: This invention includes apparatus, systems, and **methods** to establish a virtual **private** network ("VPN"), or a secured network for authenticated and encrypted data transmission to prevent disclosure of **private** information to unauthorized parties. This invention provides secure and authenticated data transmission from a communication device to another device over any public or **private** network while using existing standard applications such as email, VoIP, internet browsers, ISR applications, video conferencing, telecommuting, inventory tracking and control, etc. without the need to secure or add encryption features into each specific application. This invention provides the opportunity to selectively secure one or more existing applications with configuration changes that can be made at the user-space level of the software stack and without need for higher level software stack access, such as root access.

Classifications:

International (IPC 8-9): H04L29/06 (Advanced/Invention)

CPC: H04L63/0471 H04L63/0272 H04L63/0428 H04L63/08

US: 713/153



Family:

Publication number	Publication date	Application number	Application date
US2013332724 AA	20131212	US20120688160	20121128

Priority:

US20120632457P 20120124 US20120688160 20121128

Probable Assignee: SAIFE INC

Assignee(s): (std): CUMMINGS ENGINEERING CONSULTANTS INC ; WALTERS MATTHEW WILLIAM

Assignee(s): SAIFE HOLDINGS LLC ; SAIFE INC

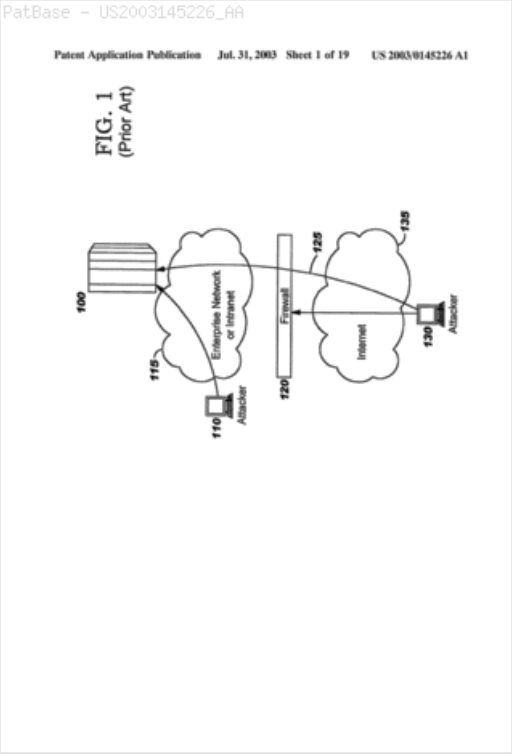
Inventor(s): (std): WALTERS MATTHEW WILLIAM

Title: INTEGRATED INTRUSION DETECTION SERVICES

Abstract: Improvements in intrusion detection are disclosed by providing integrated intrusion detection services. Preferably, these services are integrated into a system or server that is the potential target of attack. Stack-based security processing is leveraged for access to cleartext data within the layers of the protocol stack. Layer-specific attacks may therefore be processed efficiently. Evaluation of incoming traffic for an intrusion is preferably performed only after an error condition of some type has been detected. This approach reduces the overhead of intrusion detection by reducing the number of packets to be inspected, and at the same time allows more efficient packet inspection through use of context-specific information that may be used to direct the inspection to particular candidate attacks. Generic attack class capability is also disclosed. Intrusion detection policy information may be used to direct the actions to be taken upon detecting an attack.

Classifications:

International (IPC 8-9): G06F11/00 H04L29/06
H04L9/00 (Advanced/Invention);
H04L29/06 (Core/Invention)
International (IPC 1-7): G06F11/30
CPC: H04L63/0263 H04L63/1408
European: H04L29/06C6H H04L29/06S2B6 H04L63/02B6
H04L63/14A
US: 709/224 709/224S 713/164 713/166 713/201 714/25 714/43
714/48 726/22 726/22P 726/23 726/24 726/25



Family:

Publication number	Publication date	Application number	Application date
US2003145226 AA	20030731	US20020058870	20020128
US7076803 BB	20060711	US20020058870	20020128

Priority:

US20020058870 20020128

Probable Assignee: TREND MICRO INC

Assignee(s): (std): IBM

Assignee(s): INT BUSINESS MACHINES CORP ; TREND MICRO INC

Inventor(s): (std): BRUTON III DAVID ARO ; OVERBY JR LINWOOD HUGH ; OVERBY LINWOOD HUGH ; LIVECCHI PATRICK MICHAEL ; JAKUBIK PATRICIA ; BRUTON DAVID ARO

Inventor(s): III DAVID ARO ; JR LINWOOD HUGH ; OVERBY ; BRUTON

Agent(s): STEPHEN A; DAVID K; MYERS BIGEL SIBLEY AND SAJOVEC

Title: **METHOD** AND SYSTEM FOR SEPARATING RULES OF A SECURITY POLICY FROM DETECTION CRITERIA

Abstract: A **method** and system that enables a security policy to separate developer-provided detection criteria from an administrator-provided custom policy is provided. The security system allows a developer of detection criteria to provide a signature file containing the signatures that are available for use by a security policy. The security system also allows an administrator of a computer system to specify a custom policy that uses the signatures of the signature file. The developer may distribute the signature file to host computer systems independently of the administrator's distribution of the rules of the custom policy to the host computer systems. When a security enforcement event occurs at the host computer system, the security system applies the rules of the security policy to the event.

Classifications:

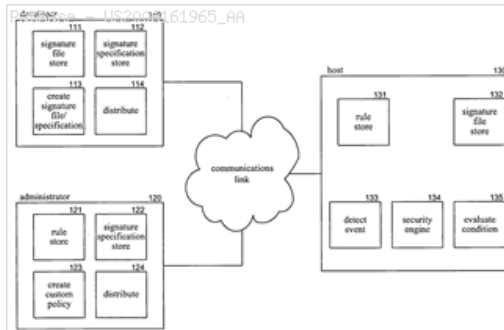
International (IPC 8-9): G06F15/16 G06F17/00 G06F9/00 H04K1/00 H04L9/00 (Advanced/Invention);

G06F17/00 H04K1/00 H04L9/00 (Core/Invention)

CPC: G06F21/55

European: G06F21/55

US: 709/223 726/1 726/13 726/1P



Family:

Publication number	Publication date	Application number	Application date
US2006161965 AA	20060720	US20050039637	20050119
US7591010 BB	20090915	US20050039637	20050119

Priority:

US20050039637 20050119

Probable Assignee: MICROSOFT CORP

Assignee(s): (std): MICROSOFT CORP

Assignee(s): MICROSOFT TECHNOLOGY LICENSING LLC

Inventor(s): (std): FIELD SCOTT A ; RAGHUNATHAN SUBHASHINI ; SHELEST ART

Inventor(s): FIELD SCOTT

Agent(s): PERKINS COIE LLP MSFT; PERKINS COIE LLP

Title: FIREWALL PROPAGATION

Abstract: **Methods** and systems for propagating data security policies and rules up a chain of network components, for example, from an end-user device having a firewall, to a network component at the "edge" of the network, such as a so-called "edge" firewall server, from where a policy statement can be transmitted to a service provider, such as an ISP, are described. A device, such as a computer or mobile phone, has, as part of its firewall software, a policy propagation file, that communicates with pre-existing firewall software. The firewall software creates a policy statement upon detecting a triggering event, which is transmitted from the device to the next data security component up the chain, "upstream," in the network. In some cases this device may be a firewall server or a firewall policy server. The firewall server may combine policy statements from numerous end-user type devices and transmit the policy statement to an external network component, such as an ISP firewall server or similar device. The ISP or other service provider may then use the policy statement to implement date security rules for the devices in the network. In this manner, the firewall operated by the ISP implements rules and policies of a network owner or the owner of a stand-alone device, thereby preventing unwanted traffic from entering the network.

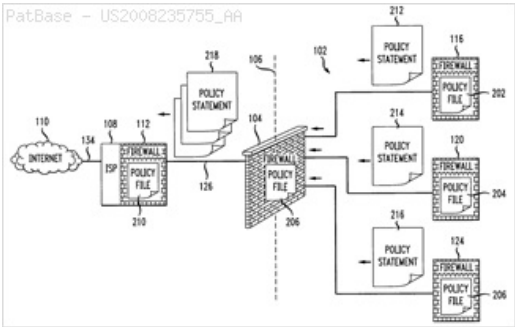
Classifications:

International (IPC 8-9): G06F21/00 H04L9/00 (Advanced/Invention); H04L9/00 (Core/Invention)

CPC: H04L63/0218 H04L63/0227 H04L63/102 H04L2463/141

European: H04L63/02B H04L63/10B T04L463/141 T04L63/02A1

US: 713/153 713/188 726/1 726/12 726/13 726/14 726/1P



Family:

Publication number	Publication date	Application number	Application date
US2008235755 AA	20080925	US20070726559	20070322
US7853998 BB	20101214	US20070726559	20070322

Priority:

US20070726559 20070322

Probable Assignee:

MOCANA CORP

Assignee(s): (std):

MOCANA CORP

Inventor(s): (std):

BLAISDELL JAMES ; VUONG THIEN

Agent(s):

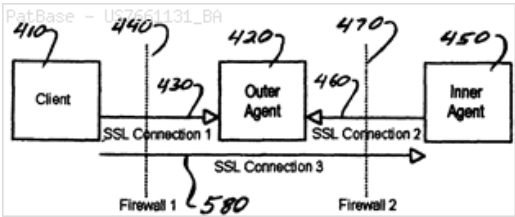
BEYER LAW GROUP LLP

Title: AUTHENTICATION OF TUNNELED CONNECTIONS

Abstract: Systems and **methods** are described for authentication of tunneled connections. A **method** includes establishing a first connection (C_{IO}) from an inner agent to an outer agent including making a first TCP connection from the inner agent to the outer agent, negotiating a first SSL/TLS session (SSLSession_{IO}) between the inner agent and the outer agent over the first TCP connection and applying the second SSL/TLS session (SSLSession_{IO}) between the inner agent and the outer agent over the first TCP connection; establishing a second connection (C_{CO}) from a client and the outer agent including making a second TCP connection from the client to the outer agent, negotiating a second SSL/TLS session (SSLSession_{CO}) between the client and the outer agent over the second TCP connection and applying the second SSL/TLS session (SSLSession_{CO}) between the client and the outer agent over the second TCP connection; and then negotiating a third SSL/TLS session (SSLSession_{CI}) between the client and the inner agent via both the first SSL/TLS session (SSLSession_{IO}) and the second SSL/TLS session (SSLSession_{CO}) and applying the third SSL/TLS session (SSLSession_{CI}) between the client and the inner agent layered over both the first SSL/TLS session (SSLSession_{IO}) and the second SSL/TLS session (SSLSession_{CO}), wherein negotiating the second SSL/TLS session (SSLSession_{CO}) includes verifying at the outer agent that the client possesses a certificate signed with a certificate associated with the inner agent.

Classifications:

International (IPC 8-9): G06F15/16 G06F15/17 G06F15/177
G06F17/00 G06F9/00 (Advanced/Invention);
G06F15/16 G06F17/00 G06F9/00 (Core/Invention)
CPC: H04L63/0478 H04L63/029 H04L63/0823 H04L63/166 H04L63/18
European: H04L29/06S16E H04L29/06S18 H04L29/06S2E
H04L29/06S8C H04L63/02E H04L63/08C H04L63/16D H04L63/18
US: 709/220 709/223 709/227 709/230 726/15



Family:

Publication number	Publication date	Application number	Application date
US7661131 BA	20100209	US20050050102	20050203

Priority:

US20050050102 20050203

Probable Assignee: ORACLE CORP

Assignee(s): (std): SUN MICROSYSTEMS INC

Assignee(s): TARANTELLA INC ; ORACLE AMERICA INC ; ORACLE CORP

Inventor(s): (std): SHAW ANDREW ; MCEWEN MICHAEL THOMAS ; BURGESS KARL RICHARD

Agent(s): OSHA • LIANG LLP; OSHA LIANG LLP

Title: **METHODS**, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR PROVIDING A CLIENT DEVICE WITH TEMPORARY ACCESS TO A SERVICE DURING AUTHENTICATION OF THE CLIENT DEVICE

Abstract: **Methods**, systems, and computer program products for providing a client device temporary access to a service during authentication of the client device are described. According to one **method**, client information and certification authority information are received from a client device. Further, a first authentication of the client device is performed based on the certification authority information and information identifying a trusted certification authority. In response to success of the first authentication, service access corresponding to the first authentication is provided to the client device. Further, in response to success of the second authentication, a second authentication of the client device is performed based on the client information. In response to success of the second authentication, service access corresponding to the second authentication of the client device is provided.

Classifications:

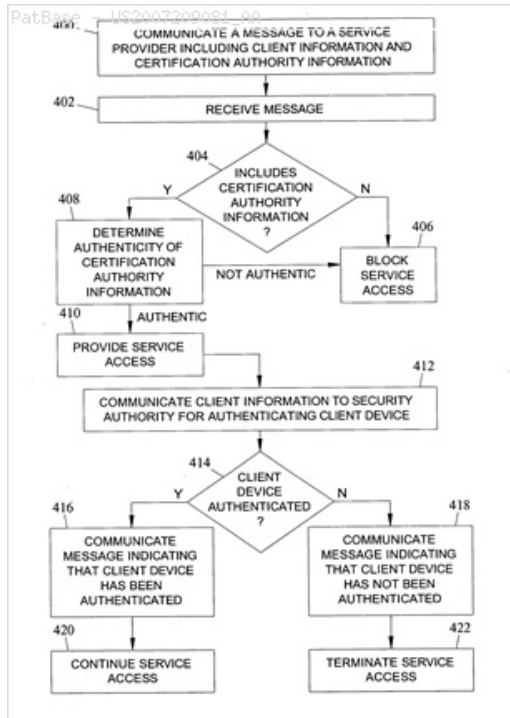
International (IPC 8-9): H04N7/16 H04N7/173 (Advanced/Invention)

CPC: H04N7/17318 H04N21/25816 H04N21/25875 H04N21/2668 H04N21/4627 H04N21/6334

European: H04N21/258C1 H04N21/258U1 H04N21/2668

H04N21/4627 H04N21/6334 H04N7/173B2

US: 348/E7.071 348/E70.71S 726/29 726/29P



Family:

Publication number	Publication date	Application number	Application date
US2007209081 AA	20070906	US20060365025	20060301

Priority:

US20060365025 20060301

Probable Assignee: SCENERA TECHNOLOGIES LLC

Assignee(s): (std): MORRIS ROBERT P

Assignee(s): SCENERA TECHNOLOGIES LLC

Inventor(s): (std): MORRIS ROBERT P

Inventor(s): MORRIS ROBERT PAUL ; MORRIS ROBERT

Agent(s): SCENERA RESEARCH LLC JENKINS WILSON AND TAYLOR PA

Title: **METHOD** AND APPARATUS FOR CONTROLLING CLIENT COMPUTER SYSTEMS

Abstract: A **method** and apparatus connects a user to a remote network, and enforces operation of management software before the user is allowed to perform other tasks on the remote network. The **method** and apparatus also allows connection of the user to a third party network. The user may be restricted from accessing third party networks not on a trusted list of networks, which may be updated by the management software. The **method** and apparatus enforces access rules for the third party software to prevent unauthorized retrieval or deletion of information by the third party software.

Classifications:

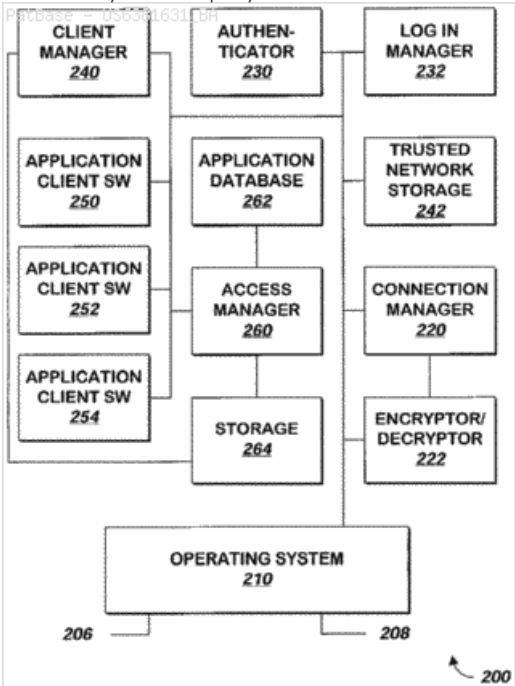
International (IPC 8-9): H04L29/06 (Advanced/Invention);
H04L29/06 (Core/Invention)

International (IPC 1-7): G06F15/16

CPC: Y10S707/99931 Y10S707/99953 H04L63/0823

European: H04L29/06C6C2 H04L63/08C T04L29/06C6D4A

US: 707/1 707/10 707/205 707/999.001 707/999.01 707/999.202
709/200 709/201 709/202 709/203 709/217 709/220 709/225
709/227 709/229 709/245 713/201 726/5



Family:

Publication number	Publication date	Application number	Application date
US6381631 BA	20020430	US19990324891	19990603

Priority:

US19990324891 19990603

Probable Assignee: BMC SOFTWARE INC

Assignee(s): (std): MARIMBA INC

Assignee(s): BMC SOFTWARE INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS

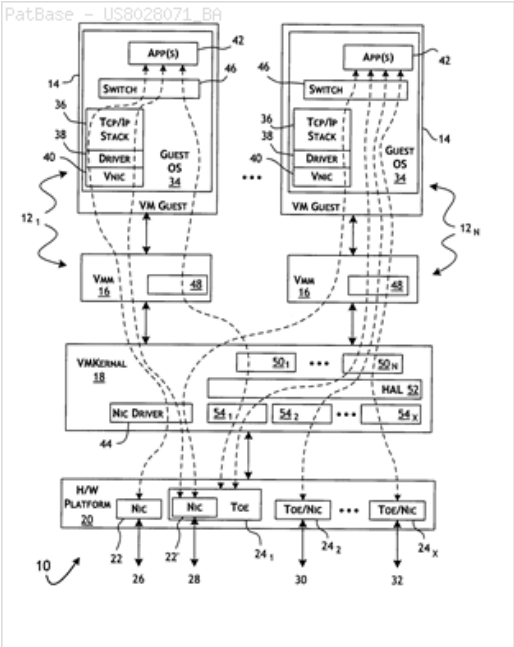
Inventor(s): (std): VAN HOFF ARTHUR A

Title: TCP/IP OFFLOAD ENGINE VIRTUALIZATION SYSTEM AND METHODS

Abstract: A virtual computer system enabling dynamic, aggregated use of multiple TCP/IP offload engines (TOEs) by the set of guest computer systems hosted on the virtual computer system. Each of the guest computer systems includes an offload selection switch and the associated virtual machine monitor includes a first virtual context component. Second virtual context components are associated with a set of TCP/IP stacks and TOEs and interoperate with the first virtual context components to establish a virtual routing of network connections between the offload selection switches and the TOEs. The virtual context mapping retains the initially requested network connection information as well as the resolved virtual network connection established, thereby allowing the initial network connection request to be internally reapplied as required to accommodate dynamic changes in the network protocol parameters of the TOEs.

Classifications:

International (IPC 8-9): G06F15/16 G06F9/455
H04L12/28 (Advanced/Invention)
CPC: G06F9/45558 G06F2009/45595 H04L69/32
European: G06F9/455H S06F9/455H9K
US: 370/254 709/227 718/1



Family:

Publication number	Publication date	Application number	Application date
US8028071 BA	20110927	US20070705842	20070214

Priority:

US20060773895P 20060215 US20070705842 20070214

Probable Assignee: VMWARE INC

Assignee(s): (std): VMWARE INC

Inventor(s): (std): ARUNACHALAM RAMU ; LAMBETH WALTER ANDREW ; MAHALINGAM MALLIK

Agent(s): DARRYL A

Title: PROXY BASED TWO-WAY WEB-SERVICE ROUTER GATEWAY

Abstract: A system for providing two-way Web services is disclosed that enables the client and server to be in different enterprise domains-behind firewalls-with few or no changes to the firewalls. In accordance with the illustrative embodiment, a "tunnel hub" is deployed in the public domain and "tunnel gateways" are deployed behind the firewalls where the clients request two-way services and the servers provide two-way services. Each tunnel gateway initiates a secure tunnel out through the firewall to the target hub. Thereafter, a request for service enters the tunnel gateway, travels to the tunnel hub and to the appropriate tunnel gateway where the server is that provides the service. When the server provides the service, it enters the tunnel gateway, travels to the tunnel hub and to the appropriate tunnel gateway where the client is that requested the service.

Classifications:

International (ipc 8-9): H04L12/22 H04L12/46 H04L12/54 H04L12/56 H04L12/66 H04L12/70 H04L29/06 H04L29/08

H04L9/00 (Advanced/Invention);

H04L29/12 (Advanced/Non-invention);

H04L12/22 H04L12/46 H04L12/54 H04L12/56 H04L12/66 H04L29/06

H04L29/08 H04L9/00 (Core/Invention);

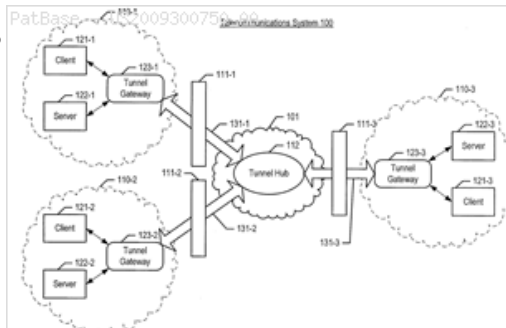
H04L29/12 (Core/Non-invention)

International (ipc 1-7): H04L12/22 H04L12/56 H04L12/66

CPC: H04L12/4633 H04L63/029 H04L67/02

European: H04L29/08N1 H04L63/02E

US: 726/12 726/12P

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0903078 A2	20100525	BR2009PI03078	20090331
CN101594283 A	20091202	CN200910203917	20090422
EP2129078 A1	20091202	EP20090251124	20090417
IN01050MU2009 A	20101105	IN2009MU01050	20090422
JP2009290861 A2	20091210	JP20090097623	20090414
KR101280150 B1	20130730	KR20090045803	20090526
KR20090123800 A	20091202	KR20090045803	20090526
US2009300750 AA	20091203	US20090389197	20090219

Priority:

US20080056261P 20080527 US20090389197 20090219

Probable Assignee: AVAYA INC

Assignee(s): (std): AWAYA INC ; AWAYA INC

Assignee(s): AWAYA INTEGRATED CABINET SOLUTIONS INC ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL ; BANK OF NEW YORK MELLON TRUST NA NOTES COLLATERAL AGENT AS ; CITIBANK NA ADMINISTRATIVE AGENT AS ; OCTEL COMMUNICATIONS LLC WAS KNOWN AS OCTEL COMMUNICATIONS CORPORATION.. ; VPNET TECHNOLOGIES INC

Inventor(s): (std): ZHIQIANG ZHAO ; WU ZHOU ; FENG LIU ; ZHAO ZHI QIANG ; LIU FENG ; GUO WEIPING ; FAZAL LOOKMAN Y ; FAZAL LOOKMAN ; CHOU WU ; WEIPING GUO

Inventor(s): LOOKMAN Y FAZAL ; ZHOU WU ; WU CHOU ; ZHI QIANG ZHAO ; ZHAO ZHIQIANG

Agent(s): WILLIAMS DAVID JOHN; AVAYA DEMONT AND BREYER LLC

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Title: DETERMINING FIREWALL RULES FOR AN APPLICATION ON A CLIENT BASED ON FIREWALL RULES AND REPUTATIONS OF OTHER CLIENTS

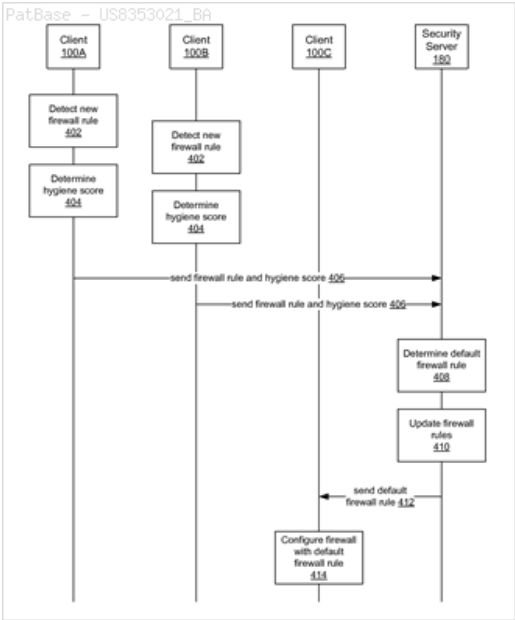
Abstract: A security system monitors the trustworthiness and firewall configurations of a set of clients, where a firewall configuration comprises a set of firewall rules that control access by an application to network communication functionalities of a client. Based on the firewall rules used by other clients and the reputation of those clients, the system determines a set of default firewall rules by selecting one or more rules that are used by the more trustworthy clients. The default firewall rules are made available to other clients, which may use these default rules. This leverages community knowledge about how much network access to allow for a particular application.

Classifications:

International (IPC 8-9): H04L29/06 (Advanced/Invention)

CPC: H04L63/0218 H04L63/0263

US: 709/202 726/11 726/22



Family:

Publication number	Publication date	Application number	Application date
US8353021 BA	20130108	US20080242625	20080930

Priority:

US20080242625 20080930

Probable Assignee: SYMANTEC CORP
Assignee(s): (std): SATISH SOURABH ; SOBEL WILLIAM E ; SYMANTEC CORP
Inventor(s): (std): SOBEL WILLIAM E ; SATISH SOURABH
Agent(s): FENWICK AND WEST LLP