

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
TYLER DIVISION**

VIRNETX INC.,	§	
	§	
PLAINTIFF,	§	
	§	Civil Action No. 6:10-CV-417
VS.	§	
	§	
CISCO SYSTEMS, INC.,	§	
APPLE INC.,	§	JURY TRIAL DEMANDED
AASTRA USA, INC.,	§	
AASTRA TECHNOLOGIES LTD.,	§	
NEC CORPORATION, AND	§	
NEC CORPORATION OF AMERICA,	§	
	§	
DEFENDANTS.	§	

JOINT CLAIM CONSTRUCTION CHART PURSUANT TO P.R. 4-5(d)

Pursuant to P.R. 4-5(d), Plaintiff VirnetX Inc. ("VirnetX") and Defendants, Cisco Systems, Inc. ("Cisco"), Apple Inc. ("Apple"), Aastra USA, Inc. and Aastra Technologies Ltd. ("Aastra Defendants"), NEC Corporation and NEC Corporation of America ("NEC Defendants") (collectively "Defendants"), hereby submit their Joint Claim Construction Chart in accordance with the Court's April 19, 2011 Docket Control Order (Dkt. No. 111).

Attached hereto as Exhibit A is the Joint Claim Construction Chart, that includes the disputed and agreed claim terms and phrases, the parties' respective proposed claim constructions, and a column for the Court's construction of the disputed claim terms and phrases.

DATED: December 21, 2011

Respectfully submitted,

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CERTIFICATE OF SERVICE

The undersigned certifies that the foregoing document was filed electronically in compliance with Local Rule CV-5(a). As such, this document was served on all counsel who has consented to electronic service on this day, December 21, 2011. Local Rule CV-53(a)(3)(A).

/s/ Jason D. Cassady
Jason D. Cassady

EXHIBIT A

U.S. Patent No. 6,502,135				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
1. A method of transparently creating a virtual private network (VPN) between a client computer and a target computer, comprising the steps of: (1) generating from the client computer a Domain Name Service (DNS) request that requests an IP address corresponding to a domain name associated with the target computer; (2) determining whether the DNS request transmitted in step (1) is requesting access to a secure web site; and (3) in response to determining that the DNS request in step (2) is requesting access to a secure target web site, automatically initiating the VPN between the client computer and	virtual private network (VPN) (claims 1, 4, 5, 7, 9, 10, 12)	a network of computers which privately communicate with each other by encrypting traffic on insecure communication paths between the computers	a network of computers which privately and directly communicate with each other by encrypting traffic on insecure communication paths between the computers where the communication is both secure and anonymous	
	between the client computer and the target computer (claims 1, 4, 5, 7)	[no construction necessary]	extending from the client computer to the target computer	
	generating from the client computer a Domain Name Service (DNS) request (claim 1)	[no construction necessary]	creating and transmitting from the client computer a DNS request	
	domain name service (DNS) (claims 1, 2, 3, 4, 5, 8)	a lookup service that returns an IP address for a requested domain name	a lookup service that returns an IP address for a requested domain name to the requester	
domain name (claims 1, 3, 10) secure target web site, automatically initiating the VPN between the client computer and		a name corresponding to an IP address	a hierarchical sequence of words in decreasing order of specificity that corresponds to a numerical IP address	
	web site (claims 1, 3, 8, 10)	a computer associated with a domain name	one or more related web pages at a location on the	

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U.S. Patent No. 6,502,135				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
the target computer.		and that can communicate in a network	World Wide Web	
2. The method of claim 1, wherein steps (2) and (3) are performed at a DNS server separate from the client computer.	secure web site (claims 1, 10)	a computer associated with a domain name and that can communicate in a virtual private network	a web site that requires authorization for access and that can communicate in a VPN	
3. The method of claim 1, further comprising the step of: (4) in response to determining that the DNS request in step (2) is not requesting access to a secure target web site , resolving the IP address for the domain name and returning the IP address to the client computer.	secure target web site (claims 1, 3, 8)	a target computer associated with a domain name and that can communicate in a virtual private network	a secure web site on the target computer	
4. The method of claim 1, wherein step (3) comprises the step of, prior to automatically initiating the VPN between the client computer and the target computer, determining whether the client computer is authorized to	target computer (claims 1, 4, 5, 7, 9, 10)	[no construction necessary] alternatively, VirnetX proposes: a computer with which the client computer seeks to communicate	the ultimate destination with which the client computer seeks to communicate	
	automatically initiating a VPN (claim 1)	[AGREED] initiating the VPN without involvement of a user	[AGREED] initiating the VPN without involvement of a user	initiating the VPN without involvement of a user
	DNS proxy server (claims 8, 10)	a computer or program that responds to a domain name inquiry in place of a DNS	a computer or program that responds to a domain name inquiry in place of a DNS, and prevents destination	

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
establish a VPN with the target computer and, if not so authorized, returning an error from the DNS request.			servers from determining the identity of the entity sending the domain name inquiry	
5. The method of claim 1, wherein step (3) comprises the step of, prior to automatically initiating the VPN between the client computer and the target computer , determining whether the client computer is authorized to resolve addresses of non secure target computers and, if not so authorized, returning an error from the DNS request.	between the client computer and the secure target computer (claim 10) between the client computer and the secure web computer (claim 10) secure web computer (claim 10)	[no construction necessary] [no construction necessary]	extending from the client computer to the secure target computer extending from the client computer to the secure web computer	
7. The method of claim 1, wherein step (3) comprises the step of using a gatekeeper computer that allocates VPN resources for communicating between the client computer and		a computer that requires authorization for access and that can communicate in a virtual private network	[indefinite or "the target computer that hosts the secure web site"]	

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the target computer.			
8. The method of claim 1, wherein step (2) is performed in a DNS proxy server that passes through the request to a DNS server if it is determined in step (3) that access is not being requested to a secure target web site .			
9. The method of claim 5, wherein step (3) comprises the step of transmitting a message to the client computer to determine whether the client computer is authorized to establish the VPN target computer .			
10. A system that transparently creates a virtual private network (VPN) between a client computer and a secure target computer, comprising: a DNS proxy			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
server that receives a request from the client computer to look up an IP address for a domain name, wherein the DNS proxy server returns the IP address for the requested domain name if it is determined that access to a non-secure web site has been requested, and wherein the DNS proxy server generates a request to create the VPN between the client computer and the secure target computer if it is determined that access to a secure web site has been requested; and a gatekeeper computer that allocates resources for the VPN between the client computer and the secure web computer in response to the request by the DNS proxy server. 12. The system of claim 10, wherein the gatekeeper			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
computer determines whether the client computer has sufficient security privileges to create the VPN and, if the client computer lacks sufficient security privileges, rejecting the request to create the VPN.				
13. A method of establishing communication between one of a plurality of client computers and a central computer that maintains a plurality of authentication tables each corresponding to one of the client computers, the method comprising the steps of: (1) in the central computer, receiving from one of the plurality of client computers a request to establish a connection; (2) authenticating, with reference to one of the plurality of authentication tables,	virtual private link (claim 13)	a communication link that permits computers to privately communicate with each other by encrypting traffic on insecure communication paths between the computers	a link in a virtual private network Defendant Aastra submits that a virtual private link is "a link in a virtual private network that accomplishes data security and anonymity through the use of hop tables."	
	between the client and a second computer (claim 13)	[no construction necessary]	extending from the client to a second computer	

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
that the request received in step (1) is from an authorized client; (3) responsive to a determination that the request is from an authorized client, allocating resources to establish a virtual private link between the client and a second computer ; and (4) communicating between the authorized client and the second computer using the virtual private link .			

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U.S. Patent No. 7,490,151				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
1. A data processing device, comprising memory storing a domain name server (DNS) proxy module that intercepts DNS requests sent by a client and, for each intercepted DNS request, performs the steps of: (i) determining whether the intercepted DNS request corresponds to a secure server; (ii) when the intercepted DNS request does not correspond to a secure server, forwarding the DNS request to a DNS function that returns an IP address of a nonsecure computer, and (iii) when the intercepted DNS	domain name service (DNS) (claims 1, 7, 13)	a lookup service that returns an IP address for a requested domain name	a lookup service that returns an IP address for a requested domain name to the requester	
	secure server (claims 1, 6, 7, 12, 13)	a server that requires authorization for access and that can communicate in an encrypted channel	a server that requires authorization for access and communicates in a VPN	
	automatically initiating an encrypted channel (claims 1, 7)	[AGREED] initiating the encrypted channel without involvement of a user	[AGREED] initiating the encrypted channel without involvement of a user	initiating the encrypted channel without involvement of a user
	between the client and the secure server (claims 1, 6, 7, 12)	[no construction necessary]	extending from the client computer to the secure server	
	automatically creating an encrypted channel (claim 13)	[AGREED] creating the encrypted channel without involvement of a user	[AGREED] creating the encrypted channel without involvement of a user	creating the encrypted channel without involvement of a user

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
request corresponds to a secure server , automatically initiating an encrypted channel between the client and the secure server .			
6. The data processing device of claim 1, wherein automatically initiating the encrypted channel between the client and the secure server avoids sending a true IP address of the secure server to the client.			
7. A computer readable medium storing a domain name server (DNS) proxy module comprised of computer readable instructions that, when executed, cause a data processing device to perform the steps of:			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
(i) intercepting a DNS request sent by a client; (ii) determining whether the intercepted DNS request corresponds to a secure server; (iii) when the intercepted DNS request does not correspond to a secure server, forwarding the DNS request to a DNS function that returns an IP address of a nonsecure computer; and (iv) when the intercepted DNS request corresponds to a secure server, automatically initiating an encrypted channel between the client and the secure server.			

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12. The computer readable medium of claim 7, wherein automatically initiating the encrypted channel between the client and the secure server avoids sending a true IP address of the secure server to the client.			
13. A computer readable medium storing a domain name server (DNS) module comprised of computer readable instructions that, when executed, cause a data processing device to perform the steps of: (i) determining whether a DNS request sent by a client corresponds to a secure server ; (ii) when the DNS request does not correspond to a secure server ,			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
forwarding the DNS request to a DNS function that returns an IP address of a nonsecure computer; and (iii) when the intercepted DNS request corresponds to a secure server , automatically creating a secure channel between the client and the secure server .			

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U.S. Patent No. 7,188,180				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
1. A method for accessing a secure computer network address, comprising steps of: receiving a secure domain name; sending a query message to a secure domain name service , the query message requesting from the secure domain name service a secure computer network address corresponding to the secure domain name ; receiving from the secure domain name service a response message containing the secure computer network address corresponding to the secure domain name ; and sending an access	virtual private network (claims 1, 4, 10, 17, 20, 26, 33)	a network of computers which privately communicate with each other by encrypting traffic on insecure communication paths between the computers	a network of computers which privately and directly communicate with each other by encrypting traffic on insecure communication paths between the computers where the communication is both secure and anonymous	
	domain name (claims 1, 17, 33)	a name corresponding to an IP address	a hierarchical sequence of words in decreasing order of specificity that corresponds to a numerical IP address	
	secure computer network address (claims 1, 17, 33)	[AGREED] a network address that requires authorization for access and is associated with a computer capable of virtual private network communications	[AGREED] a network address that requires authorization for access and is associated with a computer capable of virtual private network communications	a network address that requires authorization for access and is associated with a computer capable of virtual private network communications
	secure domain name (claims 1, 17, 33)	[AGREED] a non-standard domain name that corresponds to a secure computer network address and cannot be resolved by a	[AGREED] a non-standard domain name that corresponds to a secure computer network address and cannot be resolved by a conventional	a non-standard domain name that corresponds to a secure computer network address and cannot be resolved by a conventional DNS

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
request message to the secure computer network address using a virtual private network communication link.	secure domain name service (claims 1, 17, 33)	conventional DNS a lookup service that recognizes that a query message is requesting a secure computer address, and returns a secure computer network address for a requested secure domain name	DNS a non-standard lookup service that recognizes that a query message is requesting a secure computer address, and performs its services accordingly by returning a secure network address for a requested secure domain name
4. The method according to claim 1, wherein the response message contains provisioning information for the virtual private network .	domain name service (claims 17)	a lookup service that returns an IP address for a requested domain name	a lookup service that returns an IP address for a requested domain name to the requester
10. The method according to claim 1, wherein the virtual private network includes the Internet.			
17. A computer-readable storage medium, comprising: a storage area; and computer-readable instructions for a method for accessing a secure computer network address,			

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U.S. Patent No. 7,188,180			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
the method comprising steps of: receiving a secure domain name ; sending a query message to a secure domain name service , the query message requesting from the domain name service a secure computer network address corresponding to the secure domain name ; receiving from the domain name service a response message containing the secure computer network address corresponding to the secure domain name ; and sending an access request message to the secure computer network address using a virtual			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
private network communication link. 20. The computer-readable medium according to claim 17, wherein the response message contains provisioning information for the virtual private network. 26. The computer-readable medium according to claim 17, wherein the virtual private network includes the Internet. 33. A data processing apparatus, comprising: a processor, and memory storing computer executable instructions which, when executed by the processor, cause the apparatus to perform a method for accessing a secure computer			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
network address, said method comprising steps of: receiving a secure domain name; sending a query message to a secure domain name service, the query message requesting from the secure domain name service a secure computer network address corresponding to the secure domain name; receiving from the secure domain name service a response message containing the secure computer network address corresponding to the secure domain name; and sending an access request message to the secure computer network address			

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using a virtual private network communication link.			

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U.S. Patent No. 6,839,759				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
1. A method for establishing a secure communication link between a first computer and a second computer over a computer network, the method comprising steps of: enabling a secure communication mode of communication at the first computer without a user entering any cryptographic information for establishing the secure communication mode of communication; and establishing the secure communication link between the first computer and a second computer	secure communication link (claim 1, 10, 11, 12, 14, 16, 25, 27, 29)	an encrypted communication link	virtual private network communication link	
	between a/the first computer and a/the second computer (claims 1, 16)	[no construction necessary]	extending from a/the first computer to a/the second computer	
	cryptographic information (claims 1, 16)	information that is used to encrypt data or information that is used to decrypt data	information that is required in order to encode/decode or encrypt to ensure secrecy	
	enabling a/the secure communication mode of communication (claims 1, 2, 9, 16, 17, 24)	[no construction necessary]	using an input device to select a secure communication mode of communication	
	virtual private network (claim 16)	a network of computers which privately communicate with each other by encrypting traffic on insecure communication paths between the computers	a network of computers which privately and directly communicate with each other by encrypting traffic on insecure communication paths between the computers where the communication is both secure and anonymous	

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U.S. Patent No. 6,839,759			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
over a computer network based on the enabled secure communication mode of secure communication, the secure communication link being a virtual private network communication link over the computer network. 2. The method according to claim 1, further comprising steps of: determining whether a secure communication software module is stored on the first computer in response to the step of enabling the secure communication mode of communication; accessing a predetermined computer network			

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U.S. Patent No. 6,839,759			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
address for loading the secure communication software module when the software module is not stored on the first computer; and storing the software module in the first computer. 9. The method according to claim 1, wherein the step of enabling the secure communication mode of communication includes a step of entering a command into the first computer that specifies the secure communication mode. 10. The method according to claim 9, wherein the command is entered to define a setup parameter associated with the secure communication mode of communication, and wherein the secure			

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communication link is automatically established when a communication link is established over the computer network. 11. The method according to claim 1, wherein the step of enabling a secure communication link mode of operation includes a step of selecting an icon displayed on a display device of the first computer. 12. The method according to claim 1, further comprising a step of displaying an indication on a display of the first computer that the secure communication link is established. 14. The method according to claim 1,			

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U.S. Patent No. 6,839,759			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
wherein the secure communication link is one of a plurality of secure communication links in a hierarchy of secure communication links. 16. A computer-readable storage medium, comprising: a storage area; and computer-readable instructions for a method for establishing a secure communication link between a first computer and a second computer over a computer network, the method comprising steps of: enabling a secure communication mode of communication at a first computer without a user entering any			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
cryptographic information for establishing the secure communication mode of communication; and establishing a secure communication link between the first computer and a second computer over a computer network based on the enabled secure communication mode of communication, the secure communication link being a virtual private network communication link over the computer network.			
17. The computer-readable storage			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
medium according to claim 16, further comprising steps of: determining whether a secure communication software module is stored on the first computer in response to the step of enabling the secure communication mode of communication ; accessing a predetermined computer network address for loading the secure communication software module when the software module is not stored on the first computer; and storing the software module in the first computer.			
24. The computer-readable storage medium according to claim 16, wherein the step of enabling the secure communication			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
mode of communication includes a step of entering a command into the first computer that specifies the secure communication mode. 25. The computer-readable storage medium according to claim 24, wherein the command is entered to define a setup parameter associated with the secure communication mode of communication, and wherein the secure communication link is automatically established when a communication link is established over the computer network. 27. The computer-readable storage medium according to claim 16, further comprising a step of			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
displaying an indication on a display of the first computer that the secure communication link is established. 29. The computer-readable storage medium according to claim 16, wherein the secure communication link is one of a plurality of secure communication links in a hierarchy of secure communication links .			

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U.S. Patent No. 7,418,504				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
1. A system for providing a domain name service for establishing a secure communication link , the system comprising: a domain name service system configured to be connected to a communication network, to store a plurality of domain names and corresponding network addresses, to receive a query for a network address, and to comprise an indication that the domain name service system supports establishing a secure communication link .	secure communication link (claims 1, 9, 16, 17, 18, 22, 26, 28, 29, 33, 35, 40, 41, 42, 46, 50, 51, 52, 53, 57, 59, 60)	an encrypted communication link	virtual private network communication link	
	domain name service (DNS) (claims 1, 60)	a lookup service that returns an IP address for a requested domain name	a lookup service that returns an IP address for a requested domain name to the requester	
	domain name (claims 1, 2, 15, 16, 18, 20, 21, 26, 35, 36, 37, 39, 40, 42, 44, 45, 49, 50, 59, 60)	a name corresponding to an IP address	a hierarchical sequence of words in decreasing order of specificity that corresponds to a numerical IP address	
	domain name service system (claims 1, 5, 7, 8, 14, 15, 16, 17, 18, 20, 21, 22, 23, 27, 33, 35, 36, 41, 51, 57, 59, 60)	[no construction necessary] alternatively, VirnetX proposes: a computer system that includes a domain name service (DNS)	a DNS that is capable of differentiating between, and responding to, both standard and secure top-level domain names	
2. The system of claim 1, wherein at least one	an indication that the domain name service supports establishing a secure communication link (claim 1, 36, 60)	[no construction necessary]	a visible message or signal that informs the user that the domain name service system supports establishing a secure communication link	
	between a first location	[no construction]	extending from a first	

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
of the plurality of domain names comprises a top-level domain name. 5. The system of claim 2, wherein the domain name service system is configured to authenticate the query using a cryptographic technique. 7. The system of claim 1, wherein the domain name service system comprises an edge router. 8. The system of claim 1, wherein the domain name service system is connectable to a virtual private network through the communication network. 9. The system of claim 8, wherein the virtual private network is one	and a second location (claim 16, 27, 33, 40, 51, 57)	necessary]	location to a second location

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
of a plurality of secure communication links in a hierarchy of secure communication links. 14. The system of claim 1, wherein the domain name service system is configured to respond to the query for the network address. 15. The system of claim 1, wherein the domain name service system is configured to provide, in response to the query, the network address corresponding to a domain name from the plurality of domain names and the corresponding network addresses. 16. The system of claim 1, wherein the domain name service system is configured to receive the query initiated from a first location, the			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
query requesting the network address associated with a domain name, wherein the domain name service system is configured to provide the network address associated with a second location, and wherein the domain name service system is configured to support establishing a secure communication link between the first location and the second location. 17. The system of claim 1, wherein the domain name service system is connected to a communication network, stores a plurality of domain names and corresponding network addresses, and comprises an indication			

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U.S. Patent No. 7,418,504			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
that the domain name service system supports establishing a secure communication link .			
18. The system of claim 1, wherein at least one of the plurality of domain names is reserved for secure communication links .			
20. The system of claim 19, wherein the domain name service system further comprises a domain name database , and wherein the domain name database stores the plurality of domain names and the corresponding network addresses.			
21. The system of claim 1, wherein the domain name service system comprises a server,			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
wherein the server comprises a domain name database, and wherein the domain name database stores the plurality of domain names and the corresponding network addresses.			
22. The system of claim 1, wherein the domain name service system is configured to store the corresponding network addresses for use in establishing secure communication links .			
23. The system of claim 1, wherein the domain name service system is configured to authenticate the query for the network address.			
26. The system of claim 1, wherein at least one of the plurality of domain names enables			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
establishment of a secure communication link. 27. The system of claim 1, wherein the domain name service system is configured to enable establishment of a secure communication link between a first location and a second location transparently to a user at the first location. 28. The system of claim 1, wherein the secure communication link uses encryption. 29. The system of claim 1, wherein the secure communication link is capable of supporting a plurality of services. 33. The system of claim 1, wherein the domain name service system is			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
configured to enable establishment of a secure communication link between a first location and a second location. 35. The system of claim 1, wherein the domain name service system comprises a domain name database connected to a communication network and storing a plurality of domain names and corresponding network addresses for communication, wherein the domain name database is configured so as to provide a network address corresponding to a domain name in response to a query in order to establish a secure communication link.			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
36. A machine-readable medium comprising instructions executable in a domain name service system , the instructions comprising code for: connecting the domain name service system to a communication network; storing a plurality of domain names and corresponding network addresses; receiving a query for a network address; and supporting an indication that the domain name service system supports establishing a secure communication link.			
37. The machine-readable medium of			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
claim 36, wherein the instructions comprise code for storing the plurality of domain names and corresponding network addresses including at least one top-level domain name .			
39. The machine-readable medium of claim 36, wherein the instructions comprise code for providing, in response to the query, the network address corresponding to a domain name from the plurality of domain names and the corresponding network addresses.			
40. The machine-readable medium of claim 36, wherein the instructions comprise code for receiving the query for a network			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
address associated with a domain name and initiated from a first location, and providing a network address associated with a second location, and establishing a secure communication link between the first location and the second location. 41. The machine-readable medium of claim 36, wherein the instructions comprise code for indicating that the domain name service system supports the establishment of a secure communication link. 42. The machine-readable medium of claim 36, wherein the instructions comprise code for reserving at			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
least one of the plurality of domain names for secure communication links. 44. The machine-readable medium of claim 36, wherein the instructions comprise code for storing a plurality of domain names and corresponding network addresses so as to define a domain name database. 45. The machine-readable medium of claim 36, wherein the code resides on a server, and the instructions comprise code for creating a domain name database configured to store the plurality of domain names and the corresponding network addresses.			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
46. The machine-readable medium of claim 36, wherein the instructions comprise code for storing the corresponding network addresses for use in establishing secure communication links .			
49. The machine-readable medium of claim 36, wherein at least one of the plurality of domain names includes a secure name.			
50. The machine-readable medium of claim 36, wherein at least one of the plurality of domain names is configured so as to enable establishment of a secure communication link .			
51. The machine-			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
readable medium of claim 36, wherein the domain name service system is configured to enable establishment of a secure communication link between a first location and a second location transparently to a user at the first location.			
52. The machine-readable medium of claim 36, wherein the secure communication link uses encryption.			
53. The machine-readable medium of claim 36, wherein the secure communication link is capable of supporting a plurality of services.			
57. The machine-readable medium of claim 36, wherein the			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
domain name service system is configured to enable establishment of a secure communication link between a first location and a second location. 59. The machine-readable medium of claim 36, wherein the domain name service system comprises a domain name database connected to a communication network and storing a plurality of domain names and corresponding network addresses for communication, wherein the domain name database is configured so as to provide a network address corresponding to a domain name in response to the query in			

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U.S. Patent No. 7,418,504			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
order to establish a secure communication link. 60. A method of providing a domain name service for establishing a secure communication link, the method comprising: connecting a domain name service system to a communication network, the domain name service system comprising an indication that the domain name service system supports establishing a secure communication link; storing a plurality of domain names and corresponding network addresses; and receiving a query for a network address for			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
communication.				

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U.S. Patent No. 7,921,211				
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction	Court's Construction
1. A system for providing a domain name service for establishing a secure communication link , the system comprising: a domain name service system configured and arranged to be connected to a communication network, store a plurality of domain names and corresponding network addresses, receive a query for a network address, and indicate in response to the query whether the domain name service system supports establishing a secure communication link .	secure communication link (claims 1, 8, 9, 17, 18, 22, 26, 28, 29, 35, 42, 46, 50, 51, 52, 53, 57, 59, 60)	an encrypted communication link	virtual private network communication link	
	domain name service (DNS) (claims 1, 60)	a lookup service that returns an IP address for a requested domain name	a lookup service that returns an IP address for a requested domain name to the requester	
	domain name service system (claims 1, 5, 7, 8, 14, 15, 16, 17, 19, 20, 21, 22, 23, 27, 33, 35, 36, 41, 51, 57, 59, 60)	[no construction necessary] alternatively, VirnetX proposes: a computer system that includes a domain name service (DNS)	a DNS that is capable of differentiating between, and responding to, both standard and secure top-level domain names	
	domain name (claims 2, 15, 17, 18, 20, 21, 26, 35, 36, 37, 39, 40, 42, 44, 45, 49, 50, 59, 60)	a name corresponding to an IP address	a hierarchical sequence of words in decreasing order of specificity that corresponds to a numerical IP address	
2. The system of claim 1, wherein at least one	between the/a first location and the/a second location (claims 16, 27, 40, 51, 57)	[no construction necessary]	extending from the first location to the second location	
	indicate/indicating... whether the domain name service system	[no construction necessary]	display/displaying a visible message or signal that informs the user whether	

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
of the plurality of domain names comprises a top-level domain name. 5. The system of claim 2, wherein the domain name service system is configured to authenticate the query using a cryptographic technique. 7. The system of claim 1, wherein the domain name service system comprises an edge router. 8. The system of claim 1, wherein the domain name service system is connectable to a virtual private network through the communication network. 9. The system of claim 8, wherein the virtual private network is one	supports establishing a secure communication link (claims 36, 60)		the domain name service system supports establishing a secure communication link

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U.S. Patent No. 7,921,211			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
of a plurality of secure communication links in a hierarchy of secure communication links. 14. The system of claim 1, wherein the domain name service system is configured to respond to the query for the network address. 15. The system of claim 1, wherein the domain name service system is configured to provide, in response to the query, the network address corresponding to a domain name from the plurality of domain names and the corresponding network addresses. 16. The system of claim 1, wherein the domain name service system is configured to receive the query initiated from			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
a first location, the query requesting the network address associated with a domain name, wherein the domain name service system is configured to provide the network address associated with a second location, and wherein the domain name service system is configured to support establishing a secure communication link between the first location and the second location. 17. The system of claim 1, wherein the domain name service system is connected to a communication network, stores a plurality of domain names and corresponding network addresses, and			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
comprises an indication that the domain name service system supports establishing a secure communication link .			
18. The system of claim 1, wherein at least one of the plurality of domain names is reserved for secure communication links .			
19. The system of claim 1, wherein the domain name service system comprises a server.			
20. The system of claim 19, wherein the domain name service system further comprises a domain name database, and wherein the domain name database stores the plurality of domain names and the corresponding network			

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U.S. Patent No. 7,921,211			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
addresses. 21. The system of claim 1, wherein the domain name service system comprises a server, wherein the server comprises a domain name database , and wherein the domain name database stores the plurality of domain names and the corresponding network addresses.			
22. The system of claim 1, wherein the domain name service system is configured to store the corresponding network addresses for use in establishing secure communication links .			
23. The system of claim 1, wherein the domain name service system is configured to authenticate the query			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
for the network address.			
26. The system of claim 1, wherein at least one of the plurality of domain names enables establishment of a secure communication link .			
27. The system of claim 1, wherein the domain name service system is configured to enable establishment of a secure communication link between a first location and a second location transparently to a user at the first location.			
28. The system of claim 1, wherein the secure communication link uses encryption.			
29. The system of claim 1, wherein the secure communication link is			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
capable of supporting a plurality of services. 33. The system of claim 1, wherein the domain name service system is configured to enable establishment of a secure communication link between a first location and a second location .			
35. The system of claim 1, wherein the domain name service system comprises a domain name database connected to a communication network and storing a plurality of domain names and corresponding network addresses for communication, wherein the domain name database is configured so as to provide a network			

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U.S. Patent No. 7,921,211			
Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
address corresponding to a domain name in response to a query in order to establish a secure communication link. 36. A non-transitory machine-readable medium comprising instructions executable in a domain name service system, the instructions comprising code for: connecting the domain name service system to a communication network; storing a plurality of domain names and corresponding network addresses; receiving a query for a network address; and indicating in response to the query whether the			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
domain name service system supports establishing a secure communication link. 37. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for storing the plurality of domain names and corresponding network addresses including at least one top-level domain name. 39. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for providing, in response to the query, the network address corresponding to a domain name from the plurality of domain names and the			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
corresponding network addresses. 40. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for receiving the query for a network address associated with a domain name and initiated from a first location, and providing a network address associated with a second location, and establishing a secure communication link between the first location and the second location. 41. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for indicating that the domain name service			

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Disputed Claims	Disputed Claim Term or Phrase	Defendants' proposed Construction	Court's Construction
system supports the establishment of a secure communication link. 42. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for reserving at least one of the plurality of domain names for secure communication links. 44. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for storing a plurality of domain names and corresponding network addresses so as to define a domain name database. 45. The non-transitory machine-readable medium of claim 36,			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
wherein the code resides on a server, and the instructions comprise code for creating a domain name database configured to store the plurality of domain names and the corresponding network addresses. 46. The non-transitory machine-readable medium of claim 36, wherein the instructions comprise code for storing the corresponding network addresses for use in establishing secure communication links. 49. The non-transitory machine-readable medium of claim 36, wherein at least one of the plurality of domain names includes a secure name.			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
50. The non-transitory machine-readable medium of claim 36, wherein at least one of the plurality of domain names is configured so as to enable establishment of a secure communication link .			
51. The non-transitory machine-readable medium of claim 36, wherein the domain name service system is configured to enable establishment of a secure communication link between a first location and a second location transparently to a user at the first location.			
52. The non-transitory machine-readable medium of claim 36, wherein the secure			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
communication link uses encryption. 53. The non-transitory machine-readable medium of claim 36, wherein the secure communication link is capable of supporting a plurality of services. 57. The non-transitory machine-readable medium of claim 36, wherein the domain name service system is configured to enable establishment of a secure communication link between a first location and a second location. 59. The non-transitory machine-readable medium of claim 36, wherein the domain name service system comprises a domain name database			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
connected to a communication network and storing a plurality of domain names and corresponding network addresses for communication, wherein the domain name database is configured so as to provide a network address corresponding to a domain name is response to the query in order to establish a secure communication link .			
60. A method of providing a domain name service for establishing a secure communication link , the method comprising: connecting a domain name service system to a communication network, storing a plurality of			

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Disputed Claims	Disputed Claim Term or Phrase	VirnetX's proposed Construction	Defendants' proposed Construction
domain names and corresponding network addresses; and upon receiving a query for a network address for communication, indicating whether the domain name service system supports establishing a secure communication link.			

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