Compare Results

Old File:

Cisco Dec pgs 26-110 from Cisco Ex 1003 4926-3216-0885 v.1 4905-4790-8726 v.1.pdf

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versus

New File:

Citrix Dec pgs 43-101 Citrix EX1002 - Expert Declaration of Clay Shields (copy) 4933-3732-8245 v.1 4912-3688-8950 v.1.pdf

59 pages (759 KB)
10/28/2025 12:08:56 PM

Total Changes

835

Text only comparison

Content

508 Replacements
118 Insertions
209 Deletions

Styling and Annotations

0 Styling
0 Annotations

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D. Motivation to Combine Gleichauf and Ovadia

62. In my opinion, a POSITA when considering the teachings of Gleichauf would have also considered the teachings of Ovadia, as both relate to providing secure access when an individual computerized device connects to a network. EX1004, 3:4-9; EX1005, 1:8-11. A POSITA would have been motivated to combine the teachings of Gleichauf and Ovadia for multiple reasons and doing so would have been within the POSITA's skillset. The combination would have been obvious because it merely uses known techniques (e.g., Ovadia's trusted platform module security infrastructure and digital signatures) to improve a similar method (e.g., Gleichauf's authentication and authorization of devices seeking network access) in the same way.

63. In my opinion, a POSITA would have been motivated to take advantage of Ovadia's use of a trusted platform module—as described in the Trusted Computing Group "platform-independent industry specification"—because it would standardize Gleichauf's posture credentials. EX1005, 4:32-35; EX1014, 2 (TCG was formed as an "industry-standards organization with the aim of enhancing the security of the computing environment in disparate computer platforms."). A TCG-defined TPM can advantageously be used to provide asset

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tracking functionalities, collect and report (in a trusted manner) platform configuration information, and secure client-server communications. EX1014, 2-4; EX1016, ¶11 ("The TCPA architecture includes an isolated computing engine, or trusted platform module (TPM) (not shown), whose processes can be trusted because they cannot be altered. … Additionally, the TPM may encrypt or wrap data, such as a key, and may bind or seal an internally generated asymmetric key pair to a particular TPM and/or a particular platform configuration."); EX1012, 2:8-11 (TCPA is the former name of TCG); EX1019, ¶¶3-4. Put differently, following the industry standard, as described in Ovadia, would benefit Gleichauf's system by formatting a device's posture credentials consistently and with substantially the same information, regardless of the device's manufacturer or components. This would also allow Gleichauf's policy server to process posture credentials that were received, in a trusted manner, more efficiently and in substantially the same way regardless of the device providing the credentials. Following the industry standard would also promote the interoperability of devices from diverse manufacturers. Ensuring the interoperability of devices is a common and important goal in the computer networking arts.

94. Ovadia describes applying technology from the "Trusted Computing Group (TCG)" which addresses "network security" and "covers trust in computing platforms in general." EX1005, 4:16-35. A POSITA would thus have understood

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64. Ovadia describes applying technology from the "Trusted Computing Group (TCG)" which addresses "network security" and "covers trust in computing platforms in general." EX1005, 4:16-35. A POSITA would thus have understood

that the trusted computing and authentication technologies described in Ovadia are not limited to the wireless networks Ovadia describes but instead are generally applicable to networks—like Gleichauf's—that condition network access on authentication and authorization of client devices.

65. In my opinion, the combination also would have been obvious because it applies the known technique of digitally signing an attestation about the state of a device to make its authentication more secure (as in Ovadia) with the known network authorization process of analyzing a device's security posture credentials, including its authentication (as in Gleichauf) to yield predictable results. In my opinion, a POSITA would have been familiar with the use of digital signatures to prove the integrity and authenticity of network communications and would have recognized that Ovadia's digital signature technique would improve Gleichauf's process by increasing resistance to forged or tampered-with posture credentials. EX1008, ¶33. In my opinion, a POSITA also would have recognized that use of a digital signature would improve Gleichauf's process by enabling the policy server to confirm that the posture credentials originated with the device attempting to access the network.

66. In my opinion, a POSITA also would have been motivated to combine the teachings of Gleichauf and Ovadia because Ovadia provides additional details regarding implementation of Gleichauf's techniques. Gleichauf provides that

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66. In my opinion, a POSITA also would have been motivated to combine the teachings of Gleichauf and Ovadia because Ovadia provides additional details regarding implementation of Gleichauf's techniques. Gleichauf provides that

"policy server 28 authenticates an identity of the computerized device 22 to generate an authentication result." EX1004, 22:3-5. Ovadia explains that one way to authenticate a device is to check that device's digital signature. EX1005, 16:30-32. It would have been obvious to a POSITA to use Ovadia's digital signatures as a way of performing Gleichauf's device authentication.

97. In my opinion, a POSITA would have had a reasonable expectation of success in combining Gleichauf and Ovadia. Notably, components of Ovadia's trusted computing architecture have corresponding components in Gleichauf's architecture, and a POSITA would have recognized how the descriptions provided for components in Ovadia would be applicable to the corresponding components in Gleichauf. For example, similar to the posture agent in Gleichauf, which gathers information about the device's "configuration state," Ovadia uses "an authentication agent to determine the state of a platform environment" and generate an "integrity measurement." EX1004, 3:8, 12:21-31; EX1005, 4:40-43, 14:1-6; Fig. 8. Ovadia's integrity measurement is stored in the trusted platform module. EX1005, 13:61-63, Fig. 8. The integrity measurement is then provided to an authentication server as part of authentication data in response to an authentication challenge, which is analogous to Gleichauf's sending the posture credentials of a device to a policy server in response to requests to authenticate the device. EX1005, 4:43-45, 13:61-63, Fig. 8; EX1004, 10:63-11:3. Ovadia's

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integrity measurement is "digitally signed with appropriate keys" before it is sent to the authentication server. EX1005, 13:63-64, Fig. 8. A POSITA would have understood that Ovadia's trusted platform module generates and sends the integrity measurement because the integrity measurements are digitally signed with an Attestation Integrity Key (AIK) and "AIKs are only permitted to sign data generated by a TPM." EX1005, 14:9, 5:35-36. In my opinion, it would have been obvious to a POSITA to implement Gleichauf's posture agent with trusted platform module functionality, e.g., the ability to store, provide, and digitally sign integrity measurements, as taught in Ovadia, to provide security assurances available with digital signatures and limited-use integrity keys. Such a combination would have involved application of known techniques (e.g., trusted platform module functionality) to improve the network security of Gleichauf's computerized devices in the same way in which Ovadia's trusted platform module operates (e.g., storing, providing, and digitally signing integrity measurements). Such a combination would also have involved the combination of prior art elements (e.g., combining Ovadia's well-known trusted platform module with Gleichauf's computerized devices) according to known methods to yield predictable results (improved network security to Gleichauf's computerized devices).

68. Both references also describe providing a message with an explanation to the user of the device if the posture credentials or integrity

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88. Both references also describe providing a message with an explanation to the user of the device if the posture credentials or integrity

measurement is not accepted. EX1004, 4:50-67; EX1005, 16:62-65. In my opinion, the analogous architectures of Gleichauf's and Ovadia's respective systems—together with the fact that they both solve similar problems within the same field of network access authentication—would have provided a POSITA with a reasonable expectation of success in combining their disclosures. In my opinion, the predictability of their combination is also consistent with, and supported by, Gleichauf's and Ovadia's mutual acknowledgements that a POSITA would have had the skills to make "various changes in form and details" to their described embodiments. EX1004, 27:24-29; EX1005, 18:64-19:4.

69. In my opinion, the proposed combination permits but do not require physical incorporation of elements from Ovadia into Gleichauf.

E. Motivation to Combine Gleichauf, Ovadia, and Lewis

70. In my opinion, a POSITA when considering the teachings of Gleichauf and Ovadia would have also considered the teachings of Lewis, as all of the references relate to providing secure access when an individual computerized device connects to a network. EX1004, 3:4-9; EX1005, 1:8-11; EX1006, 4:7-9. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis for multiple reasons and doing so would have been within the POSITA's skillset. The combination would have been obvious because it uses the known technique of redirection of device traffic to a quarantine server

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that serves a webpage to the device, as in Lewis, to improve a similar method of traffic redirection, as in Gleichauf, in the same way.

71. In my opinion, the combination would also have been obvious because it is merely the application of Lewis's known technique of serving a webpage to a quarantined device with information and remediation instructions to Gleichauf's and Ovadia's known methods of providing a notification message identifying reasons for quarantine, yielding predictable results. In my opinion, a POSITA would have known that serving a webpage with remediation instructions to a quarantined device from a quarantine server would beneficially provide information to the user while simultaneously preventing the device from accessing protected network resources. EX1006, 10:61-66, 13:63-14:1. Lewis's quarantine webpage would also be advantageous to Gleichauf's or Ovadia's notification message. Gleichauf discloses notifications in the form of "extensible messaging format, such as a Type-Length-Value (TLV) or an extensible markup language (XML) format" which "are well-defined, application independent form for representing information or data." EX1004, 20:56-60. In comparison, Lewis's webpage served by the quarantine server is displayed in the browser that a user already has opened. Therefore, modifying the XML/TVL notification approach in Gleichauf to Lewis's webpage based notifications would advantageously avoid

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necessitating additional software components running on the device to receive and display the notification message to the user. EX1004, 4:56-60; EX1005, 16:62-65.

72. In my opinion, serving a webpage from a quarantine server would also provide the quarantined device's user the option to proceed with the remediation or terminate the connection attempt. A user attempting to access the network from a fixed location (e.g., an office) may have time to proceed with remediation. In this instance, the webpage would direct the user to a remediation server that can resolve the security issues per Gleichauf. EX1004, 5:4-11. A user that does not have the time to remediate security issues (e.g., a user attempting access from an airport terminal) may opt to terminate the connection attempt. In my opinion, a POSITA would have understood the benefits of giving the user the option to choose their desired course of action.

73. Additionally, A POSITA at the time would have understood that directing a user to a quarantine server rather than a remediation server would provide business benefits as well. Patch management and its associated costs and complications was well known at the time. EX1027, xxi-xxii, 2. While it was possible to redirect a system joining to the network to a Microsoft Update server, which would be the remediation server of the patent, doing so might cause wasted bandwidth from duplicate download and would not allow an organization's IT service to track what updates were installed on the system. Instead, in my opinion,

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a POSITA would have understood that directing the system to a quarantine server would allow distribution of a locally-downloaded and cached version of system updates, saving network bandwidth, and would enable maintenance of a central database of what was installed and updated on each system. These are all part of normal IT operations and would be enabled by use of the quarantine server. Additionally, a system that required updates from several sources (e.g., Microsoft, Adobe, Oracle, etc.) could place those updates on one server, instead of requiring repeated attempts at joining the network and redirection to a variety of remediation servers.

74. In my opinion, a POSITA would have had a reasonable expectation of success in combining the teachings of Gleichauf and Ovadia with Lewis. As explained, Gleichauf's policy server sends a notification message to a quarantined device with information and remediation instructions. EX1004, 5:4-11. Put differently, the policy server identifies whether a device is to be quarantined and, if it is, what actions should be taken to remediate the security issue before the device is allowed access to the network. EX1004, 7:3-8, 4:60-63. A POSITA would have found it straight-forward to provide the contents of Gleichauf's notification message in a webpage since doing so would display the contents of the message to the user in the browser the user is already using. In my opinion, such a

a POSITA would have understood that directing the system to a quarantine server would allow distribution of a locally-downloaded and cached version of system updates, saving network bandwidth, and would enable maintenance of a central database of what was installed and updated on each system. These are all part of normal IT operations and would be enabled by use of the quarantine server. Additionally, a system that required updates from several sources (e.g., Microsoft, Adobe, Oracle, etc.) could place those updates on one server, instead of requiring repeated attempts at joining the network and redirection to a variety of remediation servers.

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modification involves a software change that is straightforward and is within the skillset of a POSITA at the alleged time of invention.

75. In my opinion, the proposed combinations permit but do not require physical incorporation of elements from Lewis and Ovadia into Gleichauf.

F. Claim 1

76. In my opinion, claim 1 would have been obvious to a POSITA at the time of the invention, in view of the combination of Gleichauf, Ovadia, and Lewis.

1. [1pre] A method for protecting a network, comprising:

77. In my opinion, Gleichauf discloses a "computer-implemented method to control access to resources in a network." EX1004, 27:61-62. Gleichauf's method protects the network by decreasing the likelihood of malware or virus infection and ensuring that the device attempting to access the network is authorized and is the device it claims to be. EX1004, 5:55-60, 7:56-61, 8:16-31, 12:57-67.

2. [1a] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network,

78. In my opinion, Gleichauf discloses this limitation.

79. Gleichauf describes a "computerized device, such as a personal computer attempting to communicate with restricted resources in the network." EX1004, 3:50-56, 8:1-4. Figure 1 illustrates the computerized device sending an access request to the network ("*attempting to connect to a protected network*"):

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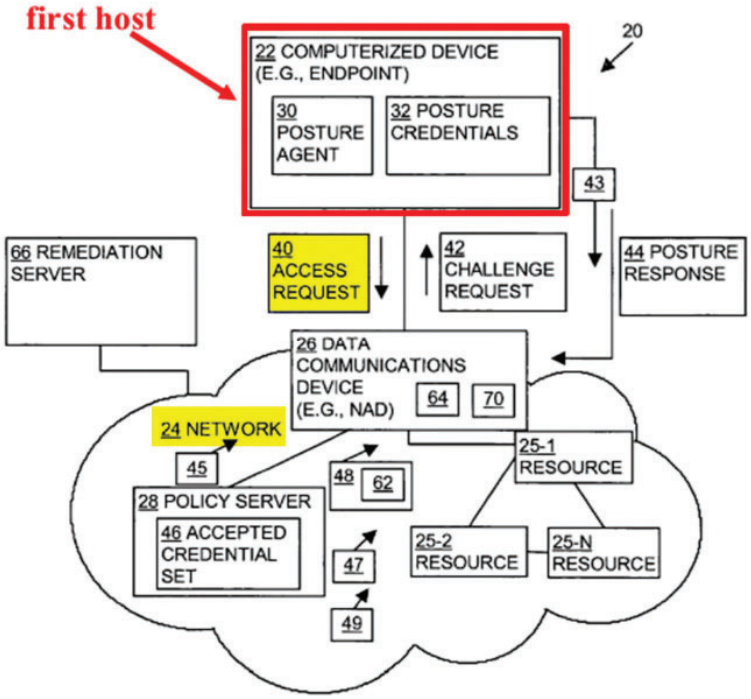
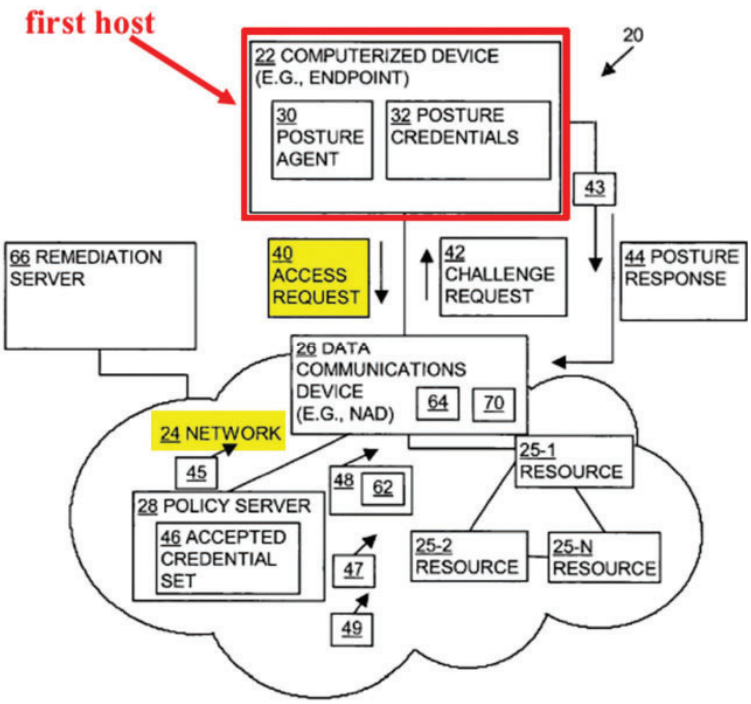
79. Gleichauf describes a "computerized device, such as a personal computer attempting to communicate with restricted resources in the network." EX1004, 3:50-56, 8:1-4. Figure 1 illustrates the computerized device sending an access request to the network ("*attempting to connect to a protected network*"):



EX1004, FIG. 1. Gleichauf's computerized device is a *first host,* and, the network, which contains resources protected by access control measures, is a *protected network.* In my opinion, the computerized device's attempt to access the restricted network resources through an access request shows that the device has *connected or is attempting to connect* to the network.

90. Gleichauf's policy server *detects an insecure condition* in the computerized device. The device's attempt to connect to the network triggers a "posture based challenge-response" exchange where the device transmits its posture credentials to the network. EX1004, 11:29-32. The posture credentials contain "critical security information" including information about the "particular



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80. Gleichauf's policy server *detects an insecure condition* in the computerized device. The device's attempt to connect to the network triggers a "posture based challenge-response" exchange where the device transmits its posture credentials to the network.[10] EX1004, 11:29-32. The posture credentials contain "critical security information"[11] including information about the "particular

[12]

virus software and virus definition versions" installed on the device. EX1004, 3:36-45. The policy server analyzes these posture credentials and *detects* the absence "of an anti-virus application (e.g., or an up-to-date anti-virus application or virus definition file)." EX1004, 14:16-34. Devices that "are not configured with anti-virus or up-to-date anti-virus applications" are considered "vulnerable" because "network resources [may] become 'infected' with malware carried by the 'vulnerable' [computerized] user device 22." EX1004, 22:38-59, 11:58-12:13. A device would also be vulnerable to any malware that might be transmitted by network resources. EX1004, 1:10-14, 8:52-56. Thus, in my opinion, the absence of an anti-virus application or up-to-date anti-virus application is an example of an *insecure condition.*

81. Gleichauf also describes other examples of a potential *insecure condition,* such as "the version of operating systems used by the user device 22 or the presence of updated 'patches' associated with the operating systems" and "when was the last time a local antivirus scan was executed." EX1004, 1:65-2:3, 8:65-9:1, 3:36-45, 31:1-7. Gleichauf explains that there may be "known vulnerabilities in the device operating system, resident applications, associated security programs, and their respective configurations." EX1004, 1:65-2:3. Additional examples of a potential *insecure condition* are discussed *infra* at [1d] in relation to the *attestation of cleanliness.*

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92

82. In my opinion, by gathering information relating to a computerized device's vulnerabilities—such as the presence of an up-to-date anti-virus application and operating system patches or when an anti-virus scan was last run—Gleichauf discloses *detecting an insecure condition.*

3. [1b] wherein detecting the insecure condition includes contacting a trusted computing base associated with a trusted platform module within the first host,

83. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation.

84. Gleichauf's computerized device includes a "posture agent" and one or more "posture plug-ins" installed on the device that collect information about the device's security posture. EX1004, 3:9-16. The posture agent accesses information collected by each plug-in using an API implemented by each plug-in manufacturer and prepares posture credentials that it transmits to the policy server for analysis and access control. EX1004, 9:24-39. Gleichauf's posture agent is "embodied as a software or hardware application." EX1004, 9:29-39. Since the posture credentials are used to secure access to the restricted resources, in my opinion, a POSITA would have understood that the combined functionality of the posture agent and plug-ins is part of the mechanism that provides such security. Thus, the combined functionality of the posture agent and plug-ins is a *trusted*

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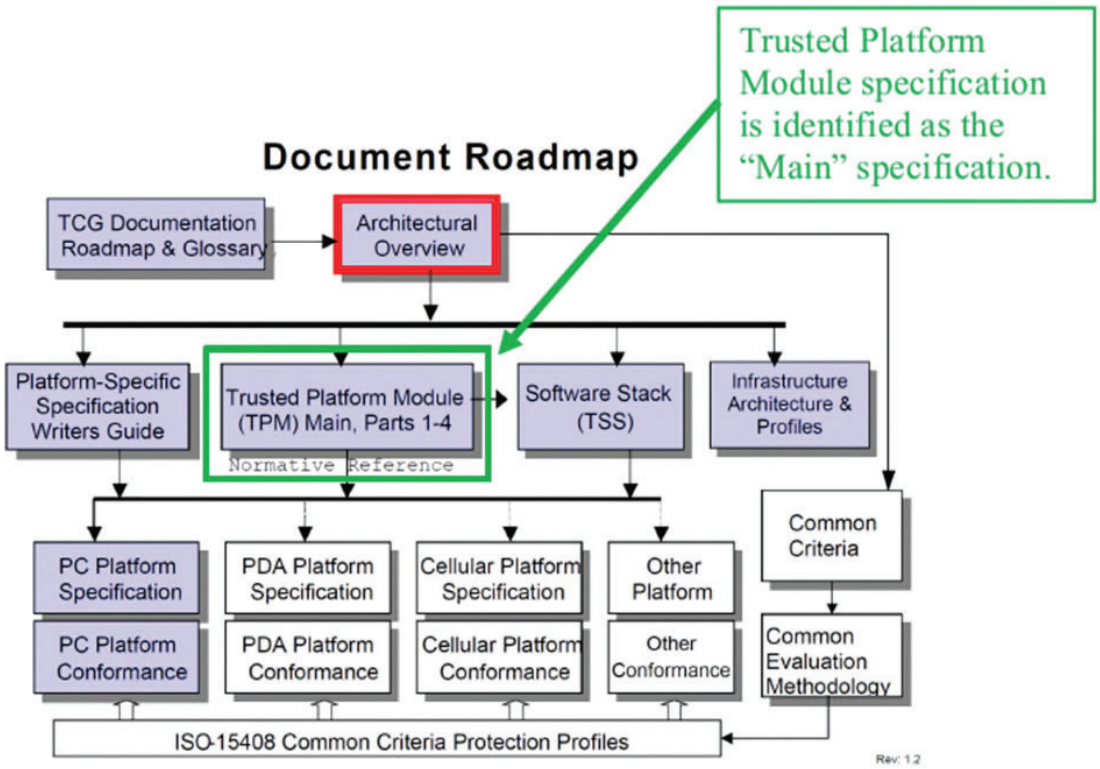
computing base within the computerized device that provides security Gleichauf's data communication system. §III(D)(1) (construction of "trusted computing base").

85. In my opinion, Ovadia discloses a security apparatus that employs a trusted platform module implementing the Trusted Computing Group "main specification (Version 1.2, October 2003…)." EX1005, 4:16-47. The main specification from TCG is the Trusted Platform Module Main Specification:



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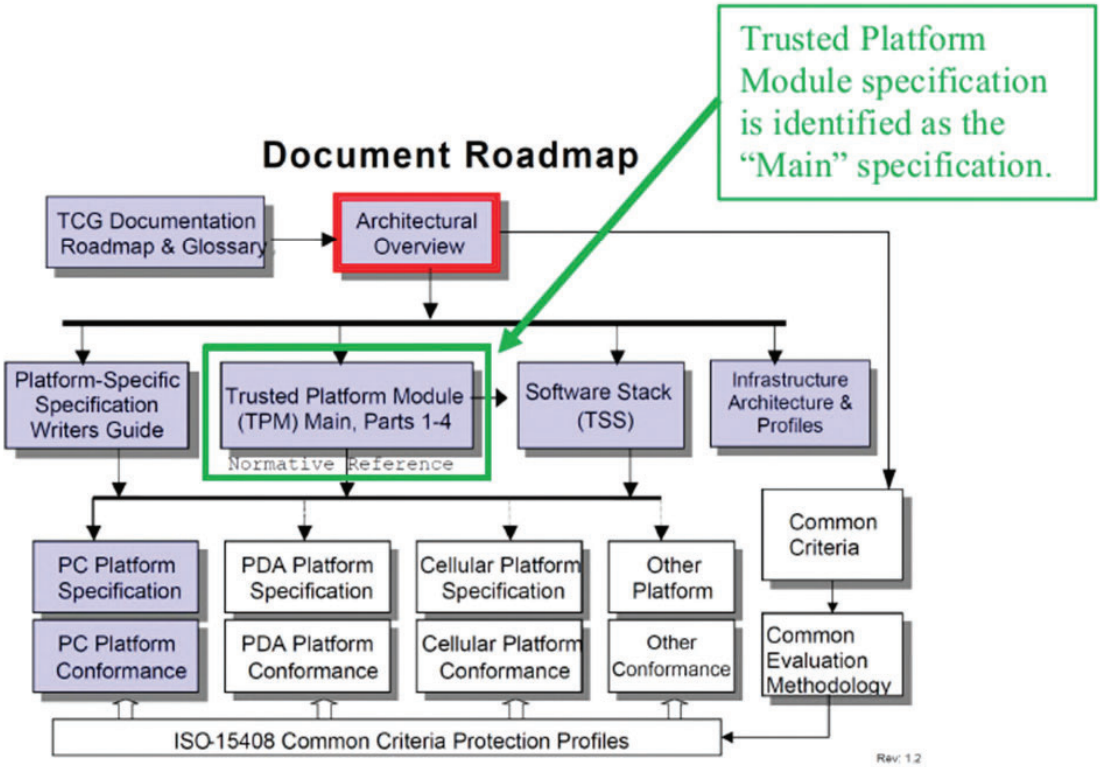

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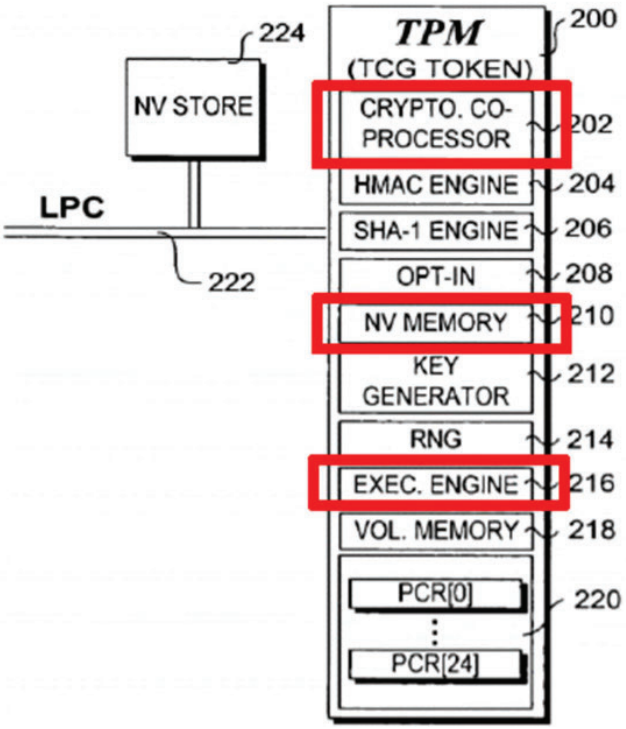
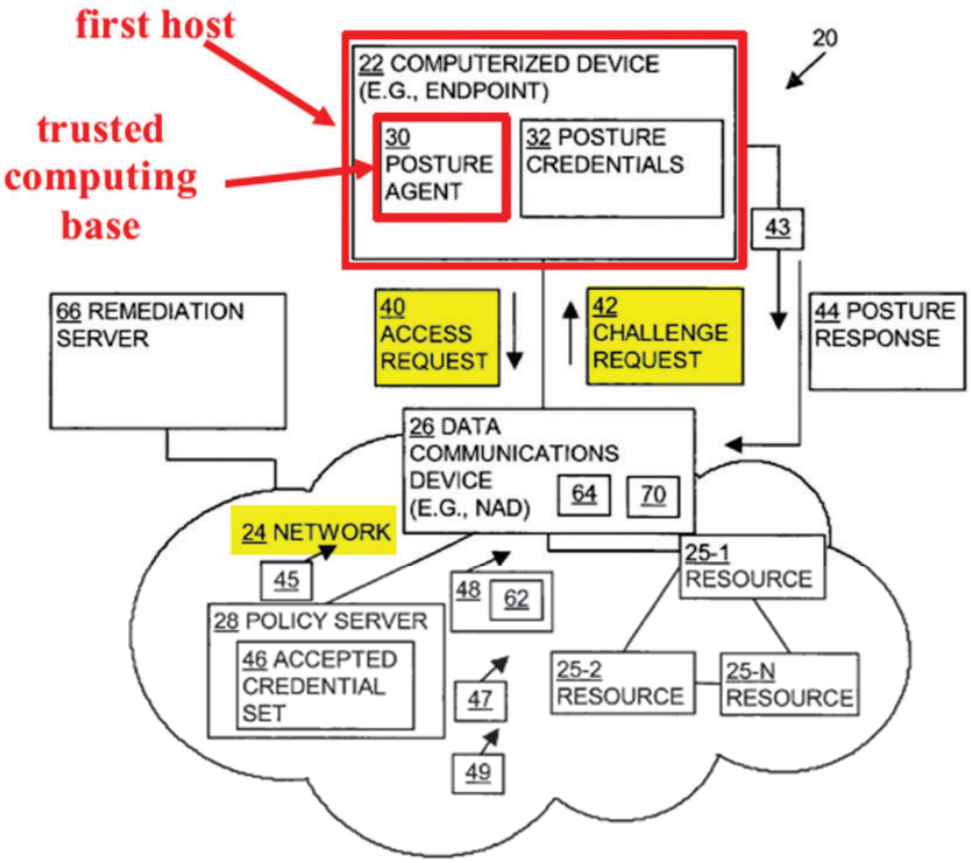
86. Ovadia's trusted platform module implements the Trusted Platform Module main specification from the TCG and includes a "cryptographic co-

processor," "non-volatile (NV) memory," and an "execution engine." EX1005, 4:46-55, Fig. 2. Since Ovadia's trusted platform module implements the Trusted Platform Module main specification, in my opinion, it would have been obvious to a POSITA that the non-volatile memory stores cryptographic keys because that is how it is described in the main specification. EX1013, 19; EX1008, 19; EX1005, FIG. 2:



87. Further, Gleichauf's policy server *contacts* the computerized device's posture agent, which prompts the posture agent to collect the device's posture credentials from the posture plug-ins. EX1004, 4:7-11, 3:28-36. Gleichauf's Figure 1, below, shows the posture agent *within* the device:



EX1004, FIG. 1. In my opinion, it would have been obvious to a POSITA that the *trusted platform module* would likewise be *within* the device. Therefore, in my opinion, Ovadia's trusted platform module is a *trusted platform module* as claimed. §III(D)(2) (construction of "trusted platform module"). Furthermore, in my opinion, the "computerized device" constitutes the hardware portion of the trusted computing base.

88. Ovadia's trusted platform module "may be embodied as a hardware device (most common) or via software." EX1005, 4:24-26. Like Gleichauf's

posture agent, Ovadia's trusted platform module is used "to verify [that] a current configuration of a subscriber station platform is an authorized configuration." EX1006, Abstract. The configuration (called the integrity measurement) includes information about the subscriber station, including the "current measurement of the firmware and/or software" of the station. EX1006, 13:57-14:12.

89. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf and Ovadia and doing so would have been within the POSITA's skillset. §IV(D) (motivation to combine). A POSITA would have appreciated the value in implementing Gleichauf's posture agent with trusted platform module functionality. §IV(D) (motivation to combine). The TCG, which prepares the TCG specification discussed above, is "an **industry consortium** concerned with platform and network security." EX1005, 4:31-32. The TCG specification is a "**platform-independent industry specification** that covers trust in computing platforms" as well as how to implement and use trusted platform modules. EX1005, 4:32-35, 4:22-24. Implementing Gleichauf's posture agent with trusted platform module functionality would provide consistency among posture credentials generated by such posture agents operating on various computerized devices. On the device side, a posture agent implemented with trusted platform module functionality would operate consistent with the TCG specification, regardless of the device it is running on, and operation of such trusted platform

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modules would be consistent throughout the adopting industry. In my opinion, on the network side, a policy server receiving Gleichauf's posture credentials would process them more quickly and with more confidence. Indeed, the policy server would be able to process all received posture credentials in substantially the same way because such credentials would have been gathered in substantially the same way. In the combination, Gleichauf's posture agent would be implemented with trusted platform module functionality, i.e., a *trusted platform module,* per Ovadia.

90. For example, in my opinion, one straight-forward way a POSITA would have implemented Gleichauf's posture agent with trusted platform module functionality would be for the posture agent software to be executed in combination with the execution engine in Ovadia's trusted platform module. EX1005, Fig. 2. The posture agent implemented with trusted platform module functionality would interface with Gleichauf's posture plug-ins in the same way disclosed in Gleichauf by using the "posture plug-in API [application programming interface]" to collect information requested by Gleichauf's policy server. EX1004, 9:24-28. With the posture agent executing in combination with the trusted platform module execution engine, the information collected by the posture agent would be "data generated by a TPM" and thus eligible for digital signature under the Trusted Platform Module main specification. EX1005, 5:36.

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91. As another example, in an implementation of Gleichauf's posture agent with trusted platform module functionality the posture agent software would simply be integrated with a software-implemented trusted platform module. EX1005, 4:24-26 ("TPM functionality may be embodied… via software."). In my opinion, with the posture agent (part of the *trusted computing base*) executing on the TPM hardware or integrated with the TPM software, the functionality of the posture agent and posture plug-ins would be *associated with a trusted platform module.*

4. [1c] [wherein detecting the insecure condition includes …] receiving a response, and

92. In my opinion, Gleichauf discloses this limitation. Gleichauf's posture agent responds to the policy server's request by collecting the computerized device's posture credentials from the one or more posture plug-ins and transmitting the credentials in a posture response to the policy server. EX1004, 3:28-36, 4:11-15. Gleichauf's Figure 1 illustrates the transmission and reception of posture credentials:

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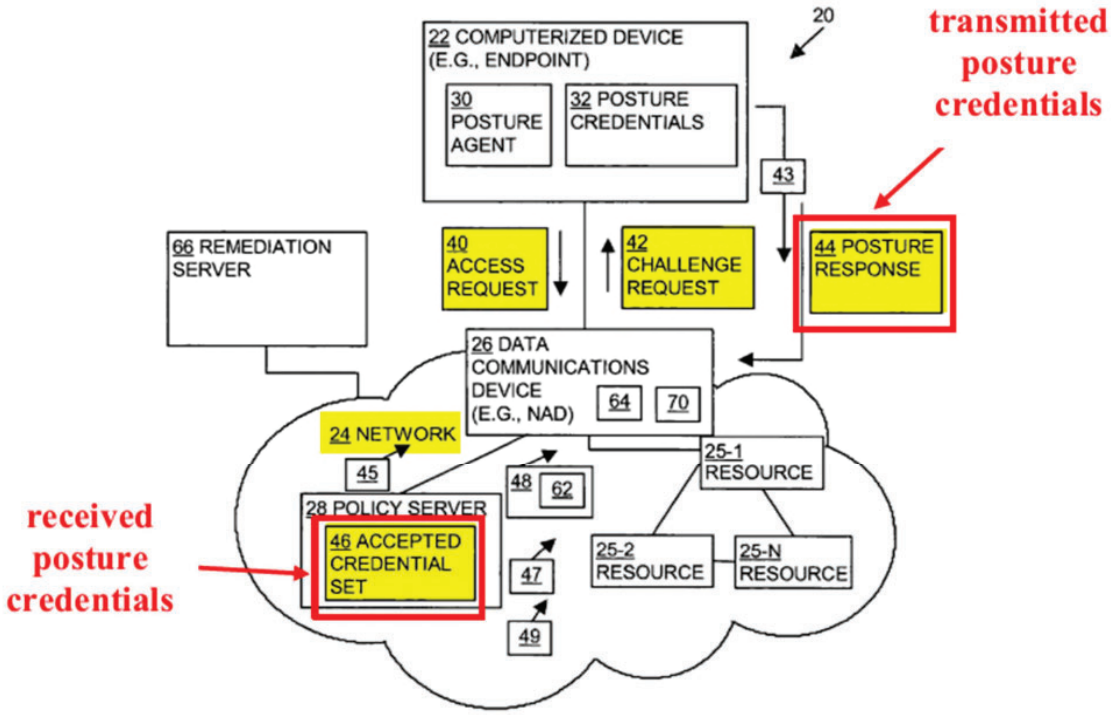

EX1004, FIG. 1. Thus, in my opinion, the policy server "*receiv[es] a response*" to its request for the posture credentials.

9. [1d] [wherein detecting the insecure condition includes …] determining whether the response includes a valid digitally signed attestation of cleanliness,

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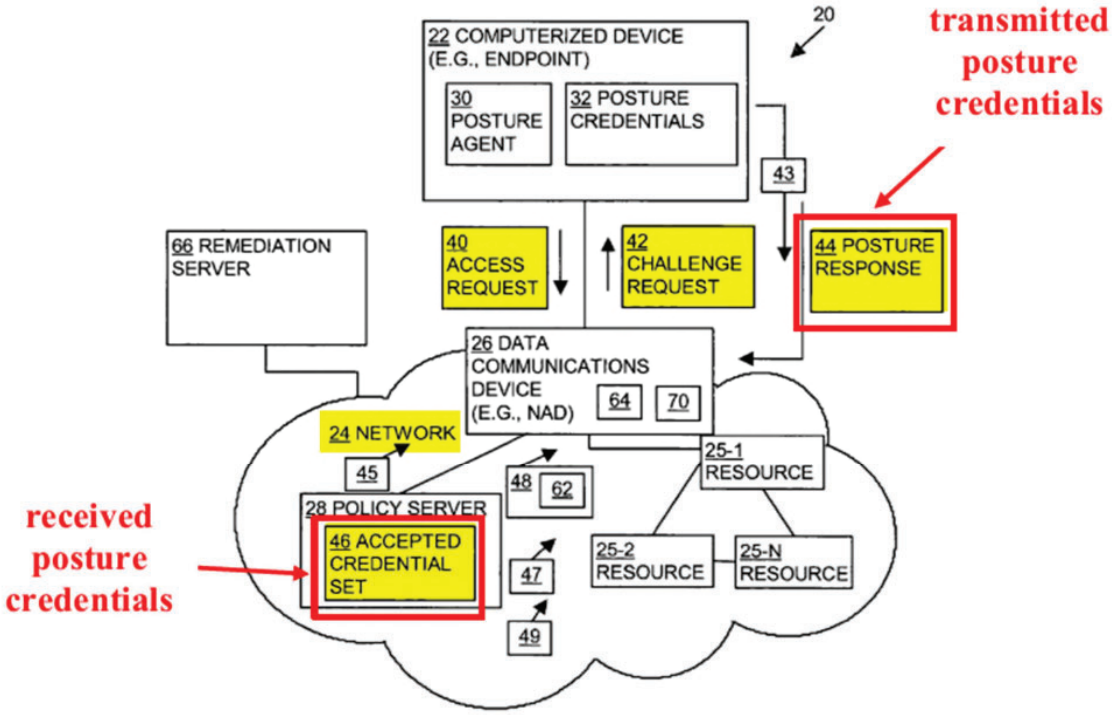
94. As discussed above, Gleichauf's posture response includes posture credentials. §IV(F)(4) (limitation 1c). The posture credentials received by the policy server contain information such as "what particular virus software and virus definition versions are installed," "when was the last time a local antivirus scan



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95. The policy server analyzes and "validate[s] the posture credentials" (i.e., "*determining whether the response includes a valid ... attestation of cleanliness").* EX1004, 10:30-33. For example, the policy server checks for (i.e., "*determin[es]")* the presence of an anti-virus application. EX1004, 10:30-33. If a current anti-virus application is present, the computerized device will be allowed to access the network resources, which demonstrates that the policy server deemed the response to include "*a valid ... attestation of cleanliness."* EX1004, 11:45-58. If a current anti-virus application is absent, the device's access to the network will be restricted, which demonstrates that the policy server deemed the response to lack "*a valid ... attestation of cleanliness.*" EX1004, 11:58-67.

96. The posture agent "securely transmit[s]" posture credentials to the policy server. EX1004, 11:3-12.

97. Ovadia provides further details about secure transmission of a device's configuration information for the purpose of requesting access to a network. Like the device in Gleichauf, Ovadia's subscriber station seeking network access uses its trusted platform module to respond to an authentication request by taking a "current measurement of the firmware and/or software configuration" and

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uses this as a "current integrity measurement." EX1005, 14:1-6. The integrity measurement is stored in the trusted platform module. EX1005, 13:61-63, Fig. 3. The integrity measurement is then used to produce a value that is "**digitally signed** with the SS's [subscriber station's] AIK [Attestation Integrity Key] private key, and sent to the AS [Authentication Server]." EX1005, 14:6-10. The subscriber station "is authenticated" and allowed access to the network if the integrity measurement is acceptable and "the digital signature is authentic." EX1005, 14:13-23, 16:66-17:6.

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uses this as a "current integrity measurement." EX1005, 14:1-6. The integrity measurement is stored in the trusted platform module. EX1005, 13:61-63, Fig. 8. The integrity measurement is then used to produce a value that is "**digitally signed** with the SS's [subscriber station's] AIK [Attestation Integrity Key] private key, and sent to the AS [Authentication Server]." EX1005, 14:6-10. The subscriber station "is authenticated" and allowed access to the network if the integrity measurement is acceptable and "the digital signature is authentic." EX1005, 14:13-23, 16:66-17:6.

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credentials have not been forged or tampered with. Ovadia explains that a device's integrity measurements (*e.g.,* posture credentials) are digitally signed with an Attestation Integrity Key (AIK), and that "AIKs are only permitted to sign data generated by a TPM." EX1005, 14:9, 5:35-36. Since only the trusted platform module (Gleichauf's posture agent implemented with trusted platform module functionality (§IV(F)(3) (limitation 1b)) could produce a valid digital signature and the trusted platform module would only sign posture credentials that it prepares itself, Gleichauf's policy server would have an assurance that posture credentials with a valid digital signature were authentic and correct. Put differently, the policy server would be assured that a virus or other malware on the computing device had not tampered with or forged the posture credentials to hide their presence on the computing device. In my opinion, it would have been obvious to a POSITA to apply Ovadia's teaching of digitally signing an integrity measurement of a device's configuration information to Gleichauf's transmission of a device's posture credentials. In the combination, Gleichauf's posture credentials, prepared by the posture agent implemented with trusted platform module functionality, would be digitally signed, as taught by Ovadia. In my opinion, a POSITA would have further found it obvious to substitute Ovadia's teachings of digitally signing the integrity measurement for Gleichauf's generic recitation of secure transmission. §IV(D) (motivation to combine).

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9. [1e] wherein the valid digitally signed attestation of cleanliness includes at least one of an attestation that the trusted computing base has ascertained that the first host is not infested, and an attestation that the trusted computing base has ascertained the presence of a patch or a patch level associated with a software component on the first host;

99. In my opinion, Gleichauf discloses and/or renders this limitation obvious.

100. The computerized device's posture credentials transmitted to the policy server (the "attestation of cleanliness" in §IV(F)(5) (limitation 1d)), contain information about "the last time a local antivirus scan was executed." EX1004, 3:41. Gleichauf expressly contemplates that failure to show "timely execution of the anti-virus application" is a failure to show cleanliness and results in restrictions on network access. EX1004, 22:38-47. In my opinion, it would have been understood to a POSITA that the opposite showing would have had the opposite effect. In other words, it would have been well understood from the disclosure that a posture credential that does show timely execution of the anti-virus application is to be treated as "an attestation that the trusted computing base has ascertained that the first host is not infested."

101. The posture credentials also contain information about "what particular virus software and virus definition versions are installed," "what operating system patches are installed," and what "types and versions of software applications" are on the device. EX1004, 3:36-49. In my opinion, such information

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concerning patches associated with software is "*an attestation that the trusted computing base has ascertained the presence of a patch or a patch level associated with a software component on the first host.*"

102. Gleichauf's posture agent prepares posture credentials from information it collects from posture plug-ins. EX1004, 3:9-16, 9:24-39. The posture agent "is also responsible for determining whether the posture of the computer device 22 has changed by learning of any changes from the posture plug-ins 32 through the posture plug-in API." EX1004, 9:50-53. In my opinion, the combined functionality of the posture agent and plug-ins, i.e., *trusted computing base,* thus "*ascertains"* the security posture of the device.

103. In my opinion, Gleichauf's disclosures regarding the claimed *attestation* are substantially the same as those of the '705 patent specification. The '705 patent states:

> In some embodiments, the query for cleanliness (1302) may be responded to by anti-contagion software, such as antivirus software, with **assertions about the currency of a scan, such as the last time a scan was performed, or a version associated with a current anti-contagion software or definition file in use, wherein a sufficiently updated software and/or scan may act as a cleanliness assertion.**

EX1001, 14:12-19.

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104. In my opinion, a POSITA would have understood Gleichauf's disclosure that posture credentials contain information about "the last time a local

antivirus scan was executed" (EX1004, 3:36-49) to equate to the '705 patent's note about the currency of a virus can.

> **7. [1f] when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network,**

105. In my opinion, Gleichauf discloses and/or renders this limitation obvious.

106. As I explained in §IV(F)(5) (limitation 1d), Gleichauf's policy server reviews and validates posture credentials. EX1004, 10:30-33, 11:45-58. The policy server reviews the credentials for compliance with network admission policy, e.g., for the presence of an anti-virus application and/or the timeliness of the last virus scan. EX1004, 11:45-58, 22:38-42.

107. Further, Gleichauf describes using the posture credentials to determine whether to place the device in quarantine ("*quarantining the first host*"). EX1004, 4:24-27, 7:3-8. There are many reasons why a device might be placed into quarantine, including if it is found to be out of compliance with a network admission policy (EX1004, 4:50-56), if its behavior is found to be anomalous, suggesting that it may have been compromised (EX1018, ¶39), or if it is found to be infected with a virus or has been hijacked by an unauthorized entity. EX1009, 4:8-14.

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408. If the policy server "fails to detect the presence of, or a listing of, the anti-virus" application or definition in the device's posture credentials, the device is out of compliance with network admission policy (i.e., *it is determined that the response does not include a valid digitally signed attestation of cleanliness"*). EX1004, 11:59-60. Gleichauf provides that "devices that are out of compliance with admission requirements [are assigned] to a quarantine." EX1004, 4:50-56. Placement in quarantine causes the network (and more specifically, data communication device 26 acting on directions from the policy server) to "restrict or completely reject communications from the user device 22 to the resources 25 within the network 24." EX1004, 11:58-67,.

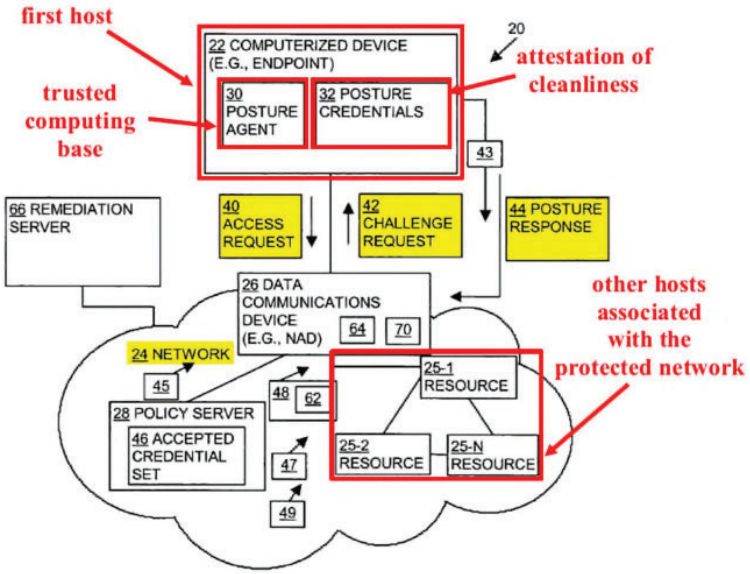

FIG. 1. The resources 25-1 through 25-N are other hosts within the computerized data network. EX1004, 9:65-67 ("The network resources 25-1, 25-2, 25-N, in one

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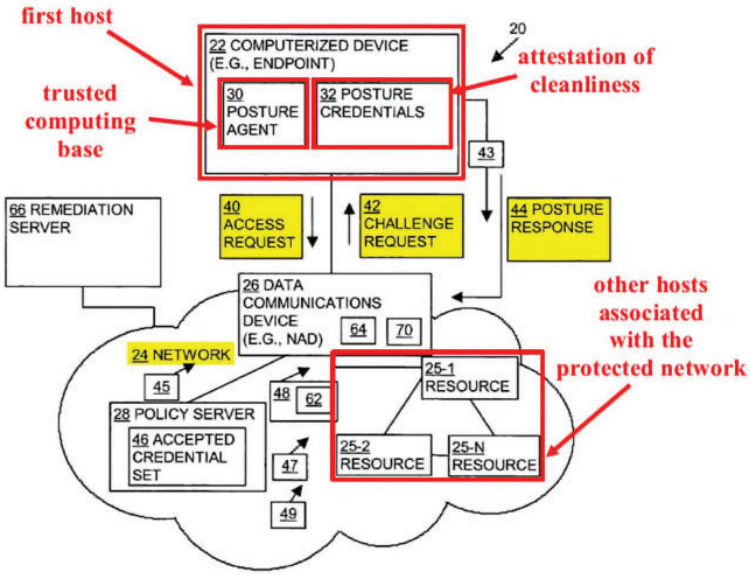

FIG. 1. The resources 25-1 through 25-N are other hosts within the computerized data network. EX1004, 9:65-67 ("The network resources 25-1, 25-2, 25-N, in one

arrangement, are configured as servers that contain content accessible by the user device 22 via the network 24"). Unless the first host is quarantined, for example, the network resources 25-1 through 25-N run the risk of becoming infected through the first host. EX1004, 8:21-28 ("By detecting the real-time security state of the computerized device prior to providing the computerized device with access to the network resources, thereby limiting at-risk or vulnerable computerized devices from accessing the network resources and minimizing the risk that the network resources receive or transmit malware"). Therefore, in my opinion, restricting or completely rejecting communications from the computerized device to network resources, e.g., resources 25-1 through 25-N, discloses *preventing the first host from sending data to one or more other hosts associated with the protected network.*

8. [1g] wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes receiving a service request sent by the first host,

109. In my opinion, Gleichauf discloses this limitation.

110. Gleichauf describes how the computerized device transmits an "access request" or "signaling request" in an "attempt to access the network resources within the network." EX1004, 3:50-56, 8:1-4. Such access attempts can occur even after the device has been placed in quarantine. EX1004, 13:52-65. A request to access network resources is a "*service request.*" The request is received and acted

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upon by data communications device. EX1004, 3:60-65. Therefore, in my opinion, Gleichauf discloses "*receiving a service request sent by the first host*."

9. [1h] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and

111. In my opinion, the combination of Gleichauf and Lewis discloses and/or renders this limitation obvious.

112. As I explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device that is out of compliance with network admission policy is quarantined. EX1004, 4:50-56. Communications from a quarantined device are restricted or rejected. EX1004, 11:58-67. Limited communications to certain destinations, such as a remediation server, may be permitted. EX1004, 14:62-66. For example, Gleichauf provides that "a redirect access instruction" is applied to "HTTP traffic." EX1004, 15:55-67. In my opinion, a POSITA would have known that HTTP traffic includes a *web server request* because hyper-text transfer protocol (HTTP) is the protocol used for communications between web browsers and web servers. This is evidenced by the fact that Gleichauf refers to the redirection as a "URL Redirect." EX1004, 15:45. In my opinion, a POSITA would have been familiar with URL redirection, which was a common technique used to forcibly provide an alternative response to a client's request for a webpage.

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EX1017, ¶3. This technique is commonly used to redirect a user's web browser to a login page at a hotel or airport. EX1010, 4:56-57; EX1011, ¶44.

113. Further, Gleichauf describes providing "one or more notification messages" for display to a user "indicating that the device has been quarantined." EX1004, 4:56-63, 21:1-12. The message may include "a link to a remediation server or the IP address of the remediation server." EX1004, 21:1-12.

114. Similar to Gleichauf, Lewis also discloses the use of redirection with a client device that is quarantined. EX1006, 4:24-31. When a user of the device opens a web browser (which would generate a "*service request compris[ing] a web server request*"), an initial domain name service (DNS) request from the device is redirected to a quarantine server. EX1006, 13:7-12. The quarantine server receives the DNS request and supplies a default webpage on the quarantine server to the device ("*serving a quarantine notification page to the first host*"). EX1006, 13:12-15. The webpage informs the user that the device "is in quarantine and corrective action must be taken." EX1006, 10:61-66.

115. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis and would have had the skill to do so. §IV(E) (motivation to combine). A POSITA would have appreciated the security benefits of redirecting HTTP traffic from Gleichauf's device to a quarantine server (per Lewis), rather than a remediation server. The user of the quarantined device

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10. [1i] in the event the service request comprises a DNS query, providing in response an IP address of a quarantine server configured to serve the quarantine notification page if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition; and

116. In my opinion, the combination of Gleichauf and Lewis discloses and/or renders this limitation obvious.

117. As I discussed in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device that is out of compliance with a network admission policy is quarantined and that communications from a quarantined device to protected resources in the network are restricted or rejected. EX1004, 4:50-56, 11:58-67.

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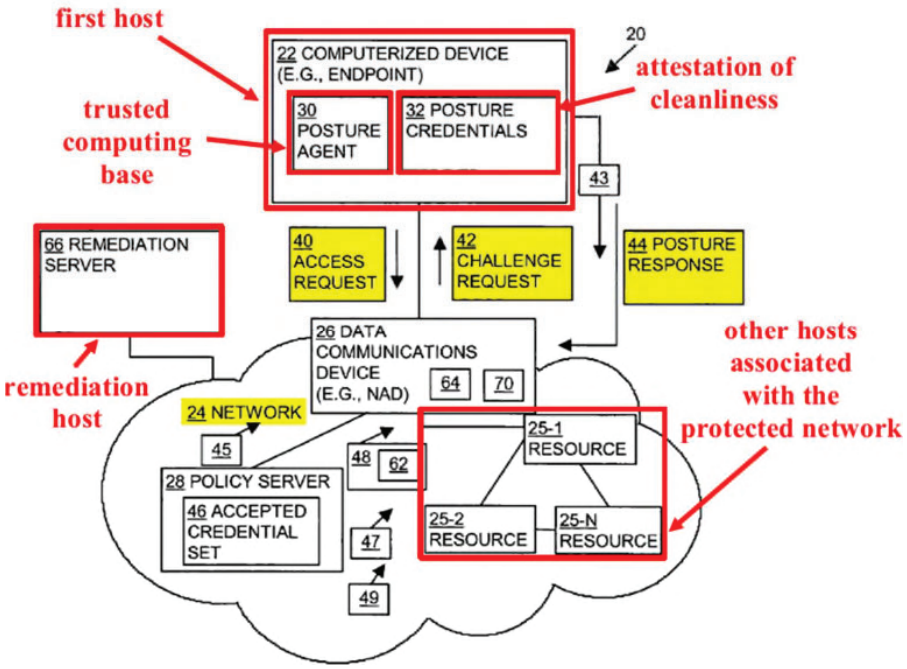
118. In my opinion, Gleichauf discloses a remediation server, shown in Fig. 1:



EX1004, FIG. 1. The remediation server "is configured to upgrade or provide up-to-date patches to the operating system or applications, such as anti-virus applications, associated with the computerized device" (a "*remediation host configured to provide data usable to remedy the insecure condition*"). EX1004, 5:4-11. HTTP traffic from the device directed to the remediation server is permitted while HTTP traffic directed to other destinations is redirected. EX1004, 14:62-66, 15:55-67.

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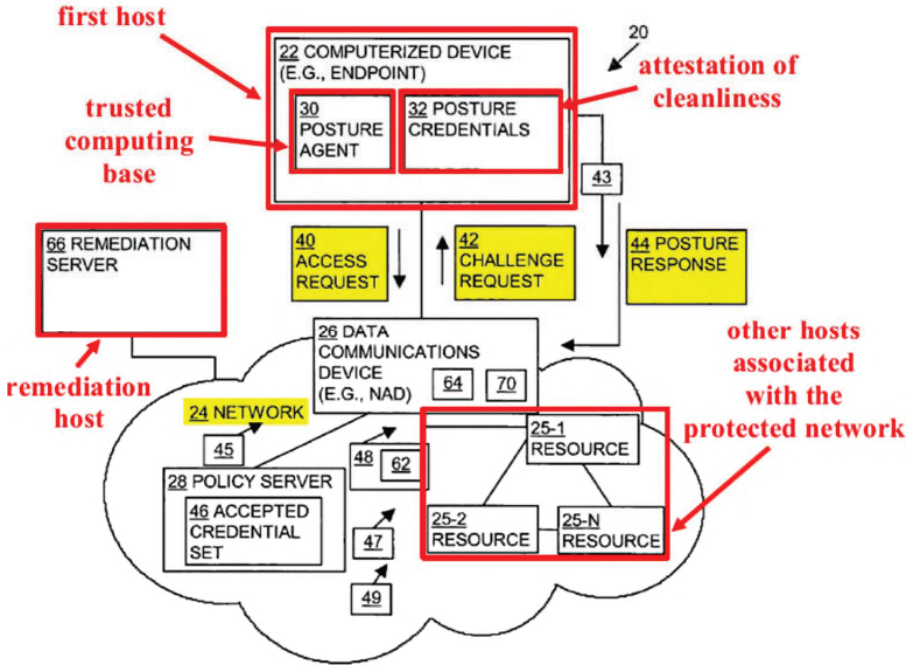

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(i.e., "*and in the event the service request comprises a DNS query*"). The DNS query is used to obtain the internet protocol (IP) address of a named server, which would be a web server in the case of HTTP traffic. The device accesses a webpage by sending an HTTP request to the DNS-resolved IP address. These steps were commonly known and ubiquitously employed by web browsers in the prior art. EX1010, 5:49-63.

120. Further, Lewis describes a "hijack DNS component 421 for intercepting DNS queries from quarantined clients." EX1006, 11:15-17. The operation of the hijack DNS component is such that "[w]henever the client performs name resolution on any address, it will receive the IP [address] of QS [quarantine server]." EX1006, 14:22-23. As discussed at [1h], Lewis's quarantine server (QS) provides a default webpage including a *quarantine notification.* The default webpage informs the user that the device is in quarantine and what corrective action must be taken for the device to be released from quarantine. EX1006, 10:61-66, 13:12-15. Thus, in my opinion, the IP address of Lewis's quarantine server is *an IP address of a quarantine server configured to serve the quarantine notification.*

121. Additionally, both Gleichauf and Lewis describe allowing a device placed in quarantine to communicate with one or more servers to fix the issues that led to it being quarantined. EX1004, 5:4-13; EX1007, 13:12-17, 14:17-31. In my

(i.e., "*and in the event the service request comprises a DNS query*"). The DNS query is used to obtain the internet protocol (IP) address of a named server, which would be a web server in the case of HTTP traffic. The device accesses a webpage by sending an HTTP request to the DNS-resolved IP address. These steps were commonly known and ubiquitously employed by web browsers in the prior art. EX1010, 5:49-63.

120. Further, Lewis describes a "hijack DNS component 421 for intercepting DNS queries from quarantined clients." EX1006, 11:15-17. The operation of the hijack DNS component is such that "[w]henever the client performs name resolution on any address, it will receive the IP [address] of QS [quarantine server]." EX1006, 14:22-23. As discussed at [1h], Lewis's quarantine server (QS) provides a default webpage including a *quarantine notification.* The default webpage informs the user that the device is in quarantine and what corrective action must be taken for the device to be released from quarantine. EX1006, 10:61-66, 13:12-15. Thus, in my opinion, the IP address of Lewis's quarantine server is *an IP address of a quarantine server configured to serve the quarantine notification.*

121. Additionally, both Gleichauf and Lewis describe allowing a device placed in quarantine to communicate with one or more servers to fix the issues that led to it being quarantined. EX1004, 5:4-13; EX1007, 13:12-17, 14:17-31. In my

opinion, it would have been well understood and obvious to a POSITA that communications with such servers would be preceded by a DNS request to resolve the remediation server's name into its IP address. This is because servers are frequently known and referred to by their domain name; however, the domain name cannot directly be used to address an IP packet to the server. The domain name must first be resolved, using DNS, into the server's IP address. The IP address is then specified as the destination for the IP packet. In my opinion, a POSITA would have been familiar with the use and operation of DNS.

122. Gleichauf describes allowing a device in quarantine to communicate with a remediation server "to upgrade or provide up-to-date patches to applications, such as anti-virus applications." EX1004, 16:14-16. Hence, it would have been obvious to a POSITA for a DNS server (responding to a request to resolve the IP address of the remediation server) to provide the correct IP address of the remediation server. In my opinion, it would have been obvious to a POSITA to adapt the functionality of a hijack DNS component, e.g., that of Lewis, to provide the correct IP address resolution to DNS queries relating to servers involved with device remediation. For all other queries, the hijack DNS component would function as described in Lewis by answering such DNS queries with the IP address of a quarantine server. Thus, in my opinion, the combined teachings of Gleichauf and Lewis render obvious responding to a DNS query with the IP

opinion, it would have been well understood and obvious to a POSITA that communications with such servers would be preceded by a DNS request to resolve the remediation server's name into its IP address. This is because servers are frequently known and referred to by their domain name; however, the domain name cannot directly be used to address an IP packet to the server. The domain name must first be resolved, using DNS, into the server's IP address. The IP address is then specified as the destination for the IP packet. In my opinion, a POSITA would have been familiar with the use and operation of DNS.

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opinion, it would have been well understood and obvious to a POSITA that communications with such servers would be preceded by a DNS request to resolve the remediation server's name into its IP address. This is because servers are frequently known and referred to by their domain name; however, the domain name cannot directly be used to address an IP packet to the server. The domain name must first be resolved, using DNS, into the server's IP address. The IP address is then specified as the destination for the IP packet. In my opinion, a POSITA would have been familiar with the use and operation of DNS.

122. Gleichauf describes allowing a device in quarantine to communicate with a remediation server "to upgrade or provide up-to-date patches to applications, such as anti-virus applications." EX1004, 16:14-16. Hence, it would have been obvious to a POSITA for a DNS server (responding to a request to resolve the IP address of the remediation server) to provide the correct IP address of the remediation server. In my opinion, it would have been obvious to a POSITA to adapt the functionality of a hijack DNS component, e.g., that of Lewis, to provide the correct IP address resolution to DNS queries relating to servers involved with device remediation. For all other queries, the hijack DNS component would function as described in Lewis by answering such DNS queries with the IP address of a quarantine server. Thus, in my opinion, the combined teachings of Gleichauf and Lewis render obvious responding to a DNS query with the IP

address of a quarantine server *if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition.*

423. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis and would have had the skills to do so. §IV(E) (motivation to combine). A POSITA would have appreciated the need to ensure that a device placed into quarantine would be able to access the server necessary to remediate its security problem and thereafter gain full access to the network. Gleichauf contemplates identifying the remediation server by name since it provides "a link to a remediation server," which Gleichauf distinguishes from providing "the IP address of the remediation server." EX1004, 21:8-12. Gleichauf further explains that the "link" to the remediation server would be provided as a Universal Resource Link (URL). EX1004, 21:3-4. It was well known that a "URL typically includes the domain name of the provider of the identified resource." EX1013, 9:12-14. Thus, in my opinion, a POSITA would have found it obvious from Gleichauf's statement—that the remediation server is identified via URL—for the server to be identified to a quarantined device by its domain name. It would have been obvious and understood to a POSITA that the device needing to communicate with the remediation server would send a DNS query to obtain the IP address corresponding to the domain name of the server. In the combination, the

address of a quarantine server *if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition.*

123. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis and would have had the skills to do so. §IV(E) (motivation to combine). A POSITA would have appreciated the need to ensure that a device placed into quarantine would be able to access the server necessary to remediate its security problem and thereafter gain full access to the network. Gleichauf contemplates identifying the remediation server by name since it provides "a link to a remediation server," which Gleichauf distinguishes from providing "the IP address of the remediation server." EX1004, 21:8-12. Gleichauf further explains that the "link" to the remediation server would be provided as a Universal Resource Link (URL). EX1004, 21:3-4. It was well known that a "URL typically includes the domain name of the provider of the identified resource." EX1013, 9:12-14. Thus, in my opinion, a POSITA would have found it obvious from Gleichauf's statement—that the remediation server is identified via URL—for the server to be identified to a quarantined device by its domain name. It would have been obvious and understood to a POSITA that the device needing to communicate with the remediation server would send a DNS query to obtain the IP address corresponding to the domain name of the server. In the combination, the

address of a quarantine server *if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition.*

123. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis and would have had the skills to do so. §IV(E) (motivation to combine). A POSITA would have appreciated the need to ensure that a device placed into quarantine would be able to access the server necessary to remediate its security problem and thereafter gain full access to the network. Gleichauf contemplates identifying the remediation server by name since it provides "a link to a remediation server," which Gleichauf distinguishes from providing "the IP address of the remediation server." EX1004, 21:8-12. Gleichauf further explains that the "link" to the remediation server would be provided as a Universal Resource Link (URL). EX1004, 21:3-4. It was well known that a "URL typically includes the domain name of the provider of the identified resource." EX1013, 9:12-14. Thus, in my opinion, a POSITA would have found it obvious from Gleichauf's statement—that the remediation server is identified via URL—for the server to be identified to a quarantined device by its domain name. It would have been obvious and understood to a POSITA that the device needing to communicate with the remediation server would send a DNS query to obtain the IP address corresponding to the domain name of the server. In the combination, the

DNS response provided to the device would include the correct IP address of the remediation server so that the device could resolve its security problems and exit quarantine (e.g., obtain update virus definitions).

11.[1j] permitting the first host to communicate with the remediation host.

124. In my opinion, Gleichauf discloses this limitation.

125. As I explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device out of compliance with network admission policy is quarantined and communications from the device to network resources are restricted or rejected. EX1004, 4:50-56, 11:58-67. HTTP traffic from the device to a remediation server is permitted, however (i.e., "*permitting the first host to communicate with the remediation host").* EX1004, 14:62-66.

G. Claim 2 - A method as recited in claim 1, wherein detecting an insecure condition further includes at least one of the following: scanning for a vulnerability, scanning for malicious data, determining whether a security software is installed, and detecting anomalous network traffic.

126. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

127. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1. See* §IV(F) (claim 1).

128. In my opinion, Gleichauf renders obvious this additional limitation.

DNS response provided to the device would include the correct IP address of the remediation server so that the device could resolve its security problems and exit quarantine (e.g., obtain update virus definitions).

11. [1j] permitting the first host to communicate with the remediation host.

124. In my opinion, Gleichauf discloses this limitation.

125. As I explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device out of compliance with network admission policy is quarantined and communications from the device to network resources are restricted or rejected. EX1004, 4:50-56, 11:58-67. HTTP traffic from the device to a remediation server is permitted, however (i.e., "*permitting the first host to communicate with the remediation host*"). EX1004, 14:62-66.

9. Claim 2 - A method as recited in claim 1, wherein detecting an insecure condition further includes at least one of the following: scanning for a vulnerability, scanning for malicious data, determining whether a security software is installed, and detecting anomalous network traffic.

126. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

127. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

128. In my opinion, Gleichauf renders obvious this additional limitation.

129. As I explained in §IV(F)(2) (limitation 1a), Gleichauf teaches that a policy server *detects an insecure condition* in the computerized device by reviewing the device's posture credentials. EX1004, 3:36-45, 11:29-32, 11:58-12:3, 14:16-34, 22:39-59.

130. The posture credentials include information about "the last time a local antivirus scan was executed," and a device that is "not configured with anti-virus or up-to-date anti-virus applications" and is "vulnerable." EX1004, 3:36-49, 22:54-56. The failure to show "timely execution of the anti-virus application" is another indication that the device is "vulnerable" and in an *insecure condition.* EX1004, 22:38-59. In my opinion, a POSITA would have understood that checking for an anti-virus application and the recency of an anti-virus scan each constitute "*scanning for a vulnerability*."

131. The posture credentials also contain information about whether the device can "resist reception or transmission of… content (spam and/or data theft)." EX1004, 8:52-56. In my opinion, a POSITA would have understood that spam is a type of "*malicious data"* because it is unsolicited. A POSITA would also have understood that the disclosed device would be "*scanned*" to determine whether the device can resist reception or transmission of spam. Furthermore, malicious data is known in the art to generate "*anomalous network traffic."* Thus, in my opinion, a

129. As I explained in §IV(F)(2) (limitation 1a), Gleichauf teaches that a policy server *detects an insecure condition* in the computerized device by reviewing the device's posture credentials. EX1004, 3:36-45, 11:29-32, 11:58-12:3, 14:16-34, 22:39-59.

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detection of spam is a detection of anomalous network activity, and therefore is an identification of an insecure condition, thereby meeting the claim language.

132. The posture credentials further include information about the presence or absence of anti-virus software, whether the anti-virus software is up-to-date, and the status of a firewall application. EX1004, 3:36-49, 8:62-65. In my opinion, a POSITA would have understood that an anti-virus and intrusion prevent software (e.g., a firewall) are types of "*security software"* because they can detect and prevent virus and other security infestations. Reviewing the posture credentials for information about the presence or absence of anti-virus software or firewall application involves "*determining whether a security software is installed*."

H. Claim 3 – A method as recited in claim 1, wherein detecting an insecure condition includes determining that the first host should be quarantined until an update to an operating system has been installed.

133. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

134. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

135. In my opinion, Gleichauf renders this additional limitation obvious.

136. As I explained in §IV(F)(2) (limitation 1a), Gleichauf teaches that a policy server *detects an insecure condition* in the computerized device by

detection of spam is a detection of anomalous network activity, and therefore is an identification of an insecure condition, thereby meeting the claim language.

132. The posture credentials further include information about the presence or absence of anti-virus software, whether the anti-virus software is up-to-date, and the status of a firewall application. EX1004, 3:36-49, 8:62-65. In my opinion, a POSITA would have understood that an anti-virus and intrusion prevent software (e.g., a firewall) are types of "*security software"* because they can detect and prevent virus and other security infestations. Reviewing the posture credentials for information about the presence or absence of anti-virus software or firewall application involves "*determining whether a security software is installed*."

H. Claim 3 – A method as recited in claim 1, wherein detecting an insecure condition includes determining that the first host should be quarantined until an update to an operating system has been installed.

133. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

134. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

135. In my opinion, Gleichauf renders this additional limitation obvious.

136. As I explained in §IV(F)(2) (limitation 1a), Gleichauf teaches that a policy server *detects an insecure condition* in the computerized device by

reviewing posture credentials. EX1004, 3:36-45, 11:29-32, 11:58-12:3, 14:16-34, 22:39-59.

137. The posture credentials contain information about "operating system patches [that] are installed within the computing system" (i.e., "*updates to an operating system*"). EX1004, 3:36-49. Gleichauf explains, and in my opinion a POSITA would have known, that an outdated operating system may make the device "vulnerable" to network threats. EX1004, 1:65-2:3, 4:50-56. When the device is quarantined, the policy server can transmit a notification message to the device that may "include a link to a remediation server" where the remediation server "is configured to upgrade or provide up-to-date patches to the operating system." EX1004, 21:8-12, 5:8-11. Once remediated, the device "should be admitted" into the network. EX1004, 5:11-13. In my opinion, a POSITA would have understood (and found it obvious) from Gleichauf's description of quarantining devices with outdated operating systems and of providing operating system updates, to quarantine a device "*until an update to an operating system has been installed*."

I. Claim 4 - A method as recited in claim 1, wherein detecting an insecure condition includes configuring an operating system to quarantine the first host upon initial startup after installation of the operating system.

138. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

reviewing posture credentials. EX1004, 3:36-45, 11:29-32, 11:58-12:3, 14:16-34, 22:39-59.

137. The posture credentials contain information about "operating system patches [that] are installed within the computing system" (i.e., "*updates to an operating system").* EX1004, 3:36-49. Gleichauf explains, and in my opinion a POSITA would have known, that an outdated operating system may make the device "vulnerable" to network threats. EX1004, 1:65-2:3, 4:50-56. When the device is quarantined, the policy server can transmit a notification message to the device that may "include a link to a remediation server" where the remediation server "is configured to upgrade or provide up-to-date patches to the operating system." EX1004, 21:8-12, 5:8-11. Once remediated, the device "should be admitted" into the network. EX1004, 5:11-13. In my opinion, a POSITA would have understood (and found it obvious) from Gleichauf's description of quarantining devices with outdated operating systems and of providing operating system updates, to quarantine a device "*until an update to an operating system has been installed*."

I. Claim 4 - A method as recited in claim 1, wherein detecting an insecure condition includes configuring an operating system to quarantine the first host upon initial startup after installation of the operating system.

138. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

139. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

140. In my opinion, Gleichauf renders this additional limitation obvious. Gleichauf discloses a posture plugin that executes on the device and indicates a security posture. EX1004, 8:45-52. In one embodiment, the posture plugin is maintained by the operating system of the computerized device. EX1004, 8:65-67, 9:21-24. Gleichauf's policy server receives the security posture information from the posture plugin and uses these credentials to determine whether to quarantine the computerized device. EX1004, 9:29-34. A POSITA would have understood and found obvious that because the operating system has access to the posture information generated by the posture plugin, the operating system can quarantine the device upon startup, such in those situations where the computerized device has installed a new version of the operating system, but has not verified the new version with the policy server.

J. Claim 5

141. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

1. [5pre] A method as recited in claim 1, wherein permitting the first host to communicate with the remediation host includes:

142. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. §IV(F) (claim 1).

2. [5a] detecting an outbound communication from the first host; and

143. In my opinion, Gleichauf discloses and/or renders obvious this limitation.

144. Gleichauf's quarantined device receives a notification message from the policy server "indicating that the device has been quarantined and needs to be remediated" and including "a link to a remediation server." EX1004, 21:5-12. The device responds to the message by activating the link and being directed to the remediation server. EX1004, 21:20-23.

145. In my opinion, a POSITA would have understood that the device activating the link directing it to the remediation server includes an "*outbound communication from the first host"* to the remediation server. Gleichauf explains that data communications device 26 "is configured to **detect attempted connections** to the network 24 by the user device." EX1004, 10:6-11, 12:57-67. A POSITA would have understood that directing the device to the remediation server—a server that is not part of the device—would be an "*outbound communication from the first host*." In my opinion, a POSITA would also have understood that the data communications device 26 would "*detect[]"* an outbound communication when it is applying access instructions that govern the device's permitted level of network access. EX1004, 13:52-65, 14:3-7, 14:20-34, 22:38-47.

2. [5a] detecting an outbound communication from the first host; and

143. In my opinion, Gleichauf discloses and/or renders obvious this limitation.

144. Gleichauf's quarantined device receives a notification message from the policy server "indicating that the device has been quarantined and needs to be remediated" and including "a link to a remediation server." EX1004, 21:5-12. The device responds to the message by activating the link and being directed to the remediation server. EX1004, 21:20-23.

145. In my opinion, a POSITA would have understood that the device activating the link directing it to the remediation server includes an "*outbound communication from the first host"* to the remediation server. Gleichauf explains that data communications device 26 "is configured to **detect attempted connections** to the network 24 by the user device." EX1004, 10:6-11, 12:57-67. A POSITA would have understood that directing the device to the remediation server—a server that is not part of the device—would be an "*outbound communication from the first host*." In my opinion, a POSITA would also have understood that the data communications device 26 would "*detect[]"* an outbound communication when it is applying access instructions that govern the device's permitted level of network access. EX1004, 13:52-65, 14:3-7, 14:20-34, 22:38-47.

5. [5b] forwarding the outbound communication if it is addressed to the remediation host.

146. In my opinion, Gleichauf discloses and/or renders this limitation obvious.

147. Gleichauf discloses that communications from a quarantined device are restricted or rejected. §IV(J)(2) (limitation 5a); EX1004, 22:38-47. A quarantined device is generally permitted to engage in HTTP communication with a remediation server. EX1004, 14:62-66. In my opinion, a POSITA would have understood that permitting HTTP traffic from a device to a remediation server, per Gleichauf, would entail the data communications device 26 "*forwarding the outbound communication if it is addressed to the remediation host*."

K. Claim 6

148. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

1. [6pre] A method as recited in claim 1, wherein preventing the first host from sending data to the one or more other hosts includes:

149. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

2. [6a] detecting an outbound communication from the first host; and

150. In my opinion, Gleichauf discloses and/or renders obvious this limitation. §IV(J)(2) (limitation 5a).

3. [5b] forwarding the outbound communication if it is addressed to the remediation host.

146. In my opinion, Gleichauf discloses and/or renders this limitation obvious.

147. Gleichauf discloses that communications from a quarantined device are restricted or rejected. §IV(J)(2) (limitation 5a); EX1004, 22:38-47. A quarantined device is generally permitted to engage in HTTP communication with a remediation server. EX1004, 14:62-66. In my opinion, a POSITA would have understood that permitting HTTP traffic from a device to a remediation server, per Gleichauf, would entail the data communications device 26 "*forwarding the outbound communication if it is addressed to the remediation host*."

K. Claim 6

148. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

1. [6pre] A method as recited in claim 1, wherein preventing the first host from sending data to the one or more other hosts includes:

149. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

2. [6a] detecting an outbound communication from the first host; and

150. In my opinion, Gleichauf discloses and/or renders obvious this limitation. §IV(J)(2) (limitation 5a).

9. [6b] redirecting the outbound communication to a quarantine server if it comprises a request for an approved service and is not addressed to a remediation host.

151. In my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation.

152. Gleichauf restricts or rejects communications from a quarantined device. EX1004, 11:58-67. Gleichauf explains that communications are permitted "only to certain destination addresses, e.g., IP address of remediation server, **and only to certain protocols or ports,** e.g., HTTP traffic." EX1004, 14:62-66. In my opinion, a POSITA would have understood Gleichauf to teach that a quarantined device may be limited to communications with a remediation server using only HTTP (an "*approved service*").

153. As discussed in §IV(F)(10) (limitation 1i), Gleichauf discloses that HTTP traffic (an "*approved service*") from the device to a remediation server is permitted. EX1004, 14:62-66. However, HTTP traffic from the device to other destinations ("*not addressed to a remediation host*") will be subject to a "**redirect** access instruction" that will "direct the computerized device 22 (e.g., HTTP traffic from the computerized device 22) to a remediation server." EX1004, 15:55-16:6. As I discussed above at §§IV(F)(9)-(10) (limitations 1h-1i), in my opinion, it would have been obvious to a POSITA, in view of Lewis, to *redirect* unauthorized

3. [6b] redirecting the outbound communication to a quarantine server if it comprises a request for an approved service and is not addressed to a remediation host.

151. In my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation.

152. Gleichauf restricts or rejects communications from a quarantined device. EX1004, 11:58-67. Gleichauf explains that communications are permitted "only to certain destination addresses, e.g., IP address of remediation server, **and only to certain protocols or ports,** e.g., HTTP traffic." EX1004, 14:62-66. In my opinion, a POSITA would have understood Gleichauf to teach that a quarantined device may be limited to communications with a remediation server using only HTTP (an "*approved service*").

153. As discussed in §IV(F)(10) (limitation 1i), Gleichauf discloses that HTTP traffic (an "*approved service*") from the device to a remediation server is permitted. EX1004, 14:62-66. However, HTTP traffic from the device to other destinations ("*not addressed to a remediation host*") will be subject to a "**redirect** access instruction" that will "direct the computerized device 22 (e.g., HTTP traffic from the computerized device 22) to a remediation server." EX1004, 15:55-16:6. As I discussed above at §§IV(F)(9)-(10) (limitations 1h-1i), in my opinion, it would have been obvious to a POSITA, in view of Lewis, to *redirect* unauthorized

access requests to a *quarantine server* that would inform the user of their device's quarantine status via a quarantine notification page. EX1006, 11:15-17, 14:22-23.

L. Claim 7 – A method as recited in claim 1, wherein quarantining the first host further includes preventing the first host from receiving via the protected network data not related to remediation of the insecure condition.

154. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

155. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

156. As explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device that is out of compliance with network admission policy is quarantined. EX1004, 4:50-56. Outbound communications from a quarantined device are not permitted to destinations that are not the remediation server. EX1004, 11:58-67, 14:62-66. From this disclosure, it would have been obvious and well understood to a POSITA that inbound communications would be similarly subject to access restrictions. If outbound requests from the quarantined device are not permitted to non-remediation destinations, the quarantined device is effectively prevented from receiving information that it would have received in response to such requests. Since Gleichauf teaches that a device in quarantine may only communicate with remediation-related servers, it would have been obvious and understood to a POSITA that Gleichauf's system prevents the quarantined

access requests to a *quarantine server* that would inform the user of their device's quarantine status via a quarantine notification page. EX1006, 11:15-17, 14:22-23.

L. Claim 7 – A method as recited in claim 1, wherein quarantining the first host further includes preventing the first host from receiving via the protected network data not related to remediation of the insecure condition.

154. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

155. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

156. As explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device that is out of compliance with network admission policy is quarantined. EX1004, 4:50-56. Outbound communications from a quarantined device are not permitted to destinations that are not the remediation server. EX1004, 11:58-67, 14:62-66. From this disclosure, it would have been obvious and well understood to a POSITA that inbound communications would be similarly subject to access restrictions. If outbound requests from the quarantined device are not permitted to non-remediation destinations, the quarantined device is effectively prevented from receiving information that it would have received in response to such requests. Since Gleichauf teaches that a device in quarantine may only communicate with remediation-related servers, it would have been obvious and understood to a POSITA that Gleichauf's system prevents the quarantined

device from receiving information not related to remediation ("*preventing ... from receiving via the protected network data not related to remediation of the insecure condition*").

157. To the extent that this claim is interpreted as requiring the blocking of all non-remediation-related traffic from reaching the device, in my opinion, this restriction would have been obvious to a POSITA. Gleichauf is concerned with limiting or preventing the risk that network resources "receive or transmit malware" **from or to** "vulnerable computerized devices." EX1004, Abstract, 8:52-55. That is why vulnerable devices are quarantined in an "isolated … network segment" until the vulnerability has been remedied so that the device cannot receive such malware. EX1004, 4:25-26. It would thus have been obvious and understood to a POSITA that a device in quarantine would be restricted from receiving data not related to remediation in the same way that the device is restricted from transmitting data to non-remediation servers. In my opinion, a POSITA would have had a reasonable expectation of success in restricting communications to or from a quarantined device because Gleichauf describes allowing or preventing communications "between" the device and the network. EX1004, 14:3-7, 14:20-25.

158. Further, to the extent that Gleichauf does not explicitly disclose restricting inbound communications to quarantined devices, Lewis discloses that

device from receiving information not related to remediation ("*preventing ... from receiving via the protected network data not related to remediation of the insecure condition*").

157. To the extent that this claim is interpreted as requiring the blocking of all non-remediation-related traffic from reaching the device, in my opinion, this restriction would have been obvious to a POSITA. Gleichauf is concerned with limiting or preventing the risk that network resources "receive or transmit malware" **from or to** "vulnerable computerized devices." EX1004, Abstract, 8:52-55. That is why vulnerable devices are quarantined in an "isolated … network segment" until the vulnerability has been remedied so that the device cannot receive such malware. EX1004, 4:25-26. It would thus have been obvious and understood to a POSITA that a device in quarantine would be restricted from receiving data not related to remediation in the same way that the device is restricted from transmitting data to non-remediation servers. In my opinion, a POSITA would have had a reasonable expectation of success in restricting communications to or from a quarantined device because Gleichauf describes allowing or preventing communications "between" the device and the network. EX1004, 14:3-7, 14:20-25.

158. Further, to the extent that Gleichauf does not explicitly disclose restricting inbound communications to quarantined devices, Lewis discloses that

the component responsible for quarantining the device (i.e., local enforcement component 314) also restricts inbound communication to the device. EX1006, 9:60-66 ("local enforcement component 314 is responsible for quarantining (i.e. restricting outside access to the local machine) when client 202 is in a quarantine state" and "is used to isolate the local client 202 from other machines" which "allows the client 202 to protect itself from being attacked if it finds itself insecure but not infected"). In my opinion, a POSITA would have found it obvious to modify Gleichauf's system to implement Lewis's limitations on inbound communications to provide its computerized devices with a more robust security protocol so that compromised computerized devices can protect themselves from further attacks. Such a modification would have involved the application of a known technique (restricting inbound communication) to improve similar devices (Gleichauf's computerized device) in the same way (preventing a computerized device from being attacked from other machines on the LAN).

M. Claim 8 - A method as recited in claim 1, performed at an Internet service provider.

159. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

160. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

161. Gleichauf's computerized device attempts to communicate using the network, where the network is "a computer network, such an enterprise network or the **Internet,** which includes the network resources 25, the data communications device 26, and the policy server 28." EX1005, 3:50-56, 9:57-64Network resources 25 are "servers that contain content accessible by the . . . device." EX1005, 9:65-67.

162. In my opinion, a POSITA would have understood that the combination of the data communications device and policy server is an *Internet service provider* because the combination selectively provides access to the network, which Gleichauf explains is the Internet. The policy server determines whether to quarantine the device (by means of instructions to the data communications device) and protect the network. EX1004, 4:50-56, 10:30-33, 11:45-67. While in quarantine, the device is unable to communicate with network resources. EX1004, 11:58-67,14:62-66. A POSITA would have therefore appreciated that the data communications device and policy server determine whether the device can access resources on the network, e.g., on the Internet. Thus, the data communications device and the policy server together operate to provide the device Internet access, which a POSITA would have understood to be the function of an "Internet service provider." Moreover, in my opinion, it would have

161. Gleichauf's computerized device attempts to communicate using the network, where the network is "a computer network, such an enterprise network or the **Internet,** which includes the network resources 25, the data communications device 26, and the policy server 28." EX1005, 3:50-56, 9:57-64Network resources 25 are "servers that contain content accessible by the . . . device." EX1005, 9:65-67.

162. In my opinion, a POSITA would have understood that the combination of the data communications device and policy server is an *Internet service provider* because the combination selectively provides access to the network, which Gleichauf explains is the Internet. The policy server determines whether to quarantine the device (by means of instructions to the data communications device) and protect the network. EX1004, 4:50-56, 10:30-33, 11:45-67. While in quarantine, the device is unable to communicate with network resources. EX1004, 11:58-67,14:62-66. A POSITA would have therefore appreciated that the data communications device and policy server determine whether the device can access resources on the network, e.g., on the Internet. Thus, the data communications device and the policy server together operate to provide the device Internet access, which a POSITA would have understood to be the function of an "Internet service provider." Moreover, in my opinion, it would have

been obvious for the data communications device and policy server to be owned by a company that provides Internet service.

N. Claim 9 - A method as recited in claim 1, wherein the software component on the first host is an operating system.

163. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

164. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

165. In my opinion, Gleichauf discloses this limitation for at least the reasons provided above. §IV(H) (claim 3).

O. Claim 10 - A method as recited in claim 1, wherein determining that the response does not include a valid digitally signed attestation of cleanliness includes determining that the software component on the first host is not sufficiently updated.

166. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

167. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

168. Gleichauf further discloses that its computerized device's posture response includes posture credentials. The posture credentials contain information about the "particular **virus software and virus definition versions**" installed on the device. EX1004, 3:36-49, 8:56-9:5. If updated software or current virus

been obvious for the data communications device and policy server to be owned by a company that provides Internet service.

N. Claim 9 - A method as recited in claim 1, wherein the software component on the first host is an operating system.

163. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

164. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

165. In my opinion, Gleichauf discloses this limitation for at least the reasons provided above. §IV(H) (claim 3).

O. Claim 10 - A method as recited in claim 1, wherein determining that the response does not include a valid digitally signed attestation of cleanliness includes determining that the software component on the first host is not sufficiently updated.

166. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

167. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

168. Gleichauf further discloses that its computerized device's posture response includes posture credentials. The posture credentials contain information about the "particular **virus software and virus definition versions**" installed on the device. EX1004, 3:36-49, 8:56-9:5. If updated software or current virus

definitions are not present, the device is quarantined and communications from it to the network will be restricted or completely rejected, because of a determination that the response does not include "*a valid . . . attestation of cleanliness*." EX1004, 11:58-67.

P. Claim 11 - A method as recited in claim 1, wherein determining that the software component on the first host is not sufficiently updated includes determining that a patch level associated with the software component on the first host is not sufficiently recent.

469. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

170. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

171. As I described above in limitation 1d, Gleichauf's posture credentials received by the policy server contain information such as "what particular virus software and virus definition versions are installed," "when was the last time a local antivirus scan was executed," "what operating system patches are installed." §IV(F)(5) (limitation 1d). To the extent that the patches inquiry is limited to the operating system, in my opinion, a POSITA would have understood and found obvious that the same inquiry related to patch level could be made with respect to the virus software installed on the host device.

definitions are not present, the device is quarantined and communications from it to the network will be restricted or completely rejected, because of a determination that the response does not include "*a valid . . . attestation of cleanliness*." EX1004, 11:58-67.

P. Claim 11 - A method as recited in claim 1, wherein determining that the software component on the first host is not sufficiently updated includes determining that a patch level associated with the software component on the first host is not sufficiently recent.

169. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

170. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] method as recited in claim 1*. *See* §IV(F) (claim 1).

171. As I described above in limitation 1d, Gleichauf's posture credentials received by the policy server contain information such as "what particular virus software and virus definition versions are installed," "when was the last time a local antivirus scan was executed," "what operating system patches are installed." §IV(F)(5) (limitation 1d). To the extent that the patches inquiry is limited to the operating system, in my opinion, a POSITA would have understood and found obvious that the same inquiry related to patch level could be made with respect to the virus software installed on the host device.

Q. Claim 12

172. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

1. [12pre] A system for protecting a network, comprising:

173. In my opinion, Gleichauf discloses this limitation.

174. Gleichauf teaches a "**robust network security architecture and system for controlling access to a network** depending on the configuration state or 'security posture' of a device when it attempts to connect to that network." EX1004, 3:4-9. Gleichauf's system, and specifically its policy server, protects the network by reducing the risk of the network becoming infected with malware or suffering a virus outbreak. EX1004, 3:16-31.

2. [12a] a processor configured to:

175. In my opinion, Gleichauf discloses this limitation.

176. Gleichauf's policy server operates to protect the network. §IV(F)(1)-(2) (limitations 1pre-1a). The policy server "includes a controller 209 formed of a memory 210 and a **processor 212**." EX1004, 25:44-46. The processor 212 performs operations, such as those recited in limitations 12b-12l and claims 13-18 below, associated with protecting the network by reducing the risk of the network becoming infected by executing application 246 to perform the limitations described below. EX1004, 27:16-21 ("the credential analysis process 248 represents one or more portions of the logic instructions of the credential analysis

Q. Claim 12

172. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

1. [12pre] A system for protecting a network, comprising:

173. In my opinion, Gleichauf discloses this limitation.

174. Gleichauf teaches a "**robust network security architecture and system for controlling access to a network** depending on the configuration state or 'security posture' of a device when it attempts to connect to that network." EX1004, 3:4-9. Gleichauf's system, and specifically its policy server, protects the network by reducing the risk of the network becoming infected with malware or suffering a virus outbreak. EX1004, 8:16-31.

2. [12a] a processor configured to:

175. In my opinion, Gleichauf discloses this limitation.

176. Gleichauf's policy server operates to protect the network. §IV(F)(1)-(2) (limitations 1pre-1a). The policy server "includes a controller 209 formed of a memory 210 and a **processor 212**." EX1004, 25:44-46. The processor 212 performs operations, such as those recited in limitations 12b-12l and claims 13-18 below, associated with protecting the network by reducing the risk of the network becoming infected by executing application 246 to perform the limitations described below. EX1004, 27:16-21 ("the credential analysis process 248 represents one or more portions of the logic instructions of the credential analysis

application 246 while being executed or otherwise performed on, by, or in the processor 212 within the policy server 28").

3. [12b] detect an insecure condition on a first host that has connected or is attempting to connect to a protected network,

177. In my opinion, Gleichauf discloses this limitation. §IV(F)(2) (limitation 1a).

4. [12c] wherein detecting the insecure condition includes contacting a trusted computing base associated with a trusted platform module within the first host,

178. In my opinion, the Gleichauf-Ovadia combination discloses this limitation. §IV(F)(3) (limitation 1b).

5. [12d] [wherein detecting the insecure condition includes …] receiving a response, and

179. In my opinion, Gleichauf discloses this limitation. §IV(F)(4) (limitation 1c).

6. [12e] [wherein detecting the insecure condition includes …] determining whether the response includes a valid digitally signed attestation of cleanliness,

180. In my opinion, the Gleichauf-Ovadia combination discloses this limitation. §IV(F)(5) (limitation 1d).

7. [12f] wherein the valid digitally signed attestation of cleanliness includes at least one of an attestation that the trusted computing base has ascertained that the first host is not infested, and an attestation that the trusted computing base

has ascertained the presence of a patch or a patch level associated with a software component on the first host;

481. In my opinion, Gleichauf discloses this limitation. §IV(F)(6) (limitation 1e).

8. [12g] when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantine the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network,

482. In my opinion, Gleichauf discloses this limitation. §IV(F)(7) (limitation 1f).

9. [12h] wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes receiving a service request sent by the first host,

483. In my opinion, Gleichauf discloses this limitation. §IV(F)(8) (limitation 1g).

10. [12i] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and

184. In my opinion, the Gleichauf-Ovadia-Lewis combination discloses this limitation. §IV(F)(9) (limitation 1h).

11. [12j] in the event the service request comprises a DNS query, providing in response an IP address of a quarantine server configured to serve the quarantine notification page if a host name that is the subject of the DNS query is not associated

has ascertained the presence of a patch or a patch level associated with a software component on the first host;

181. In my opinion, Gleichauf discloses this limitation. §IV(F)(6) (limitation 1e).

8. [12g] when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantine the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network,

182. In my opinion, Gleichauf discloses this limitation. §IV(F)(7) (limitation 1f).

9. [12h] wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes receiving a service request sent by the first host,

183. In my opinion, Gleichauf discloses this limitation. §IV(F)(8) (limitation 1g).

10. [12i] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and

184. In my opinion, the Gleichauf-Ovadia-Lewis combination discloses this limitation. §IV(F)(9) (limitation 1h).

11. [12j] in the event the service request comprises a DNS query, providing in response an IP address of a quarantine server configured to serve the quarantine notification page if a host name that is the subject of the DNS query is not associated

with a remediation host configured to provide data usable to remedy the insecure condition; and

185. In my opinion, the Gleichauf-Ovadia-Lewis combination discloses this limitation. §IV(F)(10) (limitation 1i).

12. [12k] permit the first host to communicate with the remediation host; and

186. In my opinion, Gleichauf discloses this limitation. §IV(F)(11) (limitation 1j).

13. [12l] a memory coupled to the processor and configured to provide instructions to the processor.

187. In my opinion, Gleichauf discloses this limitation.

188. Gleichauf's policy server "includes a controller 209 formed of a **memory 210** and a processor 212." EX1004, 25:41-46. A POSITA would have understood that memory 210 is coupled to processor 212 because they are part of the same controller 209.

189. Memory 210 is "*configured to provide instructions to the processor*" of the policy server because it is "encoded with **logic instructions (e.g., software code)** and/or data that form a credential analysis application 246" where "application 246 represents **software code, instructions and/or data … that reside within memory** … accessible to the policy server 28." EX1004, 26:66-27:8.

R. Claim 13 - A system as recited in claim 12, wherein the processor is configured to detect an insecure condition at least in part by

with a remediation host configured to provide data usable to remedy the insecure condition; and

185. In my opinion, the Gleichauf-Ovadia-Lewis combination discloses this limitation. §IV(F)(10) (limitation 1i).

12. [12k] permit the first host to communicate with the remediation host; and

186. In my opinion, Gleichauf discloses this limitation. §IV(F)(11) (limitation 1j).

13. [12l] a memory coupled to the processor and configured to provide instructions to the processor.

187. In my opinion, Gleichauf discloses this limitation.

188. Gleichauf's policy server "includes a controller 209 formed of a **memory 210** and a processor 212." EX1004, 25:41-46. A POSITA would have understood that memory 210 is coupled to processor 212 because they are part of the same controller 209.

189. Memory 210 is "*configured to provide instructions to the processor*" of the policy server because it is "encoded with **logic instructions (e.g., software code)** and/or data that form a credential analysis application 246" where "application 246 represents **software code, instructions and/or data … that reside within memory** [10]… accessible to the policy server 28." EX1004, 26:66-27:8.

R. Claim 13 - A system as recited in claim 12, wherein the processor is configured to detect an insecure condition at least in part by

performing one or more of the following: scanning for a vulnerability, scanning for malicious data, determining whether a security software is installed, and detecting anomalous network traffic.

190. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

191. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(Q) (claim 12).

192. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. *See* §IV(G) (claim 2).

S. Claim 14 - A system as recited in claim 12, wherein the processor is configured to detect an insecure condition at least in part by determining that an initial startup after installation of an operating system is being performed.

193. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

194. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(Q) (claim 12).

195. Furthermore, in my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation. *See* §IV(I) (claim 4).

T. Claim 15 - A system as recited in claim 12, wherein the processor is configured to quarantine the first host at least in part by

preventing the first host from receiving via the protected network data not related to remediation of the insecure condition.

196. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

197. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(P) (claim 12).

198. Furthermore, in my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation. *See* §IV(K) (claim 7).

U. Claim 16 - A system as recited in claim 12, wherein the software component on the first host is an operating system.

199. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

200. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(Q) (claim 12).

201. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. *See* §IV(N) (claim 9).

V. Claim 17 - A system as recited in claim 12, wherein determining that the response does not include a valid digitally signed attestation of cleanliness includes determining that the software component on the first host is not sufficiently updated.

202. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

preventing the first host from receiving via the protected network data not related to remediation of the insecure condition.

196. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

197. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(P) (claim 12).

198. Furthermore, in my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation. *See* §IV(K) (claim 7).

U. Claim 16 - A system as recited in claim 12, wherein the software component on the first host is an operating system.

199. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

200. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(Q) (claim 12).

201. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. *See* §IV(N) (claim 9).

V. Claim 17 - A system as recited in claim 12, wherein determining that the response does not include a valid digitally signed attestation of cleanliness includes determining that the software component on the first host is not sufficiently updated.

202. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

203. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 12*. *See* §IV(Q) (claim 12).

204. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. *See* §IV(O) (claim 10).

W. Claim 18 - A system as recited in claim 17, wherein determining that the software component on the first host is not sufficiently updated includes determining that a patch level associated with the software component on the first host is not sufficiently recent.

205. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

206. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses *[a] system as recited in claim 17*. *See* §IV(V) (claim 17).

207. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. *See* §IV(P) (claim 11).

X. Claim 19

208. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious.

1. [19pre] A computer program product for protecting a network, the computer program product being embodied in a non-transitory computer readable medium and comprising computer instructions for:

209. In my opinion, Gleichauf discloses this limitation.

210. Gleichauf describes how a "**computer program product 200** includes an application or logic instructions that are loaded into the computerized

device 22, data communications device 26, and policy server 28 to configure the devices 22, 24, 26 to operate as part of the data communications system 20" described throughout the reference. EX1004, 25:46-51, 3:4-9. In my opinion, POSITA would have understood that Gleichauf's computer program product *comprises computer instructions*.

211. As I described for claim 12, Gleichauf's policy server operates to protect the network and directs the operation of the data communications device 26. *See* §IV(Q)(2) (limitation 12a). The policy server includes a "*non-transitory computer readable medium"* in the form of memory 210 that stores "**logic instructions (e.g., software code) and/or data"** for operating the disclosed security architecture. EX1004, 26:66-27:8. Gleichauf's system protects the network by reducing the risk of the network becoming infected with malware or suffering a virus outbreak. EX1004, 7:16-31.

2. [19a] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network,

212. In my opinion, Gleichauf discloses this limitation. §IV(F)(2) (limitation 1a).

3. [19b] wherein detecting the insecure condition includes contacting a trusted computing base associated with a trusted platform module within the first host,

213. In my opinion, Gleichauf discloses this limitation. §IV(F)(3) (limitation 1b).

device 22, data communications device 26, and policy server 28 to configure the devices 22, 24, 26 to operate as part of the data communications system 20" described throughout the reference. EX1004, 25:46-51, 3:4-9. In my opinion, POSITA would have understood that Gleichauf's computer program product *comprises computer instructions.*

211. As I described for claim 12, Gleichauf's policy server operates to protect the network and directs the operation of the data communications device 26. *See* §IV(Q)(2) (limitation 12a). The policy server includes a "*non-transitory computer readable medium"* in the form of memory 210 that stores "**logic instructions (e.g., software code) and/or data"** for operating the disclosed security architecture. EX1004, 26:66-27:8. Gleichauf's system protects the network by reducing the risk of the network becoming infected with malware or suffering a virus outbreak. EX1004, 8:16-31.

2. [19a] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network,

212. In my opinion, Gleichauf discloses this limitation. §IV(F)(2) (limitation 1a).

3. [19b] wherein detecting the insecure condition includes contacting a trusted computing base associated with a trusted platform module within the first host,

213. In my opinion, Gleichauf discloses this limitation. §IV(F)(3) (limitation 1b).

[19c] [wherein detecting the insecure condition includes…] receiving a response, and

214. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. §IV(F)(4) (limitation 1c).

5. [19d] [wherein detecting the insecure condition includes…] determining whether the response includes a valid digitally signed attestation of cleanliness,

215. In my opinion, Gleichauf discloses this limitation. §IV(F)(5) (limitation 1d).

6. [19e] wherein the valid digitally signed attestation of cleanliness includes at least one of an attestation that the trusted computing base has ascertained that the first host is not infested, and an attestation that the trusted computing base has ascertained the presence of a patch or a patch level associated with a software component on the first host;

216. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. §IV(F)(6) (limitation 1e).

7. [19f] when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network,

217. In my opinion, Gleichauf discloses this limitation. §IV(F)(7) (limitation 1f).

4. **[19c] [wherein detecting the insecure condition includes…] receiving a response, and**

214. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. §IV(F)(4) (limitation 1c).

5. **[19d] [wherein detecting the insecure condition includes…] determining whether the response includes a valid digitally signed attestation of cleanliness,**

215. In my opinion, Gleichauf discloses this limitation. §IV(F)(5) (limitation 1d).

6. **[19e] wherein the valid digitally signed attestation of cleanliness includes at least one of an attestation that the trusted computing base has ascertained that the first host is not infested, and an attestation that the trusted computing base has ascertained the presence of a patch or a patch level associated with a software component on the first host;**

216. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. §IV(F)(6) (limitation 1e).

7. **[19f] when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network,**

217. In my opinion, Gleichauf discloses this limitation. §IV(F)(7) (limitation 1f).

8. [19g] wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes receiving a service request sent by the first host,

218. In my opinion, Gleichauf discloses this limitation. §IV(F)(8) (limitation 1g).

9. [19h] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and

219. In my opinion, the combination of Gleichauf, Ovadia, and Lewis discloses this limitation. §IV(F)(9) (limitation 1h).

10. [19i] in the event the service request comprises a DNS query, providing in response an IP address of a quarantine server configured to serve the quarantine notification page if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition; and

220. In my opinion, the combination of Gleichauf, Ovadia, and Lewis discloses this limitation. §IV(F)(10) (limitation 1i).

11. [19j] permitting the first host to communicate with the remediation host.

221. In my opinion, Gleichauf discloses this limitation. §IV(F)(11) (limitation 1j).

8. [19g] wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes receiving a service request sent by the first host,

218. In my opinion, Gleichauf discloses this limitation. §IV(F)(8) (limitation 1g).

9. [19h] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and

219. In my opinion, the combination of Gleichauf, Ovadia, and Lewis discloses this limitation. §IV(F)(9) (limitation 1h).

10. [19i] in the event the service request comprises a DNS query, providing in response an IP address of a quarantine server configured to serve the quarantine notification page if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition; and

220. In my opinion, the combination of Gleichauf, Ovadia, and Lewis discloses this limitation. §IV(F)(10) (limitation 1i).

11. [19j] permitting the first host to communicate with the remediation host.

221. In my opinion, Gleichauf discloses this limitation. §IV(F)(11) (limitation 1j).

Summary of Comments on Microsoft Word - EX1002 - Expert Declaration of Clay Shields(1622771730.9).docx

Page: 1

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "be taken." Lewis at 10:61-66. The user must perform the corrective action and submit an updated BoH to gain access to the network. Lewis at 13:12-15. 53. During the examination of the '705 patent, Lewis's corresponding application publication, U.S. Patent Pub. No. 2005/0131997, was cited by the Examiner for its teaching of a quarantine server providing a quarantine notification page. '705 patent file history at pp. 98-99. The applicants did not dispute this, arguing instead that the Examiner's cited art (including Lewis) failed to render obvious other features recited in then-pending claim 1. '705 patent file history at pp. 73-74."
[New]: "protected network" such as "access the protected network only as required to remedy a condition that caused the quarantine to be imposed")."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "with Ovadia 54. A POSITA would have combined Gleichauf with Ovadia because they both relate to providing secure access when an individual computerized device connects to a network. Gleichauf at 3:4-9 ("By contrast, embodiments of the present invention ... provide mechanisms that include a robust network security architecture and system for controlling access to a network depending on the configuration state or "security posture" of a device when it attempts to connect to that network."); Ovadia at 1:8-11 ("The field of invention relates generally to security schemes for wireless networks, and, more specifically but not exclusively relates to techniques for enhancing security for broad band wireless networks.") 55. A POSITA would have been motivated to combine Gleichauf with Ovadia"
[New]: "and Ovadia 62. In my opinion, a POSITA when considering the teachings of Gleichauf would have also considered the teachings of Ovadia, as both relate to providing secure access when an individual computerized device connects to a network. EX1004, 3:4-9; EX1005, 1:8-11. A POSITA would have been motivated to combine the teachings of Gleichauf and Ovadia for multiple reasons"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Reasons"
[New]: "Motivation"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".

Comments from page 1 continued on next page

Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 26 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "represents merely the use of a known technique (Ovadia's TPM"
[New]: "merely uses known techniques (e.g., Ovadia's trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"computerized"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "(Gleichauf's"
[New]: "(e.g., Gleichauf's"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "56. A"
[New]: "In my opinion, a"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Inserted Subject: Text Date: Indeterminate
"63."

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM—as described in the TCG "platform-independent industry specification"—because"
[New]: "trusted platform module—as described in the Trusted Computing Group "platform-independent industry specification"— because"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at 4:32-35. The TCG was formed in the Spring of 2003"
[New]: "EX1005, 4:32-35; EX1014, 2 (TCG was formed"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "platforms." TCG Specification Architecture Overview at 2. A TCG-defined TPM can"
[New]: "platforms."). A TCG-defined TPM can advantageously"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 27 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "21"

Comments from page 1 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TCG Specification Architecture Overview at 2-4 (Rev. 1.2 Apr. 28, 2004). Information provided by the TPM is "trusted" because this information cannot be altered, and it is commonly encrypted or otherwise protected from manipulation by others. See U.S. Patent Pub. No. 2003/0061494 at [0011]"
[New]: "EX1014, 2-4; EX1016, ¶11"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Cromer at 2:8-11 ("Trusted Computing Platform Alliance (TCPA)" is now "currently referred to as the Trusted Computing Group (TCG)".); Yan at [0003]-[0004] (same). In this way, a device's posture credentials would be formatted at the device consistently and contain substantially the same information, regardless of the device manufacturer or components operating on the device. It would also allow Gleichauf's policy server to process posture credentials that were received, in a trusted manner from a device, more efficiently and in substantially the same way, again regardless of the device returning the credentials. 57. A POSITA would have appreciated the value of following an industry specification. It would promote interoperability among devices from different device manufacturers, so long as the devices are all specification compliant. Indeed, device interoperability is a common and important goal in computer networking. 58. Moreover,"
[New]: "EX1012, 2:8-11 (TCPA is the former name of TCG); EX1019, ¶¶3-4. Put differently, following the industry standard, as described in Ovadia, would benefit Gleichauf's system by formatting a device's posture credentials consistently and with substantially the same information, regardless of the device's manufacturer or components. This would also allow Gleichauf's policy server to process posture credentials that were received, in a trusted manner, more efficiently and in substantially the same way regardless of the device providing the credentials. Following the industry standard would also promote the interoperability of devices from diverse manufacturers. Ensuring the interoperability of devices is a common and important goal in the computer networking arts."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"64."

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "(TCG) security scheme (promulgated by the Trusted Computing Group…),""
[New]: "(TCG)""

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 2 continued on next page

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at"
[New]: "EX1005,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 28 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "22"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "IEEE P802.16-based networks that Ovadia describes,"
[New]: "wireless networks Ovadia describes"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "that in Gleichauf—that require authentication and authorization for access. 59. The"
[New]: "Gleichauf's—that condition network access on authentication and authorization of client devices."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"In my opinion, the"

Number: 8 Author: Text Inserted Subject: Text Date: Indeterminate
"65."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "is merely the application of a known technique (digitally"
[New]: "applies the known technique of digitally"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "secure, per Ovadia) to a known method (network authorization process that analyzes a device's posture credentials that contain critical security information about the device, including its authentication, per Gleichauf) ready for improvement to yield predictable results. Here, the improvement provided to Gleichauf's process by Ovadia's digital signature technique is resistance to forged or tampered-with posture credentials. A POSITA would have been familiar with the use of digital signatures to prove the integrity and authenticity of messages or other information communicated over a network. See, e.g., U.S. Patent Pub. No. 2006/0005009 at [0033] ("To ensure that the quoted value is not corrupted during communication, TPM 50 also can generate an attestation identity key (AIK) that is used to encrypt some or all of the quoted value. Attribute system 40 can communicate the encrypted quoted value and AIK to assurance system 42."). Gleichauf's process is also improved because the use of a digital signature allows the policy server to authenticate that the provided posture credentials originated with the device

Comments from page 3 continued on next page

attempting to gain access to the network. See Ovadia at 16:30-32 (“AS"
[New]: "secure (as in Ovadia) with the known network authorization process of analyzing a device’s security posture credentials, including its authentication (as in Gleichauf) to yield predictable results. In my opinion, a POSITA would have been familiar with the use of digital signatures to prove the integrity and authenticity of network communications and would have recognized that Ovadia’s digital signature technique would improve Gleichauf’s process by increasing resistance to forged or tampered-with posture credentials. EX1008, ¶33. In my opinion, a POSITA also would have recognized that use of a digital signature would improve Gleichauf’s process by enabling the policy server to confirm that the posture credentials originated with the device attempting to access the network. 66. In my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"authenticates the SS by performing a signature check using the SS’s AIK public key…”). 60. A"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "disclosed techniques. For example, Gleichauf explains"
[New]: "techniques. Gleichauf provides"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 29 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "23"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 4

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a digital signature produced by the device. Ovadia at 16:30-32. Thus, it would have been obvious to a POSITA to employ Ovadia's digital signature-checking technique"
[New]: "that device's digital signature. EX1005, 16:3032. It would have been obvious to a POSITA to use Ovadia's digital signatures"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "device-authentication step. 61. A"
[New]: "device authentication."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Inserted Subject: Text Date: Indeterminate
"In my opinion, a"

Number: 9 Author: Text Inserted Subject: Text Date: Indeterminate
"67."

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"the teachings of"

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "details"
[New]: "the descriptions"

Comments from page 4 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "so"
[New]: "and"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "applied"
[New]: "applicable"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "62. Like"
[New]: "For example, similar to"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "is used to gather"
[New]: "gathers"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "describes using"
[New]: "uses"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 3:8, 12:21-31; Ovadia at 4:40-43, 14:1-6,"
[New]: "EX1004, 3:8, 12:21-31; EX1005, 4:40-43, 14:1-6;"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM and"
[New]: "trusted platform module. EX1005, 13:61-63, Fig. 8. The integrity measurement is"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "challenge. Ovadia at 4:43-45, 13:61-63, Fig. 8. This is analogous to Gleichauf's description of sending the configuration state of a device (or "posture credentials")"

Comments from page 4 continued on next page

[New]: "challenge, which is analogous to Gleichauf's sending the posture credentials of a device"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: ""one or more requests 49 to authenticate the computerized device" seeking network access. Gleichauf at"
[New]: "requests to authenticate the device. EX1005, 4:43-45, 13:61-63, Fig. 8; EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 21 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 30 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "24"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"Ovadia at"

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"63."

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at 13:63-64, Fig. 8. This process is depicted in Ovadia's Figure 8:"
[New]: "EX1005, 13:63-64,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 31 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM"
[New]: "trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "to the authentication server because the integrity measurement is"
[New]: "because the integrity measurements are"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"thus"

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 5 continued on next page

[Old]: "Ovadia at 14:9, 5:35-36. It"
[New]: "EX1005, 14:9, 5:35-36. In my opinion, it"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM functionality. This functionality would include the ability to store, send,"
[New]: "trusted platform module functionality, e.g., the ability to store, provide,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Deleted Subject: Text Date: Indeterminate
"the greater"

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "64. Gleichauf and Ovadia"
[New]: "Such a combination would have involved application of known techniques (e.g., trusted platform module functionality) to improve the network security of Gleichauf's computerized devices in the same way in which Ovadia's trusted platform module operates (e.g., storing, providing, and digitally signing integrity measurements). Such a combination would also have involved the combination of prior art elements (e.g., combining Ovadia's well-known trusted platform module with Gleichauf's computerized devices) according to known methods to yield predictable results (improved network security to Gleichauf's computerized devices)."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "also both describe providing an explanatory message"
[New]: "Both references also describe providing a message with an explanation to the user of the device"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Inserted Subject: Text Date: Indeterminate
"68."

Number: 19 Author: Text Deleted Subject: Text Date: Indeterminate
"Nevertheless, the physical incorporation of Ovadia's TPM into Gleichauf's process of collecting and sending posture credentials of the device would teach the claim limitations. Notably, Ovadia teaches that a TPM"

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 33 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "25"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 6

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "measurement, respectively, are not accepted. Gleichauf at 4:50-67 ("notifications may include… an information message to be displayed to the user"); Ovadia at 16:62-65 ("rejection message… includes an error code and a display string containing an error message"). The analogous architectures of Gleichauf's and Ovadia's systems, together with the fact that they both solve similar problems within the same field of network access authentication, would"
[New]: "measurement is not accepted. EX1004, 4:50-67; EX1005, 16:62-65. In my opinion, the analogous architectures of Gleichauf's and Ovadia's respective systems— together with the fact that they both solve similar problems within the same field of network access authentication—would"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "I also note that both Gleichauf and Ovadia acknowledge that a POSITA would have had the necessary skill set to make "various changes in form and details" of their described embodiments. Gleichauf at 27:24-29; see Ovadia at"
[New]: "In my opinion, the predictability of their combination is also consistent with, and supported by, Gleichauf's and Ovadia's mutual acknowledgements that a POSITA would have had the skills to make "various changes in form and details" to their described embodiments. EX1004, 27:24-29; EX1005,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "65. The combination permits but does"
[New]: "In my opinion, the proposed combination permits but do"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"69."

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"can be implemented as a "hardware device (most common) or via software." Ovadia at 4:24-26. Gleichauf's posture agent can similarly be embodied "as a software or hardware application." Gleichauf at 9:29-39. Since Ovadia's TPM and Gleichauf's posture agent are both involved in the same process, it would have been obvious to pair Ovadia's TPM with Gleichauf's posture agent."

Comments from page 6 continued on next page

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Reasons"
[New]: "Motivation"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "66. A POSITA would have combined Gleichauf, Ovadia, and Lewis because they all relate to providing secure access for an individual computing device connecting to a network. Gleichauf at 3:4-9 ("By contrast, embodiments of the present invention … provide mechanisms that include a robust network security architecture and system for controlling access to a network depending on the configuration state or "security posture" of a device when it attempts to connect to that network."); Ovadia at 1:8-11 ("The field of invention relates generally to security schemes for wireless networks, and, more specifically but not exclusively relates to techniques for enhancing security for broad band wireless networks."); Lewis at 4:79 ("In view of the foregoing, the present invention provides a system for ensuring that machines having invalid or corrupt states are restricted from accessing network resources."). 67. A POSITA would have been motivated to combine Gleichauf and Ovadia with Lewis"
[New]: "70. In my opinion, a POSITA when considering the teachings of Gleichauf and Ovadia would have also considered the teachings of Lewis, as all of the references relate to providing secure access when an individual computerized device connects to a network. EX1004, 3:4-9; EX1005, 1:8-11; EX1006, 4:7-9. In my opinion, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis for multiple reasons"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
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Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "represents merely the use of a known technique (Lewis's"
[New]: "uses the known technique of"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 34 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "26"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "web page to the device)"
[New]: "webpage to the device, as in Lewis,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "(Gleichauf's traffic redirection and separate notification message to the device)"
[New]: "of traffic redirection, as in Gleichauf,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "68. The combination also would"
[New]: "In my opinion, the combination would also"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Inserted Subject: Text Date: Indeterminate
"71."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "(serving a web page with information and remediation instructions to a quarantined device, per Lewis) to a known method (providing a notification message identifying the reasons for denying a device access to the network, per Gleichauf and Ovadia) ready for improvement to yield predictable results. A POSITA would have known that serving a web page to a quarantined device from a quarantine server (with remediation instructions) would have the benefit of providing information to the user while at the same time preventing the device from communicating with network resources. Lewis at 10:61-66, 13:63-14:1. Serving a quarantine web page, per Lewis, would also be advantageous to sending a notification message, per Gleichauf or Ovadia. The redirection to Lewis's quarantine server is triggered by the user opening a browser and attempting to access network resources. See Lewis at 10:63-66 ("When client 202 is in quarantine and a user opens a web browser on client 202, QS 201 provides a web page to inform the user that the client 202 is in quarantine and corrective action must be taken."). Redirecting the device to a quarantine server and then serving a web page from the quarantine server"
[New]: "of serving a webpage to a quarantined device with information and remediation instructions to Gleichauf's and Ovadia's known methods of providing a notification message identifying reasons for quarantine, yielding predictable results. In my opinion, a POSITA would have known

Comments from page 7 continued on next page

that serving a webpage with remediation instructions to a quarantined device from a quarantine server would beneficially provide information to the user while simultaneously preventing the device from accessing protected network resources. EX1006, 10:61-66, 13:63-14:1. Lewis's quarantine webpage would also be advantageous to Gleichauf's or Ovadia's notification message. Gleichauf discloses notifications in the form of "extensible messaging format, such as a Type-Length-Value (TLV) or an extensible markup language (XML) format" which "are well-defined, application independent form for representing information or data." EX1004, 20:56-60. In comparison, Lewis's webpage served by the quarantine server is displayed"

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Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a"
[New]: "Lewis's"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "would merely require displaying the web page in the browser that the user is already using. This would be advantageous to sending a notification message, as in Gleichauf or Ovadia, that would potentially require"
[New]: "in the browser that a user already has opened. Therefore, modifying the XML/TVL notification approach in Gleichauf to Lewis's webpage based notifications would advantageously avoid"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 35 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "27"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 8

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"necessitating"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "See Gleichauf at 4:56-60 ("At the same time the policy server determines access, the policy server can transmit one or more notification messages to the posture agent and/or posture plug-ins running on the computer device attempting the gain access to the network."); Ovadia at 16:62-65 ("…a display string containing an error message"). 69. Serving a web page from a quarantine server would also give the user of the quarantined device the added option to elect to proceed with the recommended remediation or terminate the connection attempt. A user attempting to access the network from a fixed location, such as an office, may have the time necessary to proceed with the remediation actions. In this instance, the web page would direct the user to a remediation server, as taught by Gleichauf, that can correct the security issue. Gleichauf at 5:4-11. On the other hand, a user that may not have the requisite time needed to remediate the security issues may elect to terminate the connection attempt. This may occur, for example, if a user is attempting to access the network from a temporary location such as an airport terminal to quickly check e-mail shortly before boarding a flight. A"
[New]: "EX1004, 4:56-60; EX1005, 16:62-65. 72. In my opinion, serving a webpage from a quarantine server would also provide the quarantined device's user the option to proceed with the remediation or terminate the connection attempt. A user attempting to access the network from a fixed location (e.g., an office) may have time to proceed with remediation. In this instance, the webpage would direct the user to a remediation server that can resolve the security issues per Gleichauf. EX1004, 5:4-11. A user that does not have the time to remediate security issues (e.g., a user attempting access from an airport terminal) may opt to terminate the connection attempt. In my opinion, a"

Font "CIDFont+F4" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"notification"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a choice as to which action to take, depending on the user's own perceived need"
[New]: "the option to choose their desired course of action. 73. Additionally, A POSITA at the time would have understood that directing a user to a quarantine server rather than a remediation server would provide business benefits as well. Patch management and its associated costs and complications was well known at the time. EX1027, xxi-xxii, 2. While it was possible to redirect a system joining to the network to a Microsoft Update server, which would be the remediation server of the patent, doing so might cause wasted bandwidth from duplicate download and would not allow an organization's IT service to track what updates were installed on the system. Instead, in my opinion,"

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Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 36 of 110 Ex.1003 CISCO SYSTEMS, INC."

Comments from page 8 continued on next page

[New]: "28"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 9

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "and immediacy of accessing the network. 70. A"
[New]: "a POSITA would have understood that directing the system to a quarantine server would allow distribution of a locally-downloaded and cached version of system updates, saving network bandwidth, and would enable maintenance of a central database of what was installed and updated on each system. These are all part of normal IT operations and would be enabled by use of the quarantine server. Additionally, a system that required updates from several sources (e.g., Microsoft, Adobe, Oracle, etc.) could place those updates on one server, instead of requiring repeated attempts at joining the network and redirection to a variety of remediation servers."

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Number: 6 Author: Text Inserted Subject: Text Date: Indeterminate
"In my opinion, a"

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"74."

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "explained above,"
[New]: "explained,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 5:4-11. In other words, the policy server determines"
[New]: "EX1004, 5:4-11. Put differently, the policy server identifies"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "must be quarantined and what actions are necessary to remediate the security issue to allow the device to access the network. Gleichauf at 7:3-8, 4:60-63. It would have been straight-forward for a POSITA"
[New]: "is to be quarantined and, if it is, what actions should be taken to remediate the security issue before the device is allowed access to the network. EX1004, 7:3-8, 4:60-63. A POSITA would have found it straight-forward"

Comments from page 9 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "to the user within"
[New]: "of the message to the user in"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "web page as"
[New]: "webpage since"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "71. The combination permits"
[New]: "In my opinion, such a"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 37 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "29"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "but does not require physical incorporation of elements from Lewis and Ovadia into Gleichauf. Nevertheless, the physical incorporation of Lewis's redirection of device traffic to a quarantine server that served a web page to the device into Gleichauf-Ovadia's posture agent implemented with TPM functionality-driven process of collecting posture credentials of the computerized device would teach the claim limitations. Since all the references are involved in the same process, it would have been obvious to pair Lewis's redirection of device traffic to a quarantine server that served a web page to the device with Gleichauf-Ovadia's posture agent implemented with TPM functionality."
[New]: "modification involves a software change that is straightforward and is within the skillset of a POSITA at the alleged time of invention. 75. In my opinion, the proposed combinations permit but do not require physical incorporation of elements from Lewis and Ovadia into Gleichauf. F. Claim 1 76. In my opinion, claim 1 would have been obvious to a POSITA at the time of the invention, in view of the combination"

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Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "F. Detailed Analysis of Claims 1. Claim 1 a. [1.0] A method for protecting a network, comprising: 72. To the extent that the preamble is limiting, Gleichauf discloses it. 73. Gleichauf teaches a "computer-implemented method to control access to resources in a network." Gleichauf at"
[New]: "of Gleichauf, Ovadia, and Lewis. 1. [1pre] A method for protecting a network, comprising: 77. In my opinion, Gleichauf discloses a "computer-implemented method to control access to resources in a network." EX1004,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "reducing the risk of the network becoming infected with malware or suffering from a virus outbreak"
[New]: "decreasing the likelihood of malware or virus infection"

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Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"in fact the device that"

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 10 continued on next page

[Old]: "related side effects, by preventing systems capable of participating in such an outbreak from gaining access to the network. Gleichauf at 8:16-31. The status query mechanism is a simple authenticated challenge-response mechanism used to determine whether the posture on the computer device has changed, and also to make sure that the computer device that responds to the request is the same one that was previously authorized to access the network. Gleichauf at 5:55-60; see also Gleichauf at 7:56-61, 12:57-67. 74. Therefore, Gleichauf discloses "[a] method for protecting a network," as recited in the preamble. b. [1.1] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network, wherein detecting the insecure condition includes 75. Gleichauf renders this limitation obvious. 76. First, Gleichauf describes a "computerized device, such as a personal computer" that attempts to communicate with restricted resources: During an example operation of one embodiment, the computerized device, such as a personal computer attempting to communicate with restricted resources in the network, transmits an access request to the data"
[New]: "7:56-61, 8:16-31, 12:57-67. 2. [1a] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network, 78. In my opinion, Gleichauf discloses this limitation. 79. Gleichauf describes a "computerized device, such as a personal computer attempting to communicate with restricted resources in the network." EX1004, 3:50-56, 8:1-4. Figure 1 illustrates the computerized device sending an access request to the"

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Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "be: The policy server receives the challenge responses and, based upon an analysis of the posture credentials of the computerized device, determines a security state of the computerized device and either provides some level of or denies the computerized device access to the network resources based upon the analysis. The data communications system, therefore, detects the real-time security state of the computerized device prior to providing the computerized device with access to the network resources, thereby limiting at-risk or vulnerable computerized devices from accessing the network resources and minimizing the risk that the network resources receive malware. In effect, this invention helps "dampen" the propagation of worms and viruses, and"
[New]: "be. EX1004, 5:55-60,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 38 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "communications device (e.g., a router configured with embodiments of the invention) in an attempt to access the network resources within the network. Gleichauf at 3:50-56. During operation, the computerized device such as a personal computer transmits packets or a signaling request to the data communications device in an attempt to access the network resources within the network. Gleichauf at 8:1-4. 77."
[New]: "network ("attempting to connect to a protected network"):"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 39 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "30"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf's computerized device 22"
[New]: "EX1004, FIG. 1. Gleichauf's computerized device"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "and the restricted network resources are part of a protected network. The access requests, packet transmissions, and attempts to access the network resources show that Gleichauf's computerized device 22"
[New]: "and, the network, which contains resources protected by access control measures, is a protected network. In my opinion, the computerized device's attempt to access the restricted network resources through an access request shows that the device"

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Font-color changed.

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"80."

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "78. Second, Gleichauf teaches that a"
[New]: "Gleichauf's"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "device 22. Specifically, the computerized device's communication attempt triggers a "posture based challenge-response" interaction during which"
[New]: "device. The device's attempt to connect to the network triggers a "posture based challenge-response" exchange where"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 11 continued on next page

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "See Gleichauf at 11:29-32 (“The user device 22 transmits the posture response 44 to the network 24 where the posture response 44 includes the posture credentials 32 of the user device 22.”). The posture credentials can identify, for example,"
[New]: "EX1004, 11:29-32. The posture credentials contain"

Font "CIDFont+F4" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "information such as what particular"
[New]: "information” including information about the “particular"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 40 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "31"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 12

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "versions are installed within the computer system." Gleichauf at 3:3645. The policy server 28 of the network analyzes these posture credentials and detects, for example, the absence of an anti-virus definition, of an anti-virus software, or recent execution of the anti-virus software, any of which indicate that the computerized device 22 can be considered to be "vulnerable." This "vulnerability" is identified because network resources may become "infected" with malware carried by "vulnerable" devices. A device would also be "vulnerable" to any malware that might be transmitted to it by various network resources. A POSITA would thus have understood Gleichauf gathering and analyzing posture credentials to render obvious "detecting an insecure condition": While connected to the network, the conventional computerized devices can be subject to receive malware, such as computer viruses, worms, spy-ware, spam, or other types of unauthorized applications or content (here after referred to as "malware"). Gleichauf at 1:10-14. The security posture of the user device 22 relates, for example, to the user device's 22 ability to resist reception or transmission of malware (e.g., viruses), content (spam and/or data theft), or access by unauthorized users. Gleichauf at"
[New]: "versions" installed on the device. EX1004, 3:36-45. The policy server analyzes these posture credentials and detects the absence "of an anti-virus application (e.g., or an up-to-date anti-virus application or virus definition file)." EX1004, 14:16-34. Devices that "are not configured with anti-virus or up-to-date anti-virus applications" are considered "vulnerable" because "network resources [may] become 'infected' with malware carried by the 'vulnerable' [computerized] user device 22." EX1004, 22:38-59, 11:58-12:13. A device would also be vulnerable to any malware that might be transmitted by network resources. EX1004, 1:10-14,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Assume in another example, however, that based upon the comparison the policy server 28 fails to detect the presence of, or a listing of, the anti-virus definition version from the particular manufacturer within the accepted credential set 46. In such an example, in one arrangement, the policy server 28 transmits an access instruction 48 to the data communications device 26 that directs the data communications device 26 to restrict or completely reject communications from the user device 22 to the resources 25 within the network 24. This may include providing limited network access, such as only providing a path out of a corporate network to the Internet, but fully restricting access to any internal sub-networks. Gleichauf at 11:58-12:13. In another example, assume that during the analysis of the posture credentials 32 of the computerized device 22, the policy server 28 fails to detect the presence of an antivirus application (e.g., or an up-to-date anti-virus application or virus definition file) associated with the user device 22. The access instructions 48 generated by the policy server 28 and then transmitted to the data communications device 26 directs the data communications device 26, in turn, to restrict (e.g., prevent) communications traffic between the user device 22 and the network resources 25. In such an example,"
[New]: "Thus, in my opinion, the absence of an anti-virus application or up-to-date anti-virus application is an example of"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 41 of 110 Ex.1003 CISCO SYSTEMS, INC."

Comments from page 12 continued on next page

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "because the user device 22 fails to include an associated anti-virus application, the user device 22 has a relatively high risk for transmitting a virus to the network resources 25"
[New]: "an insecure condition."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "of the network 24. As such, the data communications device 26, in one arrangement, denies the user device 22 access to the network resources 25, based upon the access instruction 48 because the user device has a relatively high probability or risk of passing a virus into the network 24. Gleichauf at 14:16-34. Assume, however, that based upon the analysis, the policy server 28 fails to detect the presence of, proper configuration, or timely execution of the anti-virus application from the particular manufacturer within the accepted credential set 46. In such an example, in one arrangement, the policy server 28 transmits a network admission instruction 48 to the data communications device 26 that directs the data communications device 26 to restrict or reject communications from the user device 22 to the resources 25 within the network 24. In the above-described arrangement, the policy server 28 detects the real-time security posture or security state of a user device 22 (e.g., as indicated by the posture credentials 32) prior to providing the user device 22 with access to the network resources 25. By detecting the real-time security"
[New]: "Gleichauf also describes other examples of a potential insecure condition, such as "the version of operating systems used by the user device 22"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Inserted Subject: Text Date: Indeterminate
"81."

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "state of the user device 22, the policy server 28 aids in minimizing "vulnerable" user devices 22 (e.g., user devices 22 that are not configured with anti-virus or upto-date anti-virus applications) from accessing the network 24. As such, the policy server 28 aids in minimizing the risk that the network 24 or network resources 25 become "infected" with malware carried by the "vulnerable" user device 22. Gleichauf at 22:38-59. 79. Gleichauf describes detecting other potential insecure conditions based on, for example, the version of an operating system on the device, the presence of updated "patches" associated with the operating system, and when was the last time a local virus scan was performed because vulnerabilities may exist as a result of these device characteristics: Also assume that a scanning application periodically scans computerized devices connected to LAN (e.g., once a day) for the presence of known vulnerabilities in the device operating system, resident applications, associated security programs, and their respective configurations. Gleichauf at 1:65-2:3. In another arrangement, the user device 22 includes a posture plug-in 32 that indicates the version of operating systems used"
[New]: "or the presence of updated 'patches' associated with the operating systems" and "when was the last time a local antivirus scan was executed." EX1004, 1:65-2:3, 8:65-9:1, 3:36-45, 31:1-7. Gleichauf explains that there may be "known vulnerabilities in the device operating system, resident applications, associated security programs, and their respective configurations." EX1004, 1:65-2:3. Additional examples of a potential insecure condition are discussed infra at [1d] in relation to the attestation of cleanliness."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 44 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "32"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "by the user device 22 or"
[New]: "In my opinion, by gathering information relating to a computerized device's vulnerabilities—such as"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"82."

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "updated "patches" associated with the operating systems. Gleichauf at 8:65-9:1. Posture credentials collected in real time from the posture plug-ins by the posture agent can identify critical security information Such as what particular virus software and virus definition versions are installed within the computer system, when was the last time a local antivirus scan was executed, what operating system patches are installed within the computer system, what particular types and versions of software applications are configured and active within the computer system, and so forth. Gleichauf at 3:36-45; see also Gleichauf at 31:1-7. 80. Gleichauf depicts in Figure 1, below, an embodiment that includes the computerized device 22 sending an access request 40 to the network 24 ("attempting to connect to a protected network"):"
[New]: "an up-to-date anti-virus application and operating system patches or when an anti-virus scan was last run—"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 45 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "first host Gleichauf at Fig. 1 (annotated). 81. Therefore, Gleichauf discloses "detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network, wherein detecting the insecure condition includes." c. [1.2]"
[New]: "Gleichauf discloses detecting an insecure condition. 3. [1b] wherein detecting the insecure condition includes"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "82. The"
[New]: "In my opinion, the"

Comments from page 13 continued on next page

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "renders this limitation obvious."
[New]: "discloses this limitation."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Inserted Subject: Text Date: Indeterminate
"83."

Number: 13 Author: Text Deleted Subject: Text Date: Indeterminate
"83. First,"

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"22"

Number: 15 Author: Text Inserted Subject: Text Date: Indeterminate
"84."

Number: 16 Author: Text Deleted Subject: Text Date: Indeterminate
"30"

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "device, which"
[New]: "device that"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Deleted Subject: Text Date: Indeterminate
"32"

Number: 19 Author: Text Deleted Subject: Text Date: Indeterminate
"84."

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "posture: According to some embodiments of the invention, computer systems such as personal computers can be configured with security agent software referred to herein as a security, or "posture" agent that can be remotely activated, and one or more software plug-ins, hereafter referred to "posture plug-ins", that the posture agent uses to collect information associated with the security posture of the computer device. Gleichauf at"
[New]: "posture. EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 21 Author: Text Deleted Subject: Text Date: Indeterminate
"posture"

Number: 22 Author: Text Deleted Subject: Text Date: Indeterminate
"the posture"

Number: 23 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a "posture plug-in API" that is implemented by each posture plug-in manufacturer: There is a well-defined application-programming interface (API) here-in-after named "posture plug-in API" that each posture plug-in manufacturer must implement to allow the posture agent to access posture information. Gleichauf at 9:24-28."
[New]: "an API implemented by each plug-in manufacturer and prepares"

Comments from page 13 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 24 Author: Text Deleted Subject: Text Date: Indeterminate
"85."

Number: 25 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 26 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "The posture agent uses the posture information to prepare posture credentials that it transmits to a"
[New]: "posture credentials that it transmits to the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 27 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "The posture agent can be implemented in either software or hardware: The user device 22 also includes a posture agent 30 configured to receive a sequence of challenge requests 42, and in response, collects posture credentials from the installed posture plug-ins 32 and transmits posture credentials 32, associated with the user device 22, to the policy server 28. The posture agent 30, embodied as a software or hardware application, works in conjunction with the data communications device and policy server 28 to verify a security status of the user device 22 prior to the user device 22 accessing the network 24 (e.g., the network resources 25 within the network 24). Gleichauf at 9:29-39."
[New]: "EX1004, 9:24-39. Gleichauf's posture agent is "embodied as a software or hardware application." EX1004, 9:29-39. Since the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 28 Author: Text Deleted Subject: Text Date: Indeterminate
"In other words, Gleichauf's"

Number: 29 Author: Text Deleted Subject: Text Date: Indeterminate
"86."

Number: 30 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "restricted network resources. A"
[New]: "the restricted resources, in my opinion, a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 31 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "security and, as a result,"
[New]: "security. Thus,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 32 Author: Text Deleted Subject: Text Date: Indeterminate
"posture plug-ins on the computerized device"

Number: 33 Author: Text Deleted Subject: Text Date: Indeterminate
"posture"

Number: 34 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: ""trusted"
[New]: "trusted"

Font "CIDFont+F4" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 35 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 13 continued on next page

[Old]: "/ Page 48 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "33"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 14

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "base" as claimed. See supra § VII.A (construing"
[New]: "base within the computerized device that provides security Gleichauf's data communication system. §III(D)(1) (construction of"

Font "CIDFont+F1" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Second,"

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"87."

Number: 8 Author: Text Inserted Subject: Text Date: Indeterminate
"85. In my opinion,"

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TCG"
[New]: "Trusted Computing Group"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"("TPM")"

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at 4:16-47. When Ovadia identifies the TCG main specification, Ovadia at 4:32-33, it is referring to the "main specification" from TCG, which is the Trusted Platform Module (TPM) Main Specification, Version 1.2, dated October 2003: Trusted Platform Module specification is identified as the "Main" specification. TCG Specification Architecture Overview at iv (annotated). See also TPM Main Specification."
[New]: "EX1005, 4:16-47. The main specification from TCG is the Trusted Platform Module Main Specification: EX1014, iv. EX1015. 86. Ovadia's trusted platform module implements the Trusted Platform Module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 14 continued on next page

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"88."

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia's TPM, depicted in Figure 2 below, implements the TPM main specification from the TCG and further includes a "cryptographic co-processor,""
[New]: "main specification from the TCG and includes a "cryptographic co"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 49 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "34"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 15

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"processor,""

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at 4:46-55. Since Ovadia's TPM implements the TPM main specification from the TCG,"
[New]: "EX1005, 4:46-55, Fig. 2. Since Ovadia's trusted platform module implements the Trusted Platform Module main specification, in my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "is used to store cryptographic keys because that function"
[New]: "stores cryptographic keys because that is how it"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"TPM"

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM Main Specification at 13, 19; TCG Specification Architecture Overview at 19. Ovadia at Fig. 2 (annotated)."
[New]: "EX1013, 19; EX1008, 19; EX1005, FIG. 2: 87. Further, Gleichauf's policy server contacts the computerized device's posture agent, which prompts the posture agent to collect the device's posture credentials from the posture plug-ins. EX1004, 4:7-11, 3:28-36. Gleichauf's Figure 1, below, shows the posture agent within the device:"

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Font-color changed.

Number: 10 Author: Text Inserted Subject: Text Date: Indeterminate
"35"

Page: 16

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705 Declaration of Clay Shields, Ph.D. U.S. Patent No."

Number: 2 Author: Text Inserted Subject: Text Date: Indeterminate
"EX1004, FIG. 1. In my opinion, it would have been obvious to a POSITA that the trusted platform module would likewise be within the device."

Number: 3 Author: Text Deleted Subject: Text Date: Indeterminate
"89."

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia's TPM"
[New]: "in my opinion, Ovadia's trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "See supra § VII.B (construing "trusted platform module"). The TPM "may be embodied as a hardware device (most common) or via software." Ovadia at 4:24-26. The TPM, like"
[New]: "§III(D)(2) (construction of "trusted platform module"). Furthermore, in my opinion, the "computerized device" constitutes the hardware portion of the trusted computing base. 88. Ovadia's trusted platform module "may be embodied as a hardware device (most common) or via software." EX1005, 4:24-26. Like"

Font "CIDFont+F4" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 50 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "36"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Inserted Subject: Text Date: Indeterminate
"Ovadia's trusted platform module"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "configuration, referred to as the integrity measurement,"
[New]: "configuration (called the integrity measurement)"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at"
[New]: "EX1006,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "station: The initial signup phase begins in a block 800, wherein a measurement of at least one of the SS platforms authorized firmware and software configuration(s) is performed to produce an integrity measurement corresponding to the authorized configuration(s). The integrity measurement is then stored in an appropriate PCR in a block 802, and sent to the AS as an authorized Config_ID in a block 804. As above, the integrity measurement may be encrypted and/or digitally signed with appropriate keys. The AS extracts the Config_ID and stores it in its database, which completes the initial signup process. In response to initiation of a post-signup access, the SS will receive an authentication request message or send the following in an authentication request. First, in a block 806, a current measurement of the firmware and/or software configuration (corresponding to the earlier measurement) is made to produce a current integrity measurement. The appropriate PCR is then hash-extended with the current integrity measurement in a block 808. The hash-extended PCR value is then extracted, digitally signed with the SS's AIK private key, and sent to the AS in a block 810. Upon receipt, the AS authenticates"
[New]: "station, including the "current measurement of the firmware and/or software" of the station. EX1006,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the digital signature using the SS's AIK public key that it has previously received. Ovadia at 13:57-14:12."
[New]: "13:57-14:12. 89. In my opinion,"

Comments from page 17 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 51 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"92."

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"first host trusted computing base Gleichauf at Fig. 1 (annotated)."

Number: 13 Author: Text Deleted Subject: Text Date: Indeterminate
"93."

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"It would have been obvious to a POSITA that the “trusted platform module” would also be “within” the computerized device."

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "As described in more detail in Section IX.D, a POSITA would have been motivated to combine the teachings of Gleichauf and Ovadia,"
[New]: "have been motivated to combine the teachings of Gleichauf and Ovadia"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Deleted Subject: Text Date: Indeterminate
"Gleichauf illustrates in Figure 1 (below) that the posture agent is within the computerized device 22 (“the first host”):"

Number: 17 Author: Text Deleted Subject: Text Date: Indeterminate
"Third, the policy server “contacts” the computerized device’s posture agent, prompting the posture agent to collect the computerized device’s posture credentials from one or more posture plug-ins: The challenge request sequence happens in real time and causes the posture agent within the computerized device to collect information associated with the security posture of the computer device, hereafter referred to as “posture credentials”, from one or more posture plugins, and to transmit these posture credentials securely to a policy server operating within the network to determine what type of admission policy and level of network access should be assigned to that device. Gleichauf at 3:28-36. Once the secure channel has been established, the policy server submits a request to the posture agent via the data communications device for all or a selected set of posture credentials. Gleichauf at 4:7-11."

Number: 18 Author: Text Deleted Subject: Text Date: Indeterminate
"90."

Number: 19 Author: Text Deleted Subject: Text Date: Indeterminate
"91."

Number: 20 Author: Text Inserted Subject: Text Date: Indeterminate
"§IV(D) (motivation to combine)."

Number: 21 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM functionality."
[New]: "trusted platform module functionality. §IV(D) (motivation to combine)."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 22 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "of"
[New]: "in"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 23 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at"
[New]: "EX1005,"

Comments from page 17 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 24 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 25 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "specification, in turn,"
[New]: "specification"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 26 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPMs. Ovadia at"
[New]: "trusted platform modules. EX1005,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 27 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM"
[New]: "trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 28 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM"
[New]: "trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 29 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "From"
[New]: "On"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 30 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPMs"
[New]: "trusted platform"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 31 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "on. And"
[New]: "on, and"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 17 continued on next page

Number: 32 Author: Text Inserted Subject: Text Date: Indeterminate
"37"

Page: 18

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705 Declaration of Clay Shields, Ph.D. U.S. Patent No."

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "From"
[New]: "In my opinion, on"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Inserted Subject: Text Date: Indeterminate
"modules"

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "credentials,"
[New]: "credentials"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server,"
[New]: "server"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a higher assurance that the necessary information is provided."
[New]: "more confidence."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"simply"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM functionality, as taught by Ovadia (i.e., "trusted platform module")."
[New]: "trusted platform module functionality, i.e., a trusted platform module, per Ovadia. 90. For example, in my opinion, one straight-forward way a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"A"

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"94."

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "appreciated that one obvious way to implement Gleichauf's posture agent with TPM"
[New]: "implemented Gleichauf's posture agent with trusted platform module"

Comments from page 18 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "by"
[New]: "in combination with"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM. See, e.g., Ovadia at"
[New]: "trusted platform module. EX1005,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM"
[New]: "trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "API" to collect posture information. Gleichauf at 9:24-28. With Gleichauf's posture agent executing in Ovadia's TPM"
[New]: "API [application programming interface]" to collect information requested by Gleichauf's policy server. EX1004, 9:24-28. With the posture agent executing in combination with the trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM main specification from the TCG. Ovadia at"
[New]: "Trusted Platform Module main specification. EX1005,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 54 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "38"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "A POSITA would have appreciated that another obvious way to implement Gleichauf's posture agent with TPM functionality would be to simply integrate the posture agent software with a software-implemented TPM, as taught by Ovadia. See Ovadia at 4:24-26 ("TPM functionality may be embodied… via software."). With the posture agent (part of the "trusted computing base") either executing on TPM hardware or integrated with"
[New]: "91. As another example, in an implementation of Gleichauf's posture agent with trusted platform module functionality the posture agent software would simply be integrated with a software-implemented trusted platform module. EX1005, 4:24-26 ("TPM functionality may be embodied… via software."). In my opinion, with the posture agent (part of the trusted computing base) executing on the TPM hardware or integrated with the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"95."

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
""associated with a trusted platform module.""

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Therefore, the combination of Gleichauf and Ovadia discloses "contacting a trusted computing base associated with a trusted platform module within the first host." d. [1.3] receiving a response, and 96. Gleichauf discloses and/or renders this limitation obvious. 97. The computerized device's posture agent responds to the policy server's request by collecting the device's posture credentials from"
[New]: "associated with a trusted platform module. 4. [1c] [wherein detecting the insecure condition includes …] receiving a response, and 92. In my opinion, Gleichauf discloses this limitation. Gleichauf's posture agent responds to the policy server's request by collecting the computerized device's posture credentials from the"

Font "CIDFont+F1" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server:"
[New]: "server. EX1004, 3:28-36, 4:1115. Gleichauf's Figure 1 illustrates"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 19 continued on next page

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"44"

Number: 11 Author: Text Inserted Subject: Text Date: Indeterminate
"a"

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "The challenge request sequence happens in real time and causes the posture agent within the computerized device to collect information associated with the security posture of the computer device, hereafter referred to as “posture credentials”, from one or more posture plug-ins, and to transmit these posture credentials securely to a policy server operating within the network to determine what type of admission policy and level of network access should be assigned to that device. Gleichauf at 3:28-36. The posture agent requests the specified posture credentials from the associated posture plug-ins installed on the device and transmits the requested posture credentials back to the policy server via the data communications device. Gleichauf at 4:11-15."
[New]: "the transmission and reception of posture credentials:"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 55 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 56 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "39"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 20

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"98."

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"in my opinion,"

Number: 6 Author: Text Inserted Subject: Text Date: Indeterminate
"EX1004, FIG. 1."

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf illustrates in Figure 1 (below) the transmission and reception of the posture credentials:"
[New]: "5. [1d] [wherein detecting the insecure condition includes ...]"

Font "CIDFont+F1" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "transmitted posture credentials received posture credentials Gleichauf at Fig. 1 (annotated). 99. Therefore, Gleichauf discloses "receiving a response." e. [1.4] determining whether the response includes a valid digitally signed attestation of cleanliness, 100. The combination of Gleichauf and Ovadia renders this limitation obvious."
[New]: "determining whether the response includes a valid digitally signed attestation of cleanliness, 93. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. 94. As"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"101."

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "First, as discussed at [1.3],"
[New]: "discussed above,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 20 continued on next page

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "The computerized device's posture credentials (received by the policy server)"
[New]: "§IV(F)(4) (limitation 1c). The posture credentials received by the policy server"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "of installed software applications (each individually and collectively providing an "attestation of cleanliness"): Posture credentials collected in real time from the posture plug-ins by the posture agent can identify critical security information such as what particular virus software and virus definition versions are installed within the computer system, when"
[New]: "particular virus software and virus definition versions are installed," "when"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the status of anti-virus definitions, last time a local virus scan was performed, operating system patches, and types and versions"
[New]: ""what"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 57 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "40"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 21

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "installed within the computer system, what particular types and versions of software applications are configured and active within the computer system, and so forth. By providing a security posture based challengeresponse mechanism for network admission control, embodiments of this invention are able to dramatically reduce the opportunities for injection of malware into a network. Gleichauf at 3:36-49."
[New]: "installed," and "types and versions of software applications" on the device, each individually and collectively providing an attestation of cleanliness. EX1004, 3:36-49. 95. The"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "executed, what"
[New]: "executed," "what"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"102."

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Second, the policy server reviews and validates"
[New]: "policy server analyzes and "validate[s]"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "credentials received from the computerized device"
[New]: "credentials""

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 21 continued on next page

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "..."
[New]: "..."

Font "CIDFont+F4" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"Gleichauf at"

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"103."

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "cleanliness"): The policy server 28 is a computerized device configured to determine the particular posture credentials to request from the posture agent, and [to] validate the posture credentials 32 associated with the user device 22."
[New]: "cleanliness"). EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "may accept as valid a set of posture credentials that show an anti-virus application and a desired version of anti-virus definitions: The policy server 28 reviews the accepted credential set 46 to detect the presence (e.g., a listing) of the identity of the anti-virus application and definition version from the particular manufacturer within the accepted credential set 46. Assume, for example, that based upon the comparison the policy server 28 detects the presence of, or a listing of the same anti-virus application and definition version from the particular manufacturer within the accepted credential set 46. In such an example, in one arrangement, the policy server 28 transmits an access instruction 48 to the data communications device 26 that directs the data communications device 26 to allow communications between the user device 22 and the resources 25 within the network 24. Gleichauf at 11:45-58."
[New]: "checks for (i.e., "determin[es]") the presence of an"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 58 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 16 Author: Text Deleted Subject: Text Date: Indeterminate
"104."

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "The policy server reviews the returned posture credentials, for example, for the presence of an anti-virus application and definition (i.e., "determining"). In this example, as described in more detail below, if the current anti-virus definition is present, the computerized device will be allowed to communicate with"
[New]: "anti-virus application. EX1004, 10:30-33. If a current anti-virus application is present, the computerized device will be allowed to access the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "deems"
[New]: "deemed"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 21 continued on next page

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 11:45-58. If, on the other hand, the current anti-virus definition is not present, communications from the computerized device to the network will be restricted or completely rejected, showing that the response is deemed not to include "a valid ... attestation of cleanliness." Gleichauf at 11:58-67."
[New]: "EX1004, 11:45-58. If a current anti-virus application is absent, the device's access to the network will be restricted, which demonstrates that the policy server deemed the response to lack "a valid ... attestation of cleanliness." EX1004, 11:58-67. 96. The"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 21 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "..."
[New]: "..."

Font "CIDFont+F4" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 22 Author: Text Deleted Subject: Text Date: Indeterminate
"105."

Number: 23 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Third, Gleichauf explains that the computerized device's posture agent transmits posture credentials (i.e., "attestation of cleanliness") "securely" to the policy server: The data communications device 26, policy server 28, and posture agent 30 may securely transmit posture and/or identity using protocols such as the Extensible Authentication Protocol (EAP), Protected Extensible Authentication Protocol (PEAP) and Flexible EAP Authentication using Secure Tunnel Protocol (EAP-FAST) over various network transports, including a Layer 2 transport Such as wired LAN (Ethernet) and wireless LANs, and a Layer 3-based transport such as User Datagram Protocol (UDP). Gleichauf at 11:3-12."
[New]: "posture agent "securely transmit[s]" posture credentials to the policy server. EX1004, 11:3-12. 97."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 24 Author: Text Deleted Subject: Text Date: Indeterminate
"Fourth,"

Number: 25 Author: Text Deleted Subject: Text Date: Indeterminate
"106."

Number: 26 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "regarding the"
[New]: "about"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 27 Author: Text Deleted Subject: Text Date: Indeterminate
"communication"

Number: 28 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "gaining"
[New]: "requesting"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 29 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf, Ovadia's device seeking network access—a subscriber station, "SS"—uses its TPM to respond to an authentication request message by making"
[New]: "the device in Gleichauf, Ovadia's subscriber station seeking network access uses its trusted platform module to respond to an authentication request by taking"

Comments from page 21 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 30 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 60 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "41"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at 14:1-6. The current"
[New]: "EX1005, 14:1-6. The"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM and"
[New]: "trusted platform module. EX1005, 13:61-63, Fig."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"8."

Number: 8 Author: Text Inserted Subject: Text Date: Indeterminate
"The integrity measurement is then"

Number: 9 Author: Text Inserted Subject: Text Date: Indeterminate
"[subscriber station's]"

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"8."

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at 13:61-63, 14:6-10, Fig."
[New]: "EX1005, 14:6-10. The"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "If the integrity measurement of the subscriber station is acceptable and "the digital signature is authentic," then the subscriber station "is authenticated" and allowed access to the network. Ovadia at 14:13-23; see also Ovadia at 16:66-17:6 ("...the requesting SS, whose identity was authenticated through the SS AIK private key signature, is authorized for basic unicast [communication] services...")."

Comments from page 22 continued on next page

[New]: "subscriber station “is authenticated” and allowed access to the network if the integrity measurement is acceptable and “the digital signature is authentic.” EX1005, 14:1323, 16:66-17:6. 98. In my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Deleted Subject: Text Date: Indeterminate
"As described in more detail in Section IX.D,"

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"107."

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia, and doing so would have been within the POSITA’s skillset. A POSITA would have understood the role Ovadia’s digital signature played in authenticating a user’s device. Digitally signing Gleichauf’s posture credentials, as taught by Ovadia, would provide a mechanism for Gleichauf’s policy server (which evaluates those credentials) to be assured"
[New]: "Ovadia and would have had the skills to do so. §IV(D) (motivation to combine). A POSITA would have understood that Ovadia’s digital signature decreases the risk of accepting credentials that have been altered by a malicious actor. Furthermore, a POSITA would understand that Ovadia’s digital signature provides the necessary confidence that the credentials have not been altered. As discussed above, in the combination, Gleichauf’s posture credentials would be prepared by a posture agent implemented with trusted platform module functionality (as taught by Ovadia). §IV(F)(3) (limitation 1b). In my opinion, a POSITA would have recognized that digitally signing Gleichauf’s posture credentials (as taught by Ovadia) would provide a mechanism for Gleichauf’s policy server (which evaluates those credentials) to confirm"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 61 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "42"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"prepared by a posture agent implemented with TPM functionality, as taught by Ovadia."

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "with by a malicious actor. As discussed in [1.2], in the combination, Gleichauf's posture credentials would be"
[New]: "with."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM (embodied in Gleichauf's posture agent implemented with TPM functionality as discussed at [1.2])"
[New]: "trusted platform module (Gleichauf's posture agent implemented with trusted platform module functionality (§IV(F)(3) (limitation 1b))"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ovadia at"
[New]: "EX1005,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM"
[New]: "trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "In other words,"
[New]: "Put differently,"

Comments from page 23 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the presence of the virus or malware on the computing device. It"
[New]: "their presence on the computing device. In my opinion, it"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "TPM"
[New]: "trusted platform module"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Inserted Subject: Text Date: Indeterminate
"In my opinion, a POSITA would have further found it obvious to substitute Ovadia's teachings"

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"108."

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Additional analysis of the obviousness of combining Gleichauf and Ovadia is provided above in Section IX.D."
[New]: "of digitally signing the integrity measurement for Gleichauf's generic recitation of secure transmission. §IV(D) (motivation to combine)."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 62 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "43"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "109. Therefore, the combination of Gleichauf and Ovadia discloses “determining whether the response includes a valid digitally signed attestation of cleanliness.” f. [1.5]"
[New]: "6. [1e]"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "110. Gleichauf discloses this limitation. 111. The computerized device’s posture credentials that are"
[New]: "99. In my opinion, Gleichauf discloses and/or renders this limitation obvious. 100. The computerized device’s posture credentials"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "[1.4])."
[New]: "§IV(F)(5) (limitation 1d))."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"the"

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"treated as"

Comments from page 24 continued on next page

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the computerized device's ability to access the network. Gleichauf at 22:38-47. It would have been obvious to a POSITA that the opposite showing would have"
[New]: "network access. EX1004, 22:38-47. In my opinion, it would have been understood to a POSITA that the opposite showing would have had"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "obvious for a posture credential that does show the"
[New]: "well understood from the disclosure that a posture credential that does show"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Inserted Subject: Text Date: Indeterminate
"is"

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"112."

Number: 15 Author: Text Inserted Subject: Text Date: Indeterminate
"101."

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the presence (or absence) of an anti-virus software and currency of an anti-virus definition, operating"
[New]: "“what"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 63 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 18 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "system patches, and particular types and versions of software applications on the computerized device. This information is gathered by the posture plug-in ("trusted computing base"): Posture credentials collected in real time from the posture plug-ins by the posture agent can identify critical security information such as what particular virus software and virus definition versions are installed within the computer system, when was the last time a local antivirus scan was executed, what operating system patches are installed within the computer system, what particular types and versions of software applications are configured and active within the computer system, and so forth. By providing a security posture based challenge-response mechanism for network admission control, embodiments of this invention are able to dramatically reduce the opportunities for injection of malware into a network. Gleichauf at 3:36-49."
[New]: "particular virus software and virus definition versions are installed," "what operating system patches are installed," and what "types and versions of software applications" are on the device. EX1004, 3:36-49. In my opinion, such"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 64 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "44"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Such"

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"113."

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "on software and patches are"
[New]: "concerning patches associated with software is"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"The"

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"114."

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"the"

Number: 10 Author: Text Inserted Subject: Text Date: Indeterminate
"102. Gleichauf's"

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"the"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 9:50-53. The"
[New]: "EX1004, 9:50-53. In my opinion, the"

Comments from page 25 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Deleted Subject: Text Date: Indeterminate
"posture"

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the “trusted computing base,”"
[New]: "trusted computing base,"

Font "CIDFont+F1" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 17 Author: Text Deleted Subject: Text Date: Indeterminate
"115."

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Ex.1003, ¶ XX."
[New]: "103. In my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "provided in"
[New]: "of"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 20 Author: Text Deleted Subject: Text Date: Indeterminate
"notes that the attestation of cleanliness may include “assertions about the currency of a scan, such as the last time a scan was performed, or a version associated with a current anti-contagion software or definition file in use.” ‘705 patent at 14:1219. Specifically, the ‘705 patent"

Number: 21 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "‘705 patent at 14:12-19."
[New]: "EX1001, 14:12-19. 104. In my opinion, a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 22 Author: Text Deleted Subject: Text Date: Indeterminate
"A"

Number: 23 Author: Text Deleted Subject: Text Date: Indeterminate
"116."

Number: 24 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 65 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "45"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "executed," Gleichauf at 3:36-49,"
[New]: "executed" (EX1004, 3:36-49)"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "assertions"
[New]: "note"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "scan, e.g., how recently a virus scan was performed."
[New]: "scan. 7. [1f]"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"118."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Therefore, Gleichauf discloses "wherein the valid digitally signed attestation of cleanliness includes at least one of an attestation that the trusted computing base has ascertained that the first host is not infested, and an attestation that the trusted computing base has ascertained the presence of a patch or a patch level associated with a software component on the first host." g. [1.6] when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network, wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes 119. Gleichauf renders this limitation obvious. 120. First, as explained in [1.4], the policy server reviews and validates the posture credentials received from the computerized device. Gleichauf at"
[New]: "when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network, 105. In my opinion, Gleichauf discloses and/or renders this limitation obvious. 106. As I explained in §IV(F)(5) (limitation 1d), Gleichauf's policy server reviews and validates posture credentials. EX1004,"

Comments from page 26 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"Finally, I note that Gleichauf renders obvious including within the posture credentials information about both the time of the last virus scan and software patch levels. Since claim limitation [1.5] recites that the cleanliness attestation needs to include "at least one of" the recited types of information, either of Gleichauf's teachings discussed above is sufficient to render the claim limitation obvious."

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"117."

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 66 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 13 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "returned posture credentials, for example, for the presence of an anti-virus application and definition (Gleichauf at 11:45-58) or the timeliness of the last virus scan (Gleichauf at 22:38-42)."
[New]: "credentials for compliance with network admission policy, e.g., for the presence of an anti-virus application and/or the timeliness of the last virus scan. EX1004, 11:45-58, 22:38-42. 107. Further,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Deleted Subject: Text Date: Indeterminate
"121."

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Second, Gleichauf teaches"
[New]: "Gleichauf describes"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "quarantine: Devices that are more significantly out of compliance may be placed on an isolated, or "quarantine" network segment where they can be brought into compliance. Gleichauf at 4:24-27. Based on posture information gleaning from these other mechanisms, the policy server may determine the appropriate admission rules to be downloaded to the data communications device including allowing access to restricted resources, quarantining the computer device or denying access completely. Gleichauf at 7:3-8. 122. As Gleichauf indicates, there are many reasons why a device might be placed in quarantine. For example, a device may be quarantined if it is found to be out of compliance with a network admission policy. Gleichauf at 4:50-56. A device might also be put into quarantine if its behavior is found to be anomalous, suggesting that it may have been compromised. See U.S. Patent Pub. No. 2005/0097199 at"
[New]: "quarantine ("quarantining the first host"). EX1004, 4:24-27, 7:3-8. There are many reasons why a device might be placed into quarantine, including if it is found to be out of compliance with a network admission policy (EX1004, 4:50-56), if its behavior is found to be anomalous, suggesting that it may have been compromised (EX1018, ¶39),"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a"
[New]: "the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 26 continued on next page

[Old]: "[0039] (“For example, if the first network device 110 is a server that always services requests from other devices, an anomaly occurs when the server begins making requests. ... The scanning action module 215 can then perform one or more of the actions described above or below (e.g., quarantine the first network device 110, ...”). Another reason a device might be quarantined is if it is found to be infected with a virus or is found to have been hijacked by an unauthorized entity. See, e.g., U.S. Patent No. 7,571,460 at"
[New]: "or if it is found to be infected with a virus or has been hijacked by an unauthorized entity. EX1009,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 67 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "46"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "of the anti-virus definition" in the computerized"
[New]: "of, the anti-virus" application or definition in the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "123. For example, if"
[New]: "108. If"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: ""when it"
[New]: ""it"

Font "CIDFont+F4" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Devices that are out of compliance are quarantined such that communications from such devices to network resources are either restricted or rejected (i.e., "quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network"): In one arrangement, the data communications device assigns devices that are out of compliance with admission requirements to a quarantine, or remediation network. This remediation admission policy is issued by the policy server based on comparison of the posture credentials of"
[New]: "EX1004, 11:59-60. Gleichauf provides that "devices that are out of compliance with admission requirements [are assigned] to a quarantine." EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate

Comments from page 27 continued on next page

"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

[Old]: "the device relative to predefined network admission requirements, or security policy. Gleichauf at 4:50-56. Assume in another example, however, that based upon the comparison the policy server 28 fails to detect the presence of, or a listing of the anti-virus definition version from the particular manufacturer within the accepted credential set 46. In such an example, in one arrangement, the policy server 28 transmits an access instruction 48 to the data communications device 26 that directs the data communications device 26 to restrict or completely reject communications from the user device 22 to the resources 25 within the network 24. Gleichauf at 11:58-67. 124. Gleichauf illustrates in Figure 1"
[New]: "4:50-56. Placement in quarantine causes the network (and more specifically, data communication device 26 acting on directions from the policy server) to “restrict or completely reject communications from the user device 22 to the resources 25 within the network 24.” EX1004, 11:58-67,. FIG. 1. The resources 25-1 through 25-N are other hosts within the computerized data network. EX1004, 9:65-67 (“The network resources 25-1, 25-2, 25-N, in one"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate

"/ Page 68 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate

[Old]: "/ Page 69 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "47"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "that communications from the computerized device 22 pass through data communications device 26. Thus, the data communications device 26, at the direction of the policy server, can prevent the computerized device 22 from communicating with network resources (e.g., 25-1 through 25-N, corresponding to "one or more other hosts associated with the protected network"):"
[New]: "arrangement, are configured as servers that contain content accessible by the user device 22 via the network 24"). Unless the first host is quarantined, for example, the network resources 25-1 through 25-N run the risk of becoming infected through the first host. EX1004, 8:21-28 ("By detecting the real-time security state of the computerized device prior to providing the computerized device with access to the network resources, thereby limiting at-risk or vulnerable computerized devices from accessing the network resources and minimizing the risk that"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "first host attestation of cleanliness trusted computing base other hosts associated with the protected network Gleichauf at Fig. 1 (annotated). 125. Therefore, Gleichauf discloses "when it is determined that the response does not include a valid digitally signed attestation of cleanliness, quarantining the first host, including by preventing the first host from sending data to one or more other hosts associated with the protected network, wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes." h. [1.7] receiving a service request sent by the first host, 126."
[New]: "the network resources receive or transmit malware"). Therefore, in my opinion, restricting or completely rejecting communications from the computerized device to network resources, e.g., resources 25-1 through 25-N, discloses preventing the first host from sending data to one or more other hosts associated with the protected network. 8. [1g] wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes receiving a service request sent by the first host, 109. In my opinion,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 70 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "("first host") attempting to communicate with restricted resources, such as resources 25-1, 25-2, 25-N show in Figure 1: During an example operation of one embodiment, the computerized device, such as a personal computer attempting to communicate with restricted resources in the network, transmits an access request to the data communications device (e.g., a router configured with embodiments of the invention) in an attempt to access the network resources within the network. Gleichauf at 3:50-56. "During operation, the computerized device such as a personal computer transmits packets or a signaling request to the data communications device in an attempt to access the network resources within the network. Gleichauf at 8:1-4. 128. Gleichauf further describes network traffic from the computerized device seeking to access network resources after the device has been placed into quarantine: In step 110, the data communications device 26 applies the access instruction 48 to

Comments from page 28 continued on next page

communications traffic originating from the computerized device 22 and"
[New]: "transmits an “access request” or “signaling request” in an “attempt to access the network resources within the network.” EX1004, 3:50-56, 8:1-4. Such access attempts can occur even after the device has been placed in quarantine. EX1004,"

Font "CIDFont+F4" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "127."
[New]: "110."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Inserted Subject: Text Date: Indeterminate
"how"

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "destined for resources 25 within the network 24. By applying the access instructions 48 to communications from the user device 22, the data communications device 26 allows or denies computerized device 22 access to the network 24 based upon the probability or risk of the user device 22 carrying malware, content, or viruses (e.g., the “vulnerability” of the user device 22). Such application of the access instructions 48 minimizes the ability for a computerized device 22 to introduce an unauthorized application or content into the network 24, thereby infecting or causing malfunction of the network resources 25. Gleichauf at 13:52-65. 129. The request to access network resources is a “service request.” This “service request”"
[New]: "13:52-65. A request to access network resources is a “service request.” The request"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 72 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "48"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "device: The data communications device that detects the presence of the new device initiates a challenge-response sequence to the device that directs a posture agent running on the computerized device to retrieve posture credentials describing the security posture of the computerized device. Gleichauf at 3:60-65. 130. Therefore,"
[New]: "device. EX1004, 3:60-65. Therefore, in my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"a"

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "i. [1.8] serving a quarantine notification page to the first host when the service request comprises a web server request, 131. The combination of Gleichauf and Lewis renders this limitation obvious. 132. First, as explained in [1.6],"
[New]: "9. [1h] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and 111. In my opinion, the combination of Gleichauf and Lewis discloses and/or renders this limitation obvious. 112. As I explained in §IV(F)(7) (limitation 1f),"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "to restricted resources in the network are restricted or rejected. Gleichauf at 11:58-67. Such communications may be limited only to certain destinations, such as a remediation server. See Gleichauf at 14:62-66 ("The access instruction 48 may permit traffic from user device 22 only to certain destination addresses, e.g. IP address of remediation server, and only to certain protocols or ports, e.g. HTTP traffic."). 133. Gleichauf further explains that "HTTP traffic"—which would include a web server request because hyper-text transfer protocol (HTTP) is the protocol used for communications between a web browser running on a device and web servers— is redirected: For example, assume that when comparing the posture credentials 32 of the user device 22 with the accepted credential set, the policy server 28 detects the presence of an anti-

Comments from page 29 continued on next page

virus application associated with the user device 22 and further detects that the anti-virus application is out-of date (e.g., the user device does not have the most recent"
[New]: "are restricted or rejected. EX1004, 11:58-67. Limited communications to certain destinations, such as a remediation server, may be permitted. EX1004, 14:62-66. For example, Gleichauf provides that “a redirect access instruction” is applied to “HTTP traffic.” EX1004, 15:55-67. In my opinion, a POSITA would have known that HTTP traffic includes a web server request because hyper-text transfer protocol (HTTP) is the protocol used for communications between web browsers and web servers. This is evidenced by the fact"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "version of the anti-virus application). Based on such detection, the policy server 28 determines that a redirect access instruction 62 should be applied to HTTP traffic from the user device 22. When the data communications device 26 receives communications traffic from the computerized device 22, the data communications device 26 applies the redirect access instruction 62. Gleichauf at 15:55-67. 134. Gleichauf refers to this redirection technique as a “URL Redirect.” Gleichauf at 15:45. A POSITA would have been familiar with URL redirection, which was a common technique used to forcibly provide an alternative response to a client’s request for a web page. See, e.g., U.S. Patent Pub. No. 2005/0078668 at [0003]. For example, it was common"
[New]: "that Gleichauf refers to the redirection as a “URL Redirect.” EX1004, 15:45. In my opinion, a POSITA would have been familiar with URL redirection, which was a common technique used to forcibly provide an alternative response to a client’s request for a webpage."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 73 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 74 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "49"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "to use URL redirection to direct a user's web browser to a login page like those that were commonly found when accessing the Internet from a public space such as a hotel or airport. See, e.g., U.S. Patent No. 7,568,107 at 4:56-57 ("redirect the users to a Uniform Resource Locator (URL) address of a network login page"); U.S. Patent Pub. No. 2004/0177276 at [0044] ("control device 20 can redirect the HTTP request to an authentication web page hosted by the control device using any HTTP redirection technique known in the art")."
[New]: "EX1017, ¶3. This technique is commonly used to redirect a user's web browser to a login page at a hotel or airport. EX1010, 4:56-57; EX1011, ¶44. 113. Further,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"135. Second,"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a notification message to be displayed to a user when the user's computerized device has been placed in quarantine. The message may also include a link to a remediation server or the IP address of the remediation server: At the same time the policy server determines access, the policy server can transmit one or more notification messages to the posture agent and/or posture plug-ins running on the computer device attempting the gain access to the network. The notifications may include the results of the posture check, remediation actions (if any) and an informational message to be displayed to the user, or written to a local log file. Gleichauf at 4:56-63. The notification message may contain a text message for display to a user or for logging to a log file (e.g., messages to display to the user or a log or URLs of the remediation server 66 and any remediation actions to be performed). For example, in the case that a user device 22 is noncompliant, the message may be displayed to the user or written to a log file indicating that the device has been quarantined and needs to be remediated. The notification message may also include a link to a remediation server or the IP address of the remediation server 66 that a user may click on or an application on"
[New]: ""one or more notification messages" for display to a user "indicating that the device has been quarantined." EX1004, 4:56-63, 21:1-12. The message may include "a link to a remediation server or the IP address of the remediation server." EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the user device 22 may process to remediate the user device 22 automatically. Gleichauf at 21:1-12. 136. Lewis, similar to Gleichauf, also discloses the use of redirection. A client device that is not authorized to use network resources is quarantined. Lewis at"
[New]: "21:1-12. 114. Similar to Gleichauf, Lewis also discloses the use of redirection with a client device that is quarantined. EX1006,"

Comments from page 30 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 75 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the"
[New]: "an"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server (QS). Lewis at 13:7-12. The quarantine server (QS)"
[New]: "server. EX1006, 13:7-12. The quarantine server"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the device with a default web page"
[New]: "a default webpage"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "(i.e., "serving"
[New]: "to the device ("serving"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "The default web page, among other things, informs the user that the device is"
[New]: "EX1006, 13:1215. The webpage informs the user that the device "is"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "taken: With reference to FIG. 4, the QS 201 includes an Internet Information Service (IIS) 417 for providing a default web page. When client 202 is in quarantine and a user opens a web browser on client 202, QS 201 provides a web page to inform the user that the client 202 is in quarantine and corrective action must be taken. Lewis at 10:61-66. At step 1125, QS 201 receives the DNS request and supplies the client 202 with a default web page on QS 201 that requests the user to trust the web site and instructs"
[New]: "taken." EX1006, 10:61-66. 115. In my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the user of the client 202 to install a QA by clicking on a link to the QA. Lewis at 13:12-15. 137. As described in more detail in Section IX.E, a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis, and doing so would have been within the POSITA's skillset. A POSITA would have appreciated the security benefits of initially redirecting HTTP traffic from Gleichauf's computerized device to a quarantine server, rather than a remediation server, as taught by Lewis."

Comments from page 30 continued on next page

[New]: "a POSITA would have been motivated to combine the teachings of Gleichauf, Ovadia, and Lewis and would have had the skill to do so. §IV(E) (motivation to combine). A POSITA would have appreciated the security benefits of redirecting HTTP traffic from Gleichauf's device to a quarantine server (per Lewis), rather than a remediation server."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 76 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "50"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "web page"
[New]: "webpage"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Inserted Subject: Text Date: Indeterminate
"either"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "attempt if, for example, the user is in a hurry to access some protected network resource but does not have time to remediate any identified issues on the device (e.g., checking e-mail shortly before boarding a flight). In the combination, HTTP traffic from a quarantined computerized device, like those described by Gleichauf, would be redirected a quarantine server (QS), as taught by Lewis. The quarantine server (QS) would then serve a web page to the user of the computerized device, as further taught by Lewis. The web page would inform the user that their computerized device is in quarantine, and thus, be a “quarantine notification page.”"
[New]: "attempt, for example, if the user does not desire to have their device configuration changed or if the user is in a hurry and does not have time to remediate the identified issues. In the combination, HTTP traffic from a quarantined device would be redirected to a quarantine server as taught by Lewis. The quarantine server would then serve a webpage to the user, as taught by Lewis. The webpage would inform the user that the device is in quarantine (a “quarantine notification page”). 10.[1i]"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"138. Therefore, the combination of Gleichauf and Lewis discloses “serving a quarantine notification page to the first host when the service request comprises a web server request.” j. [1.9] and"

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 77 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "139. The combination of Gleichauf and Lewis"
[New]: "116. In my opinion, the combination of Gleichauf and Lewis discloses and/or"

Comments from page 31 continued on next page

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "140. First, as discussed in [1.6],"
[New]: "117. As I discussed in §IV(F)(7) (limitation 1f),"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Inserted Subject: Text Date: Indeterminate
"a"

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "quarantined. Gleichauf at 4:50-56. Communications"
[New]: "quarantined and that communications"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004, 4:50-56,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 78 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "51"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "141. Second, Gleichauf discloses a remediation server 66 (i.e., "remediation host")."
[New]: "118. In my opinion, Gleichauf discloses a remediation server, shown in Fig. 1: EX1004, FIG. 1."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "(i.e.,"
[New]: "(a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 5:4-11. 142. Gleichauf's Figure 1 (below) depicts the remediation server:"
[New]: "EX1004, 5:4-11."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "first host trusted computing base attestation of cleanliness remediation host other hosts associated with the protected network Gleichauf at Fig. 1 (annotated). 143. HTTP traffic from the computerized device directed to a remediation server is permitted: The access instruction 48 may permit traffic from user device 22 only to certain destination addresses, e.g. IP address of remediation server, and only to certain protocols or ports, e.g. HTTP traffic. Gleichauf at 14:62-66."
[New]: "HTTP traffic from the device directed to the remediation server is permitted while HTTP"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Comments from page 32 continued on next page

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

[Old]: "144. HTTP traffic from the computerized device directed to a destination other than the remediation server is redirected: For example, assume that when comparing the posture credentials 32 of the user device 22 with the accepted credential set, the policy server 28 detects the presence of an anti-virus application associated with the user device 22 and further detects that the anti-virus application is out-ofdate (e.g., the user device does not have the most recent version of the anti-virus application). Based on such detection, the policy server 28 determines that a redirect access instruction 62 should be applied to HTTP traffic from the user device 22. When the data communications device 26 receives communications traffic from the computerized device 22, the data communications device 26 applies the redirect access instruction 62. Gleichauf at 15:55-67. 145. It would have been obvious to a POSITA that HTTP traffic, such as that from Gleichauf's computerized"

[New]: "traffic directed to other destinations is redirected. EX1004, 14:62-66, 15:55-67. 119. In my opinion, it would have been obvious to a POSITA that HTTP traffic, such as that from Gleichauf's"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate

"/ Page 79 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate

[Old]: "/ Page 80 of 110 Ex.1003 CISCO SYSTEMS, INC."

[New]: "52"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "which, in the case of HTTP traffic, would be a web server. The user's device then"
[New]: "which would be a web server in the case of HTTP traffic. The device"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"network"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the web page"
[New]: "a webpage"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "See U.S. Patent No. 7,568,107 at 5:49-63. 146. Third, Lewis describes a "hijack DNS component 421 for intercepting DNS queries from quarantined clients." Lewis at"
[New]: "These steps were commonly known and ubiquitously employed by web browsers in the prior art. EX1010, 5:49-63. 120. Further, Lewis describes a "hijack DNS component 421 for intercepting DNS queries from quarantined clients." EX1006,"

Font "CIDFont+F4" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "[1.8],"
[New]: "[1h],"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 33 continued on next page

[Old]: "Lewis at"
[New]: "EX1006,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "web page"
[New]: "webpage"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "web page, among other things,"
[New]: "webpage"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Inserted Subject: Text Date: Indeterminate
"in my opinion,"

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Lewis at"
[New]: "EX1006,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Deleted Subject: Text Date: Indeterminate
"(QS)"

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "147. Fourth,"
[New]: "121. Additionally,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "problem that caused the device to be quarantined. See, e.g., Gleichauf at 5:4-13; Lewis at 13:12-17, 14:17 31. It"
[New]: "issues that led to it being quarantined. EX1004, 5:4-13; EX1007, 13:12-17, 14:17-31. In my"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 81 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "53"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Inserted Subject: Text Date: Indeterminate
"opinion, it"

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"well understood and"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a remediation server"
[New]: "servers"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "name, but"
[New]: "name; however,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "be directly"
[New]: "directly be"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Instead, the"
[New]: "The"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"corresponding"

Comments from page 34 continued on next page

Number: 11 Author: Text Inserted Subject: Text Date: Indeterminate
"first"

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "A"
[New]: "In my opinion, a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "can then be"
[New]: "is then"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "an"
[New]: "the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "DNS in networks. 148. Gleichauf describes allowing a computerized"
[New]: "DNS. 122. Gleichauf describes allowing a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 16:14-16. Thus,"
[New]: "EX1004, 16:14-16. Hence,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server—responding to the computerized device's"
[New]: "server (responding to a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server—to"
[New]: "server) to"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 34 continued on next page

[Old]: "To achieve this,"
[New]: "In my opinion,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 21 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "component—like that described in Lewis—to provide correct IP address resolution answers"
[New]: "component, e.g., that of Lewis, to provide the correct IP address resolution"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 22 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "remediation servers."
[New]: "servers involved with device remediation."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 23 Author: Text Deleted Subject: Text Date: Indeterminate
"other"

Number: 24 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Lewis, namely,"
[New]: "Lewis"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 25 Author: Text Inserted Subject: Text Date: Indeterminate
"in my opinion,"

Number: 26 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 82 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "54"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "149. As described in more detail in Section IX.E,"
[New]: "123. In my opinion,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "been within the POSITA's skillset."
[New]: "had the skills to do so. §IV(E) (motivation to combine)."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Lewis, and doing so"
[New]: "Lewis and"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "subsequently"
[New]: "thereafter"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"or servers"

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"protected network. I note that"

Comments from page 35 continued on next page

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "known in the art"
[New]: "well known"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "U.S. Patent No. 6,829,654 at 9:1214. Thus, a POSITA would have understood Gleichauf's statement that the remediation server is identified by its URL, for the remediation"
[New]: "EX1013, 9:12-14. Thus, in my opinion, a POSITA would have found it obvious from Gleichauf's statement—that the remediation server is identified via URL— for the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "computerized device in quarantine"
[New]: "quarantined device"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "computerized device would subsequently"
[New]: "device needing to communicate with the remediation server would"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Inserted Subject: Text Date: Indeterminate
"and understood"

Number: 18 Author: Text Deleted Subject: Text Date: Indeterminate
"remediation"

Number: 19 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 83 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "55"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 35 continued on next page

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"computerized"

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"computerized"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "obtain the remediation information necessary to exit quarantine (for example, obtaining"
[New]: "resolve its security problems and exit quarantine (e.g., obtain"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"150."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Therefore, the combination of Gleichauf and Lewis discloses "in the event the service request comprises a DNS query, providing in response an IP address of a quarantine server configured to serve the quarantine notification page if a host name that is the subject of the DNS query is not associated with a remediation host configured to provide data usable to remedy the insecure condition." k. [1.10] permitting the first host to communicate with the remediation host. 151. Gleichauf discloses this limitation. 152. As explained in [1.6], Gleichauf discloses that a computerized device that is out of compliance with network admission policy is quarantined. Gleichauf at 4:50-56. Communications from a quarantined device to restricted resources in the network are restricted or rejected. Gleichauf at"
[New]: "permitting the first host to communicate with the remediation host. 124. In my opinion, Gleichauf discloses this limitation. 125. As I explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device out of compliance with network admission policy is quarantined and communications from the device to network resources are restricted or rejected. EX1004, 4:50-56,"

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Font-color changed.

Number: 10 Author: Text Inserted Subject: Text Date: Indeterminate
"11.[1j]"

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"153."

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"computerized device directed"

Comments from page 36 continued on next page

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server, however, may be permitted"
[New]: "server is permitted, however"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "host"): The access instruction 48 may permit traffic from user device 22 only to certain destination addresses, e.g. IP address of remediation server, and only to certain protocols or ports, e.g. HTTP traffic. Gleichauf at"
[New]: "host"). EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "154. Therefore, Gleichauf discloses "permitting the first host to communicate with the remediation host." 2. Claim 2 a. [2.0] A method as recited in claim 1, 155. See analysis at [1.0]-[1.10]. b. [2.1]"
[New]: "G. Claim 2 -A method as recited in claim 1,"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "156. Gleichauf discloses this"
[New]: "126. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 127. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 128. In my opinion, Gleichauf renders obvious this additional"

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Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 84 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "56"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "157. First, as explained in [1.1],"
[New]: "129. As I explained in §IV(F)(2) (limitation 1a),"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"22"

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"computerized"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "158. Second, the computerized device's posture response includes posture credentials. The posture credentials contain"
[New]: "130. The posture credentials include"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "executed." Gleichauf at 3:36-49. Gleichauf explains that a computerized"
[New]: "executed," and a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 37 continued on next page

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 22:54-56. Gleichauf also contemplates that the"
[New]: "EX1004, 3:36-49, 22:54-56. The"

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Font-color changed.

Number: 12 Author: Text Inserted Subject: Text Date: Indeterminate
"and"

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "indicates that a computerized"
[New]: "is another indication that the"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 15 Author: Text Deleted Subject: Text Date: Indeterminate
"installed"

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "As a result, a"
[New]: "In my opinion, a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 17 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 18 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 85 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 19 Author: Text Deleted Subject: Text Date: Indeterminate
"checking"

Number: 20 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "159."
[New]: "131."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 21 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 8:52-56. A POSITA would have understood that "scanning" the device would determine whether the device can, in fact, resist the transmission of content, such as spam. A POSITA would also have known that the term spam refers to"
[New]: "EX1004, 8:52-56. In my opinion, a POSITA would have understood that spam is a type of "malicious data" because it is unsolicited. A POSITA would also have understood that the disclosed device would be "scanned" to determine whether the device can resist reception or transmission of spam. Furthermore, malicious data is known in the art to generate "anomalous network traffic." Thus, in my opinion,"

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Comments from page 37 continued on next page

Number: 22 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 86 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "57"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "form of "malicious data" because spam is unsolicited by the user of the computer and can result in the computer becoming infected with a virus or malware. 160. The posture credentials further contain information about, for example, the presence (or absence) of an anti-virus software, currency of an anti-virus definition, and the status of a firewall application. Gleichauf at 3:36-49; see also Gleichauf at 8:62-65 (reporting on the "status of intrusion prevention (e.g., firewall) applications"). A POSITA would have understood that an anti-virus software or firewall application is a type of "security software" because it can detect and prevent virus and other security infestations on the device. Reviewing the posture credentials for information about the presence or absence of anti-virus software or firewall application involves "determining whether a security software is installed" on the computerized device."
[New]: "detection of spam is a detection of anomalous network activity, and therefore is an identification of an insecure condition, thereby meeting the claim language. 132. The posture credentials further include information about the presence or absence of anti-virus software, whether the anti-virus software is up-to-date, and the status of a firewall application. EX1004, 3:36-49, 8:62-65. In my opinion, a POSITA would have understood that an anti-virus and intrusion prevent software (e.g., a firewall) are types of "security software" because they can detect and prevent virus and other security infestations. Reviewing the posture credentials for information about the presence or absence of anti-virus software or firewall application involves "determining whether a security software is installed." H."

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Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "161. Finally, I note that since claim limitation [2.1] recites that detecting an insecure condition needs to include "at least one of" the recited acts, any one of Gleichauf's teachings discussed above is sufficient to disclose this limitation. 162. Therefore, Gleichauf discloses "wherein detecting an insecure condition further includes at least one of the following: scanning for a vulnerability, scanning for malicious data, determining whether a security software is installed, and detecting anomalous network traffic." 3. Claim 3 a. [3.0] A method as recited in claim 1, 163. See analysis at [1.0]-[1.10]. b. [3.1] wherein detecting an insecure condition includes determining that the first host should be quarantined until an update to an operating system has been installed. 164. Gleichauf renders this limitation obvious. 165. First, as explained in [1.1], Gleichauf teaches that a policy server detects an insecure condition in the computerized device 22"
[New]: "Claim 3 – A method as recited in claim 1, wherein detecting an insecure condition includes determining that the first host should be quarantined until an update to an operating system has been installed. 133. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 134. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 135. In my opinion, Gleichauf renders this additional limitation obvious. 136. As I explained in §IV(F)(2) (limitation 1a), Gleichauf teaches that a policy server detects an insecure condition in the computerized device"

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Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 87 of 110 Ex.1003 CISCO SYSTEMS, INC."

Comments from page 38 continued on next page

[New]: "58"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 39

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the computerized device's posture credentials. Gleichauf at"
[New]: "posture credentials. EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "166. Second, the computerized device's posture response includes posture credentials gathered by the posture plug-ins."
[New]: "137."

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Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "computer"
[New]: "computing"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "system"): Posture credentials collected in real time from the posture plug-ins by the posture agent can identify critical security information such as what particular virus software and virus definition versions are installed within the computer system, when was the last time a local antivirus scan was executed, what operating system patches are installed within the computer system, what particular types and versions of software applications are configured and active within the computer system, and so forth. By providing a security posture based challenge-response mechanism for network admission control, embodiments of this invention are able to dramatically reduce the opportunities for injection of malware into a network. Gleichauf at 3:36-49. 167. Gleichauf discloses that posture credentials can identify whether the device's operating system makes the device "vulnerable": Also assume that a scanning application periodically scans computerized devices connected to LAN (e.g., once a day) for the presence of known vulnerabilities in the device operating system, resident applications, associated security programs, and their respective configurations. Gleichauf at 1:65-2:3."
[New]: "system"). EX1004, 3:36-49. Gleichauf explains, and in my opinion a"

Comments from page 39 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPS-ItalicMT".
Font-color changed.

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 88 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "168. A computerized device will be quarantined if it is out of compliance with the network admission policy. Gleichauf at 4:50-56. A POSITA would have understood that missing operating system patches can make a device vulnerable to various network threats and, as a result, can render the device out of compliance with network admission policy, consistent with Gleichauf's teachings. 169. Once the device is quarantined, the policy server can transmit a notification message to the device "indicating that the device has been quarantined and needs to be remediated." Gleichauf at 21:5-8. The notification message may also "include a link to a remediation server or the IP address of the remediation server 66 that a user may click on or an application on the user device 22 may process to remediate the user device 22 automatically." Gleichauf at 21:8-12. The remediation server "is configured to upgrade or provide up-to-date patches to the operating system or applications, such as anti-virus applications, associated with the computerized device." Gleichauf at 5:8-11. The computerized device "should be admitted into the original network if the remediation process was successful." Gleichauf at 5:11-13. A POSITA would have found it obvious from Gleichauf's discussion of a device with outdated operating systems being placed into quarantine and of providing operating system updates, to quarantine a device "until an update to an operating system has been installed." This is consistent with Gleichauf's teaching"
[New]: "POSITA would have known, that an outdated operating system may make the device "vulnerable" to network threats. EX1004, 1:65-2:3, 4:50-56. When the device is quarantined, the policy server can transmit a notification message to the device that may "include a link to a remediation server" where the remediation server "is configured to upgrade or provide up-to-date patches to the operating system." EX1004, 21:8-12, 5:8-11. Once remediated, the device "should be admitted" into the network. EX1004, 5:11-13. In my opinion, a POSITA would have understood (and found it obvious) from Gleichauf's description of quarantining devices with outdated operating systems and of providing operating system updates, to quarantine a device "until an update to an operating system has been installed." I. Claim 4 -A method as recited in claim 1, wherein detecting an insecure condition includes configuring an operating system to quarantine the first host upon initial startup after installation of the operating system. 138. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious."

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Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 89 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "59"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 40

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "that the computerized device will be admitted into the original network, out of its quarantine, if the remediation process was successful. 170. Therefore, Gleichauf discloses "wherein detecting an insecure condition includes determining that the first host should be quarantined until an update to an operating system has been installed." 4. Claim 5 a. [5.0] A method as recited in claim 1, 171. See analysis at [1.0]-[1.10]. b. [5.1] wherein permitting the first host to communicate with the remediation host includes: 172. As discussed in [1.10], Gleichauf discloses that communications from a quarantined computerized device are restricted or rejected. Gleichauf at 11:58-67. HTTP traffic from the device to a remediation server, however, is permitted. Gleichauf at 14:62-66. Thus, Gleichauf discloses this limitation for the same reasons discussed in [1.10]. c. [5.2]"
[New]: "139. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 140. In my opinion, Gleichauf renders this additional limitation obvious. Gleichauf discloses a posture plugin that executes on the device and indicates a security posture. EX1004, 8:45-52. In one embodiment, the posture plugin is maintained by the operating system of the computerized device. EX1004, 8:65-67, 9:21-24. Gleichauf's policy server receives the security posture information from the posture plugin and uses these credentials to determine whether to quarantine the computerized device. EX1004, 9:29-34. A POSITA would have understood and found obvious that because the operating system has access to the posture information generated by the posture plugin, the operating system can quarantine the device upon startup, such in those situations where the computerized device has installed a new version of the operating system, but has not verified the new version with the policy server. J. Claim 5 141. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 1. [5pre] A method as recited in claim 1, wherein permitting the first host to communicate with the remediation host includes: 142. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. §IV(F) (claim 1)."

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Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 90 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "60"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
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Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Inserted Subject: Text Date: Indeterminate
"2. [5a]"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "173. Gleichauf discloses this limitation. 174. A quarantined computerized device can receive"
[New]: "143. In my opinion, Gleichauf discloses and/or renders obvious this limitation. 144. Gleichauf's quarantined device receives"

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Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "remediated." Gleichauf at 21:5-8. The notification message may also "include a"
[New]: "remediated" and including "a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "server or the IP address of the remediation server 66 that a user may click on or an application on the user device 22 may process to remediate the user device 22 automatically." Gleichauf at 21:8-12. The computerized device responds to the notification message by "activat[ing] a link, associated with the notification message, to direct the computerized device 22 to the remediation server 66." Gleichauf at 21:20-23. 175. A POSITA would have understood that activating the link to direct the computerized device to the remediation server includes an "outbound communication" to the remediation server. In fact, Gleichauf's data communications device 26 is already "configured to detect attempted connections to the network 24 by the user device 22." Gleichauf at 10:6-11, 12:57-67. Since the remediation server is not a part of the computerized device (the "first host"), directing the computerized device to the remediation server would be an "outbound communication from the first host." 176. A POSITA would have further understood that the network "detects" the outbound communication from the first host. The specific access rights of the quarantined device to network resources is administered by the data communications device 26, based on admission instructions 48 provided by the policy server. Gleichauf at 22:38-47. The data communications device 26 receives (i.e., "detects") communications from the quarantined device and then either restricts or rejects them,"
[New]: "server." EX1004, 21:5-12. The device responds to the message by activating the link and being directed to the remediation server. EX1004, 21:20-23. 145. In my opinion, a POSITA would have understood that the device activating the link directing it to the remediation server includes an "outbound communication from the first host" to the remediation server. Gleichauf explains that data communications device 26 "is configured to detect attempted connections to the network 24 by the user device." EX1004, 10:6-11, 12:57-67. A POSITA would have understood that directing the device to the remediation server—a server that is not part of the device—would be an "outbound communication from the first host." In my opinion, a POSITA would also have understood that the data communications device 26 would "detect[]" an outbound communication when it is applying access"

Comments from page 41 continued on next page

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Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "depending on the instructions from the policy server. Gleichauf at"
[New]: "instructions that govern the device's permitted level of network access. EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 91 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "61"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "177. Therefore, Gleichauf discloses "detecting an outbound communication from the first host." d. [5.3] forwarding the outbound communication if it is addressed to the remediation host. 178. Gleichauf discloses this limitation. 179. As discussed in [5.2], Gleichauf discloses that the data communications device 26 receives communications from a quarantined device and then either restricts or rejects them, depending on instructions from the policy server. Gleichauf at 22:38-47. HTTP traffic from the quarantined device to a remediation server are generally permitted. Gleichauf at 14:62-66. A POSITA would have understood that permitting HTTP traffic from a device to a remediation server, within Gleichauf's context, would entail the data communications device 26 "forwarding the outbound communication" from the device "to the remediation host." 180. Therefore, Gleichauf discloses "forwarding the outbound communication if it is addressed to the remediation host." 5. Claim 6 a. [6.0] A method as recited in claim 1, 181. See analysis at [1.0]-[1.10]."
[New]: "3. [5b] forwarding the outbound communication if it is addressed to the remediation host. 146. In my opinion, Gleichauf discloses and/or renders this limitation obvious. 147. Gleichauf discloses that communications from a quarantined device are restricted or rejected. §IV(J)(2) (limitation 5a); EX1004, 22:38-47. A quarantined device is generally permitted to engage in HTTP communication with a remediation server. EX1004, 14:62-66. In my opinion, a POSITA would have understood that permitting HTTP traffic from a device to a remediation server, per Gleichauf, would entail the data communications device 26 "forwarding the outbound communication if it is addressed to the remediation host." K. Claim 6 148. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 1. [6pre] A method as recited in claim 1,"

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Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"b. [6.1]"

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 92 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "182. As discussed in [1.6], Gleichauf discloses that communications from a quarantined computerized device to network resources are either restricted or rejected. Gleichauf at 11:58-67. Thus, Gleichauf discloses this limitation for the same reasons discussed in [1.6]. c. [6.2] detecting an outbound communication from the first host; and 183. As discussed in [5.2], Gleichauf discloses that the data communications device 26 detects outbound communications from the computerized device to the remediation server. Gleichauf at 21:20-23, 22:38-47. Thus, Gleichauf discloses this limitation for the same reasons discussed in [5.2]. d. [6.3]"
[New]: "149. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 2. [6a] detecting an outbound communication from the first host; and 150. In my opinion, Gleichauf discloses and/or renders obvious this limitation. §IV(J)(2) (limitation 5a)."

Comments from page 42 continued on next page

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Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 93 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "62"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Inserted Subject: Text Date: Indeterminate
"3. [6b]"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "184. The combination of Gleichauf and Lewis renders this limitation obvious. 185. First, communications from a quarantined device to restricted resources in the network are restricted or rejected. Gleichauf at 11:58-67. Indeed, communications may only be permitted "only to certain destination addresses, e.g. IP address of remediation server, and only to certain protocols or ports, e.g. HTTP traffic." Gleichauf at 14:62-66. As such,"
[New]: "151. In my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation. 152. Gleichauf restricts or rejects communications from a quarantined device. EX1004, 11:58-67. Gleichauf explains that communications are permitted "only to certain destination addresses, e.g., IP address of remediation server, and only to certain protocols or ports, e.g., HTTP traffic." EX1004, 14:62-66. In my opinion,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
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Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "HTTP, an "approved service." 186. Second, as discussed in [1.9], Gleichauf discloses that HTTP traffic ("approved service") from the computerized device directed"
[New]: "HTTP (an "approved service"). 153. As discussed in §IV(F)(10) (limitation 1i), Gleichauf discloses that HTTP traffic (an "approved service") from the device"

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Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 14:62-66. HTTP traffic ("approved service")"
[New]: "EX1004, 14:62-66. However, HTTP traffic"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "are"
[New]: "will be"

Comments from page 43 continued on next page

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Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

[Old]: "Gleichauf at 15:55-16:6. It would have been obvious to a POSITA, in view of Lewis's teachings,"
[New]: "EX1004, 15:55-16:6. As I discussed above at §§IV(F)(9)-(10) (limitations 1h-1i), in my opinion, it would have been obvious to a POSITA, in view of Lewis,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate

"outbound"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate

[Old]: "/ Page 94 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "63"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Lewis at 11:15-17, 14:22-23; see supra [1.8]-[1.9]. 187. Therefore, the combination of Gleichauf and Lewis discloses "redirecting the outbound communication to a quarantine server if it comprises a request for an approved service and is not addressed to a remediation host." 6. Claim 7 a. [7.0] A method as recited in claim 1, 188. See analysis at [1.0]-[1.10]."
[New]: "EX1006, 11:15-17, 14:22-23. L. Claim 7 – A method as recited in claim 1,"

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Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"b. [7.1]"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "189. Gleichauf renders this limitation obvious. 190. As explained in [1.6], Gleichauf discloses placing into quarantine a computerized device that is out of compliance with network admission policy. Gleichauf at 4:50-56. Communications from a quarantined device to restricted resources in the network are restricted or rejected, unless they are directed to a remediation server. Gleichauf at 11:58-67, 14:62-66. In other words, Gleichauf discloses that outbound traffic is not permitted from the quarantined device to a destination that is not the remediation server: The access instruction 48 may permit traffic from user device 22 only to certain destination addresses, e.g. IP address of remediation server, and only to certain protocols or ports, e.g. HTTP traffic. Gleichauf at 14:62-66. 191. It would have been obvious to a POSITA that because a quarantined device is not permitted to transmit a request for information to a non-remediation server, the quarantined device is effectively prevented from receiving information that it would have received in response to the request. This is because such a request for information is blocked from ever reaching the non-remediation server, and hence"
[New]: "154. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 155. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 156. As explained in §IV(F)(7) (limitation 1f), Gleichauf discloses that a computerized device that is out of compliance with network admission policy is quarantined. EX1004, 4:50-56. Outbound communications from a quarantined device are not permitted to destinations that are not the remediation server. EX1004, 11:58-67, 14:62-66. From this disclosure, it would have been obvious and well understood to a POSITA that inbound communications would be similarly subject to access restrictions. If outbound requests from the quarantined device are not permitted to non-remediation destinations, the quarantined device is effectively prevented from receiving information that it would have received in response to such requests. Since Gleichauf teaches that a device in quarantine may only communicate with remediation-related servers,"

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Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the non-remediation server never sends any response. Thus, it would have been obvious to a POSITA that, by preventing a quarantined device from sending traffic (such as an HTTP GET request) to non-remediation servers, Gleichauf's system also"

Comments from page 44 continued on next page

[New]: "it would have been obvious and understood to a POSITA that Gleichauf's system"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 95 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "64"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "remediation. 192. To the extent that this claim is interpreted as requiring blocking all nonremediation-related traffic from reaching the quarantined device, such a restriction would have been obvious to a POSITA. Gleichauf describes an example of a quarantine location as an "isolated… network segment." Gleichauf at 4:25-26. Gleichauf also explains that its quarantine is used to "minimiz[e] the risk that the network resources receive or transmit malware" from or to "vulnerable computerized devices." Gleichauf at Abstract. Consistent with the concern that a device in quarantine would receive undesirable transmissions such as malware, Gleichauf's security posture (used to determine whether to quarantine, see supra [1.3]-[1.5]) includes information about a device's "ability to resist reception or transmission of malware (e.g., viruses), content (spam and/or data theft)…." Gleichauf at 8:52-55. Because Gleichauf describes the concern that a vulnerable device might receive malware from the network, it would have been obvious to a POSITA that a device placed into"
[New]: "remediation ("preventing … from receiving via the protected network data not related to remediation of the insecure condition"). 157. To the extent that this claim is interpreted as requiring the blocking of all non-remediation-related traffic from reaching the device, in my opinion, this restriction would have been obvious to a POSITA. Gleichauf is concerned with limiting or preventing the risk that network resources "receive or transmit malware" from or to "vulnerable computerized devices." EX1004, Abstract, 8:5255. That is why vulnerable devices are quarantined in an "isolated … network segment" until the vulnerability has been remedied so that the device cannot receive such malware. EX1004, 4:25-26. It would thus have been obvious and understood to a POSITA that a device in"

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Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "A"
[New]: "In my opinion, a"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"unauthorized"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "device in quarantine because Gleichauf explains that data communications device 26 is responsible for allowing or preventing "communications traffic between the user device 22 and the network resources 25." Gleichauf at 14:3-7, 14:20-25. 193. Therefore, Gleichauf renders obvious "wherein"
[New]: "quarantined device because Gleichauf describes allowing or preventing communications "between" the device and the network. EX1004, 14:3-7, 14:20-25. 158. Further, to the extent that Gleichauf does not explicitly disclose restricting inbound communications to quarantined devices, Lewis discloses that"

Comments from page 45 continued on next page

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Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 96 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "65"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 46

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "quarantining the first host further includes preventing the first host from receiving via the protected network data not related to remediation of the insecure condition." 7. Claim 8 a. [8.0] A method as recited in claim 1, 194. See analysis at [1.0]-[1.10]. b. [8.1] performed at an Internet service provider. 195. Gleichauf discloses this limitation. 196. The"
[New]: "the component responsible for quarantining the device (i.e., local enforcement component 314) also restricts inbound communication to the device. EX1006, 9:60-66 ("local enforcement component 314 is responsible for quarantining (i.e. restricting outside access to the local machine) when client 202 is in a quarantine state" and "is used to isolate the local client 202 from other machines" which "allows the client 202 to protect itself from being attacked if it finds itself insecure but not infected"). In my opinion, a POSITA would have found it obvious to modify Gleichauf's system to implement Lewis's limitations on inbound communications to provide its computerized devices with a more robust security protocol so that compromised computerized devices can protect themselves from further attacks. Such a modification would have involved the application of a known technique (restricting inbound communication) to improve similar devices (Gleichauf's computerized device) in the same way (preventing a computerized device from being attacked from other machines on the LAN). M. Claim 8 -A method as recited in claim 1, performed at an Internet service provider. 159. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 160. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1)."

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Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 97 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "66"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 47

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "the network. Gleichauf at 3:50-56. The network is “a computer network, such as"
[New]: "the network, where the network is “a computer network, such"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"161. Gleichauf’s"

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 9:57-64. The network resources 25 are “configured as servers"
[New]: "EX1005, 3:50-56, 9:57-64Network resources 25 are “servers"

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Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "device 22 via network 24.” Gleichauf at"
[New]: "device.” EX1005,"

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Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "197. A"
[New]: "162. In my opinion, a"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 10 Author: Text Deleted Subject: Text Date: Indeterminate
"26 and the"

Comments from page 47 continued on next page

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"28"

Number: 12 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "they selectively provide access to network 24, which Gleichauf suggests being"
[New]: "the combination selectively provides access to the network, which Gleichauf explains is"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "reviews the computerized device's posture credentials. Gleichauf at 10:30-33, 11:45-58. If the device is found to be out of compliance, it is quarantined by the data communications device in response to instructions from the policy server. Gleichauf at 4:50-56, 11:58-67. While quarantined, the computerized device is unable to communicate with network resources 25. Gleichauf at 11:58-67, 14:62-66. A POSITA would have therefore appreciated that the data communications device and policy server determine whether the computerized device can access network resources on the network, which is the Internet. The"
[New]: "determines whether to quarantine the device (by means of instructions to the data communications device) and protect the network. EX1004, 4:50-56, 10:30-33, 11:45-67. While in quarantine, the device is unable to communicate with network resources. EX1004, 11:58-67,14:62-66. A POSITA would have therefore appreciated that the data communications device and policy server determine whether the device can access resources on the network, e.g., on the Internet. Thus, the"

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Font-color changed.

Number: 14 Author: Text Deleted Subject: Text Date: Indeterminate
"computerized"

Number: 15 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "198. Therefore, Gleichauf discloses "performed at an"
[New]: "Moreover, in my opinion, it would have"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 16 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 98 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "67"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Internet service provider." 8. Claim 9 a. [9.0] A method as recited in claim 1, 199. See analysis at [1.0]-[1.10]."
[New]: "been obvious for the data communications device and policy server to be owned by a company that provides Internet service. N. Claim 9 -A method as recited in claim 1,"

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Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"b. [9.1]"

Number: 7 Author: Text Inserted Subject: Text Date: Indeterminate
"163. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 164."

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"200."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "discussed in [3.1], the computerized device's posture response includes posture credentials gathered by the posture plug-ins. The posture credentials contain information about the presence of "operating system patches [that] are installed within the computer system." Gleichauf at 3:36-49, 8:65-9:1. Thus, Gleichauf discloses this limitation for the same reasons discussed in [3.1]. 9. Claim 10 a. [10.0] A method as recited in claim 1, 201. See analysis at [1.0]-[1.10]. b. [10.1] wherein determining that the response does not include a valid digitally signed attestation of cleanliness includes determining that the software component on the first host is not sufficiently updated. 202. As discussed in [1.4], the computerized device's posture response includes posture credentials. The posture credentials contain information about the "particular virus software and virus definition versions" installed on the device. Gleichauf at 3:36-49, 8:56-9:5. If the current anti-virus definition is"
[New]: "I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 165. In my opinion, Gleichauf discloses this limitation for at least the reasons provided above. §IV(H) (claim 3). O. Claim 10 -A method as recited in claim 1, wherein determining that the response does not include a valid digitally signed attestation of cleanliness includes determining that the software component on the first host is not sufficiently updated. 166. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 167. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 168. Gleichauf further discloses that its computerized device's posture response includes posture credentials. The posture credentials contain information about the "particular virus software and virus definition versions" installed on the device. EX1004, 3:36-49, 8:56-9:5. If updated software or current virus"

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Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 48 continued on next page

[Old]: "/ Page 99 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "68"

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Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "not present, communications from the computerized device"
[New]: "definitions are not present, the device is quarantined and communications from it"

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Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "showing that the response is deemed not to"
[New]: "because of a determination that the response does not"

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Font-color changed.

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 11:58-67. Thus, the combination of"
[New]: "EX1004, 11:58-67. P."

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Font-color changed.

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf and Ovadia renders this limitation obvious for the same reasons discussed in [1.4]. 10. Claim 11 a. [11.0] A method as recited in claim 1, 203. See analysis at [1.0]-[1.10]. b. [11.1]"
[New]: "Claim 11 -A method as recited in claim 1,"

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Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "204. Gleichauf discloses this limitation. 205. The computerized device's posture response includes posture credentials. The posture credentials contain information about the "particular virus software and virus definition versions" installed on the device. Gleichauf at 3:36-49, 8:56-9:5. If a review of the posture credentials "fails to detect the presence of an antivirus application (e.g., or an up-to-date anti-virus application or virus definition file)," the device will be quarantined. Gleichauf at 14:16-34. A POSITA would have understood that failure to detect an up-to-

Comments from page 49 continued on next page

date anti-virus application or definition file indicates that the existing anti-virus application or definition file on the computerized device “is not sufficiently recent.”"
[New]: "169. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 170. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] method as recited in claim 1. See §IV(F) (claim 1). 171. As I described above in limitation 1d, Gleichauf’s posture credentials received by the policy server contain information such as “what particular virus software and virus definition versions are installed,” “when was the last time a local antivirus scan was executed,” “what operating system patches are installed.” §IV(F)(5) (limitation 1d). To the extent that the patches inquiry is limited to the operating system, in my opinion, a POSITA would have understood and found obvious that the same inquiry related to"

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Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "associated with the software component on the first host is not sufficiently recent.” 11."
[New]: "could be made with respect to the virus software installed on the host device."

Font "CIDFont+F4" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Deleted Subject: Text Date: Indeterminate
"Therefore, Gleichauf discloses “wherein determining that the software component on the first host is not sufficiently updated includes determining that a"

Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"206."

Number: 13 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 100 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "69"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Inserted Subject: Text Date: Indeterminate
"Q."

Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a. [12.0] A system for protecting a network, comprising: 207. To the extent that the preamble is limiting, Gleichauf discloses it."
[New]: "172. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 1. [12pre] A system for protecting a network, comprising: 173. In my opinion, Gleichauf discloses this limitation."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 9 Author: Text Deleted Subject: Text Date: Indeterminate
"from"

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "outbreak: The policy server receives the challenge responses and, based upon an analysis of the posture credentials of the computerized device, determines a security state of the computerized device and either provides some level of or denies the computerized device access to the network resources based upon the analysis. The data communications system, therefore, detects the real-time security state of the computerized device prior to providing the computerized device with access to the network resources, thereby limiting at-risk or vulnerable computerized devices from accessing the network resources and minimizing the risk that the network"
[New]: "outbreak. EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 50 continued on next page

[Old]: "resources receive malware. In effect, this invention helps “dampen” the propagation of worms and viruses, and related side effects, by preventing systems capable of participating in such an outbreak from gaining access to the network. Gleichauf at 8:16-31. 209. Therefore, Gleichauf discloses “[a] system for protecting a network,” as recited in the preamble. b. [12.1] a processor configured to: 210. Gleichauf discloses this limitation. 211. As discussed in [1.0]-[1.10], Gleichauf’s policy server protect the network. The policy server “includes a controller 209 formed of a memory 210 and a processor 212.” Gleichauf at 25:44-46."
[New]: "8:16-31. 2. [12a] a processor configured to: 175. In my opinion, Gleichauf discloses this limitation. 176. Gleichauf’s policy server operates to protect the network. §IV(F)(1) (2) (limitations 1pre-1a). The policy server “includes a controller 209 formed of a memory 210 and a processor 212.” EX1004, 25:44-46. The processor 212 performs operations, such as those recited in limitations 12b-12l and claims 13-18 below, associated with protecting the network by reducing the risk of the network becoming infected by executing application 246 to perform the limitations described below. EX1004, 27:16-21 (“the credential analysis process 248 represents one or more portions of the logic instructions of the credential analysis"

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Number: 12 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 101 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 13 Author: Text Inserted Subject: Text Date: Indeterminate
"70"

Page: 51

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705 Declaration of Clay Shields, Ph.D. U.S. Patent No."

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "212. Therefore, Gleichauf discloses “a processor configured to.” c. [12.2] detect an insecure condition on a first host that has connected or is attempting to connect to a protected network, wherein detecting the insecure condition includes 213. See analysis at [1.1]. d. [12.3] contacting a trusted computing base associated with a trusted platform module within the first host, 214. See analysis at [1.2]."
[New]: "application 246 while being executed or otherwise performed on, by, or in the processor 212 within the policy server 28”). 3. [12b] detect an insecure condition on a first host that has connected or is attempting to connect to a protected network, 177. In my opinion, Gleichauf discloses this limitation. §IV(F)(2) (limitation 1a). 4. [12c] wherein detecting the insecure condition includes contacting a trusted computing base associated with a trusted platform module within the first host, 178. In my opinion, the Gleichauf-Ovadia combination discloses this limitation. §IV(F)(3) (limitation 1b). 5. [12d] [wherein detecting the insecure condition includes ...]"

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Font-color changed.

Number: 3 Author: Text Deleted Subject: Text Date: Indeterminate
"e. [12.4]"

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "215. See analysis at [1.3]. f. [12.5] determining whether the response includes a valid digitally signed attestation of cleanliness, 216. See analysis at [1.4]. g. [12.6]"
[New]: "179. In my opinion, Gleichauf discloses this limitation. §IV(F)(4) (limitation 1c). 6. [12e] [wherein detecting the insecure condition includes ...] determining whether the response includes a valid digitally signed attestation of cleanliness, 180. In my opinion, the Gleichauf-Ovadia combination discloses this limitation. §IV(F)(5) (limitation 1d). 7. [12f]"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 102 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "71"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 52

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "217. See analysis at [1.5]. h. [12.7]"
[New]: "181. In my opinion, Gleichauf discloses this limitation. §IV(F)(6) (limitation 1e). 8. [12g]"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Inserted Subject: Text Date: Indeterminate
"182. In my opinion, Gleichauf discloses this limitation. §IV(F)(7) (limitation 1f). 9. [12h]"

Number: 7 Author: Text Deleted Subject: Text Date: Indeterminate
"218. See analysis at [1.6]. i. [12.8]"

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "219. See analysis at [1.7]. j. [12.9] serving a quarantine notification page to the first host when the service request comprises a web server request, 220. See analysis at [1.8]."
[New]: "183. In my opinion, Gleichauf discloses this limitation. §IV(F)(8) (limitation 1g). 10.[12i] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes...] serving a quarantine notification page to the first host when the service request comprises a web server request,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "k. [12.10] and"
[New]: "and 184. In my opinion, the Gleichauf-Ovadia-Lewis combination discloses this limitation. §IV(F)(9) (limitation 1h). 11.[12j]"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 103 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "72"

Comments from page 52 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
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Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "221. See analysis at [1.9]. l. [12.11] permit the first host to communicate with the remediation host; and 222. See analysis at [1.10]. m. [12.12] a memory coupled to the processor and configured to provide instructions to the processor. 223."
[New]: "185. In my opinion, the Gleichauf-Ovadia-Lewis combination discloses this limitation. §IV(F)(10) (limitation 1i). 12.[12k] permit the first host to communicate with the remediation host; and 186. In my opinion, Gleichauf discloses this limitation. §IV(F)(11) (limitation 1j). 13.[12l] a memory coupled to the processor and configured to provide instructions to the processor. 187. In my opinion,"

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Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"As discussed in [12.1], Gleichauf's policy server operates to protect the network."

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at"
[New]: "EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "225."
[New]: "189."

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "246 configured according to embodiments of the invention. In other words, the credential analysis application 246 represents software code, instructions and/or data ..."
[New]: "246" where "application 246 represents software code, instructions and/or data ..."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Comments from page 53 continued on next page

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "or storage or within any computer readable medium accessible to the policy server 28." Gleichauf at 26:66-27:8. 226. Therefore, Gleichauf discloses "a processor configured to." 12. Claim 13 a. [13.0] A system as recited in claim 12, 227. See analysis at [12.0]-[12.10]. b. [13.1]"
[New]: "... accessible to the policy server 28." EX1004, 26:6627:8. R. Claim 13 -A system as recited in claim 12,"

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Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 104 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "73"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Page: 54

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "228. See analysis at [2.1]. 13. Claim 15 a. [15.0] A system as recited in claim 12, 229. See analysis at [12.0]-[12.10]. b. [15.1]"
[New]: "190. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 191. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] system as recited in claim 12. See §IV(Q) (claim 12). 192. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. See §IV(G) (claim 2). S. Claim 14 -A system as recited in claim 12, wherein the processor is configured to detect an insecure condition at least in part by determining that an initial startup after installation of an operating system is being performed. 193. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 194. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] system as recited in claim 12. See §IV(Q) (claim 12). 195. Furthermore, in my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation. See §IV(I) (claim 4). T. Claim 15 -A system as recited in claim 12,"

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Number: 6 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 105 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "74"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
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Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "230. See analysis at [7.1]. 14. Claim 16 a. [16.0] A system as recited in claim 12, 231. See analysis at [12.0]-[12.10]."
[New]: "196. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 197. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] system as recited in claim 12. See §IV(P) (claim 12). 198. Furthermore, in my opinion, the combination of Gleichauf and Lewis discloses and/or renders obvious this limitation. See §IV(K) (claim 7). U. Claim 16 -A system as recited in claim 12,"

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Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"b. [16.1]"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "232. See analysis at [9.1]. 15."
[New]: "199. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 200. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] system as recited in claim 12. See §IV(Q) (claim 12). 201. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. See §IV(N) (claim 9)."

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Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"233. See analysis at [12.0]-[12.10]. b. [17.1]"

Number: 9 Author: Text Inserted Subject: Text Date: Indeterminate
"V."

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "a. [17.0] A"
[New]: "-A"

Font "CIDFont+F2" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 11 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 55 continued on next page

[Old]: "234."
[New]: "202. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious."

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Font-color changed.

Number: 12 Author: Text Inserted Subject: Text Date: Indeterminate
"75"

Page: 56

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705 Declaration of Clay Shields, Ph.D. U.S. Patent No."

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "See analysis at [10.1]. 16. Claim 18 a. [18.0] A system as recited in claim 17, 235. See analysis at [12.0]-[12.10] and [17.0]-[17.1]. b. [18.1] wherein determining that the software component on the first host is not sufficiently updated includes determining that a patch level associated with the software component on the first host is not sufficiently recent. 236. See analysis at [11.1]. 17. Claim 19 a. [19.0] A computer program product for protecting a network, the computer program product being embodied in a non-transitory computer readable medium and comprising computer instructions for: 237. To the extent that the preamble is limiting, Gleichauf discloses it."
[New]: "203. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] system as recited in claim 12. See §IV(Q) (claim 12). 204. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. See §IV(O) (claim 10). W. Claim 18 -A system as recited in claim 17, wherein determining that the software component on the first host is not sufficiently updated includes determining that a patch level associated with the software component on the first host is not sufficiently recent. 205. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 206. As I explained above, the combination of Gleichauf, Ovadia, and Lewis discloses [a] system as recited in claim 17. See §IV(V) (claim 17). 207. Furthermore, in my opinion, Gleichauf discloses and/or renders obvious this limitation. See §IV(P) (claim 11). X. Claim 19 208. In my opinion, the combination of Gleichauf, Ovadia, and Lewis renders this claim obvious. 1. [19pre] A computer program product for protecting a network, the computer program product being embodied in a non-transitory computer readable medium and comprising computer instructions for: 209. In my opinion, Gleichauf discloses this limitation. 210."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
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Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "238. Gleichauf teaches"
[New]: "Gleichauf describes how"

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Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 106 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "76"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 5 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Gleichauf at 25:46-51; see also Gleichauf at 3:4-9 (disclosing a "robust network security architecture and system for controlling access to a network depending on the configuration state or 'security posture' of a device when it attempts to connect to that network."). A POSITA would have understood that product 200 "comprises computer instructions." 239. As described in [12.12], Gleichauf's policy server operates to protect the network. The policy server includes "non-transitory computer readable medium" in the form of memory 210 that stores the "logic instructions (e.g., software code) and/or data" necessary to operate the disclosed security architecture. Gleichauf at 26:66-27:8. 240. Gleichauf's system protects the network by reducing the risk of the network becoming infected with malware or suffering from a virus outbreak: The policy server receives the challenge responses and, based upon an analysis of the posture credentials of the computerized device, determines a security state of the computerized device and either provides some level of or denies the computerized device access to the network"
[New]: "EX1004, 25:46-51, 3:4-9. In my opinion, POSITA would have understood that Gleichauf's computer program product comprises computer instructions. 211. As I described for claim 12, Gleichauf's policy server operates to protect the network and directs the operation of the data communications device 26. See §IV(Q)(2) (limitation 12a). The policy server includes a "non-transitory computer readable medium" in the form of memory 210 that stores "logic instructions (e.g., software code) and/or data" for operating the disclosed security architecture. EX1004, 26:66-27:8. Gleichauf's system protects the network by reducing the risk of the network becoming infected with malware or suffering a virus outbreak. EX1004,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Declaration of Narasimha Reddy, Ph.D. Inter Partes Review of U.S. 8,234,705"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "resources based upon the analysis. The data communications system, therefore, detects the real-time security state of the computerized device prior to providing the computerized device with access to the network resources, thereby limiting at-risk or vulnerable computerized devices from accessing the network resources and minimizing the risk that the network resources receive malware. In effect, this invention helps "dampen" the propagation of worms and viruses, and related side effects, by preventing systems capable of participating in such an outbreak from gaining access to the network. Gleichauf at 8:16-31. 241. Therefore, Gleichauf discloses "[a] computer program product for protecting a network, the computer program product being embodied in a nontransitory computer readable medium and comprising computer instructions," as recited in the preamble. b. [19.1] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network, wherein detecting the insecure condition includes 242. See analysis at [1.1]. c. [19.2] contacting a trusted computing base associated with a trusted platform module within the first host,"
[New]: "8:16-31. 2. [19a] detecting an insecure condition on a first host that has connected or is attempting to connect to a protected network, 212. In my opinion, Gleichauf discloses this limitation. §IV(F)(2) (limitation 1a). 3. [19b] wherein detecting the insecure condition includes contacting a trusted computing base associated with a trusted platform module within the first host, 213. In my opinion, Gleichauf discloses this limitation. §IV(F)(3) (limitation 1b)."

Comments from page 57 continued on next page

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Number: 8 Author: Text Deleted Subject: Text Date: Indeterminate
"/ Page 107 of 110 Ex.1003 CISCO SYSTEMS, INC."

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 108 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "77"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "See analysis at [1.2]."
[New]: "[19c] [wherein detecting the insecure condition includes...]"

Font "CIDFont+F1" changed to "TimesNewRomanPS-BoldMT".
Font-color changed.

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"d. [19.3]"

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "244. See analysis at [1.3]. e. [19.4] determining whether the response includes a valid digitally signed attestation of cleanliness, 245. See analysis at [1.4]. f. [19.5]"
[New]: "214. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. §IV(F)(4) (limitation 1c). 5. [19d] [wherein detecting the insecure condition includes...] determining whether the response includes a valid digitally signed attestation of cleanliness, 215. In my opinion, Gleichauf discloses this limitation. §IV(F)(5) (limitation 1d). 6. [19e]"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "246. See analysis at [1.5]. g. [19.6]"
[New]: "216. In my opinion, the combination of Gleichauf and Ovadia discloses this limitation. §IV(F)(6) (limitation 1e). 7. [19f]"

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Font-color changed.

Number: 9 Author: Text Inserted Subject: Text Date: Indeterminate
"217. In my opinion, Gleichauf discloses this limitation. §IV(F)(7) (limitation 1f)."

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "/ Page 109 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "78"

Comments from page 58 continued on next page

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 1 Author: Text Inserted Subject: Text Date: Indeterminate
"8,234,705"

Number: 2 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "8,234,705"
[New]: "Patent No."

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 3 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "Narasimha Reddy,"
[New]: "Clay Shields,"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 4 Author: Text Inserted Subject: Text Date: Indeterminate
"8. [19g]"

Number: 5 Author: Text Deleted Subject: Text Date: Indeterminate
"247. See analysis at [1.6]. h. [19.7]"

Number: 6 Author: Text Deleted Subject: Text Date: Indeterminate
"Inter Partes Review of"

Number: 7 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "248. See analysis at [1.7]. i. [19.8] serving a quarantine notification page to the first host when the service request comprises a web server request, 249. See analysis at [1.8]."
[New]: "218. In my opinion, Gleichauf discloses this limitation. §IV(F)(8) (limitation 1g). 9. [19h] [wherein preventing the first host from sending data to one or more other hosts associated with the protected network includes…] serving a quarantine notification page to the first host when the service request comprises a web server request, and 219. In my opinion, the combination of Gleichauf, Ovadia,"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 8 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "j. [19.9] and"
[New]: "and Lewis discloses this limitation. §IV(F)(9) (limitation 1h). 10.[19i]"

Font "CIDFont+F2" changed to "TimesNewRomanPSMT".
Font-color changed.

Number: 9 Author: Text Replaced Subject: Text Date: Indeterminate
[Old]: "250. See analysis at [1.9]. k. [19.10] permitting the first host to communicate with the remediation host. 251. See analysis at [1.10]. X. CONCLUSION 252. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code. Dated: 14 th March 2021 Narasimha Reddy, Ph.D."
[New]: "220. In my opinion, the combination of Gleichauf, Ovadia, and Lewis discloses this limitation. §IV(F)(10) (limitation 1i). 11.[19j] permitting the first host to communicate with the remediation host. 221. In my opinion, Gleichauf discloses this limitation. §IV(F)(11) (limitation 1j)."

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Font-color changed.

Number: 10 Author: Text Replaced Subject: Text Date: Indeterminate

Comments from page 59 continued on next page

[Old]: "/ Page 110 of 110 Ex.1003 CISCO SYSTEMS, INC."
[New]: "79"

Font "CIDFont+F1" changed to "TimesNewRomanPSMT".
Font-color changed.