

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Cisco Systems, Inc.	05/14/2009

**RECEIVING PARTY DATA**

<b>Name:</b>	Cisco Technology, Inc.
<b>Street Address:</b>	170 West Tasman Drive
<b>City:</b>	San Jose
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134-1706

**PROPERTY NUMBERS Total: 55**

Property Type	Number
Patent Number:	7327697
Patent Number:	7283534
Patent Number:	7301926
Patent Number:	7212837
Patent Number:	7342906
Patent Number:	7346338
Patent Number:	7313113
Patent Number:	7508801
Patent Number:	7340247
Patent Number:	7106271
Patent Number:	7453840
Patent Number:	7336670
Patent Number:	7302256
Patent Number:	7251457
Patent Number:	7205938

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Patent Number:	7286833
Patent Number:	7260408
Patent Number:	7116988
Patent Number:	7047014
Patent Number:	7286835
Patent Number:	7433696
Patent Number:	7516174
Patent Number:	7457262
Patent Number:	7505450
Patent Number:	7489661
Application Number:	10155938
Application Number:	10198038
Application Number:	10611651
Application Number:	10611521
Application Number:	10913561
Application Number:	10726416
Application Number:	10831908
Application Number:	10931160
Application Number:	10981997
Application Number:	10982360
Application Number:	11182264
Application Number:	60654655
Application Number:	60654656
Application Number:	60654537
Application Number:	60654621
Application Number:	60664379
Application Number:	11182239
Application Number:	11182536
Application Number:	60664378
Application Number:	60664407
Application Number:	60664707
Application Number:	60664717
Application Number:	60664406
Application Number:	60664408
Application Number:	11213292

	11213287
Application Number:	11679762
Application Number:	11751456
Application Number:	11854499
Application Number:	11965162

**CORRESPONDENCE DATA**

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Address Line 2: SJC/10-2-1  
Address Line 4: San Jose, CALIFORNIA 95134-1706

**ATTORNEY DOCKET NUMBER:**

**AIRSPACE ASSIGNMENT**

**NAME OF SUBMITTER:**

Karen A. Hallock

**Total Attachments: 8**  
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PATENT ASSIGNMENT

This PATENT ASSIGNMENT ("Assignment") is entered into by and between CISCO SYSTEMS, INC., a California corporation ("Cisco") and CISCO TECHNOLOGY, INC., a California corporation ("CTI").

CISCO PATENTS

"Cisco Patents" shall mean the patents and patent applications listed on Schedule 1, as well as any and all continuations, continuations-in-part, divisionals, reexaminations, reissues, extensions, and any other patents or patent applications that claim priority therefrom, including without limitation any U.S. and foreign patent or patent applications or patents corresponding thereto.

ASSIGNMENT

Cisco has previously assigned and transferred, and CTI has previously received and accepted, all right, title and interest throughout the world in and to the Cisco Patents, and all rights, claims and privileges pertaining to the Cisco Patents, including without limitation: rights to the underlying inventions; all priority rights under all available international agreements, treaties and conventions for the protection of intellectual property in its various forms in every participating country; and the right to sue and recover damages, profits and all other remedies for any past, present or future infringement of any of the foregoing; and to stand in the place of Cisco in all matters related thereto.

Cisco hereby authorizes and requests the United States Commissioner of Patents and Trademarks and the relevant officials of foreign countries to implement this Assignment.

IN WITNESS WHEREOF, Cisco and CTI have caused this Assignment to be executed by their duly authorized representatives.

CISCO SYSTEMS, INC.

CISCO TECHNOLOGY, INC.

By: [Signature]

By: \_\_\_\_\_

Name: David K. Holland

Name: \_\_\_\_\_

Title: Sr. Vice President, Treasurer

Title: \_\_\_\_\_

Date Signed: May 14, 2009

Date Signed: \_\_\_\_\_

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CISCO SYSTEMS, INC.

CISCO TECHNOLOGY, INC.

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: Evan Stokes

Title: \_\_\_\_\_

Title: President

Date Signed: \_\_\_\_\_

Date Signed: May 18, 2009

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**SCHEDULE 1  
TO PATENT ASSIGNMENT**

**PATENTS**

<b>Title</b>	<b>Status</b>	<b>File Date</b>	<b>Appl. No.</b>	<b>Issue Date</b>	<b>Patent No.</b>
Method and system for hierarchical processing of protocol information in a wireless lan	Pending	24-May-02	10/155,938		
Method and system for dynamically assigning channels across multiple radios in a wireless lan	Issued	25-Jun-02	10/183,704	5-Feb-08	7,327,697
Method and system of providing multiple virtual access points within a single node	Pending	17-Jul-02	10/198,038		
Network with virtual 'virtual private network' server	Issued	22-Nov-02	10/302,508	16-Oct-07	7,283,534
Automatic Coverage Hole Detection in Computer Network Environments	Issued	4-Apr-03	10/407,357	27-Nov-07	7,301,926
Method and System for Hierarchical Processing of Protocol Information in a Wireless LAN	Issued	4-Apr-03	10/407,584	1-May-07	7,212,837
Distributed Wireless Network Security System	Issued	4-Apr-03	10/407,346	11-Mar-08	7,342,906
Wireless network system including integrated rogue access point detection	Issued	4-Apr-03	10/407,370	18-Mar-08	7,346,338
Dynamic Transmit Power Configuration System for Wireless Network Environments	Issued	4-Apr-03	10/407,372	25-Dec-07	7,313,113
Light-weight access point protocol	Issued	21-Mar-03	10/394,905	24-Mar-09	7,508,801

Cisco Systems, Inc. – Cisco Technology, Inc. Assignment for Airespace Patents

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**PATENT  
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**SCHEDULE 1  
TO PATENT ASSIGNMENT**

Title	Status	File Date	Appl. No.	Issue Date	Patent No.
Wireless Network Infrastructure including Wireless Discovery and Communication Mechanism	Issued	29-May-03	10/447,735	4-Mar-08	7,340,247
Directed Association Mechanism in Wireless Network Environments	Allowed	30-Jun-03	10/611,651		
Non-overlapping antenna pattern diversity in wireless network environments	Issued	30-Jun-03	10/611,522	12-Sep-06	7,106,271
Containment of rogue systems in wireless network environments	Issued	30-Jun-03	10/611,660	18-Nov-08	7,453,840
Dynamic QoS Configuration Based on Transparent Processing of Session Initiation Messages	Pending	30-Jun-03	10/611,521		
Method and System for Dynamically Assigning Channels Across Multiple Radios in a Wireless LAN	Pending	6-Aug-04	10/913,561		
Discovery of Rogue Access Point Location in Wireless Network Environments	Issued	24-Oct-03	10/692,699	26-Feb-08	7,336,670
Managed Access Point Protocol Facilitating Administrative Groups	Pending	3-Dec-03	10/726,416		
Viral Wireless Discovery and Configuration Mechanism for Wireless Networks	Issued	3-Dec-03	10/726,437	27-Nov-07	7,302,256
Wireless Network Perimeter Security System Using Overlaying Radio Frequency Signals	Issued	4-Dec-03	10/729,168	31-Jul-07	7,251,457

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**PATENT  
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**SCHEDULE 1  
TO PATENT ASSIGNMENT**

Title	Status	File Date	Appl. No.	Issue Date	Patent No.
Wireless Node Location Mechanism Responsive To Observed Propagation Characteristics Of Wireless Network Infrastructure Signals	Issued	5-Mar-04	10/794,842	17-Apr-07	7,205,938
Selective Termination of Wireless Connections to Refresh Signal Information in Wireless Node Location Infrastructure	Issued	27-Feb-04	10/788,645	23-Oct-07	7,286,833
Wireless Node Location Mechanism Using Antenna Pattern Diversity to Enhance Accuracy of Location Estimates	Issued	20-Feb-04	10/783,186	21-Aug-07	7,260,408
Location of Wireless Nodes Using Signal Strength Weighting Metric	Issued	16-Mar-04	10/802,366	3-Oct-06	7,116,988
Raster-to-vector conversion operations adapted to modeling of RF propagation	Issued	5-Nov-04	10/982,153	16-May-06	7,047,014
Enhanced Wireless Node Location using Differential Signal Strength Metric	Issued	10-Sep-04	10/938,460	23-Oct-07	7,286,835
Wireless node location mechanism featuring definition of search region to optimize location computation	Issued	18-May-04	10/848,276	7-Oct-08	7,433,696
Wireless network security mechanism including reverse network address translation	Issued	2-Nov-04	10/979,409	7-Apr-09	7,516,174
Synchronization of Upstream and Downstream Data Transfer in Wireless Mesh Topologies	Pending	26-Apr-04	10/831,908		

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**PATENT  
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**SCHEDULE 1  
TO PATENT ASSIGNMENT**

Title	Status	File Date	Appl. No.	Issue Date	Patent No.
Border Access Point Protocol Facilitating Wireless Client Macro-Mobility	Pending	31-Aug-04	10/931,160		
Methods, Apparatuses and Systems Facilitating Testing of Links to Mobile Stations in Wireless Networks	Pending	4-Nov-04	10/981,997		
Wireless Network Management System Including Integrated Location Information	Pending	5-Nov-04	10/982,360		
Pre-Emptive Roaming Mechanism Allowing for Enhanced QoS in Wireless Network Environments	Pending	15-Jul-05	11/182,264		
Graphical display of status information in a wireless network management system	Issued	5-Nov-04	10/982,390	25-Nov-08	7,457,262
Methods, Apparatuses and Systems Facilitating Client Handoffs in Wireless Network Systems	Abandoned	18-Feb-05	60/654,655		
Key Distribution and Caching Mechanism to Facilitate Client Handoffs in Wireless Network Systems	Abandoned	18-Feb-05	60/654,656		
Wireless Accelerated Roaming Protocol	Abandoned	18-Feb-05	60/654,537		
Pre-Emptive Roaming Mechanism Allowing for Enhanced QoS in Wireless Network Environments	Abandoned	18-Feb-05	60/654,621		
Wireless Mesh Network Including Wireless Backbone and Control Message Frequency Bands	Abandoned	23-Mar-05	60/664,379		

Cisco Systems, Inc. – Cisco Technology, Inc. Assignment for Airespace Patents

**SCHEDULE 1  
TO PATENT ASSIGNMENT**

Title	Status	File Date	Appl. No.	Issue Date	Patent No.
Methods, Apparatuses and Systems Facilitating Client Handoffs In Wireless Network Systems	Pending	15-Jul-05	11/182,239		
Key Distribution and Caching Mechanism to Facilitate Client Handoffs in Wireless Network Systems	Pending	15-Jul-05	11/182,536		
Slot-Based Transmission Synchronization Mechanism in Wireless Mesh Networks	Abandoned	23-Mar-05	60/664,378		
Location of Wireless Nodes Using Error Weighting Metric	Abandoned	23-Mar-05	60/664,407		
Automatic route configuration in hierarchical wireless mesh networks	Abandoned	23-Mar-05	60/664,707		
Graphical Display of Location Estimate Information in Wireless Node Location System	Abandoned	23-Mar-05	60/664,717		
Configuration of Failure and Acquire Timeouts to Facilitate Recovery from Failures in Hierarchical Mesh Networks	Abandoned	23-Mar-05	60/664,406		
Secure, Automatic Routing Node Configuration in Hierarchical Wireless Mesh Networks	Abandoned	23-Mar-05	60/664,408		
Slot-Based Transmission Synchronization Mechanism in Wireless Mesh Networks	Pending	26-Aug-05	11/213,292		
Automatic route configuration in hierarchical wireless mesh networks	Pending	26-Aug-05	11/213,287		

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**PATENT  
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**SCHEDULE 1  
TO PATENT ASSIGNMENT**

<b>Title</b>	<b>Status</b>	<b>File Date</b>	<b>Appl. No.</b>	<b>Issue Date</b>	<b>Patent No.</b>
Configuration of failure and acquire timeouts to facilitate recovery from failures in hierarchical mesh networks	Issued	26-Aug-05	11/212,997	17-Mar-09	7,505,450
Method and System for Hierarchical Processing of Protocol Information in a Wireless LAN	Pending	27-Feb-07	11/679,762		
Wireless Node Location Mechanism Using Antenna Pattern Diversity to Enhance Accuracy of Location Estimates	Allowed	21-May-07	11/751,456		
Enhanced Wireless Node Location using Differential Signal Strength Metric	Pending	12-Sep-07	11/854,499		
Dynamic Transmit Power Configuration System for Wireless Network Environments	Issued	8-Nov-07	11/937,235	10-Feb-09	7,489,661
Discovery of Rogue Access Point Location in Wireless Network Environments	Pending	27-Dec-07	11/965,162		

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