

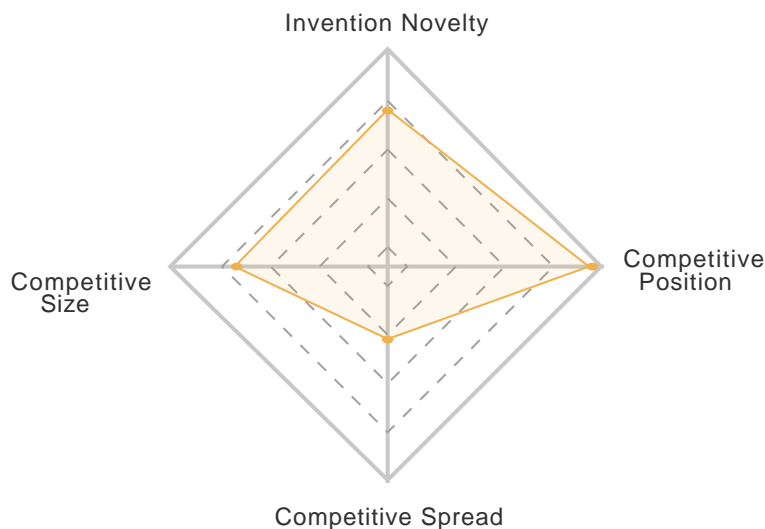
# IPCOM000238147D Signal Strength Presence Status

CISCO TECH INC

## About This Report:

This report illustrates the technology opportunity afforded through the invention. This report generally indicates the novelty of the invention, the market share of the invention's original owner, and the level of market concentration regarding the invention's technology. This report is intended to be used to evaluate technologies prior to publication. The report can be used as an early indicator of patent value and quickly evaluate a subset of prior art. Low index scores correlate to low patent quality/value, whereas high index scores correlate to high patent quality/value.

## TECHNOLOGY VITALITY OVERVIEW



## Technology Vitality

Factors are normalized against a related probability curve. Values are from 0 to 1000 and represent the location on the curve.

CALCULATED SCORES

<b>Invention Novelty</b>	<b>700</b>
<b>Competitive Position</b>	<b>950</b>
<b>Competitive Spread</b>	<b>275</b>
<b>Competitive Size</b>	<b>675</b>

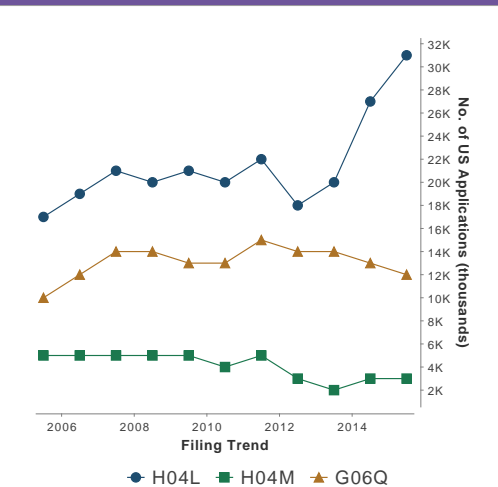
This technology has above-average **Invention Novelty** when reviewed against our collection of over 70 million technologies. Invention Novelty shows whether the technology is a small incremental step (low index value) or a significant leap (high index value) over the technology disclosed in the closest peer US8694517. As of August 13, 2017, the competitive space is mixed between small and large entities and CISCO TECH INC commands a below-average position within the peer group. Since 2000, patent applications in the dominant CPC subclass from the peer group have grown at a compounded annual growth rate of 5.79%.

## TOP SUBCLASSES IN PEER GROUP

CPC SUBCLASS	COUNT	CAGR
<b>H04L</b>	44	5.79%
Transmission of digital information, e.g. telegraphic communication.		
<b>H04M</b>	22	-3.78%
Telephonic communication.		
<b>G06Q</b>	14	1.71%
Data processing systems or methods, specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes; systems or methods specially...		

Full List on the CPC Subclass Activity Page

## RELATED SUBCLASS TRENDS



Full List on the CPC Subclass Activity Page

## ENTITIES FROM THE PEER GROUP

#	ENTITY	COUNT
1.	AVAYA INC	3
2.	NOKIA CORP	3
3.	ALTABA INC	3
4.	MASSACHUSETTS INST...	1
5.	SYMBIAN LTD	1
6.	SCHOETTLE ROLAND	1
7.	SIEMENS COMM INC	2
8.	AOL INC	3
9.	INTL BUSINESS MACHI...	8
10.	SYMBIAN SOFTWARE LT...	1

Full List on the Enterprise Activity Page

# Technology Overview

IPCOM000238147D Signal Strength Presence Status

CISCO TECH INC

## REPORT DESCRIPTION

**TITLE:**

IPCOM000238147D Signal Strength Presence Status

**QUERY:**

Enable an Instant Messaging (IM) client to display a contact's signal strength as presence information. Knowing a contact's signal strength can help a user decide when and how to communicate with a contact. For example, if a contact has only one bar, the user may want to quickly IM that contact before they completely lose their connection. Or, if the user prefers to have a video call with that contact, the user may want to wait until the signal strength improves for that contact.

**FILING ENTITIES:** (1)

CISCO TECH INC

## TOP CONCEPTS/KEYWORDS

The keywords below illustrate the applicable concepts of the invention. Highlighted concepts are the keywords not found in the technology description but are applicable to the inventions of the peer group.

client   **service**   **internet**  
presence   **communications**  
**email**   **phone**   **voice**   **send**  
video   **telephone**   **request**  
**text**   **session**   **party**

## NOTES

# Technology Vitality Factors

IPCOM000238147D Signal Strength Presence Status  
CISCO TECH INC

## INVENTION FACTOR INDEXES

### Technology Vitality

**Invention Novelty** (InvNov) **700**

Invention Novelty is calculated using the semantic distance of the TOI to the closest member found in the Peer Group. Higher values indicate greater uniqueness of the underlying ideas. This index informs whether the TOI is an incremental step or a significant leap over the technology disclosed by its closest peer.

**Competitive Position** (ComPos) **950**

Competitive Position is calculated using the current rank of the Filing Entities among the other Entities using the count for each Entity in the Peer Group. Higher values indicate a better position in the competitive food chain; eat or be eaten. This index informs the Filing Entities' investment commitment and its positioning relative to the other Entities in the same technology space.

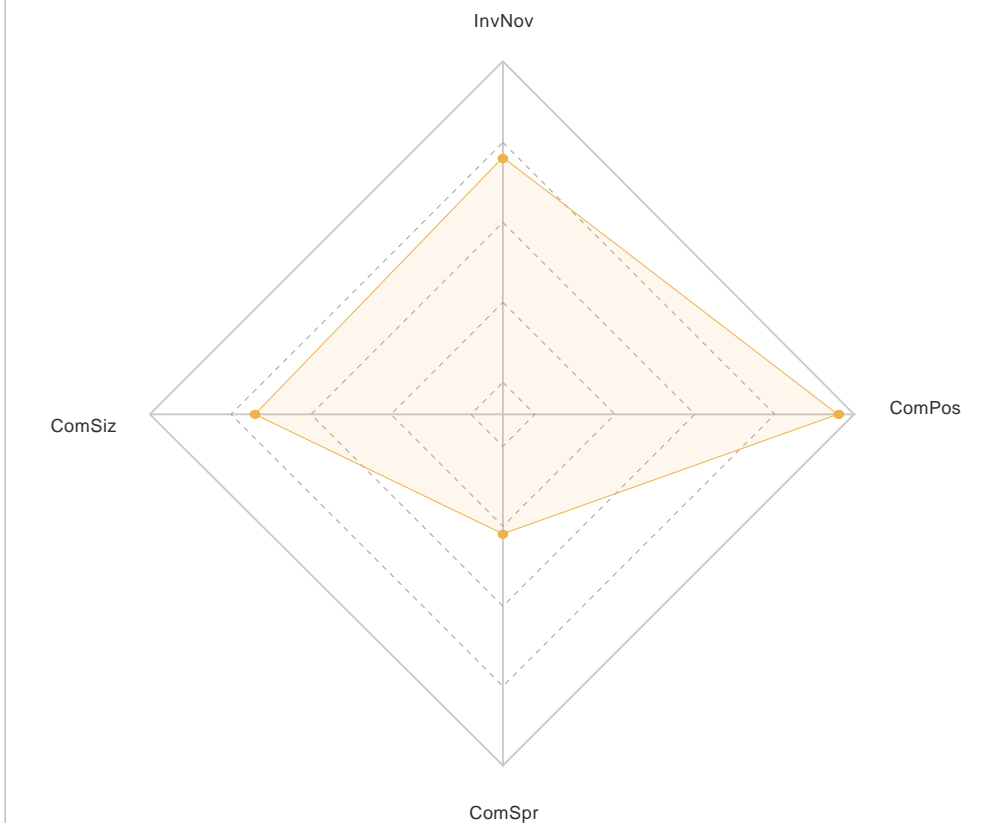
**Competitive Spread** (ComSpr) **275**

Competitive Spread is calculated using the count of the Filing Entities' patents found in the Peer Group. Higher values indicate greater dominance in this technology area. This index informs the level of market protection obtained by the Filing Entities.

**Competitive Size** (ComSiz) **675**

Competitive Size is calculated using the number of large versus small Entities found in the Peer Group excluding the TOI. Higher values indicate a market more concentrated with larger institutional competitors. This index informs the favorability of the environment to generate the highest revenue per licensee.

## INVENTION FACTOR RADAR



## INVENTION FACTOR SUMMARY

This technology has above-average **Invention Novelty** when reviewed against our collection of over 70 million technologies. Invention Novelty shows whether the technology is a small incremental step (low index value) or a significant leap (high index value) over the technology disclosed in the closest peer US8694517. As of August 13, 2017, the competitive space is mixed between small and large entities and CISCO TECH INC commands a below-average position within the peer group. Since 2000, patent applications in the dominant CPC subclass from the peer group have grown at a compounded annual growth rate of 5.79%.

# Peer Group Activity

IPCOM000238147D Signal Strength Presence Status  
CISCO TECH INC

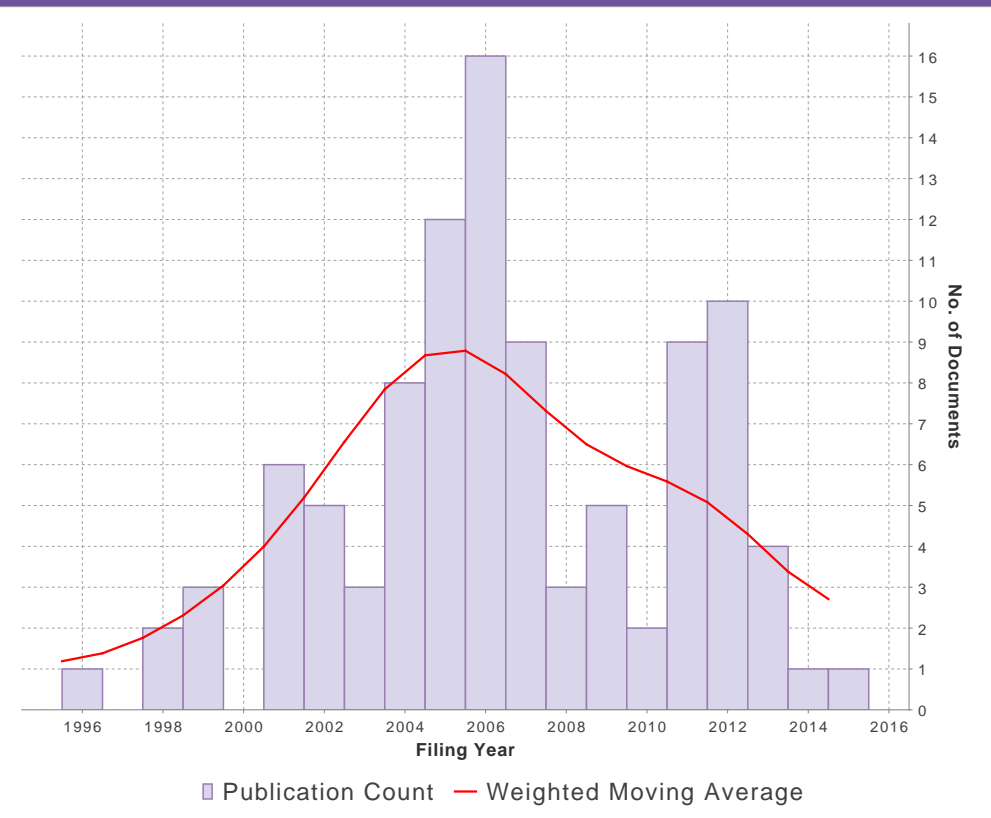
## About Peer Group Activity

A dynamic Peer Group of 100 publications is created by applying cognitive semantic retrieval technology to the TOI's query text. This results in a high quality set of related patents that are conceptually linked by their core concepts. Our specialized approach locates patents in non-obvious areas that can contain highly relevant art. Regarding the Peer Group, on this page are a selection of the most relevant patents and a graph showing the rate of filing for the related period. Filing activity can be indicative of when the TOI's technology emerged and the technology's rate of growth or decline.

### TOP PEER GROUP PATENTS

NO. / FILED	TITLE
<b>US8694517</b> 2005-12-08	Context aware phonebook
<b>US7573996</b> 2006-10-03	Presence based callback
<b>US7865552</b> 2007-07-24	Rich-media instant messaging with selective rich media messaging broadcast
<b>US7634069</b> 2000-08-22	Method of and apparatus for communicating user related information using a wireless information device
<b>US8352555</b> 2007-08-17	Scheduled online presence on instant messenger
<b>US7443283</b> 2004-02-19	Methods and apparatus for connecting an intimate group by exchanging awareness cues and text, voice instant messages, and two-way voice communications
<b>US7729481</b> 2005-10-28	User interface for integrating diverse methods of communication
<b>US7047030</b> 2001-05-02	Group communication method for a wireless communication device
<b>US9454735</b> 2005-09-26	Integrating data with a contact
<b>US8311893</b> 2009-06-19	System and method for providing information on selected topics to interested users
<b>US7657605</b> 2006-09-01	Presence enhanced online processes
<b>US8943422</b> 2007-11-26	System and method for a messaging interface
<b>US7734709</b> 2002-07-26	Controlling computer response message traffic
<b>US7248677</b> 2000-08-22	Method of and apparatus for communicating user related information using a wireless information device
<b>US9357026</b> 2010-03-03	Presently authorization of buddy subscription in a communication system

### FILING TREND



### FILING TREND DATA TABLE

YEAR	COUNT	YEAR	COUNT
1996	1	2007	9
1998	2	2008	3
1999	3	2009	5
2001	6	2010	2
2002	5	2011	9
2003	3	2012	10
2004	8	2013	4
2005	12	2014	1
2006	16	2015	1

# CPC Subclass Activity

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CISCO TECH INC

## About CPC Subclass Activity

Cooperative Patent Classification (CPC) is a widely-used, international, hierarchical system for patent publications. The hierarchy is divided into sections, classes, subclasses, groups, and subgroups. The sections are (A) Human Necessities, (B) Operations and Transport, (C) Chemistry and Metallurgy, (D) Textiles, (E) Fixed Constructions, (F) Mechanical Engineering, (G) Physics, (H) Electricity, and (Y) Emerging Cross-Sectional Technologies. At the subclass level, it describes over 650 distinct categories across its sections.

Regarding the top CPC subclasses in the Peer Group, this page presents details of these subclasses with their associated trend graphs.

- Highlighted subclasses do not appear on the TOI; this indicates non-obvious technology areas that apply to the TOI's concepts.
- The patent application activity trend of each subclass teaches the overall interest in the related art. A rapid rise in activity may be an indicator of a vigorous period of technology diffusion or adoption. Because applications are published 18 months after filing, however, a rapid recent decline may not mean lessening activity.

**TOP SUBCLASSES IN PEER GROUP**

CPC SUBCLASS	COUNT	CAGR
<b>H04L</b>	44	5.79%

DESCRIPTION  
Transmission of digital information, e.g. telegraphic communication.

CPC SUBCLASS	COUNT	CAGR
<b>H04M</b>	22	-3.78%

DESCRIPTION  
Telephonic communication.

CPC SUBCLASS	COUNT	CAGR
<b>G06Q</b>	14	1.71%

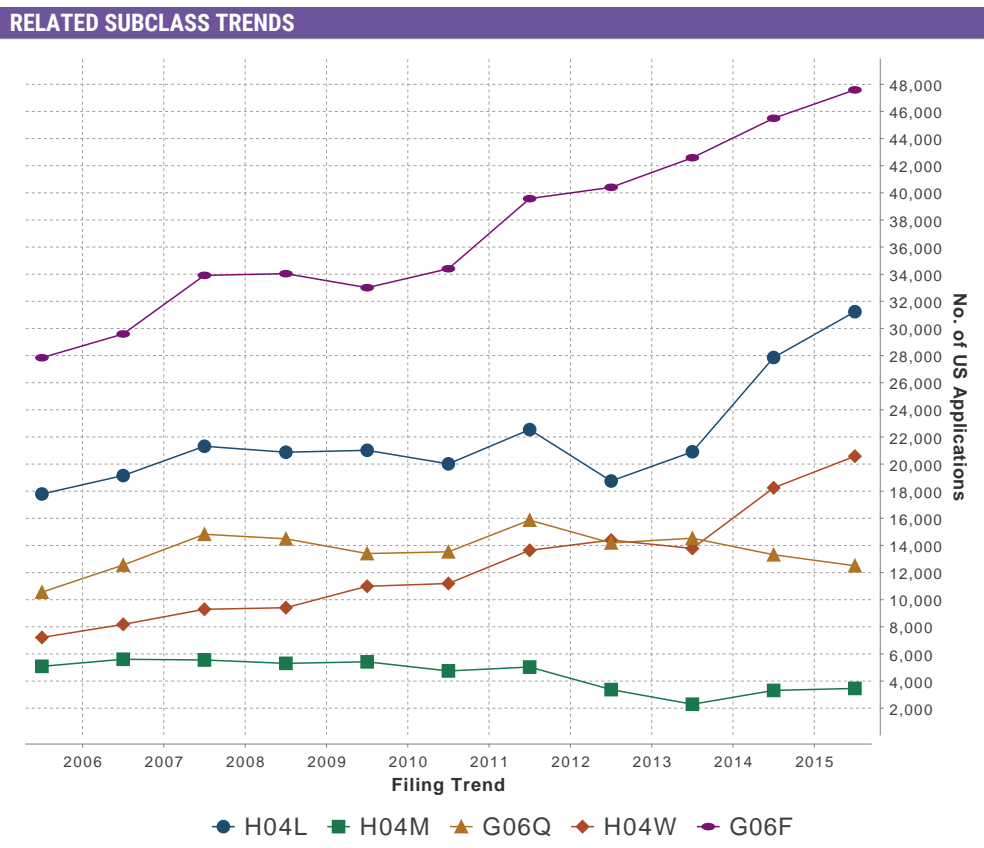
DESCRIPTION  
Data processing systems or methods, specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes; systems or methods specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes, not otherwise provided for.

CPC SUBCLASS	COUNT	CAGR
<b>H04W</b>	7	11.05%

DESCRIPTION  
Wireless communications networks.

CPC SUBCLASS	COUNT	CAGR
<b>G06F</b>	6	5.51%

DESCRIPTION  
Electrical digital data processing.



**RELATED SUBCLASS TRENDS DATA TABLE**

YEAR	H04L	H04M	G06Q	H04W	G06F
2006	17795	5087	10555	7217	27841
2007	19154	5607	12556	8178	29592
2008	21314	5555	14823	9293	33916
2009	20873	5307	14490	9410	34038
2010	21015	5420	13403	10991	33007
2011	20016	4747	13529	11193	34403
2012	22542	5036	15866	13641	39572
2013	18751	3372	14185	14395	40405
2014	20906	2292	14533	13780	42588
2015	27858	3312	13314	18249	45496
2016	31233	3459	12503	20580	47589

# Enterprise Activity

IPCOM000238147D Signal Strength Presence Status

CISCO TECH INC

## About Enterprise Activity

The Entities from the Peer Group have a direct connection with the inventive ideas expressed in the TOI. This indicates these Entities are involved with the TOI's product or technology area. Entities with a greater number of patents have invested heavily in this area, indicating they consider this technology segment to be of high commercial interest. Entities that are prolific may prefer litigation to licensing, while the less invested Entities may welcome the opportunity to license.

The table on this page teaches the names of the enterprises that may be, now or in the future, fierce competitors, collaborators, licensees, or licensors.

ENTITIES FROM THE PEER GROUP			
#	ENTITY	EARLIEST PRIORITY	TOTAL/ENFORCEABLE
1.	AVAYA INC	2004-06-10	3/3
2.	NOKIA CORP	2000-08-22	3/3
3.	ALTABA INC	2004-09-08	3/3
4.	MASSACHUSETTS INST TECH	2004-02-19	1/1
5.	SYMBIAN LTD	2001-05-02	1/1
6.	SCHOETTLE ROLAND	2009-06-19	1/1
7.	SIEMENS COMM INC	2006-09-01	2/2
8.	AOL INC	2003-10-06	3/3
9.	INTL BUSINESS MACHINES CORP	1996-12-19	8/5
10.	SYMBIAN SOFTWARE LTD	2000-08-22	1/1
11.	TELEFON AB LM ERICSSON PUBL	2004-03-12	3/3
12.	SIEMENS ENTPR COMM INC	2006-09-21	1/1
13.	PULVERCOM	2004-10-13	1/1
14.	VIDYO INC	2009-12-02	1/1
15.	TEMPLETON BRADLEY S	1998-10-14	1/1
16.	GOOGLE INC	2005-06-30	3/3
17.	HITACHI LTD	2004-04-30	1/1
18.	T MOBILE USA INC	2008-03-14	1/1
19.	COHEN MORGAN	2002-02-15	1/1
20.	MOBILE MESSENGER GLOBAL INC	2003-05-16	1/1
21.	PEN THE	2005-12-27	2/2
22.	FUTUREWEI TECH INC	2012-10-19	1/1
23.	MICROSOFT CORP	2001-06-28	7/6
24.	SKYPE	2007-03-28	4/4
25.	DOTOMI INC	2000-07-31	1/1
26.	VOCALTEC COMM LTD	2000-11-03	1/0
27.	DEVEREUX RSCH AB LLC	2005-04-19	1/1
28.	CLEARONE COMM INC	2010-11-22	1/1
29.	RIDESHARK CORP	2012-08-29	1/1
30.	CHACHA SEARCH INC	2007-06-28	1/1
31.	PACE PLC	2002-07-12	1/1
32.	VERIZON PATENT & LICENSING INC	2002-04-02	2/2
33.	QUEST COMM INTL INC	2003-09-24	1/1
34.	ALCATEL LUCENT USA INC	1999-02-26	1/1
35.	AT & T MOBILITY II LLC	2001-05-07	1/0

# Glossary

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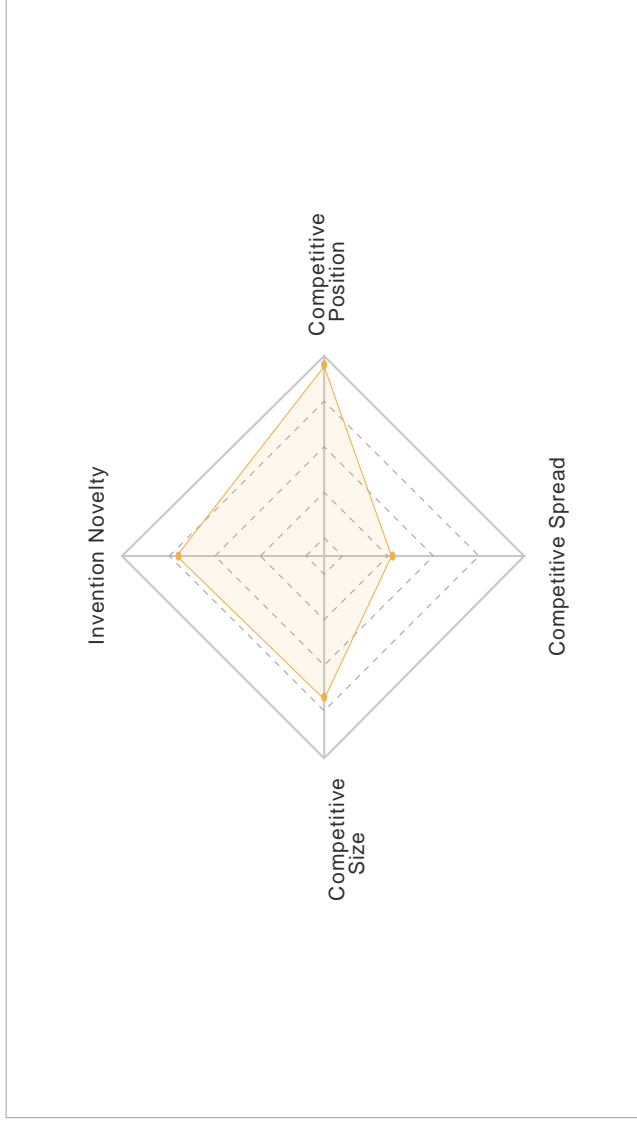
CISCO TECH INC

<b>CAGR</b>	An abbreviation for Compound Annual Growth Rate . The compound annual growth rate is a representational value that describes the rate at which a measurable trend would have grown if it had grown at a steady rate. It is presented in this report as another way to help teach an application rate trend.
<b>CPC</b>	An abbreviation for <b>Cooperative Patent Classification</b> . See the <a href="#">CPC Subclass Activity</a> page. Read more on the web at <a href="http://www.cooperativepatentclassification.org">http://www.cooperativepatentclassification.org</a>
<b>CPC Subclass</b>	A Cooperative Patent Classification (CPC) subclass is at the third tier of the CPC's five tier hierarchy. See the <a href="#">CPC Subclass Activity</a> page.
<b>Enforce</b>	<p>This report uses Enforceability Groups. These groups are a summary of legal events including maintenance payments and expiration date of issued patents that help indicate whether a patent is enforceable. <i>Active</i> patents have neither reached their expiration date nor had a legal event which could cause the patent to be unenforceable. <i>Inactive</i> patents have reached their expiration date and/or had a legal event which could cause the patent to be unenforceable. This is not a definitive grouping and reflects the current data from IFI. Additionally, patents may move back and forth between the two groups. For example, a patent with missed maintenance fees is unenforceable but can become enforceable again when fees are paid.</p> <p>Patent applications are grouped as <i>granted</i>, <i>inactive</i> or <i>undetermined</i>. Inactive applications have been withdrawn, abandoned, or rejected. Pending applications are grouped as <i>undetermined</i>.</p>
<b>Entity (or Entities)</b>	Patent applications and grants are published with names of people and/or enterprises associated with them. These names are generally contained in the fields <i>Inventors</i> , <i>Applicants</i> , and <i>Assignees</i> . It is desirable to try to determine the names of only the enterprises; these usually are the names of the companies or institutions associated with the patent. For the purpose of this report, the <b>Entities</b> listed on a patent publication are the combination of the names in the <i>Applicants</i> and <i>Assignees</i> fields after removing the names in the <i>Inventors</i> field.
<b>Peer Group</b>	The <b>Peer Group</b> is a set of patents that are semantically and conceptually related to the inventive ideas embodied in the Technology of Interest (TOI). See the <a href="#">Peer Group Activity</a> page.
<b>TOI</b>	An abbreviation for Technology Of Interest. The TOI is the provided technology description which is being analyzed by this report.
<b>Weighted Moving Average</b>	The weighted moving average we applied is two-sided moving average. It is the weighted mean of data points equally positioned on either side of the point in the series where the mean is calculated, with multiplying factors giving different weights to the data points at different positions in the sample window. Normally data points that are closer to the center of the sample window get higher weights than those further away from the center.

# IPCOM000238147D Signal Strength Presence Status

CISCO TECH INC

**QUERY:** Enable an Instant Messaging (IM) client to display a contact's signal strength as presence information. Knowing a contact's signal strength can help a user decide when and how to communicate with a contact. For example, if a contact has only one bar, the user may want to quickly IM that contact before they completely lose their connection. Or, if



**Invention Novelty 700**  
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**Competitive Position 950**  
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**Competitive Spread 275**  
 Competitive Spread is calculated using the count of the Filing Entities' patents found in the Peer Group. Higher values indicate greater dominance in this technology area. This index informs the level of market protection obtained by the Filing Entities.

**Competitive Size 675**  
 Competitive Size is calculated using the number of large versus small Entities found in the Peer Group excluding the TOI. Higher values indicate a market more concentrated with larger institutional competitors. This index informs the favorability of the environment to generate the highest revenue per licensee.

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## TOP CONCEPTS/KEYWORDS

The keywords below illustrate the applicable concepts of the invention. Highlighted concepts are the keywords not found in the technology description but are applicable to the inventions of the peer group.

- client
- service
- internet
- presence
- communications
- email
- phone
- voice
- send
- video
- telephone
- request
- text
- session

## TOP SUBCLASSES IN PEER GROUP

CPC-SUBCLASS	COUNT	CAGR
<b>H04L</b>	44	5.79%
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Data processing systems or methods, specially adapted for administrative, commercial, financial, managerial, supervisor...		

## ENTITIES FROM THE PEER GROUP

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3.	AL TABA INC	3
4.	MASSACHUSETTS INST...	1
5.	SYMBIAN LTD	1
6.	SCHOETTLE ROLAND	1
7.	SIEMENS COMM INC	2
8.	AOL INC	3
9.	INTL BUSINESS MACHI...	8
10.	SYMBIAN SOFTWARE LT...	1