

## Creating a Customer Access Point List

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In addition to displaying iPass access points, iPassConnect can be customized to display a customer's own access points. This list of customer access points, included in an iPassConnect Phonebook, is sometimes known as a *Cbook*.

This document gives specifications for the format of the customer access point file you would submit to iPass. iPass will process this file and include the access points in the iPassConnect Phonebook available to your users.

### Creating a Customer Access Point File

In order for you to use a Cbook, iPass requires a comma-delimited ASCII text file (.txt) with the details of each access point.

**Note:** The format shown here is the format of the file you submit to iPass for processing. It is *not* the format of the actual output file used in iPassConnect.

#### To create a customer access point list:

1. Using a text editor, create a file listing all of the access points you wish to include. Each access point is represented by a comma-separated row of fields. The fields and formatting required in each row are described in the **Field Listing** table on page 2.
2. Save the document in .txt format.
3. Submit the completed file to iPass for inclusion in your iPassConnect profile.

#### Formatting Rules

These rules apply when formatting your file.

##### Basics

- Each line in the file represents a single access point.
- Each row must be separated with a carriage return.
- All information must be submitted in English and must be single-spaced.

##### Commas and Special Characters

- Embedded carriage-control characters (for example, <CR> or <LF>) may not be used in the content of any field.
- Each field entry must be separated with a comma, with no space after the comma.
- Do not use commas as part of a field's contents.
- If a field is to be left empty, enter two commas (the first to indicate the beginning of the entry, and the second to mark the end of the field entry) with no space between these two commas.
- Use double quotes (") to surround any field entry with a space or a special character (such

as a space, hyphen, underscore, ampersand, @-sign, and so on) in it. For example, "San Francisco", "homer@simpsons.com".

- When a field contains a double quote character as a part of the content, the entire field must be enclosed in single quotes.
- If a field needs to contain a backslash (\), the backslash must be replaced by a double backslash (\\). (For example, *Up\Down* would be replaced by *Up\\Down*.)

#### Total Fields

- For dial-up access points (Modem, PHS, ISDN and GSM), there must be 12 commas separating 13 fields total in each line, regardless of field population.
- For broadband access points, there must be between 23 and 28 (inclusive) fields, regardless of field population.

Examples of properly formatted entries are provided on page 6.

## File Fields

### Table Column Descriptions

The table below contains the following columns:

- **Field Position:** Comma-delimited field number, in left to right order.
- **Field Name:** Name of the field.
- **Description:** Brief description of the field.
- **Dial-up:** Indicates whether a value is Required, Optional or Not Applicable for dial-up POPs (modem, ISDN, PHS and GSM)
- **Broadband:** Indicates whether a value is Required, Optional or Not Applicable for broadband POPs (Wired Ethernet and Wi-Fi)

### Field Listing

Each access point must be represented by a single row in the text file, each containing the following comma-separated fields:

Field Position	Field Name	Description	Dial-up	Broadband
0	Country Code	The two- letter ISO country code (for example, US, UK, JP, etc)	Required	Required
1	Region or State	The state, province, prefecture or territory where the access point is located in the following format: <ul style="list-style-type: none"> <li>• United States: two-letter code</li> <li>• Canada or Australia: two to three letter code</li> <li>• Japan: full city name</li> </ul> For Toll Free or All Cities access points in these countries, provide two hyphens with no spaces in between, surrounded by double quotes (For example: "- -" ).	Required in US, CA, AU and JP only	Required in US, CA, AU and JP only

Field Position	Field Name	Description	Dial-up	Broadband
2	City	<ul style="list-style-type: none"> <li>The name of the city where the access point is located. City names are limited to a maximum length of 36 characters. This field cannot contain an @ character.</li> <li>For Toll Free or All Cities access points, enter &lt;All Cities&gt; or &lt;TOLLFREE&gt;, a hyphen (-), and the country code.</li> <li>For PHS access points, enter &lt;PHS&gt;, the city name and the type of PHS supported.</li> </ul> <p>Examples:</p> <ul style="list-style-type: none"> <li>"San Francisco"</li> <li>"TOLLFREE-US"</li> <li>"All Cities-UK"</li> <li>"PHS-HANDA-2.0"</li> </ul>	Required	Required
3	Area Code	The city code or area code of the phone number for dial-up connections, if needed to connect. If the area code starts with a zero, surround by double quotes.	Optional	N/A
4	Modem Phone Number	The phone number used for dial-up connections, without the area code. Do not include hyphens (-) or other special characters. Surround it by double quotes. (For example, "555 1212", or "03456789", or "0345 6789").	Required	N/A
5	Maximum Analog Speed	The maximum access speed supported by the access point for analog connections, in bits per second (bps). <ul style="list-style-type: none"> <li>If the access point supports both analog and ISDN services, please indicate the maximum speed for analog service only (the ISDN speed will be automatically populated). If analog service is not supported, enter a value of 0.</li> <li>Examples: 28800, 33600, 56000</li> </ul>	Required	N/A
6	Media Access Type	Choose one of the values from the Media Access Type table, on page 7, and enter it exactly as shown in double quotes. Alternately, you can enter the corresponding numeric ID from the Type Mask ID column without quotes.	Required	Required
7	PAP Support	1 if PAP is supported, 0 otherwise.	Required	Required
8	CHAP Support	Enter 0 for this value.	No longer needed	No longer needed
9	Price	The hourly price charged for using the access point, written in numeric format (For example, 0.00). <i>For iPassConnect 2.x only:</i> Alphabetical characters are supported in this field in iPassConnect 2.x, but if used the entire field value must be given in double quotes. (For example, "Direct".)	Optional	Optional

Field Position	Field Name	Description	Dial-up	Broadband
10	Prefix	The prefix used for routing the authentication request. The prefix is added to the user ID. <ul style="list-style-type: none"> <li>If your own access points require a prefix, please include it in double quotes with slash (for example, "UL/").</li> <li>The prefix should correspond with AAA or NAS for routing purposes.</li> </ul>	Required if the access point requires a prefix to connect.	Optional
11	Suffix	The suffix used for routing the authentication request. The suffix is added to the user ID. If your own access points require a suffix, please include in double quotes with @ sign (for example, "@corp.com"). The suffix is required if the access point requires such information to connect. <ul style="list-style-type: none"> <li>The suffix should correspond with AAA or NAS for routing purposes.)</li> </ul>	Required if the access point requires a suffix to connect.	Optional
12	Script File Name	Specifies the script to be used for dial-up connections, if any, surrounded by double quotes. Must be in valid DUN script file format (.scp).	Required if the access point requires a script to connect.	N/A
13	Broadband Access Procedure	Specifies the access procedure used to connect to a Broadband network, surrounded by double quotes. Choose a Procedure ID from the Procedure ID table, on page 7, and enter it exactly as shown.	N/A	Required
14	Maximum Broadband Access Speed	The maximum access speed or bandwidth that can be supported by this access point for a Broadband connection, in Kilobits per second (Kbps). <ul style="list-style-type: none"> <li>If this field is used, set the Maximum Analog Speed (Field #5) to 0.</li> </ul>	N/A	Required
15	Site Name	The name of the venue to be displayed to users in the connection client, surrounded by double quotes. <ul style="list-style-type: none"> <li>If your network includes multiple venues with the same venue name and you would like to differentiate them, please include a hyphen and a brief descriptor.</li> <li>Do not include commas or other special characters (except hyphens).</li> </ul>	N/A	Required
16	Site Type	Choose a Site Type ID from the Site Type ID table, on page 7, and enter it exactly as shown.	N/A	Required
17	Site Address	Physical street address where the broadband access point is located, surrounded by double quotes. <ul style="list-style-type: none"> <li>Do not include city, country or zip code information.</li> </ul>	N/A	Optional

Field Position	Field Name	Description	Dial-up	Broadband
18	Site Phone	Telephone number to be used for support purposes. <ul style="list-style-type: none"> <li>If the phone number starts with zero or you wish to have spaces or other special characters in the phone number, surround it by double quotes.</li> </ul>	N/A	Optional
19	Gateway IP	IP address of Broadband Access Gateway or Access Point, surrounded by double quotes.	N/A	Optional
20	Local Content URL	URL of the website for local content (if applicable).	N/A	Optional
21	Support Email	Email address for technical support (if applicable).	Optional	Optional
22	Support Message	Text message for technical support info (if applicable).	Optional	Optional
23	Network Name	Name of the network owner (if applicable). Do not include commas or other special characters (except hyphens).	Optional	Optional
24	SSID	<ul style="list-style-type: none"> <li>For Wi-Fi (802.11) access points only, provide the Service Set Identifier or Network Name. For easy differentiation, you may wish to provide a different identifier at each distinct location.</li> <li>If the SSID begins with any leading zeroes, enclose the entire SSID in double quotes. (For example, 007 would become "007".)</li> </ul>	N/A	Required
25	WEP Key	If Wireless Equivalent Privacy (WEP) is enabled at a Wi-Fi (802.11) access point, provide the key to be used. WEP key can be 40-bit or 128-bit in length, and must be in hexadecimal format. Enter the WEP key in double quotes.	N/A	Optional
26	Certificate Issued To	For connections to 802.1x-enabled access points using Tunneled Authentication Methods (i.e. TTLS, etc), provide the contents of the "Issued To" field of the server certificate (usually the hostname of the 802.1x AAA Server).	N/A	Required for 802.1x/TTLS methods only. Otherwise, N/A.
27	POP Info	Contains descriptive information about the access point that you wish to be displayed to end users in the iPassConnect client software. Field may contain up to 30 characters.	Optional	Optional

Field Position	Field Name	Description	Dial-up	Broadband
28	All-Cities Token	<ul style="list-style-type: none"> <li>If set to 1, All-Cities/Toll Free dialup access point will be displayed either at the top, or the bottom of the list of access points, depending on the sort order flag in the <code>country.txt</code> file (which is the 4<sup>th</sup> field in each line of <code>country.txt</code> and 0=top, 1=bottom). For example, for US and UK access points, this will sort All Cities/Toll Free access points to the bottom.</li> <li>Also, iPassConnect will use the All-Cities dialing rule (in most cases, a long-distance call)</li> </ul>	Optional	N/A

### Examples

The following examples show the correct row format for different access point types:

#### Example 1: Dial-up access point with prefix, suffix and script:

```
US,CA,Fremont,510,"555 1212",56000,4,1,0,1.5,"ME/","@domain.com","script.scp"
```

#### Example 2: Dial-up access point with no prefix suffix or script:

```
US,CA,"Redwood Shores",650,"555 1212",56000,6,1,0,1.5,,,
```

#### Example 3: Wireless (Wi-Fi) Broadband access point in Open Network:

```
UK,,London,,,,,"WIFI",,0,0,"PREFIX/","@domain.com",,"NONE.1",11,"Example Corp UK
WLAN - Open Access","MISC","999 Example Corp Road","+44
20.7317.1212","123.4.5.678","http://www.examplecorp.com/support/,,,,,"CorpUK-
Open",,,
```

#### Example 4: Wireless (Wi-Fi) Broadband access point with 40-bit Hexadecimal WEP Key:

```
UK,,London,,,,,"WIFI",,0,0,"PREFIX/","@domain.com",,"NONE.1",11,"Example Corp UK
WLAN - Shared Access","MISC","999 Example Corp Road","+44
20.7317.1212","123.4.5.678","http://www.examplecorp.com/support/,,,,,"CorpUK-
Shared","f32de32db7",,,
```

#### Example 5: Wireless (Wi-Fi) Broadband access point with GIS (no WEP):

```
UK,,London,,,,,"WIFI",,0,0,"PREFIX/","@domain.com",,"GI.1",11,"Example Corp UK
WLAN - Guest Access","MISC","999 Example Corp Road","+44
20.7317.1212","123.4.5.678","http://examplecorpwalledgarden.com/,,,,,"CorpUK-
Guest",,,
```

#### Example 6: Wireless (Wi-Fi) Broadband access point with GIS (and 40-bit Hexadecimal WEP Key):

```
UK,,London,,,,,"WIFI",,0,0,"PREFIX/","@domain.com",,"GI.1",11,"Example Corp UK
WLAN - Employee Access","MISC","999 Example Corp Road","+44
20.7317.1212","123.4.5.678","http://www.examplecorp.com/support/,,,,,"CorpUK-
Internal","f32de32db7",,,
```

#### Example 7: Wireless (Wi-Fi) Broadband access point with 802.1x using MD5 hashing (no WEP):

```
US,CA,"San
Francisco",,,,,,"WIFI",,0,0,"PREFIX/","@domain.com",,"8021X_MD5",11,"Example Corp
HQ WLAN - Employee Access","MISC","123 Example Corp Lane","(800)555-
1212","123.4.5.678","http://www.examplecorp.com/support/,,,,,"CorpHQ-
Internall",,,
```

#### Example 8: Wireless (Wi-Fi) Broadband access point with 802.1x using TTLS tunneling and PAP (and 40-bit Hexadecimal WEP Key):

US,CA,"San Francisco",,,,"WIFI+802.1x",,0,0,"PREFIX/","@domain.com",,"8021X\_TTLS\_PAP",11,"Example Corp HQ WLAN - Employee Access","MISC","123 Example Corp Lane", "(800)555-1212", "123.4.5.678", "http://www.examplecorp.com/support/", , , , , "CorpHQ-Internal2", "f52de32db7", , ,

**Example 9: Wireless (Wi-Fi) Broadband access point with 802.1x using TTLS tunneling and CHAP (no WEP):**

US,CA,"San Francisco",,,,"WIFI+802.1x",,1,0,"PREFIX/","@domain.com",,"8021X\_TTLS\_CHAP",11,"Example Corp HQ WLAN - Employee Access","MISC","123 Example Corp Lane", "(800)555-1212", "123.4.5.678", "http://www.examplecorp.com/support/", , , , , "CorpHQ-Internal3", , ,

**Media Access Types Table**

Media Access Type	Type Mask ID	Description
SINGLE-ISDN	1	Single-channel ISDN Only (No analog support)
DOUBLE-ISDN	2	Dual-channel ISDN Only (No analog support)
NONE	4	Analog Dial-up
SINGLE	5	Analog Dial up and Single-channel ISDN
DOUBLE	6	Analog Dial-up and Dual-channel ISDN
WIFI	10	Wi-Fi / Wireless (802.11b) Broadband
PHS2.0	80	Old technology of PHS
PHS2.1	100	Advanced technology of PHS
GSM	1000	GSM Dial-up only (No analog support)
NONE+GSM	1004	Analog Dial-up and GSM
SINGLE+GSM	1005	Analog Dial-up and Single-channel ISDN and GSM
DOUBLE+GSM	1006	Analog Dial-up and Dual-channel ISDN and GSM
WIFI+802.1x	1000010	Wireless 802.11b with 802.1x authentication

**Broadband Access Procedure Table**

Access Procedure Description	Procedure_ID
802.1x	8021X
802.1x using LEAP	8021X_LEAP
802.1x using MD5 Hashing	8021X_MD5
802.1x using TTLS and MSCHAP	8021X_TTLS_MSCHAP
802.1x using TTLS and MSCHAP version 2	8021X_TTLS_MSCHAPV2
802.1x using TTLS tunneling and CHAP	8021X_TTLS_CHAP
802.1x using TTLS tunneling and MD5	8021X_TTLS_MD5
802.1x using TTLS tunneling and PAP	8021X_TTLS_PAP
Generic Interface Specification (GIS)	GI.1
None	NONE.1
Wayport	WY.1

**Broadband Site Type Table**

Site Type ID	Description
AIRPORT	Airport lounge or club
HOTEL	Hotel lounge or club
CONVENTION	Convention Center/Meeting Center

Site Type ID	Description
MISC	Miscellaneous Business Location
RESTAURANT	Restaurant/Coffee Shop

## About iPass

iPass Inc. delivers enterprises simple, secure and manageable connectivity services for mobile workers as they move between office, home, and remote locations. iPass combines its global network of dial-up, Ethernet and the world's largest Wi-Fi footprint with support for campus wireless LANs and home broadband connections to deliver a unified and comprehensive solution. The award-winning iPassConnect™ user interface, centralized management, leading security features and powerful policy enforcement have made iPass services the choice of hundreds of Global 2000 corporations including General Motors, Dow Corning and Underwriters Laboratories. Founded in 1996, iPass is headquartered in Redwood Shores, California, with offices throughout North America, Europe and Asia Pacific

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