



iPass Billing Process

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TABLE OF CONTENTS

Overview	4
Billing Process	4
Invoices	4
Payments	4
Terms and Conditions	4
The Billing Cycle	5
Open Mobile Portal	6
Invoices and Payments	6
Invoice History	6
Aging Balance.....	7
Payment History	7
Payment Methods.....	8
Billing Reports Summary	9
Call Detail Record	15
CDR Fields	15
Local Time	17
Sample Dial CDRs	17
Local Dial	17
All Cities.....	17
Toll-free.....	18
Mobile Data Usage File Format	18
Global Broadband Roaming Billing	20
Daily Cap	20
Daily Cap Structure	20
Service Type	20
General GBR Billing Guidelines	20
GBR Billing Scenarios	21
Table 1: Net Billing Amount and Service Type Values.....	21
Sample Broadband CDRs	22



TABLE OF CONTENTS

Daily Sessions22
Trans-Day Sessions23
T-Mobile Connections.....26

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Overview

iPass uses a comprehensive online billing system with an easy-to-use interface that lets you review and print all of your billing records from the Open Mobile Portal. You can also download the records in a file format for merging with your favorite financial application.

Billing Process

Whenever a user connects to an iPass service, usage is tracked in real time through its billing system, which generates Call Detail Records (CDRs) and other reports based on whether you are a *Customer* or *Network supplier*.

Customers owe payment to iPass for their remote access usage. The amount of payment is based on the length of the end user session and the iPass rate for the location where the service is used.

Network suppliers are entitled to payment from iPass whenever a user accesses the iPass service through their physical network. The amount of payment is calculated based on the length of the end-user session and the negotiated rate between the Network supplier and iPass.

Invoices

iPass posts monthly customer invoices and network supplier vouchers on the Open Mobile Portal by the fifth business day of each month. The accounts-payable contact is then emailed with a notification that the bill has been prepared.

Payments

You may pay your invoices or monthly bill by wire transfer, bank check, credit card, or ACH (automated clearinghouse). The details are provided at the bottom of your statement.

Terms and Conditions

All invoices and monthly bills are due and payable within 30 days from the date of iPass' applicable invoice or payment terms contractually agreed upon. All prices and charges stated are exclusive of value-added tax, sales tax, excise tax, gross receipts tax and any similar tax that may be applicable. iPass Resellers and direct customers are responsible for paying all such taxes, if applicable. iPass reserves the right to amend these terms and conditions from time to time as required by market conditions.

■ *Refer to your contract for notification requirements.*



The Billing Cycle

Standard iPass services are billed by calendar month, beginning on the 1st of the month.

iPass posts customer invoices and monthly CDR files by the end of the fifth business day of each month, and your Accounts Payable contact is emailed with notification.



Open Mobile Portal

Billing information is found under the **Accounts** tab in **Invoices and Payments**.

Invoices and Payments

The screenshot shows a sidebar menu titled "Invoices & Payments". It contains several sections with links:

- Invoices & Payments**
 - [Invoice History](#)
 - [Payment History](#)
 - [Account Balance](#)
- CDR & Supporting Reports**
 - [CDRs](#)
 - [Network & Client Users](#)
 - [View CDRs on portal.ipass.com](#)
- Sales Tax & Other**
 - [Sales Tax](#)
 - [Payment Methods](#)

The **Invoices and Payments** section allows you to view the financial details of your iPass account.

Invoice History

The screenshot shows the "Invoice History" page. At the top, it says "Invoice History" and "View invoice summary for a chosen period and access invoice details by selecting the appropriate links". Below this is a breadcrumb: "Invoices & Payments > Invoice History".

There is a summary box with "Invoice History" and "Company id: 102 Company Name: IPASS INC.". To the right, there are tabs for "Current" and "Archive", and date pickers for "From: 05/01/2013" and "To: 05/31/2013" with a "Go" button.

Below the summary, there are two tabs: "Invoices" (selected) and "Vouchers". Under the "Invoices" tab, there is a table with the following columns: Invoice Date, Invoice Number, Due Date, Amount, and Actions. The table is currently empty.

The **Invoice History** page displays all invoices or vouchers with iPass. By default, the page displays invoices and vouchers for the current month, but you can use the calendar control to specify a date range.

Invoices and vouchers can be sorted by number, due date, and amount.

You can view the details of invoices and vouchers by selecting that action from the drop-down list. If the option is available, you can also view the payment history of invoices or download the PDF of invoices and vouchers.

Billing Reports Summary

A range of reports supplement your invoice information available on the Open Mobile Portal. Unless noted, each of these files is posted to the Open Mobile Portal on the 5th day of the calendar month.

Report Name	Filename	Description
Daily Call Detail Records (CDRs) Adjustments	adjcdr.dd-Mon-yyyy	<p>Contains adjustments and corrections to transactions which originally occurred in previous days.</p> <p>Identical in format to the monthly CDR file. See CDR File Format for more information.</p> <p>If there is no data to generate, then this report file will have a line of text that says "no data".</p>
Daily Call Detail Records (CDRs)	cdr.dd-Mon-yyyy	<p>Typically, daily CDRs are used for detecting URA (Unusual Roaming Activity), which can be helpful in determining illicit or fraudulent usage.</p> <p>Daily CDR files are not suitable for billing purposes because they do not contain transaction credits (reversals).</p> <p>Identical in format to the monthly CDR file. See CDR File Format for more information.</p> <p>If subscribed, posted daily @ 0500 GMT.</p> <p>If there is no data to generate, this report file will have a line of text that says "no data".</p>
Location Summary	location_summary.xls	<p>Summary of users, sessions, minutes, cost from pricing region down to a particular location.</p> <p>Available for all Direct customers. Microsoft Excel format.</p>

Report Name	Filename	Description
Mobile Data Adjusted CDR Report (for UK Network)	md_uk_networka_adjcdr.html	Reports any adjustments made in the current month for prior period transactions, for Mobile Data UK Network customers.
Mobile Data Adjusted CDR Report (for US Network A)	md_us_networka_adjcdr.html	Reports any adjustments made in the current month for prior period transactions, for Mobile Data US Network A customers. If there is no data to generate, this report file will have a line of text that says "no data".
Mobile Data Adjusted CDR Report (for US Network B)	md_us_networkb_adjcdr.html	Reports any adjustments made in the current month for prior period transactions, for Mobile Data US Network B customers.
Mobile Data Fixed Charges Report (for Mobile Data UK Network)	md_uk_fixedcharges.html	Details the usage of registered Mobile Data UK Network cards in the current billing cycle. The total number of cards listed in this report, times the contract rate for Mobile Data service results in the line item charge on your invoice for the iPass Mobile Data service. This file will appear in the billing directory for the customer ID that is responsible for the invoice from iPass. If an iPass customer or partner has child accounts, this file will be located in the parent account's directory. Report data includes customer ID, card identifier, cardholder name, department, and Mobile Data service type.
Mobile Data Fixed Charges Report (for Mobile Data US Network A)	md_us_networka_fixedcharges.html	Details the usage of registered Mobile Data US Network A cards in the current billing cycle.

Report Name	Filename	Description
		<p>The total number of cards listed in this report by the contract rate for Mobile Data service results in the line item charge on your invoice.</p> <p>This file will appear in the billing directory for the customer ID that is responsible for the invoice from iPass.</p> <p>If an iPass customer or partner has child accounts, this file will be located in the parent account's directory.</p> <p>Report includes customer ID, card identifier, cardholder name, department, and Mobile Data service type.</p>
<p>Mobile Data Fixed Charges Report (for Mobile Data US Network B)</p>	<p>md_us_networkb_fixedcharges.html</p>	<p>Details the usage of registered Mobile Data US Network B cards in the current billing cycle.</p> <p>The total number of cards listed in this report, times the contract rate for Mobile Data service results in the line item charge on your invoice for the iPass Mobile Data service.</p> <p>This file will appear in the billing directory for the customer ID that is responsible for the invoice from iPass.</p> <p>If an iPass customer or partner has child accounts, this file will be located in the parent account's directory.</p> <p>Report data includes customer ID, card identifier, cardholder name, department, and Mobile Data service type.</p>
<p>Mobile Data Usage Report (for Mobile Data UK Network)</p>	<p>md_uk_networka_cdr.html</p>	<p>Contains Mobile Data service CDRs for Mobile Data UK Network</p>

Report Name	Filename	Description
		<p>customers.</p> <p>Provided only for informational purposes and not used in reconciling monthly charges.</p> <p>See Mobile Data Usage File Format for more information.</p>
<p>Mobile Data Usage Report (for Mobile Data US Network A)</p>	<p>md_us_networka_cdr.html</p>	<p>Contains Mobile Data service CDRs for Mobile Data Network customers.</p> <p>Provided only for informational purposes and not used in reconciling monthly charges.</p> <p>See Mobile Data Usage File Format for more information.</p> <p>If there is no data to generate, this report file will have a line of text that says "no data".</p>
<p>Mobile Data Usage Report (for Mobile Data US Network B)</p>	<p>md_us_networkb_cdr.html</p>	<p>Contains Mobile Data service CDRs for Mobile Data Network B customers. Provided only for informational purposes and not used in reconciling monthly charges.</p> <p>See Mobile Data Usage File Format for more information.</p>
<p>Monthly Adjustment Call Detail Records (CDRs)</p>	<p>adjcdr.html</p>	<p>Contains adjustments and corrections to transactions which originally occurred in previous months.</p> <p>Identical in format to the monthly CDR file. See CDR File Format for more information.</p> <p>If there is no data to generate, this report file will have a line of text that says "no data".</p>
<p>Monthly Call Detail Records</p>	<p>cdr.html</p>	<p>Contains a record of all</p>

Report Name	Filename	Description
(CDRs)		connections for the given time period. See CDR File Format for more information on the CDR file format. If there is no data to generate, this report file will have a line of text that says "no data".
Price Plan Report	priceplan.html	Contains the iPass billing code and the associated rate value for each group of access points in the iPass network.
Record Count Report	reccount.html	Shows the number of reports and the name of each report contained in monthly or daily billing files. Daily files posted every day at 0500 GMT; monthly files posted on day 5 of the calendar month.
Regional Summary	regional_summary_country.xls	Summary of users, sessions, minutes, cost by pricing region and country. Available for all direct customers. Microsoft Excel format
Service Provided Report	service.html	Contains information about iPass traffic on your network. These transactions will be credited to your account in a separate provider invoice. Available only to Solution Partners or Internet Carriers.
Top Records Summary	top_records_summary.xls	Top 10 percent most expensive records. Available for all direct customers. Microsoft Excel format
User Detail Report	user_detail.xls	Detailed usage information by user. Available for all

Report Name	Filename	Description
		direct customers. Microsoft Excel format
User Summary by Access Type Report	user_summary_access_type.xls	Summary of sessions, minutes cost by user and access type. Available for all direct customers. Microsoft Excel format
User Summary Report	user_summary.xls	Summary of sessions, minutes, cost by user. Available for all direct customers. Microsoft Excel format

Call Detail Record

The Call Detail Record (CDR) is a comma-delimited ASCII text file containing detailed information on every connection made by roaming users. There are four types of CDR files:

- Daily CDR (cdr.dd-Mon-yyyy)
- Daily CDR Adjustments (adjcdr.dd-Mon-yyyy)
- Monthly CDR Adjustments (adjcdr.html)
- Monthly CDR (cdr.html)

All CDR files share the same format but contain different information. Each record in the CDR file represents a billable event and a billable event can represent a whole transaction or part of a transaction. Each line in the CDR file includes these fields:

"Transaction ID", "Billing Code", "User ID", "Authentication Domain",
 "Description", "GMT Time", "Local Time", "Length of Session", "Billing Rate", "Net
 Billing Amount", "Access Type", "Service Type"

Character strings are surrounded by double quotation marks. Numeric fields may include a decimal point.

CDR Fields

CDR Field	Max Length (characters)	Description
Transaction ID	32	<p>Unique identifier for each transaction. It may be used for matching transaction records with other reports, and for identifying transactions while investigating problems.</p> <p>A session can generate multiple billable events. The billable events that belong to the same transaction are tied together using this identifier. While this number is unique per transaction it is not unique across the report file if a transaction generates multiple billable events.</p>
Billing Code	32	Used internally by iPass.
User ID	256	User's login ID.
Authentication Domain	128	Authentication domain specified by the user when connecting. It is normally identical to the corporate authentication domain, but may be different if an over-qualified domain name is used (for example, mail.sales.example.com instead of example.com).
Description	80	Description of the location at which service is provided. Use this field to include a location description in your

CDR Field	Max Length (characters)	Description
		<p>own statements. Description has the following format.</p> <p>ISO country code, city, special usage and state.</p> <p>Special usage includes keywords to indicate toll-free numbers(Toll-free-ZZ, where ZZ is the two letter ISO country code), or the use of high speed broadband (BrdBnd).</p>
GMT Time	N/A	The GMT when the event is completed (that is, event end time). Used by iPass for internal processing purposes, such as determining which month a transaction occurred in. This is a fixed-length character string with format DD-Mon-YYYY HH:MI:SS.
Local Time	N/A	The Local Time when the event is completed. This is a fixed-length character string with format DD-Mon-YYYY HH:MI:SS. Used for informational purposes only. See Local Time for more information on the Local Time field.
Length of Session	N/A	Indicates the duration of an event, in seconds.
Billing Rate	N/A	This field is used in conjunction with the Service Type field. It shows an Hourly Rate if the Service Type contains "usage" and a Rate per Transaction if Service Type contains "trans" (transaction).
Net Billing Amount	N/A	For direct customers, this is the net cost for the connection. For suppliers, this is the list price for the connection. This amount can be a negative value if it represents a credit in the daily and monthly adjcdr files.
Access Type	32	Indicates the technology used to access the network. Sample values for this field are DIAL (for dial-up, ISDN, and PHS), WIFI (for WLAN connections) and ENET (for Ethernet connections).
Service Type	32	Shows that the call is rated. Sample values for this field are usage, daily_usage, daily_usage_cap, monthly_usage, monthly_usage_cap, trans, daily_trans, daily_trans_cap, monthly_trans and

CDR Field	Max Length (characters)	Description
		monthly_trans_cap. See Service Type for an explanation of the Service Type field for Global Broadband Roaming.
Network Code	N/A	This number represents an internal iPass network code. In most cases, this field should be blank.
Usage	N/A	Data usage in bytes.

Local Time

iPass resolves local time as best as possible, based on the data from access providers. However, Local Time is only used for informational purposes and is useful in working with end-users to troubleshoot or explain usage. Local time is not used in any accounting procedures for a number of reasons like:

- A real-time RADIUS data stream may not contain accurate information necessary to resolve Local Time (or may contain no local time data at all).
- Because of local events or timekeeping policies, local time zones may become out of sync with GMT (Greenwich Mean Time). For example, Australia recently deferred their imposition of Daylight Savings Time, due to the Commonwealth Games, with only six months notice.
- For some access methods, the concept of "local time" has little or no meaning. For example, with US toll-free dial access; there is no local time zone to use.

Sample Dial CDRs

Charges for dial access are assessed at a simple hourly usage rate. Local calls and All-Cities calls are assessed at the same rate, while toll-free charges are slightly higher. In these examples, the Access Type is always "DIAL", the Service Type is always "usage", and any special usage indicators are included in the **Description** field.

Local Dial

```
"073:12008873","148802","username","example.com","IN,India","06-May-2005 07:19:00","06-May-2005 12:49:00","308","12.16","1.04","DIAL","usage"
"053:24514720","150306","username","example.com","AU,Sydney,NSW","08-May-2005 06:50:00","08-May-2005 16:50:00","143","7.48","0.3","DIAL","usage"
```

All Cities

```
"051:27298272","149546","username","example.com","NL,All Cities-NL","08-May-2005 12:24:00","08-May-2005 14:24:00","155","7.48","0.32","DIAL","usage"
```

Toll-free

```
"082:25251701","149114","username","example.com","UK,TOLLFREE-UK",
"09-May-2005 17:38:00","09-May-2005 18:38:00",
"5945","18.72","30.91","DIAL","usage"
"051:27259220","148544","username","example.com","US,TOLLFREE-US",
"10-May-2005 00:51:00","09-May-2005 17:51:00",
"34","17.78","0.17","DIAL","usage"
```

Mobile Data Usage File Format

Like the CDR, each of the Mobile Data Usage reports is a comma-delimited ASCII text file. (Each of the three network reports has the identical format.) Each line in the report represents a single connection and includes these fields:

"Transaction ID", "Billing Code", "User ID", "Authentication Domain", "Service Description", "Location Description", "GMT Time", "Local Time", "Length of Session", "Billing Rate", "Net Billing Amount", "Access Type", "Service Type", "Quantity", "Measure", "Subscriber Number", "Cardholder Name", "Department", "Country", "Card Type", "Card Identifier", "Card Id HEX", "SIM Type", "SIM Identifier", "Card Identifier1 Type", "Card Identifier1 Val", "Card Identifier2 Type", "Card Identifier2 Val", "Roaming Code"

Character strings are surrounded by double quotation marks. Numeric fields may include a decimal point.

FIELD NAME	DEFINITION
Transaction ID	Contains a unique identifier for each transaction. The value is always "MDR:" plus a sequence number.
Billing Code	Blank field used by iPass.
User ID	Blank field used by iPass.
Authentication Domain	Blank field used by iPass.
Service Description	Brief description of the Mobile Data service. Possible values include: <ul style="list-style-type: none"> ■ Mobile Data Service - US Network A ■ Mobile Data Service - US Network B ■ Mobile Data Service - UK
Location Description	Description of the location where the call is originated. (Will be blank if no information is available.)
GMT Time	Blank field used by iPass.
Local Time	Local transaction time, in the format "DD-MON-YYYY hh24:mm:ss"
Length of Session	Duration of the user's connection. (Will be blank if this information is not available in the carrier's electronic bill file.)
Billing Rate	Blank field used by iPass.
Net Billing Amount	Blank field used by iPass.



FIELD NAME	DEFINITION
Access Type	Type of Mobile Data access: Possible values include EVDO, 1XRTT, HSDPA, UMTS, EDGE, GPRS, VOICE, SMS, OTHER
Service Type	Type of service provided. Possible values include: DATA, VOICE, SMS, and VIDEO. For Mobile data, the value is displayed as "DATA".
Quantity	Total data usage volume during the connection.
Measure	Units of total data usage volume. (KB, MB or Bytes)
Subscriber Number	Used internally by iPass
Cardholder Name	Name provisioned for the card number in the Portal.(Optional)
Department	Department name provisioned for the card number in the Portal. (Optional)
Country	The ISO country code of the country where the call is originated.
Card Type	Type of card identifier. The possible values are ESN and IMEI.
Card Identifier	Primary card identifier. (It is the ESN for service type CDMA, or the IMEI for service type GSM.)
Card Identifier HEX	Hexadecimal conversion of the Card Identifier field.
SIM Type	SIM type. The possible values are IMSI, RUIM , and others
SIM Identifier	The Serial number on the SIM. (IMSI, RUIM value)
Card Identifier 2 Type	Type of the first unique identifier for Mobile Data card.
Card Identifier 2 Val	Value of Card Identifier 2 Type field.
Card Identifier 3 Type	Type of the second unique identifier for Mobile Data card.
Card Identifier 3 Val	Value of Card Identifier 3 Type field.
Roaming Code	The name or code describing type of Roaming. (Will be blank if there is no roaming transaction.)

Global Broadband Roaming Billing

This section explains some of the special considerations associated with billing for global broadband roaming (GBR) services.

- Standard Wi-Fi connections are assessed on a per hour basis, but a maximum charge (daily cap) can be reached.
 - T-Mobile connections differ from the standard Wi-Fi connection charges. In that a Day Use rate is considered and a flat charge is defined for unlimited usage by a single user at one or more T-Mobile venues in North America from midnight to 11:59 P.M. local time.
- Like standard Wi-Fi, charges for Ethernet connections are also assessed on a per hour basis, with a daily cap applied. In addition, a minimum daily usage charge is also applied.

Daily Cap

Daily Cap Structure

The Daily Cap represents the maximum usage charge an individual user will incur for Global Broadband Roaming (GBR) usage at a given access point within a fixed 24 hour period. This fixed 24 hour period can start at any time during the day depending on the how a price plan is set up. An example of a fixed 24 hour period is one that starts from noon (12:00 PM) to noon (11:59 PM) local time at the GBR access point being used. Each unique GBR user will incur usage charges, based on actual session(s) duration, until the Daily Cap is reached. Once the Daily Cap amount is reached within the fixed 24 hour period, usage charges will stop accruing. The user will be charged the fixed Daily Cap. The Daily Cap is not solely a cap on the charge per individual session, but rather a Daily Cap which applies across multiple discrete sessions generated by a unique user within the fixed 24 hour period. A user can use GBR service several times within the fixed 24 hour period. The user's total usage charges across all of these sessions are added together and applied toward the Daily Cap. For example, if the Daily Cap is \$10 and a user generates two sessions at the same GBR venue, and the usage charges for these two sessions are \$8 and \$6 respectively, then the second session will be pro-rated to a charge of \$2 to reflect the \$10 Daily Cap.

Service Type

The CDR Service Type field can have two possible values associated with the daily cap.

General GBR Billing Guidelines

The Net Billing Amount field in each CDR will show the appropriate GBR charge as determined by the session duration, subject to the following Daily Cap considerations:

The Net Billing Amount field for the CDR in which cumulative 24-hour usage charges exceed the Daily Cap will be pro-rated appropriately to reflect the incremental usage charge which reaches the Daily Cap amount.

Subsequent CDRs within the 24 hour period for separate sessions at the same access point by the same user initiated after the user exceeds the Daily Cap will show an amount of \$0 in the Net Billing Amount field.

Trans-day sessions, defined as continuous user sessions which cross the boundary of a fixed 24-hour period (For example, if the boundary start time is 12:00 PM, those which begin before 12:00PM and end after 12:00 PM) will be

divided into discrete records in the CDR file reflecting activity before and after the boundary start time of 12:00 PM. All system counters relating to usage and Daily Cap will be set to \$0 as of 12:00 PM boundary start time.

GBR Billing Scenarios

Tables #1 and #2 show examples of how iPass CDRs will reflect these general guidelines for different usage scenarios. Key fields for attention are the Net Billing Amount and Service Type fields- values for these fields under different scenarios are shown in Table #1 below. Detailed examples with full CDRs appear in the following sections of this document.

Table 1: Net Billing Amount and Service Type Values

Scenario Assumptions

- \$6.00 hourly usage rate
- \$13.50 Daily Cap (=2.25 hours of usage)

Usage Scenario		Session Duration	Resultant Net Billing Amount	Resultant Service Type Value	Comments
User reaches Daily Cap on 1st session	CDR #1	3 hours	\$13.50	daily_usage_cap	CDR #1 pro-rated to Daily Cap amount. Subsequent CDRs show \$0 amount.
	CDR #2	1 hour	\$0.00	daily_usage_cap	
User reaches Daily Cap on 2nd session	CDR #1	2 hours	\$12.00	daily_usage	CDR #1 reflects session length time's hourly usage rate. CDR#2 pro-rated to Daily Cap. CDR#3 reflects cap being reached in earlier session.
	CDR #2	1 hour	\$1.50	daily_usage_cap	
	CDR #3	2 hours	\$0.00	daily_usage_cap	
Daily Cap not reached	CDR #1	45 min.	\$4.50	daily_usage	CDR #1 and CDR #2 reflect session length time's hourly usage rate. No pro-rating as Daily Cap not reached.
	CDR #2	30 min.	\$3.00	daily_usage	

As seen in Table #1, there are three different scenarios for a given CDR based on whether the user (1) does not reach the Daily Cap in that session; (2) reaches the Daily Cap in that session; or (3) had reached the Daily Cap in an earlier session. Each of these scenarios creates a different combination of values in the Net Billing Amount and Service Value fields.

Each of these scenarios creates a different combination of values in the Net Billing Amount and Service Value fields in the CDRs as shown.

Scenario	Usage Scenario	Resultant Net Billing Amount Value	Resultant Service Type Value
#1	Usage charges for session do not cause user to reach Daily Cap amount	Value reflects usage charge equivalent to duration of session times hourly usage rate	daily_usage
#2	Usage charge for that session cause user to reach or exceed Daily Cap amount	Value reflects pro-rated usage charge which brings users cumulative charge for this session and any previous sessions to Daily Cap amount.	daily_usage_cap
#3	Daily Cap amount reached on previous session.	Value will be \$0.	daily_usage_cap

To count the number of instances in which the Daily Cap was reached, look for the value `daily_usage_cap` in the Service Type field in CDRs which also show a positive (non-zero) amount in the Net Billing Amount.

Sample Broadband CDRs

This section contains some sample broadband CDRs from a variety of billing scenarios.

Daily Sessions

Example Scenario #1 - Usage Amount Exceeds Daily Cap on 1st Usage Session

In this scenario, the user's first session within the 24 hour window is 3 hours in duration, and so usage charges for this session exceed the GBR Daily Cap. The Net Billing Amount for the first session will show the \$13.50 Daily Cap amount, and any subsequent sessions within the 24 hour window will show a value \$0 in the Net Billing Amount field. Scenario Assumptions:

- \$6.00 hourly usage rate
- \$13.50 Daily Cap (=2.25 hours of usage)

Session #1

```
"074:9279811","590725","USERNAME","EXAMPLE.COM","US, Inn at Spanish Bay Hotel ENET BrdBnd,CA","11- Mar-2006 07:55:24","11-Mar-2006 07:55:24","10800","6.0", "13.50"," ENET", "daily_usage_cap"
```

Session #2

```
"073:937684","590725","USERNAME","EXAMPLE.COM","US, Inn at Spanish Bay Hotel ENET BrdBnd,CA","11- Mar-2006 11:17:27","11-Mar-2006 11:17:27","3600","6.0","0. 0","ENET", "daily_usage_cap"
```

Example Scenario #2 - Usage Amount Exceeds Daily Cap on 2nd Usage Session

In this scenario, a user’s first GBR session runs 2 hours. The same user generates a second GBR session for 1 hour from the same access point within the fixed 24 hour period. Usage charges from this second session, when combined with the usage charges from the first session, exceed the Daily Cap amount. The Net Billing Amount for the first session will show a \$12.00 usage charge (=2 hour session @ \$6.00/hour). While the second session of one hour would otherwise incur a \$6.00 Net Billing Amount, applying the full \$6.00 amount would result in a total daily charge exceeding the Daily Cap of \$13.50. Therefore, the Net Billing Amount for the second session will be pro-rated to the incremental amount before the Daily Cap is reached (in this case, a \$1.50 pro-rated charge will apply to Session #2 = \$13.50 Daily Cap - \$12.00 previously applied to Session #1) Scenario Assumptions:

- \$6.00 hourly usage rate
- \$13.50 Daily Cap (=2.25 hours of usage)

Session #1

```
"074:92 79811", "590725", "USERNAME", "EXAMPLE.COM", "US, Inn at Spanish Bay Hotel ENET BrdBnd, CA", "11- Mar-2006 07:55:24", "11-Mar-2006 07:55:24", "7200", "6.0", "12.00", "ENET", "daily_usage"
```

Session #2

```
"073:937684", "590725", "USERNAME", "EXAMPLE.COM", "US, Inn at Spanish Bay Hotel ENET BrdBnd, CA", "11- Mar-2006 11:1 7:27", "11-Mar-2006 11:1 7:27", "3600", "6.0", "1.50", "ENET", "daily_usage_cap"
```

Example Scenario #3 – Daily Cap Not Reached

In this scenario, the user’s first session is 45 minutes, and second session is 30 minutes. As the Daily Cap amount is not reached, both CDRs will simply reflect the call duration times the hourly rate in the “Net Billing” field. Scenario Assumptions:

- \$6.00 hourly usage rate
- \$13.50 Daily Cap (=2.25 hours of usage)

Session #1

```
"074:9279811", "590725", "USERNAME", "EXAMPLE.COM", "US, Inn at Spanish Bay Hotel ENET BrdBnd, CA", "11- Mar-2006 07:55:24", "11-Mar-2006 07:55:24", "2700", "6.0", "4.50", "ENET", "daily_usage"
```

Session #2

```
"073:937684", "590725", "USERNAME", "EXAMPLE.COM", "US, Inn at Spanish Bay Hotel ENET BrdBnd, CA", "11- Mar-2006 11:17:27", "11-Mar-2006 11:17:27", "1800", "6.0", "3. 0", "ENET", "daily_usage"
```

Trans-Day Sessions

Trans-day sessions require special treatment on CDRs. The Daily Cap is measured in a 24 hour period from *noon* to *noon* local time. If a single continuous user session crosses this noon boundary, iPass will show two distinct CDRs for this continuous session reflecting the following considerations:

- The first CDR will reflect usage from the time of session initiation through the noon boundary of the Daily



Cap period. The first CDR may be rated at \$0 or pro-rated appropriately based on previous usage with respect to the Daily Cap.

- The second CDR will reflect usage from noon through the time the user ends the session. The second CDR begins a new rating period with respect to the Daily Cap and will therefore always show an amount in the Net Billing Amount field.
- These CDRs will have the same Transaction ID.
- While iPass will divide this session into two separate CDRs for billing purposes, the end user session itself is not interrupted.

Example Scenario #4 - Usage Amount reached Daily Cap prior to Trans-Day Session

The first CDRs will show usage from the 11 AM session initiation through the noon boundary of 24 hour period used for the Daily Cap. As the user had already reached the Daily Cap limit for the *noon to noon* period covered by the 11AM to noon portion of the session in question, the first CDR will show an amount of \$0 in the **Net Billing** Field. The second CDRs will show usage from noon through 1:30 PM. As this reflects the beginning of a new 24 hour period with respect to the Daily Cap, this session will be rated for 90 minutes of usage from noon to 1:30PM. Scenario Assumptions:

- User initiates a Wired GBR connection at 11 AM (local time) on March 11.
- User ends the Wired GBR connection at 1:30 PM (local time) on March 11.
- User had previously reached Daily Cap amount for the 24 hour period running from March 10 noon through March 11 noon.
- \$6.00 hourly usage rate
- \$13.50 Daily Cap (=2.25 hours of usage)

As described above, two CDRs will be shown for this session.

Session #1

```
"074:9279811", "590725", "USERNAME", "EXAMPLE.COM", "US, Inn at Spanish Bay Hotel ENET BrdBnd, CA", "11- Mar-2006 12:00:00", "11-Mar-2006 12:00:00", "3600", "6.0", "0.0", "ENET", "daily_usage_cap"
```

Session #2

```
"074:9279811", "590725", "USERNAME", "EXAMPLE.COM", "US, Inn at Spanish Bay Hotel ENET BrdBnd, CA", "11- Mar-2006 13:30:00", "11-Mar-2006 13:30:00", "5400", "6.0", "9. 0", "ENET", "daily_usage"
```

Example Scenario #5 - Usage Amount reached Daily Cap during a Trans-Day Session

The first CDR will show usage from the 11:00 AM session initiation through the noon boundary of 24 hour period used for the Daily Cap. Usage within this session causes the user to reach the Daily Cap amount. The Net Billing Amount will be pro-rated as described in Scenario #2 to reflect an amount of \$1.50. The second CDR will show usage from noon through 1:30 PM. As this reflects the beginning of a new 24 hour period with respect to the Daily Cap, this session will be rated for 90 minutes (5400 seconds) of usage from noon to 1:30 PM. Scenario Assumptions:

- User initiates an Ethernet connection at 11:00 AM (local time) on March 11.
- User ends the Ethernet connection at 1:30 PM (local time) on March 11.
- User had previously incurred two hours of usage within the fixed 24 hour period running March 10 noon to



March 11 noon (meaning \$1.50 balance relative to Daily Cap exists).

- \$6.00 hourly usage rate
- \$13.50 Daily Cap (=2.25 hours of usage)

Session #1

```
"074:9279811","590725","USERNAME","EXAMPLE.COM","US, Inn at Spanish Bay Hotel ENET BrdBnd,CA","11- Mar-2006 12:00:00","11-Mar-2006 12:00:00","3600","6.0","1.50","ENET","daily_usage_cap"
```

Session #2

```
"074:9279811","590725","USERNAME","EXAMPLE.COM","US, Inn at Spanish Bay Hotel ENET BrdBnd,CA","11- Mar-2006 13:30:00","11-Mar-2006 13:30:00","5400","6.0","9. 0","ENET","daily_usage"
```

Ethernet: Usage with Daily Minimum and Cap

Charges for Ethernet connections are assessed on a per minute basis, with both a Minimum Usage Charge and a Maximum Daily Cap applied. An Ethernet connection per Day is defined as in use by a user at a single Wired Broadband location from noon to 11:59 A.M. local time. Scenario Assumptions:

- Usage Rate: \$0.10 per minute (or \$6.00 per hour)
- Minimum Use Charge: \$6.00 per user/location/day
- Daily Cap: \$13.50 per user/location/day

Session #1: 27 minute session; Daily Minimum applied

```
"071:38279660","8909533","username","example.com","US,Westin Park Central Hotel ENET BrdBnd Dallas,TX","03-May-2006 01:12:34","02-May-2006 20:12:34","1620","6.0","6.0","ENET","daily_usage"
```

Session #2: 10 minute session; no charges, daily minimum already met

```
"071:38283123","8909533","username","example.com","US,Westin Park Central Hotel ENET BrdBnd Dallas,TX","03-May-2006 03:14:38","02-May-2006 22:14:38","600","6.0","0.0","ENET","daily_usage"
```

Session #3: 63 minute session, usage charges accrue again for last 40 minutes of session

```
"073:38930086","8909533","username","example.com","US,Westin Park Central Hotel ENET BrdBnd Dallas,TX","03-May-2005 04:31:47","02-May-2005 23:31:47","3780","6.0","4.0","ENET","daily_usage"
```

Session #4: 4 minute session, more usage charges accrue

```
"072:38827054","8909533","username","example.com","US,Westin Park Central Hotel ENET BrdBnd Dallas,TX","03-May-2005 04:36:47","02-May-2005 23:36:47","240","6.0","0.4","ENET","daily_usage"
```

Session #5: 81 minute session, daily cap is reached

```
"071:38286087","8909533","username","example.com","US,Westin Park Central Hotel ENET BrdBnd Dallas,TX","03-May-2005 05:57:30","03-May-2005 00:57:30","4860","6.0","3.1","ENET","daily_usage_cap"
```



Session #6: 103 minutes, no charges applied, daily max already met

```
"073:38941689", "8909533", "username", "example.com", "US, Westin Park  
Central Hotel ENET BrdBnd Dallas, TX", "03-May-2005 14:20:14", "03-  
May-2005 09:20:14", "6180", "6.0", "0.0", "ENET", "daily_usage_cap"
```

As with Wi-Fi, the Service Type is "daily_usage" until the daily maximum is reached, and changes to "daily_usage_cap" for each subsequent connection.

T-Mobile Connections

T-Mobile connections differ from the standard Wi-Fi connection charges and in that a Day Use rate is assessed. A Day Use rate is defined as a flat charge for unlimited usage by a single user at one or more T-Mobile venues in North America from midnight to 11:59 P.M. local time. The access type is always "WIFI", while the service type is "daily_trans". These two CDRs represent two connections made to the T-Mobile hotspot in the American Airlines lounge in Los Angeles Airport:

Session #1:

```
"062:74458184", "4539750", "username", "example.com", "US, T-Mobile  
LAX American Airlines AIRPORT WIFI BrdBnd Los Angeles, CA", "25-  
May-2006 18:42:52", "25-May-2006  
11:42:52", "4562", "9.99", "9.99", "WIFI", "daily_trans"
```

Session #2:

```
"062:74459090", "4539751", "username", "example.com", "US, T-Mobile  
LAX American Airlines AIRPORT WIFI BrdBnd Los Angeles, CA", "25-  
May-2006 20:26:04", "25-May-2006  
13:26:04", "1134", "0.0", "0.0", "WIFI", "daily_trans"
```

Note the \$9.99 charge assessed for the first connection while in the airport, and the second connection rated at \$0.00.