

SATbill



Satellite Air-time Billing System

Reduce air-time billing cycles from weeks to days and increase profitability - all in one easy-to-use system

Satellite communications are fast moving and highly complex. To cope with a wide range of air-time arrangements, Symbiosys Business Solutions has designed and developed SATbill, a fully comprehensive and sophisticated Air-time Billing System.

This system enables communications providers to track entire service cycles, from customer order to service provision and invoice payment – **at a fraction of the cost of comparable air-time billing systems.**

Key benefits of SATbill

- Reduce air-time billing cycles from weeks to days
- Single-click billing
- Improve billing accuracy
- Reduce billing resources
- Ensure easy tariff management
- Improve profitability

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Core elements of the System

- Single-click billing.
- Handles time, data (MiB and KB) and event-based (e.g. SMS) calls, including packet data and 256-bit Inmarsat C data.
- Supports D91-style and text-based CDR formats.
- Services covered:
 - Inmarsat BGAN, FBB, SBB and SPS.
 - Inmarsat B, Inmarsat C, Fleet, M, mini-M and M4.
 - Thuraya.
 - Iridium, including Short Burst Data.
- May be configured to handle your own VSAT offerings.
- Full CDR searching and control.
- Contract (post-pay) and Advance Pay tariffs supported. Balance Summaries showing remaining credit are generated for Advance Pay agreements. Invoices are generated for contract agreements.
- Handles all monthly or annual subscription and services activation charges, including part-period charges, if required.
- Handles multiple add-on extra-cost services, such as fixed IP address costs, for monthly or annual charging.
- Invoices and Balance Summaries may be produced in Euros, US dollars or UK Sterling. This is selectable by customer.
- Billing output in PDF format.
- Interfaces are available to standard accounting systems.
- Easy to install and manage.
- Available as single-user or client-server.



The screenshot shows the 'Call Plan Explorer' application window. On the left is a 'Call Plan Tree' with a hierarchical structure of call plans. The main area displays 'Call Plan Details' for 'BGAN-ES-ND'. It includes a 'Summary' tab, a 'Display' section with filters, and a table of call rates. At the bottom are buttons for 'New', 'Child', 'Duplicate', 'Delete', 'Attach', 'Export', 'Destinations', 'Margin Key', 'Save', and 'Cancel'. Numbered callouts 1-10 point to specific elements: 1 (Price Root), 2 (Call Plan Tree), 3 (Summary tab), 4 (Display filters), 5 (Table columns), 6 (New button), 7 (Duplicate button), 8 (Export button), 9 (Table rows), and 10 (Set Selected Rows button).

From	To	UOM	Provider	Zone	Banding	N/A	Rate	Uplift	Uplift %	Min. Volume	Min. Charge	Rounding	Qty.
BGAN Fax	B	Minute	Global				3.000	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	BGN	Minute	Global				0.900	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	Cell	Minute	Global				1.460	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	L	Minute	Global				1.300	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	M	Minute	Global				2.600	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	M4	Minute	Global				2.200	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	N	Minute	Global				2.200	0.00	0.00	0.00	0.00	None	0.00
BGAN Fax	T	Minute	Global				3.300	0.00	0.00	0.00	0.00	None	0.00
BGAN Interactive/Background IP	IP	MIB	Global				8.420	0.00	0.00	0.00	0.00	None	0.00
BGAN ISDN 56	B	Minute	Global				5.500	0.00	0.00	0.00	0.00	None	0.00
BGAN ISDN 56	L	Minute	Global				7.260	0.00	0.00	0.00	0.00	None	0.00
BGAN ISDN 64	B	Minute	Global				5.500	0.00	0.00	0.00	0.00	None	0.00
BGAN ISDN 64	BGN	Minute	Global				7.260	0.00	0.00	0.00	0.00	None	0.00
BGAN ISDN 64	L	Minute	Global				7.260	0.00	0.00	0.00	0.00	None	0.00
BGAN ISDN 64	N	Minute	Global				5.500	0.00	0.00	0.00	0.00	None	0.00
BGAN Multimedia 56	BGNS	Minute	Global				5.500	0.00	0.00	0.00	0.00	None	0.00
BGAN Multimedia 56	BS	Minute	Global				14.000	0.00	0.00	0.00	0.00	None	0.00
BGAN Multimedia 64	M4S	Minute	Global				12.500	0.00	0.00	0.00	0.00	None	0.00
BGAN Multimedia 64	BGNS	Minute	Global				5.500	0.00	0.00	0.00	0.00	None	0.00
BGAN Multimedia 64	BS	Minute	Global				14.000	0.00	0.00	0.00	0.00	None	0.00
BGAN Multimedia 64	M4S	Minute	Global				12.500	0.00	0.00	0.00	0.00	None	0.00
BGAN Packet Data / Background IP	IP	MIB	Global				8.420	0.00	0.00	0.00	0.00	None	0.00
BGAN SMS	SMS	Event	Global				0.610	0.00	0.00	0.00	0.00	None	0.00
BGAN Sync. Streaming data 128	IP	Minute	Global				12.100	0.00	0.00	0.00	0.00	None	0.00

Key features

- 1 Set a fall-back price for every call type using the 'Price Root' and use inherited call plans to dramatically reduce the rate data you need to manage.
- 2 Set subscription, activation and additional charges for any service.
- 3 Create discounts based on specific call usage, or create bundled allowances.
- 4 Set additional prices by provider, source zone, peak/non-peak calls or destination band. Set rates or uplift for each service type and termination. Set minimum call volumes or values and round up calls to any level. Set an alternate call plan for Roaming calls.
- 5 View all customer contracts which use this call plan.
- 6 Easily create new customer plans or duplicate an existing plan.
- 7 View the gross margin you will make on each call.
- 8 Easily export a rate card for any customer.
- 9 See the inheritance of rates: green = inherited white = set at this level.
- 10 Quickly set multiple rates in one go.



The screenshot shows the CDR Explorer application window. At the top, there's a navigation bar with 'Back' and 'Forward' buttons and an address field containing '0906 STRATOS Iridium'. Below this is a 'Load CDR List' section with dropdown menus for 'YYMM' and 'Provider'. The main area is a 'CDR File Details' table with columns for 'Summary', 'Total Values', 'Call Rates', 'CDR Details', 'Load CDR File', and 'CDR Errors'. The table contains multiple rows of call records with columns: IMN, Terminal, Booked, Station, Date, Time, Destination, Reference, UOM, Duration, Vol Out, Vol In, Source, Status, and D. At the bottom, there are buttons for 'Delete', 'Delete Selected Services', 'Recheck entire CDR File', 'View Equ Item', 'Save', and 'Cancel'. A status bar at the very bottom shows 'Page 1 of 1' and 'Show CDR Status All'.

Key features

- 1 Filter the CDR files listed by provider, service or billing year and month.
- 2 View the total incoming, priced and invoiced charges in this CDR file.
- 3 View the incoming call rates for every service type and destination combination in this CDR file.
- 4 View the details of every CDR in this CDR file.
- 5 Quickly and simply load CDR files to the system. CDRs are mediated as they are loaded.
- 6 View all loading and mediation errors for this CDR file.
- 7 Loading maps available for all major suppliers and services.
- 8 Remediate one or more CDRs to reflect changes you have made.
- 9 Display the details of the terminal which made the call.
- 10 View full mediation details, including customer, contract number and the billing documents on which this CDR appears.

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Air-Time Billing & Invoicing Explorer

Terminal Type	Include	Invoice letter	Invoiced To	Last Invoice Date	Summaries To	Last Summary Date
BGAN		B	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat B		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat C		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat F33		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat F55		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat F77		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat FBB		B	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat M		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat M4		I	31/05/09	31/05/09	31/05/09	31/05/09
Inmarsat mini-M		I	31/05/09	31/05/09	31/05/09	31/05/09
Iridium	<input checked="" type="checkbox"/>	R	31/07/09	28/08/09	31/05/09	31/05/09
Regional BGAN		G	31/12/08	31/12/08	31/12/08	31/12/08
Thuraya		T	30/06/09	31/07/09	31/05/09	31/05/09

Key features

- 1 Select which services you wish to bill.
- 2 View a summary of all the CDRs that are awaiting billing.
- 3 View the results of every billing run, including values. Reprint documents from any final billing run.
- 4 View all the invoices which are suppressed due to low invoice value.
- 5 Show all unbillable CDRs so you may take action and clear the errors.
- 6 Re-mediate or price CDRs without generating billing documents.
- 7 Single-click billing.
- 8 Run as many 'draft' billing runs to check the billing, before you commit to a 'final' billing run.
- 9 Generate invoices for post-pay (contract) agreements, and balance summaries for Advance Pay agreements.



Summary of features

- Calls can be rated on any or all of service type (Thuraya RCF GSM Voice, or BGAN Streaming 256, for example), call destination number, call destination band, originating 'zone' of the call, peak/non-peak, roaming status and by provider.
- Calls may be priced either by uplifting incoming CDRs' values by a percentage or by re-rating the calls using a customer's tariff in the normal way.
- Define additional charges for each service (i.e. fixed IP access for BGAN). All additional charges may be discounted if a specific call value or volume is reached in each billing period.
- Full CDR mediation to customer contracts, based on call dates and times.
- 'Go with what you have' billing: late-arriving CDR files or specific CDRs with errors may be automatically picked up in the next billing cycle.
- Optional detailed traffic advice showing each call's details, and summaries by destination, etc.
- Supports minimum call duration, call volume and call cost for each call.
- Supports 'call inclusive' tariffs up to specific values, durations or data volumes.
- Customer tariffs may be dynamically switched based on the billing-cycle call volumes achieved.
- Non-call charges may be reduced based on call values.
- Flexible billing cycle: bill your services at the frequency you wish. Different services (Inmarsat B, Thuraya, etc.) may be billed at different frequencies.
- CDRs in, PDFs and/or paper invoices out.
- Suppress or hold low-value invoices until a minimum value is reached or until the invoices have been held for a maximum time.
- Easy tariff management: overlay tariffs to create customer-specific rates for each service and call termination. SATbill's tariff inheritance makes it possible to use complex or customer-specific tariffs with very little effort.
- Margin management and low-margin alerting: the system will calculate the gross margin of each call and generate alerts if this falls below a tariff-defined level.
- Pricing alerts are generated if you are potentially going to lose money on a call.
- Set subscription and/or activation charges for each air-time service type. Subscriptions may be discounted if a specific call value or volume is reached in each billing period.
- Run each billing cycle as many times as you wish in 'draft' mode to verify the mediation and billing, before committing to a 'final' run to generate customers' billing documents.
- Optional multi-level consolidation of multiple terminals or SIMs (on either a single contract or multiple contracts) to a single customer invoice.
- Optional summary of cost per terminal/SIM for multi-item invoices.
- Sophisticated call volume discounting and 'bundles' supported, including differential pricing of 'out of bundle' calls.

To find out more about the features and benefits of our Satellite Air-time Billing System, call us today on + 44 (0) 1260 281700 or email: info@symbiosys-bs.co.uk



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