



RUDICS and Short Burst Data Training



RELIABLE • CRITICAL • LIFELINES

Training Agenda

- RUDICS
 - What is it?
 - Terminology
 - Hardware
 - Common uses
 - Account setup
- Short Burst Data
 - What is it?
 - Terminology
 - Hardware
 - Common Uses
 - Account setup

RUDICS Service Overview

- Router-based Unrestricted Digital Information Connectivity Solution
- Mobile Originated [MO] and Mobile Terminated [MT] circuit switched data connectivity for integrated data applications
- System intended for applications with a large number of fielded units
- Enables a host application to originate and terminate numerous connections simultaneously
- Fastest on/off time of any Iridium CSD connection
- Provide a variety of connection possibilities
 - Standard socket based MO or MT connections
 - PPP connections; single or multiple channel setups (MLPPP)

RUDICS – Key Benefits

- Security. Only group members are allowed to connect.
 - Device must call the special “group” number 8816 0000 xx
 - The MSISDN of the calling unit is validated before access is granted
 - Reduces the need for username/password verification
- Faster connection speed
 - ~25 to 30 seconds for ISU-PSTN or ISU-ISU circuit switched data
 - ~9 to 13 seconds for RUDICS (End-to-end)
- Most efficient CSD connection maximizes data throughput
- Protocol independence - No OS or TCP/IP requirements (standard RUDICS)

RUDICS – Support Hardware

- Handsets
 - 9500
 - 9505
 - 9505A
 - 9555
- L-Band Transceivers
 - 9522
 - 9522A
 - 9522B
- LBT Based VAM products

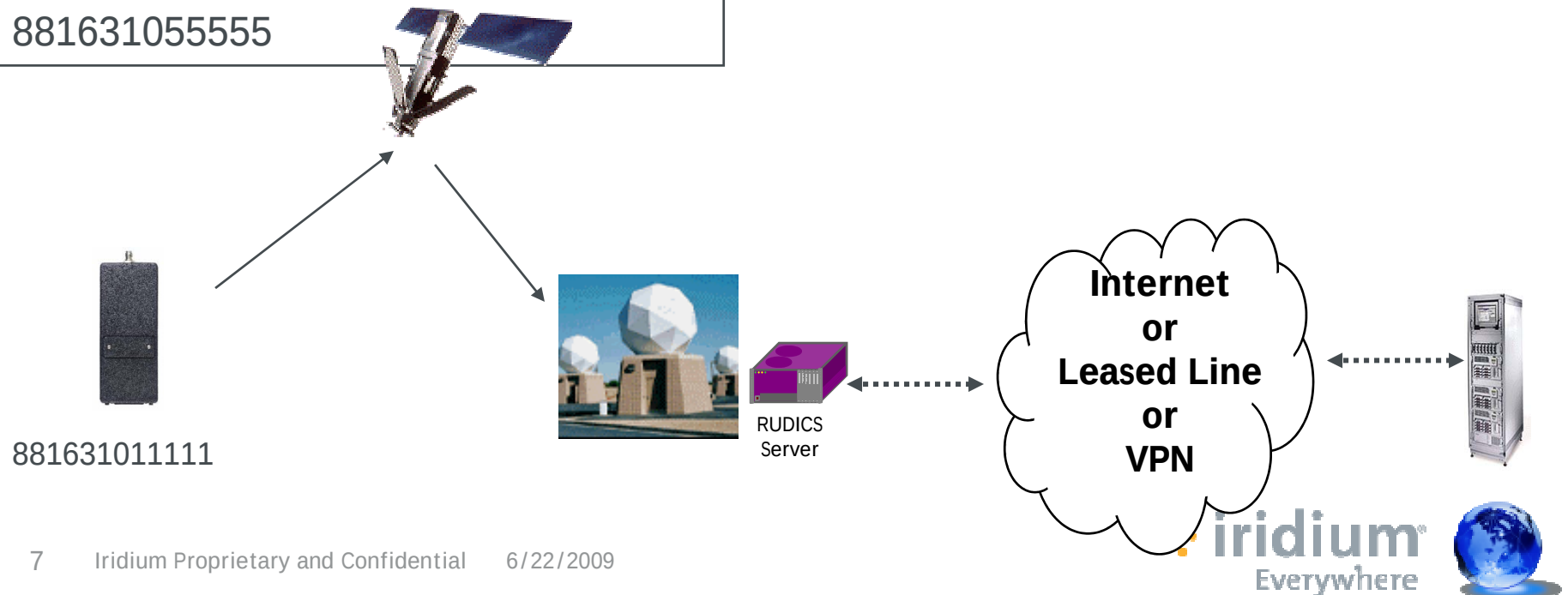
RUDICS – Basic Connection Scenarios

- Connection methods
 - RUDICS Standard
 - Custom “dumb” devices that do not require a TCP/IP stack
 - Mobile originated and mobile terminated
 - Connect to a remote host via the Internet, VPN or leased line
 - TCP/IP device with PPP capability
 - Mobile originated only
 - Connect to the Internet
 - TCP/IP device with multi-link PPP capability
 - Mobile originated only
 - Connect to the Internet

RUDICS - Standard RUDICS Example (MO)

Group: TEST_STD
DNIS: 88160000999
Destination IP: 12.12.12.10 port 1250
Members (CLID):
881631011111
881631022222
881631033333
881631044444
881631055555

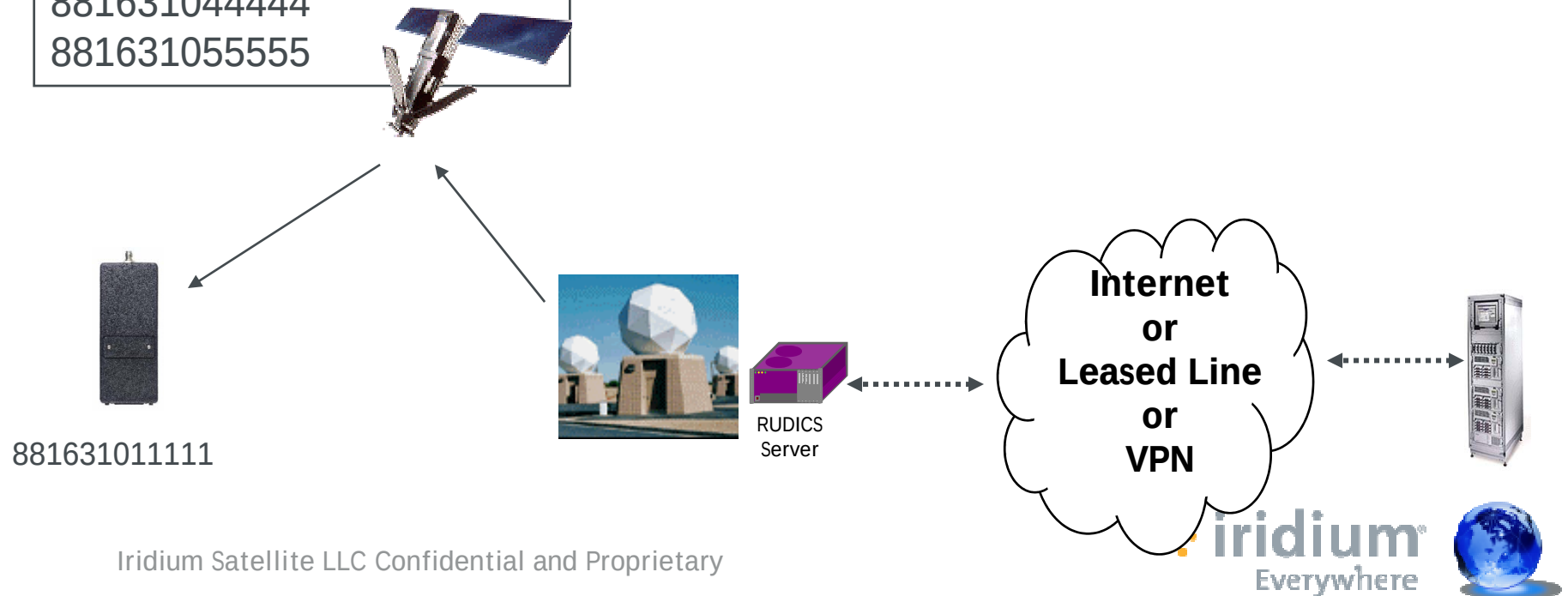
1. Call is placed and routes to gateway
2. Switch passes CLID and DNIS to RUDICS router
3. Router matches CLID against DNIS
 - If no match, the call fails
4. Matched DNIS and CLID gets routed to destination IP



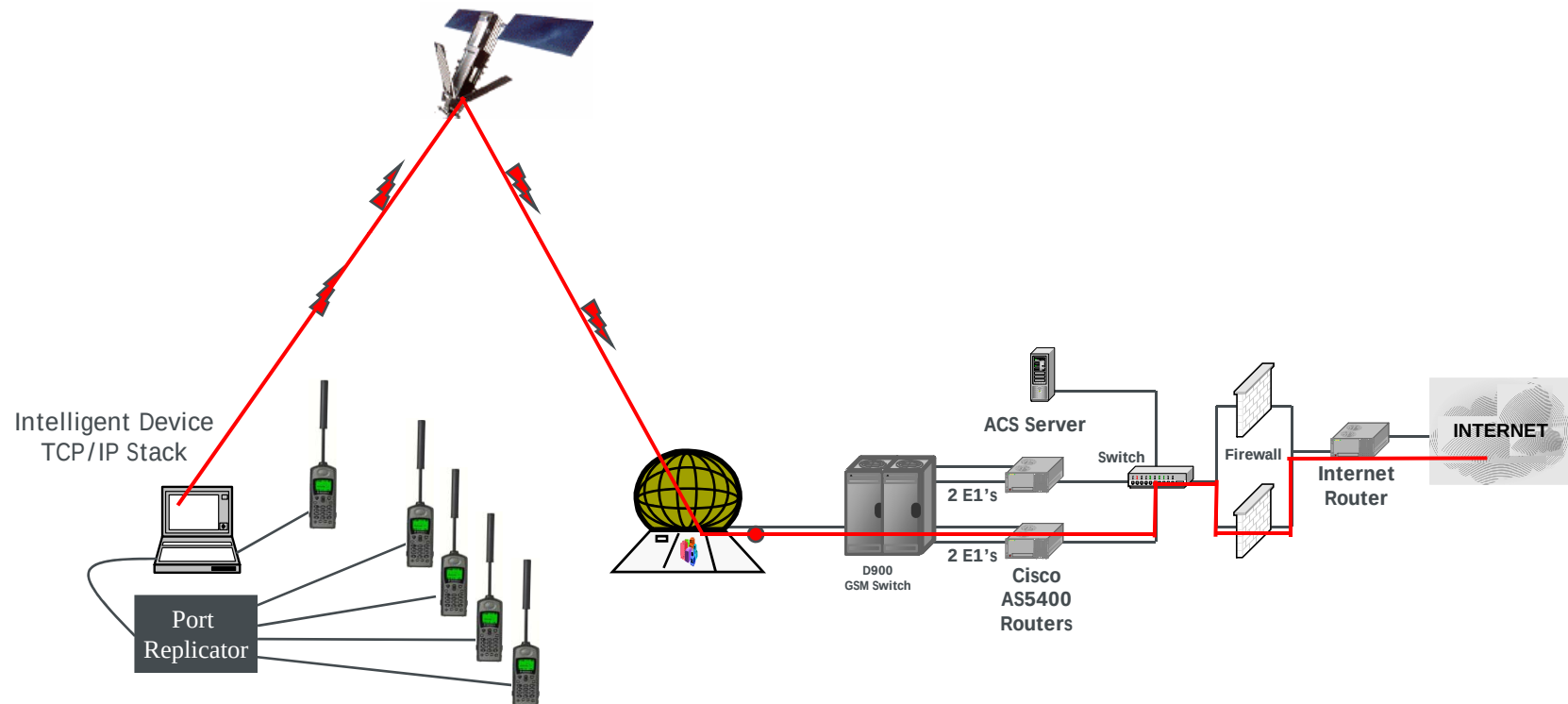
RUDICS - Standard RUDICS Example (MT)

Group: TEST_STD
DNIS: 88160000999
Originating IP: 12.12.12.10
Members (CLID):
881631011111
881631022222
881631033333
881631044444
881631055555

1. Host server establishes telnet session to router
*Extra steps needed to set bearer service
1. Router matches IP address against config IP address
2. Valid combination allowed to place call
3. ATDT00881692911111 (use MSISDN-C for MT calls)



RUDICS - PPP/MLPPP Connection Flow



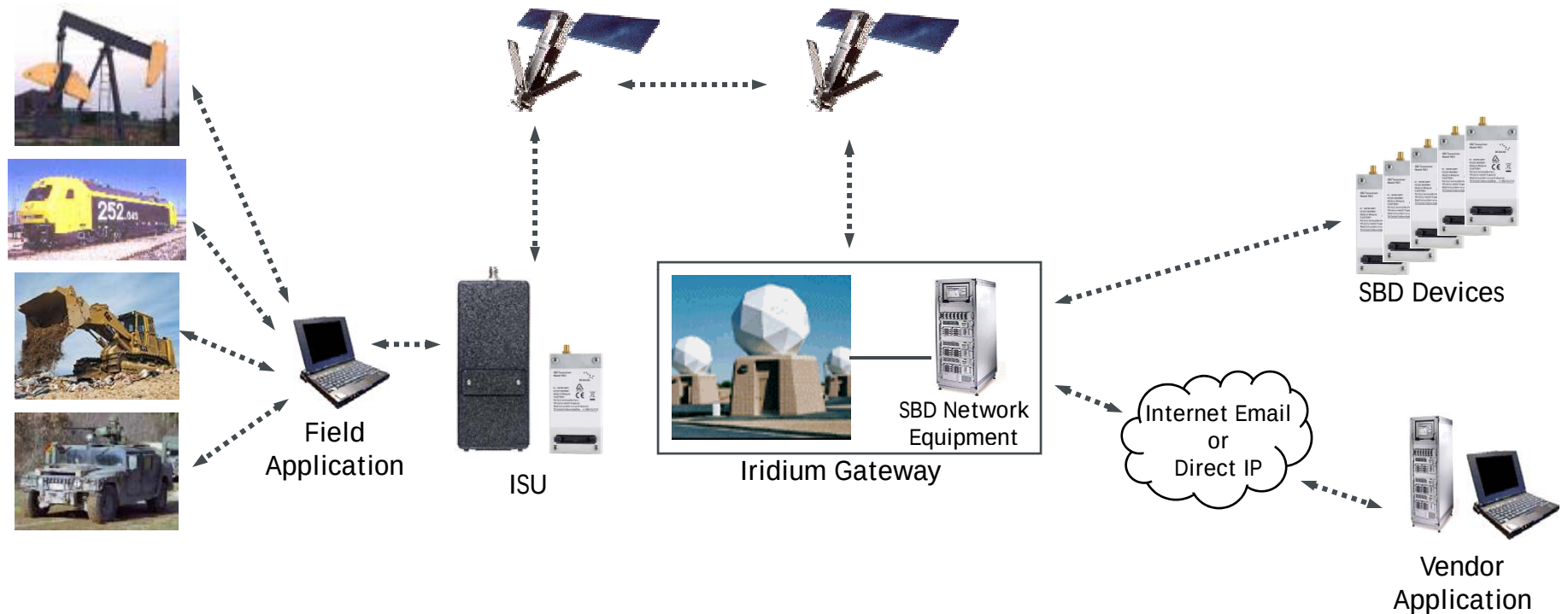
RUDICS - Setup

- Need to fill out RUDICS setup form and submit to Iridium Account Manager
 - VAR fills out form according to the type of RUDICS connection they are looking to setup
 - If doing a RUDICS standard connection, must specify if MT connections will be made.
 - If calling MT, must provide originating IP address
 - Form submitted to network engineering
 - Group is set up in router
 - DNIS (dial-in number assigned)
 - Group added to SPNet
 - Demo account also available at no additional cost
 - Demo group set up for testing and development
 - Only demo SIM cards can be used in demo RUDICS account

RUDICS - Provisioning

- Limitation
 - Prepaid SIM card cannot be used with RUDICS
- Must select a service package with RUDICS
- Must select RUDICS group name

Short Burst Data (SBD) System Overview



- SBD is an efficient, packet-based service for frequent short data transmissions
- Used primarily for tracking and monitoring in remote locations
- Also used for SSAS (Ship Security Alert System) compliance

Short Burst Data (SBD) Hardware

- Supported devices
 - 9505
 - 9522
 - 9505A
 - 9555
 - 9522A
 - 9522B
 - 9601
- Computing device
 - Usually a small tracking application
 - Not operating system dependent
 - Utilize AT commands to communicate with ISU
 - Sometimes integrated with GPS

Short Burst Data (SBD) Service Details

- Service and billing based on IMEI of device
 - SIM used to register device (LBT and handsets)
 - 9601 does not use a SIM card
- Billing based on bytes, not airtime
- Messages can be delivered to:
 - Up to 5 email addresses (Email delivery)
 - Up to 5 IP addresses (Direct IP)
 - Up to 5 other ISU's (ISU to ISU)

*Delivery methods can be in any combination of above, 5 total max.

Short Burst Data (SBD) Service Details - Message size

- LBT/Handset (Firmware IS06001 or newer)
 - Mobile Originated
 - 1960 bytes
 - Mobile Terminated
 - 1890 bytes
- 9601 (Firmware TD06002 or newer)
 - Mobile Originated
 - 340 bytes
 - Mobile Terminated
 - 270 bytes



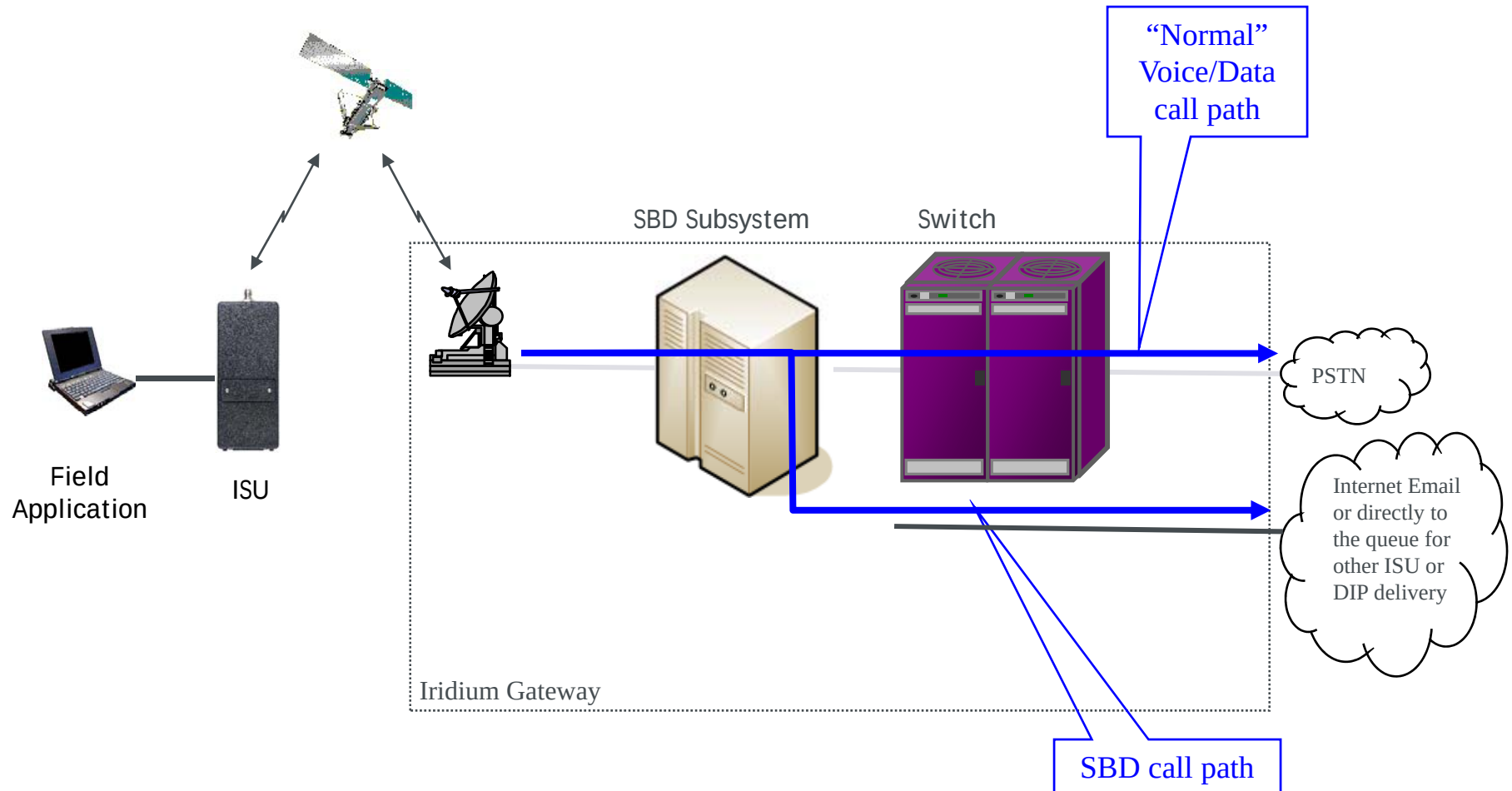
Slide 15

JS1

verify byte limits

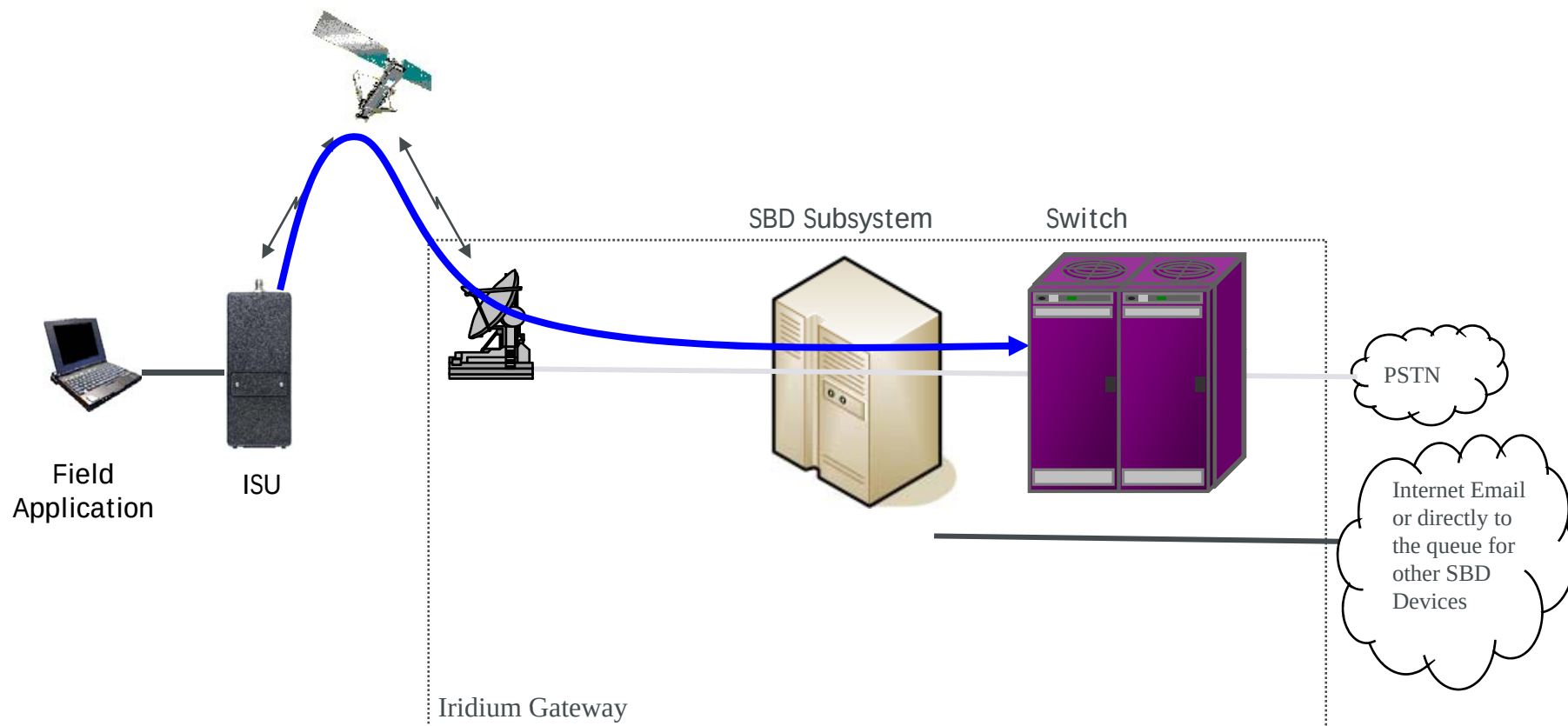
Jason Stygar, 6/1/2009

Short Burst Data (SBD) Architecture Overview



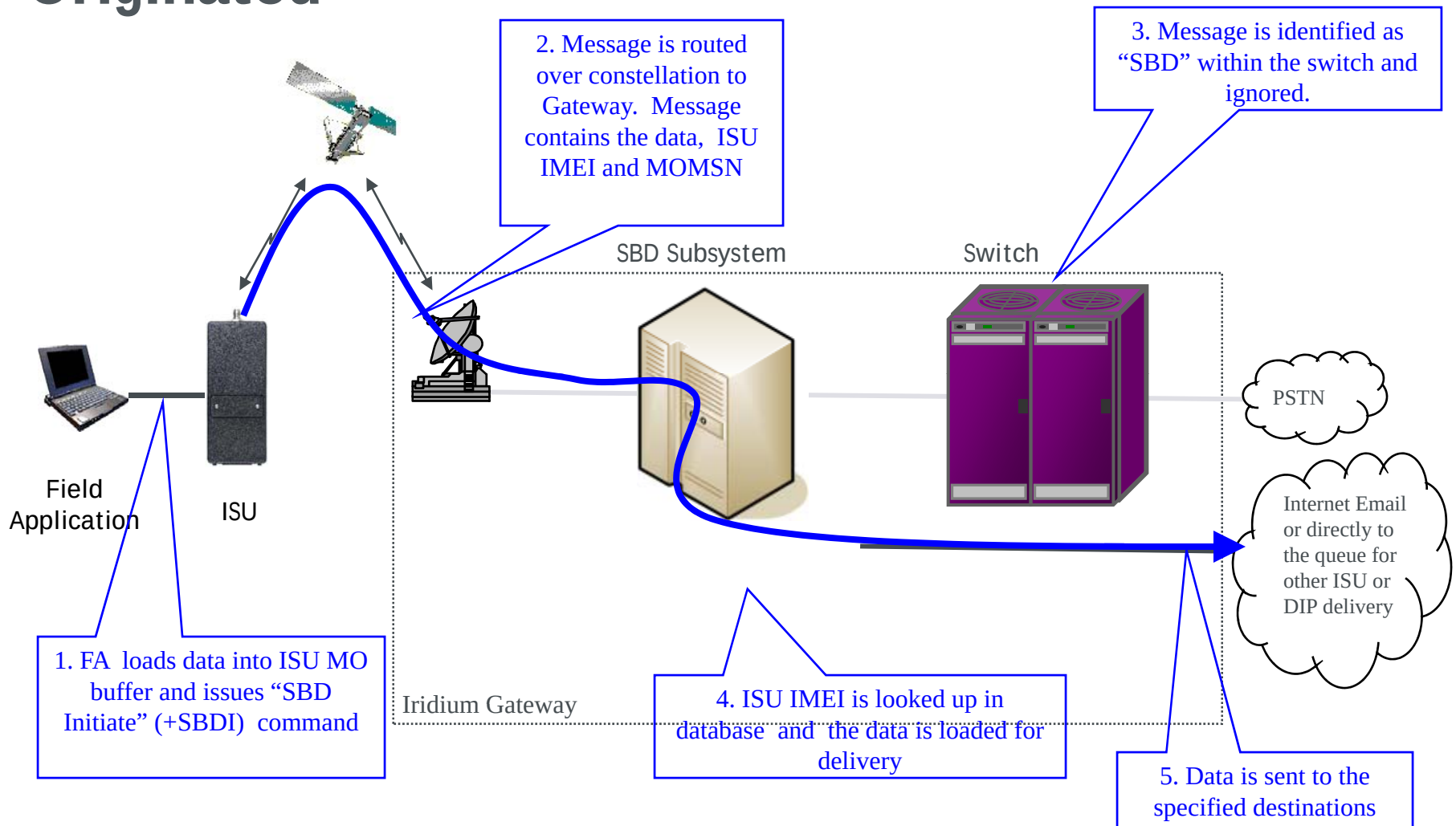
Short Burst Data (SBD)

System Overview Step 1: Registration



All ISU except 9601 **MUST** contain an active SIM card. This allows the device to register with the Switch. If the device is not registered, it will not perform any type of call, including SBD.

Short Burst Data (SBD) Call Path - Mobile Originated



The data is delivered to the destinations that were provisioned for this particular IMEI, either as an email attachment, directly into the mobile terminated queue of another ISU, or to the specified IP address.

Short Burst Data (SBD)

MO Message Scenario

Example of email delivered as a result of MO message:

From: sbdservice@sbd.iridium.com [<mailto:sbdservice@sbd.iridium.com>]
Sent: None
To: datasupport@iridium.com
Subject: SBD Msg From Unit: 300001001655280

MOMSN: 74
MTMSN: 0

MOMSN – Mobile Originated Message Sequence Number (0-65535)
MTMSN: Mobile Originated Message Sequence Number (0-65535)

Time of Session (UTC): Fri Apr 23 15:00:36 2009

Session Status: TRANSFER OK

Message Size (bytes): 39

Status: TRANSFER OK, INCOMPLETE
CALL, SBD DENIAL, SBD TIMEOUT)

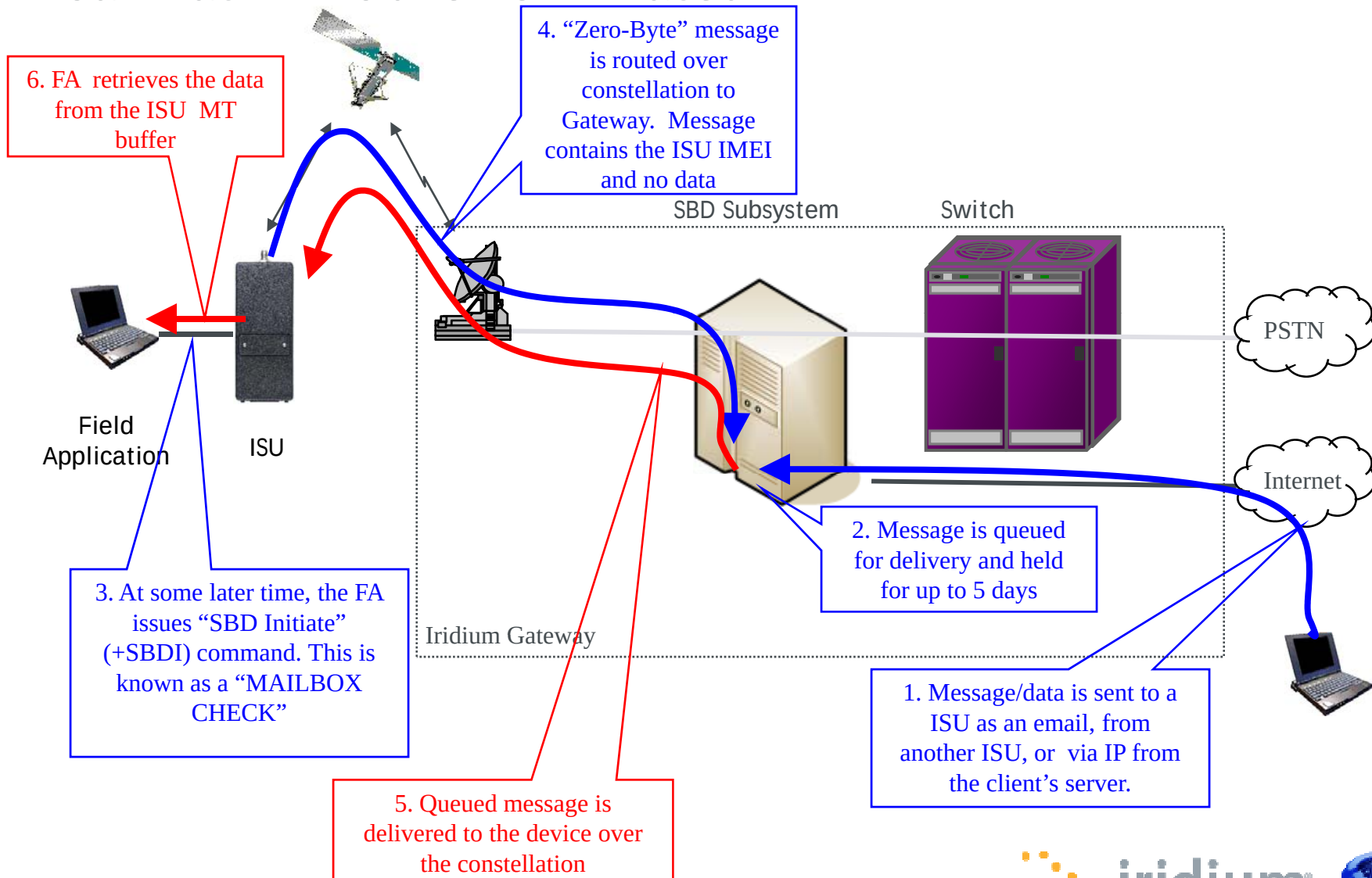
Unit Location: Lat = 33.317128 Long = -111.873189

CEPradius = 2

Message is Attached.

CEPradius – Provides an estimate of accuracy of the unit location in kilometers. Estimate is accurate 80% of time. **Note:** Unit Location and CEPradius info can be included or excluded on a device-by-device basis using SPNet.

Short Burst Data (SBD) Call Path - Mobile Terminated



Short Burst Data (SBD)

MT Message Receipt Back to Host

From: sbdservice@sbd.iridium.com Sent: None
To: datasupport@iridium.com
Subject: SBD Mobile Terminated Message Queued for Unit: 300001000582060

The following mobile-terminated message was queued for delivery:

IMEI: 300001000582060

TimeWed Aug 9 13:57:31 2008

Attachment Filename: koala.sbd

Attachment Size: 967

Time message was queued (GMT)

The MTMSN is 9, and the message is number 1 in the queue.

SBD - Ring Alert (RA)

- MT SBD does not directly deliver message to the unit. RA's provide notification that a message is awaiting retrieval at the gateway
- Multi-step process for setting up RA*
 - Hardware must have firmware that supports RA
 - RA must be activated in SPNet
 - +SBDMTA command must be issued at the field unit to accept RA
 - +SBDREG command must be issued at the field unit to register to the SBD system

*Full explanation available in the SBD Developer Guide available on the developer extranet

Short Burst Data (SBD) SBD Specific AT Commands

9505, 9522, 9505A, 9555, 9522A, 9522B, 9601:

AT+SBDWB - Write binary data to the ISU

AT+SBDRB - Read binary data from the ISU

AT+SBDWT - Write text data to the ISU

AT+SBDRT - Read text data from the ISU

AT+SBDI - Initiate an SBD session

AT+SBDD - Clear ISU SBD Message Buffers

AT+SBDC - Clear (Reset) Mobile Originated Message Sequence Number

AT+SBDS - Show status of ISU buffers

AT+SBDTC - Transfer ISU MO buffer to MT buffer

9505A, 9555, 9522A , 9522B, and 9601 only:

AT+CIER - Indicator Event Reporting

AT+CULK - Unlock

AT+SBDDET - Detach

AT+SBDIX - Initiate SBD Session Extended

AT+SBDMTA - Mobile-Terminated Alert

AT+SBDREG - Network Registration

AT+SBDAREG - Automatic Registration

9522A , 9522B Only:

AT+SBD SX - Status Extended

AT+CRIS - Ring Indication Status

9601 Only:

AT*F - Flush to eeprom

AT*Rn - Radio Activity

See AT Command Guide available at Developers Extranet web site for complete list of AT Commands for SBD

SBD Demonstration Utility

The screenshot shows the 'SBD Demo Utility - V2.0' window. It has a menu bar with 'File', 'Mode', and 'Help'. The interface is divided into several sections:

- Local Command Set:** Contains input fields for 'MO Message' (0), 'MO Status' (Unknown), 'MO MSN' (2), 'MT Message' (0), 'MT Status' (Unknown), 'MT MSN' (-1), 'MT Length' (Unknown), and 'MT Queued' (Unknown). Below these are buttons for 'Status', 'Write Binary', 'Write Text', 'Read Binary', and 'Read Text'. At the bottom of this section are buttons for 'Clear MO', 'Clear MT', 'Clear MO/MT', and 'Clear MO MSN', followed by a 'Manual AT Command' text box.
- Transmission Command Set:** Contains buttons for 'Initiate Extended' and 'Initiate Extended Answer'. Below these are 'Register' and 'Detach' buttons, an 'MT Alert' dropdown menu, and a 'Registration Mode' dropdown menu.
- SSD Log:** A large text area on the right side of the window for logging, with a 'Clear Log' button at the bottom right.
- SSD Port:** A section at the bottom right with a dropdown menu set to 'COM1' and 'Connect' and 'Disconnect' buttons.

An SBD Demonstration utility (for Windows operating systems) is available on the Iridium Developer Extranet and on the 9601 Developer Kit CD. This application provides a user-friendly method of experimenting with the various SBD AT Commands.

Short Burst Data (SBD) Provisioning and Reporting

- Separate login account used to provision SBD accounts
- SPNet can be used for:
 - Activating SBD accounts (SIM and hardware)
 - Modify account delivery method and destination
 - Checking for SBD usage
 - Toggle GEO-location on/off
 - Monitor SBD MO/MT activity

Short Burst Data (SBD) Logging into SPNet

SPNet - Production
Iridium Satellite LLC



Please enter your login information below.

Logon ID

Password

Login

ONE SYSTEM, GLOBALLY.

- Enter SPNet Logon ID and Password (specific to SBD)
- Click “Login”

Short Burst Data (SBD)

What is an IMEI?

- International Mobile Equipment Identity (IMEI)
- Can be used to track equipment, particularly if lost or stolen
- Used to identify and authenticate the ISU in the call set-up and registration process on the Iridium network

Short Burst Data (SBD)

Provisioning Steps

1. VAR sends ISU IMEIs to Service Delivery via email (servicedelivery@iridium.com), requesting that they be allocated to the VAR.
2. Service Delivery allocates the IMEIs to the VAR in Iridium's provisioning system (Business Support and Control System - BSCS).
3. Using SPNet, the VAR provisions:
 1. The ISU, using the ISU IMEI and destination address
 2. A SIM Card
 1. SIM is provisioned for LBT or handset only
 2. The SIM card PIN must be disabled, otherwise the ISU cannot register or place SBD calls.)

Short Burst Data (SBD)

SPNet - SIM Card Activation

This is the first page you will see after you log in to SPNet.

SPNet - Production
SBD DEMO DATA SUPPORT - 2.27.11.00.100000
SENGEL0001 ([Logoff](#))

IRIDIUM

ReportsTools

Contract Search

Search for: by

New Telephony »New SBD »

Activation Date	Contract	MSISDN	Market	S	Change Date	Reason	Action
No Search Results							
Duration: 0.001 sec							

ONE SYSTEM, GLOBALLY.

'New Telephony' allows the activation of a SIM card for an SBD Device

Short Burst Data (SBD)

SBD-Only SIM Card

SPNet - Production 2.6.1
INA Gateway - 2.21.15.00.100000
ASNYDE0001 ([Logoff](#))

IRIDIUM

ReportsTools

Update/View Contract (GSM - IRI GSM)

Sub-Market: (8816310) UNITED STA

Rate Plan: USD - Demo Account SBD SIM

Service Package: SBD-DS-xxD1-AUTOMATIC CHECK

Marketing Code: Other

Language: (EN)English

Services:

- Uniform Call Treatment
- Circuit Data BS26
- SMS MT
- Operator Block Outgoing Calls
- SBD SIM Card

MSISDN: None

MSISDN-C: 881692992313

SIM Serial (ICCID): 8988169312001734577

IMEI:

Contract ID: 206948

RUDICS group: None

Two-Stage Dialing: [Click here to modify](#)

Voice: ENABLED PIN: None

Data: ENABLED PIN: None

Future Suspension:
☐ YYYY-MM-DD [Calendar](#)

SAVE »

CLEAR »

CANCEL »

ONE SYSTEM, GLOBALLY.

Only a MSISDN-C assigned. Cannot be used to call unit

IMEI can be populated but does not need to be

With SBD only, ignore telephony and CSD fields

Short Burst Data (SBD) Delivery Destination Modifications

Change/add/delete the delivery destinations of a unit that has already been provisioned

SPNet - Testing
IS Training SP (SBD) - 1.101032
SENGEL0001 ([Logoff](#))

IRIDIUM

Reports Tools

Contract Search

Search for: by

Activation Date	Contract	MSISDN	Market	S	Change Date	Reason	Action
No Search Results							

Duration: 0.001 sec

ONE SYSTEM, GLOBALLY.

1. Enter device IMEI
2. Choose 'SBD IMEI' from the pull-down menu
3. Click 'Search'

Short Burst Data (SBD) Delivery Destination Modifications

SPNet - Testing
IS Training SP (SBD) - 1.101032
SENGEL0001 ([Logout](#))



ReportsTools

Contract Search

Search for: by

Activation Date	Contract	MSISDN	Market	S	Change Date	Reason	Action
2005-06-30 16:09:42	<u>222748</u>	881680010953	GSM	a	2005-06-30 16:07:54	Contract Activation	Deactivate Suspend

Duration: 7.316 sec

ONE SYSTEM, GLOBALLY.

Click the Contract Number

Note: Devices can be deactivated or temporarily suspended using these buttons. **Deactivations are permanent!**

Short Burst Data (SBD) Delivery Destination Modifications

SPNet - Testing
IS Training SP (SBD) - 1.101032
SENGEL0001 ([Logout](#))



ReportsTools

Update/View Contract (GSM - SBD)

Sub-Market: (8816800) SBD

Rate Plan: USD - IS Training SP SBD Device

Service Package: SBD-xx-xxxx-SBD DEVICE

Marketing Code: Other

Language: (EN)English

Services: Short Burst Data Mailbox Check
Short Burst Data

MSISDN: None

MSISDN-C: None

Device IMEI: 300001001000160

Contract ID: 222748

Click [here](#) to add or modify.

Delivery Destinations: 300001001000100
300001001000000
300001001000200

Geo Data Included: Yes

MTMSN: 1

Click here to toggle Latitude/Longitude information on/off

SAVE »

CLEAR »

CANCEL »

ONE SYSTEM, GLOBALLY.

Click to modify delivery destinations

Current delivery destinations are displayed here. This particular unit has 3 ISU destinations

Note: An IMEI can have up to 5 Delivery Destinations total.

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 **iridium**
Everywhere 

Short Burst Data (SBD) Delivery Destination Modifications

SPNet - Testing

IS Training SP (SBD) - 1.101032

SENGEL0001 ([Logoff](#))



Reports

Tools

SBD Destination Editor for IMEI 300001001000160

Choose CANCEL to return after modifications are complete.

#	Method	Address	Delete
1.	SBD Device	300001001000100	☐
2.	SBD Device	300001001000000	☐
3.	SBD Device	300001001000200	☐
		Submit Changes	Cancel »
		Delete	

Existing delivery addresses can be modified here. Click 'Submit Changes' to submit modifications.

Existing delivery addresses can be deleted by checking them and then clicking 'Delete'

Additional delivery addresses can be added here. Click 'Add Destination' to submit the new address. Maximum allowed is 5

Method	Address to add
SBD Device	
Add Destination	

Note: Only one delivery method is permitted for all of your destinations.

ONE SYSTEM, GLOBALLY.

Use this menu to choose a different delivery method ("Email" "SBD Device" "Direct IP")

Choose 'Cancel' to return to previous screen after modifications are complete

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Short Burst Data (SBD) Reporting Tools in SPNet

SPNet - Testing
IS Training SP (SBD) - 1.101032
SENGEL0001 ([Logoff](#))

IRIDIUM

Reports	Tools																																			
MSISDN's																																				
SIM Cards																																				
Pagers																																				
Contract Status Report	by MSISDN SEARCH » CLEAR »																																			
Paging Usage	SBD »																																			
SBD	<table><thead><tr><th>Contract</th><th>MSISDN</th><th>Market</th><th>S</th><th>Change Date</th><th>Reason</th><th>Action</th></tr></thead><tbody><tr><td colspan="7">Activity Summary</td></tr><tr><td colspan="7">Activity Search</td></tr><tr><td colspan="7">Devices</td></tr><tr><td colspan="7">Send Message</td></tr></tbody></table>	Contract	MSISDN	Market	S	Change Date	Reason	Action	Activity Summary							Activity Search							Devices							Send Message						
Contract	MSISDN	Market	S	Change Date	Reason	Action																														
Activity Summary																																				
Activity Search																																				
Devices																																				
Send Message																																				

Duration: 0.001 sec

ONE SYSTEM, GLOBALLY.

Short Burst Data (SBD) Reports: Activity Summary

Activity Summary shows the cumulative activity (total number of SBD messages) for *all* ISU in this account.

SPNet - Test & Training

SBD DEMO DATA SUPPORT

SBDDAT0001 ([Logoff](#))



Reports

Tools

SBD Activity Summary

Cumulative number of Mobile Terminated messages for all devices in this account

Downlink

15 min	30 min	1 hour	2 hours	4 hours	8 hours	1 day	7 days	30 days
0	3	3	3	3	3	3	3	5

Uplink

Cumulative number of Mobile Originated messages for all devices in this account

15 min	30 min	1 hour	2 hours	4 hours	8 hours	1 day	7 days	30 days
0	7	7	7	7	7	7	25,417	36,807

ONE SYSTEM, GLOBALLY.

Short Burst Data (SBD) Reports: Activity Search

Activity Search allows SBD activity monitoring for a particular ISU.

SPNet - Production

SBD DEMO DATA SUPPORT - 2.27.11.00.100000

SENGEL0001 ([Logoff](#))



Reports

Tools

SBD Call Detail Search

Search Parameters

IMEI	Date (yyyy-mm-dd)	Filters
300001001360280	Start date: 2003 05 05	Filter: ALL Transferred
	End date: 2003 05 05	Results per page: 10

Search »

Cancel »

ALL Transferred

Uploads - Delivered

Uploads - Not Delivered

Downloads - Not Delivered

Downloads - Transferred

Downloads - New

Downloads - Queued

Downloads - Pending

ONE SYSTEM, GLOBALLY.

Short Burst Data (SBD) Reports: Activity Search

Example of “Uploads-Delivered”

SPNet - Test & Training
SBD DEMO DATA SUPPORT
SBDDAT0001 ([Logoff](#))


[Reports](#)
[Tools](#)

SBD Call Detail Search

Search Parameters

IMEI	Date (yyyy-mm-dd)	Filters
300034012265710	Start date: 2009 05 15 End date: 2009 06 01	Filter: ALL Transferred Results per page: 5

[Search »](#)
[Cancel »](#)

Search Results

[« First Page](#)
[Previous Page](#)
[Next Page](#)
[Last Page »](#)

IMEI	Time Sent	Size	LAT	LNG	CEP	MOMSN	Div. Method	Div. Status	Call Status
Up 300034012265710	2009-05-29 22:41:05	0	-22.830308	-51.626151	5	6209			00 - Transfer OK

IMEI	Time Sent	Size	LAT	LNG	CEP	MOMSN	Div. Method	Div. Status	Call Status
Up 300034012265710	2009-05-29 22:25:59	0	-22.832586	-51.571418	4	6208			00 - Transfer OK

IMEI	Time Sent	Size	LAT	LNG	CEP	MOMSN	Div. Method	Div. Status	Call Status
Up 300034012265710	2009-05-29 22:11:01	0	-22.845304	-49.830033	205	6207			02 - Transfer OK Bad Location

IMEI	Time Sent	Size	LAT	LNG	CEP	MOMSN	Div. Method	Div. Status	Call Status
Up 300034012265710	2009-05-29 21:55:53	10	-22.797018	-51.626151	2	6206	DirectIP	Delivered	00 - Transfer OK

IMEI	Time Sent	Size	LAT	LNG	CEP	MOMSN	Div. Method	Div. Status	Call Status
Up 300034012265710	2009-05-29 21:54:28	10	-22.78833	-51.595622	6	6205	DirectIP	Delivered	00 - Transfer OK

Displaying 1-1 of 1
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ONE SYSTEM, GLOBALLY.



Short Burst Data (SBD)

Reports: Activity Search

<i>FIELD</i>	<i>DESCRIPTION</i>
IMEI	IMEI of the ISU (SBD Device)
TIME SENT	Time (UTC) of the Mobile Originated call
SIZE	Size (in bytes) of the Mobile Originated data
LAT	Device Latitude (Degrees)
LNG	Device Longitude (Degrees)
CEP	Device Circular Error Probability radius (80% Confidence) in km
MOMSN	Mobile Originated Message Sequence Number (MOMSN) from the ISU. Each ISU manages its own MOMSN independently of other ISUs. The ISU only increments this number if the call completed successfully.
Div. Method	Delivery method used
Div. Status	Email delivery status (Delivered / Not Delivered), from the perspective of the SBD system at the Iridium gateway. This indicates whether Iridium sent the message to the email destination or not. It is <i>not</i> a confirmation that the email was actually received at its destination.
Call Status	Air-Interface status of the call (Transfer OK / Incomplete Call)

Short Burst Data (SBD) Reports: Activity Search

Example of “Downloads-Transferred”

SPNet - Test & Training
SBD DEMO DATA SUPPORT
SBDDAT0001 ([Logoff](#))



ReportsTools

SBD Call Detail Search

Search Parameters

IMEI	Date (yyyy-mm-dd)	Filters
300034012265710	Start date: 2009 05 15 End date: 2009 06 01	Filter: Downloads - Delivered Results per page: 5

Search »Cancel »

Search Results

Select All☐Delete Selected »

« First PagePrevious PageNext PageLast Page »

	IMEI	Time Received	Size	Time Queued	Time Delivered	MTMSN	Msg Status	Delete
Down	300034012265710	2009-05-15 11:10:17	254	2009-05-15 11:10:17	2009-05-15 11:10:22	745	Delivered	☐
	300034012265710	2009-05-15 11:10:47	240	2009-05-15 11:10:47	2009-05-15 11:10:52	746	Delivered	☐
	300034012265710	2009-05-15 11:11:38	250	2009-05-15 11:11:38	2009-05-15 11:11:43	747	Delivered	☐
	300034012265710	2009-05-15 12:27:18	228	2009-05-15 12:27:18	2009-05-15 12:27:35	748	Delivered	☐
	300034012265710	2009-05-15 12:29:39	182	2009-05-15 12:29:39	2009-05-15 12:30:15	749	Delivered	☐

Displaying 1-1 of 1

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ONE SYSTEM, GLOBALLY.



Short Burst Data (SBD)

Reports: Activity Search

<i>FIELD</i>	<i>DESCRIPTION</i>
IMEI	IMEI of the ISU (SBD Device)
TIME RECEIVED	Time (UTC) the SBD system received the message
SIZE	Size (in bytes) of the message sent to the ISU
TIME QUEUED	Time (UTC) the SBD system queued the message for download (message is first in line for delivery)
TIME DELIVERED	Completion time (UTC) of the call when the message was sent to the ISU. Corresponds to Mobile Originated "TIME_SENT" in the 'Up' Table for this CALL ID.
MTMSN	Iridium system-assigned number for the call. Mobile Originated and Mobile Terminated entries that are tagged with the same CALL ID were transmitted as part of the same call.
MSG STATUS	Status of the data: 'New' – The data has just been inserted into the database 'Queued' – Data queued to download on the next call for the IMEI 'Pend' – Waiting to be queued 'Delivered' – Message delivered 'Delete' – This message will be deleted from the database.
DELETE	Messages that have not been delivered can be deleted by checking the box next to the message and clicking 'Delete Selected >>'

Short Burst Data (SBD) Reports: Devices

The *Devices* report can display the IMEI, Delivery Method, Delivery Addresses, GEO Data Status and MTMSN for each ISU in this account.

SPNet - Testing
IS Training SP (SBD) - 1.101032
SENGEL0001 ([Logoff](#))

IRIDIUM

Reports Tools

SBD IMEI Report

IMEI: [SEARCH >>](#) [Cancel >>](#)

IMEI	Delivery Method	Destination	MSISDN	Status	Account	Geo Data	MTMSN
300001001000160	SBD Device	300001001000100	881680010953	Active	1451	YES	1
300001001000160	SBD Device	300001001000000	881680010953	Active	1451	YES	1
300001001000160	SBD Device	300001001000200	881680010953	Active	1451	YES	1

ONE SYSTEM, GLOBALLY.

Current Delivery Method

Current Destinations

Current GEO Data Status

Current MTMSN for the device

Short Burst Data (SBD) References

- Iridium Short Burst Data Service Developers Guide
- ISU AT Command Reference
- SBD Demonstration GUI and associated documentation
- FAQs on the Iridium Developer Extranet
<http://developer.iridium.com/>
- Data Support Contact Info
 - Email: datasupport@iridium.com
 - Phone: +1.480.752.5100 option 2
 - Hours of Operation
 - Monday – Friday 1300 – 0100 (+1 day)
 - All other hours supported on-call