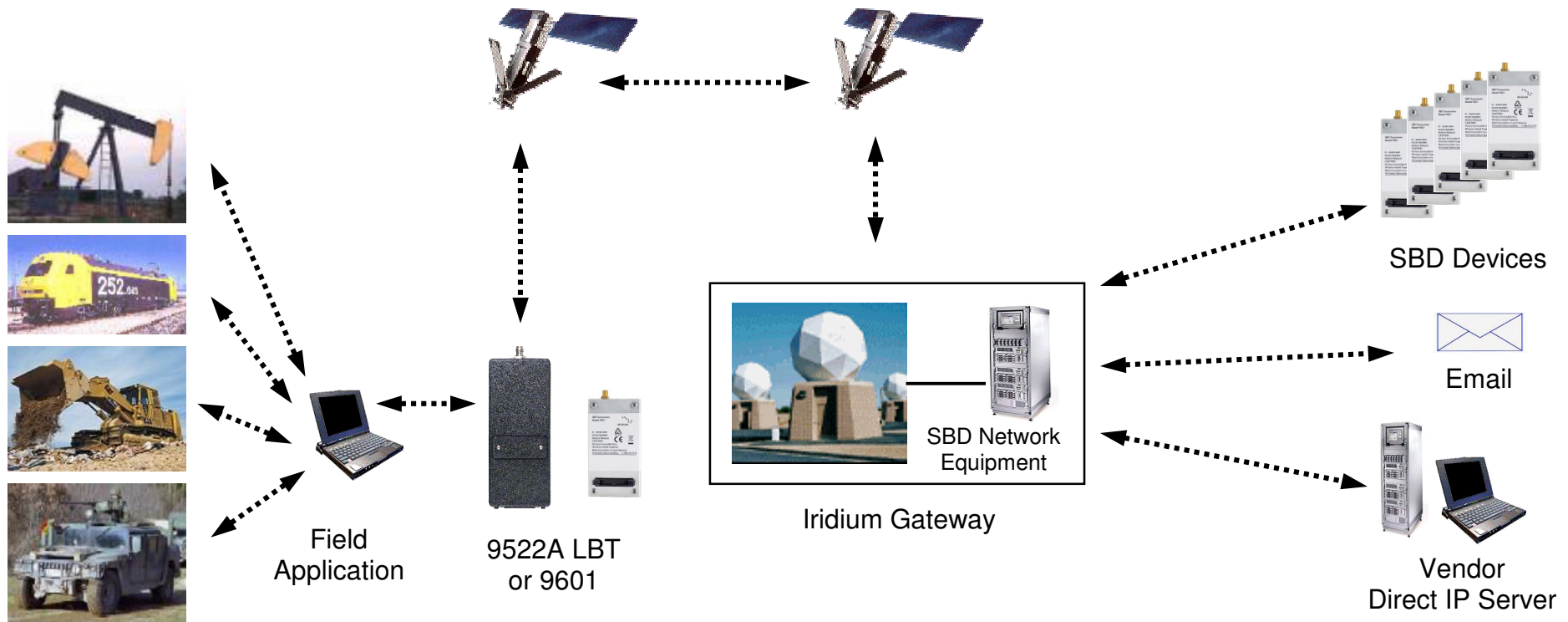


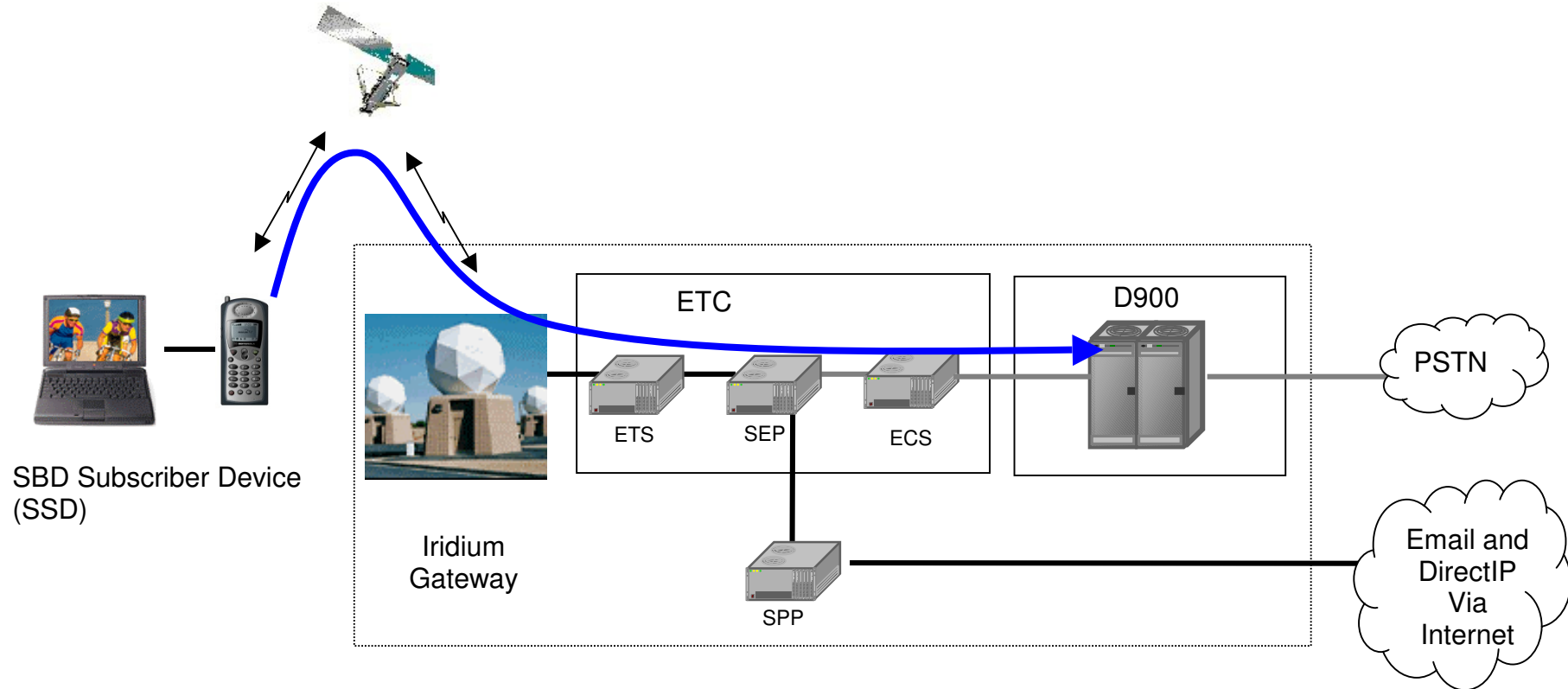
System Overview



- 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 compliance

Short Burst Data (SBD)

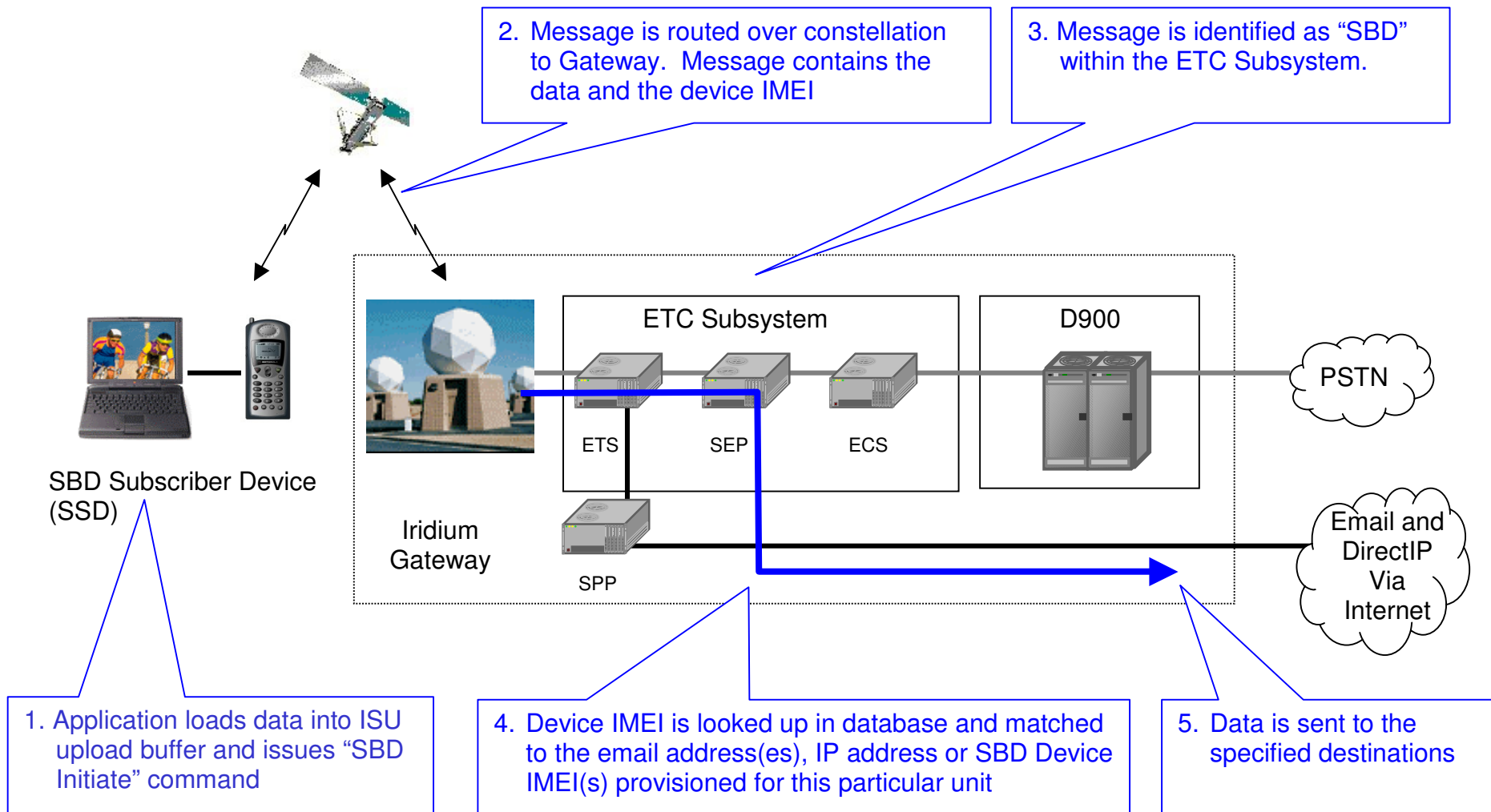
Registration



The LBT or handset **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. The 9601 **DOES NOT** contain a SIM and therefore does not contact the D900 for registration.

Short Burst Data (SBD)

Mobile Originated



Short Burst Data (SBD)

Mobile Originated Message Scenario

Example of email delivered as a result of a Mobile Originated message:

From: sbdservice@sbd.iridium.com

Sent: None

To: datasupport@iridium.com

Subject: SBD Msg From Unit: 300001001655280

MOMSN: 74

MTMSN: 0

Time of Session (UTC): Fri Apr 23 15:00:36 2004

Session Status: TRANSFER OK

Message Size (bytes): 39

Unit Location: Lat = 33.317128 Long = -111.873189

CEPradius = 2

Message is Attached.

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

MTMSN: Mobile Terminated Message Sequence Number (0-65535)

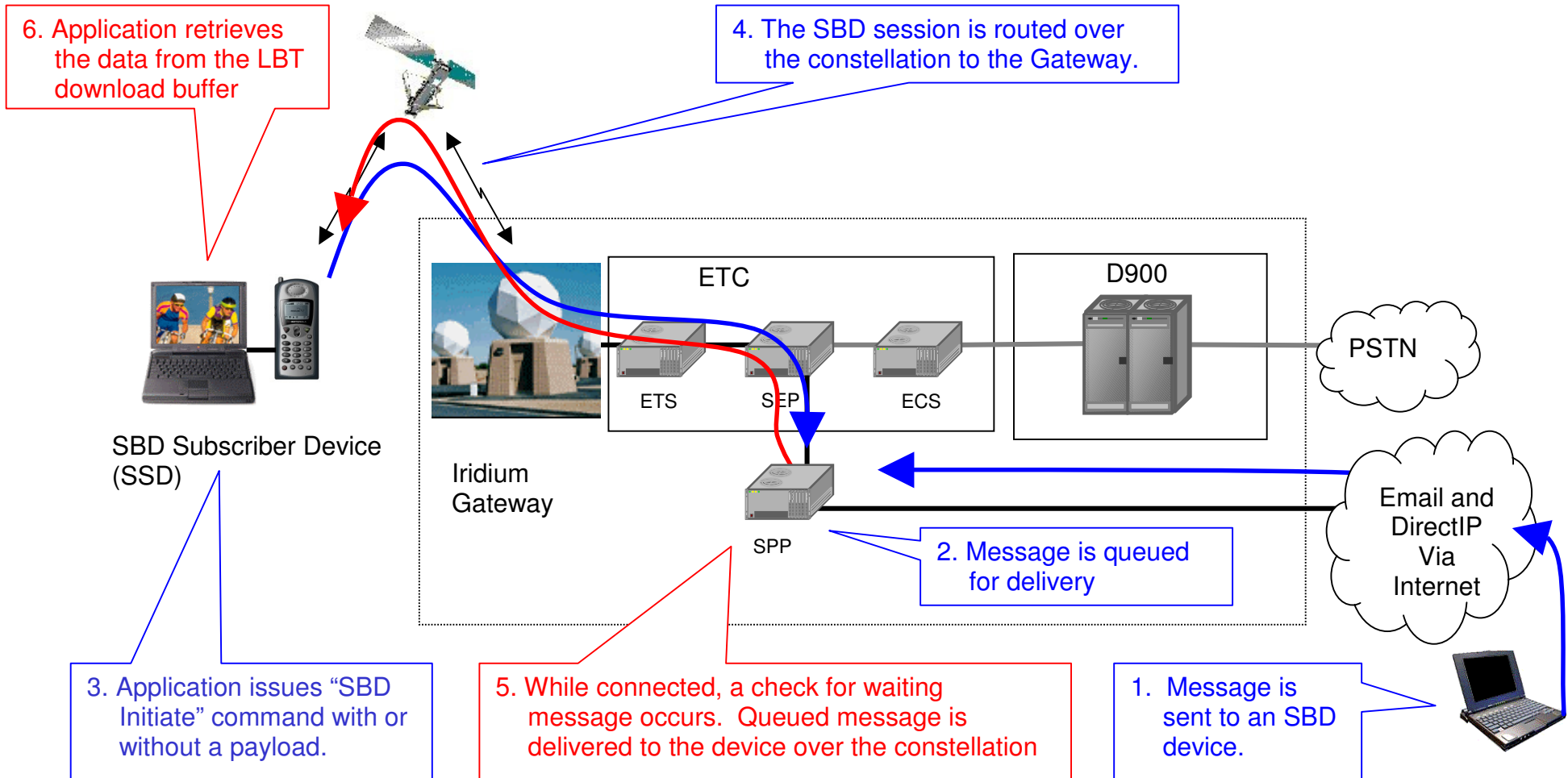
Status: TRANSFER OK,
INCOMPLETE CALL,
SBD DENIAL,
SBD TIMEOUT

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)

Mobile Terminated Email 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

Time Wed Aug 9 13:57:31 2006

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.

Short Burst Data (SBD)

Mailbox Check/Mobile Terminated Message Scenario

Example of message delivered from the Iridium gateway as a result of a mailbox check:

```
From: sbdservice@sbd.iridium.com
Sent: None
To: John Doe
Subject: SBD Msg From Unit: 300001001655280
```

```
MOMSN: 79
MTMSN: 0
Time of Session (UTC): Tue Apr 27 17:36:27 2004
Session Status: TRANSFER OK
Message Size (bytes): 0
```

Message size for a “mailbox check” will be 0 because they contain no SBD payload. There will be no email attachment.

```
Unit Location: Lat = 33.317128 Long = -111.873189
CEPradius = 7
```

CEPradius – Provides an estimate of accuracy of the unit location in kilometers. Estimate is accurate 80% of time.