Troubleshooting U159

Error: bad state of transport stream (TS)

Possible issues / errors

Sometimes U159 reports bad state of a transport stream:

Active Alarm Table

Time	Component	Severity	Message
2021-12-01 10:09:40+01:00	Redundancy.GroupStateError	error	TS-Mux: TS 65 Redundancy: Unnamed Redundancy 1, active Group: Unnamed Group 1 state is BAD

System Log ⟳

Show: ☑ EMERGENCY ☑ ALERT ☑ CRITICAL ☑ ERROR ☑ WARNING ☑ NOTICE ☑ INFORMATIONAL ☑ DEBUG

```
3: 2021-12-01 10:15:40+01:00 INFORMATIONAL   current user level: 15
2: 2021-12-01 10:15:03+01:00 ERROR           TS-Mux: TS 67 Redundancy: Unnamed Redundancy 1, active Group: Unnamed Group 1 state is BAD
1: 2021-12-01 10:15:00+01:00 INFORMATIONAL   current user level: 15
```

Step 1: Follow up the error

Step 2: Localize the error

- Go to menu "IP-RX"

- push [i] button for details of incoming stream

No.	State	Address	Port	FEC	VLAN	Data Port	Source Address	TS-ID	ON-ID	TS-Info	Alias		Action
1.	hot	232.1.1.65	10000	☐	0	●A ○B ○C ○D	0.0.0.0	3	133	i	Beate Uhse HD	☐manual	⊖
2.	hot	232.1.1.67	10000	☐	0	●A ○B ○C ○D	0.0.0.0	2	133	i	Sky Cinema Family HD	☐manual	⊖
3.	hot	232.2.1.65	10000	☐	0	○A ●B ○C ○D	0.0.0.0	3	133	i	Beate Uhse HD	☐manual	⊖
4.	hot	232.2.1.67	10000	☐	0	○A ●B ○C ○D	0.0.0.0	2	133	i	Sky Cinema Family HD	☐manual	⊖

IP RX Settings - (4 Channels)

Step 2: Localize the error

Transport Stream [3]
- Details
- Services [17]
  - 8 - Sky Cinema Fun [2845.51 kbit/s]
  - 9 - Sky Cinema Action [3637.80 kbit/s]
  - 16 - Sky Documentaries HD [15562.37 kbit/s]
  - 17 - Sky Sport F1 HD [15116.54 kbit/s]
  - 28 - Boomerang [4506.63 kbit/s]
  - **133 - Beate Uhse HD [917.17 kbit/s]**
    - ID: 133
    - PMT: 103
    - PCR: 2047
    - PIDs: 2047 2051
    - Provider: SKY
    - Name: Beate Uhse HD
    - pmt_status: TABLE_PRESENT
    - running_state: running
    - ca_mode: controlled by CA system
    - **Bitrate: 917.17 kbit/s**
    - CC state: false
    - CA state: true
  - 200 - BDL VoD [12.09 kbit/s]
  - 312 - Sky Sport Bundesliga 7 [0.00 kbit/s]
  - 313 - Sky Sport 8 [0.00 kbit/s]
  - 317 - Sky Sport Bundesliga 7 HD [0.00 kbit/s]

> Service type: HD-TV.
>
> Per default the threshold for HD-TV is 2000 kbit/s.
>
> Here HD-TV is running with 917 kbit/s → Error!

> Service type: data-broadcast.
>
> Per default the threshold for HD-TV is 5 kbit/s.
>
> Here service is running but 0 bitrate → Error!

- 16 - Sky Documentaries HD [15650.60 kbit/s]
- 17 - Sky Sport F1 HD [13208.21 kbit/s]
- 28 - Boomerang [4574.99 kbit/s]
- 133 - Beate Uhse HD [921.68 kbit/s]
- 200 - BDL VoD [12.85 kbit/s]
- 312 - Sky Sport Bundesliga 7 [0.00 kbit/s]
- 313 - Sky Sport 8 [0.00 kbit/s]
- 317 - Sky Sport Bundesliga 7 HD [0.00 kbit/s]
- 318 - Sky Sport 8 HD [0.00 kbit/s]
- 320 - Eurosport360HD 6 [0.00 kbit/s]
- 326 - Sky Sport Austria 5 HD [0.00 kbit/s]
- 327 - Sky Sport Bundesliga 8 HD [0.00 kbit/s]
- 328 - Sky Sport 9 HD [0.00 kbit/s]
- 330 - Eurosport360HD 7 [0.00 kbit/s]
- **4024 - Pace DS 830 NP [0.00 kbit/s]**
  - ID: 4024
  - PIDs:
  - Provider: SKY
  - Name: Pace DS 830 NP
  - pmt_status: undefined
  - **running_state: running**
  - ca_mode: not scrambled
  - **Bitrate: 0.00 kbit/s**
  - CC state: false
  - CA state: false
- PIDs [63]

Step 3: Error handling
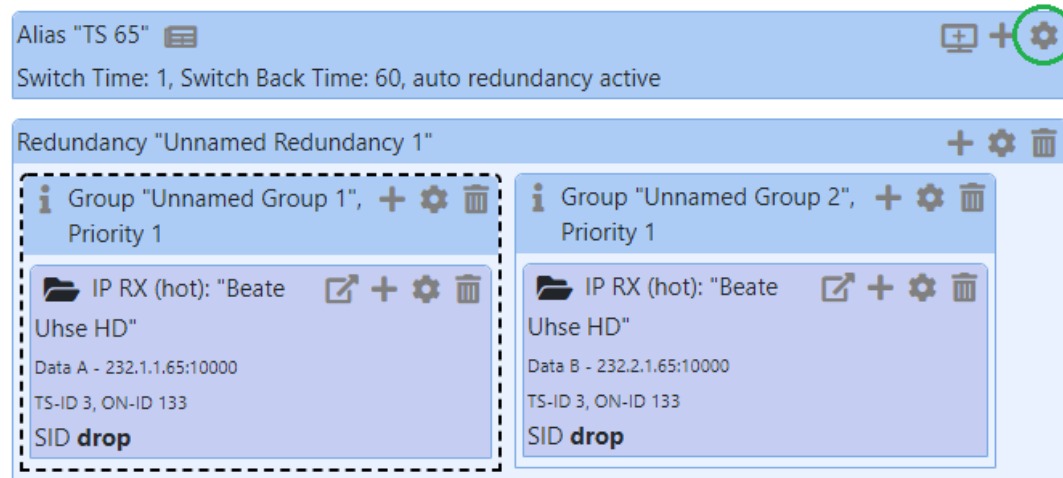
- Go to menu "TS-MUX"

- Select the needed TS-MUX

- push [gear] button for details of mux

Step 3: Error handling

Default parameters:

Customized parameters:

Default parameters:

Edit settings of output

Setting	Value
Alias:	TS 65
Auto Redundancy:	☑
Switch time:	1
Switch back time:	60
Service switch time:	10
Service switch back time:	60
Minimum datarate for HDTV services (kbit/s):	2000
Minimum datarate for SDTV services (kbit/s):	750
Minimum datarate for radio services (kbit/s):	32
Minimum datarate for other services (kbit/s):	5
TS-ID out:	
ON-ID out:	

Customized parameters:

Edit settings of output

Setting	Value
Alias:	TS 65
Auto Redundancy:	☑
Switch time:	1
Switch back time:	60
Service switch time:	10
Service switch back time:	60
Minimum datarate for HDTV services (kbit/s):	750
Minimum datarate for SDTV services (kbit/s):	250
Minimum datarate for radio services (kbit/s):	32
Minimum datarate for other services (kbit/s):	0
TS-ID out:	
ON-ID out:	