

## APPENDIX – F: ASECNA Communication and Surveillance Survey

### 2.4. Data link performance monitoring and analysis for FANS1/A

Statistics provided by SITA for Dakar communication service performance give the following rate

Month Performance	Sept-17	Oct-17	Nov-17	Dec-17	Jan-18	Fev-18	Average
CPDLC (uplink message delivery time of 180s)	99.86%	99.90%	99.88%	99.93%	99.88%	99.90%	99.89%
CPDLC (downlink message delivery time of 180s)	99.45%	99.18%	99.21%	99.41%	99.40%	97.18%	98.97%

Statistics provided by SITA for Dakar surveillance service performance give the following rate:

Month Performance	Sept-17	Oct-17	Nov-17	Dec-17	Jan-18	Fev-18	Average
ADS (uplink message delivery time of 180s)	99.84%	99.82%	99.63%	99.62%	99.71%	99.76%	99.73%
ADS (downlink message delivery time of 180s)	99.37%	99.29%	99.21%	99.38%	99.24%	97.66%	98.36%

Despite these figures from the Communication Service Provider (SITA) we can also address some cases of ADS-C/CPDLC operational unavailability.

Dates	Periods of unavailability	Observations (causes)	Durations in minutes
01/09/2017	23h30mn – 01h15mn	ACARS line failure	105
06/09/2017	01h30mn – 02h30mn	ADS-C/CPDLC down	60
23/11/2017	15h07mn – 15h33mn	Disruption of link due to SITA maintenance	26
24/03/2018	15h20mn – 16h30mn	To be completed	70
30/03/2018	04h14mn – 12h	Broken submarine cable	524