Advantages of ADS-C / CPDLC

ICAO Operational Data Link Familiarization Seminar

2-6 November 2015

Nairobi

Lindi-Lee Kirkman

Manager Safety & Flight Operations Africa

Regional Challenges

- ↗ GND/GND Co-ordination:
  - ↗ VOICE
  - ↗ AFTN

- ↗ Communication
  - ↗ AIR/GND
  - ↗ GND/AIR

- ↗ Telephony / pronunciation
  - ↗ Mishearing
  - ↗ Unclear clearances

2015

What Data Link brings to the Table

↗ Digitalization

  ↗ Data –

      ↗ Messages cant be misheard or misinterpreted

      ↗ Can be printed / stored and referred to later

      ↗ Reduces frequency congestion

      ↗ Allows for some automation on ACFT and for ATC

          ↗ Updates FPL

          ↗ Updates FMS route or FREQ changes

↗ "Seamless" airspace

  ↗ Single African Sky – seamless hand-offs

  ↗ Co-ordination – system generated, accurate,

  ↗ Interoperability

  ↗ Standardization

↗ Improved Safety and Efficiency

Improvements

↗ Efficient ATM

   ↗ Integrated, interoperable ,seamless operations

   ↗ Improved safety through reducing risk factors:

      ↗ Lack of voice comms

      ↗ Misunderstandings

      ↗ Mishearing / incorrect read-back

   ↗ Reduction in ATC and pilot workload

   ↗ Increases capacity

      ↗ Reduces separations

      ↗ User preferred routes

      ↗ Dynamic airborne re-route procedures

      ↗ WX deviation management

Thank you

kirkmanl@iata.org
sfoafi@iata.org