

Data Link in Brazil

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07 ABR 2016



Departamento de Controle
do Espaço Aéreo

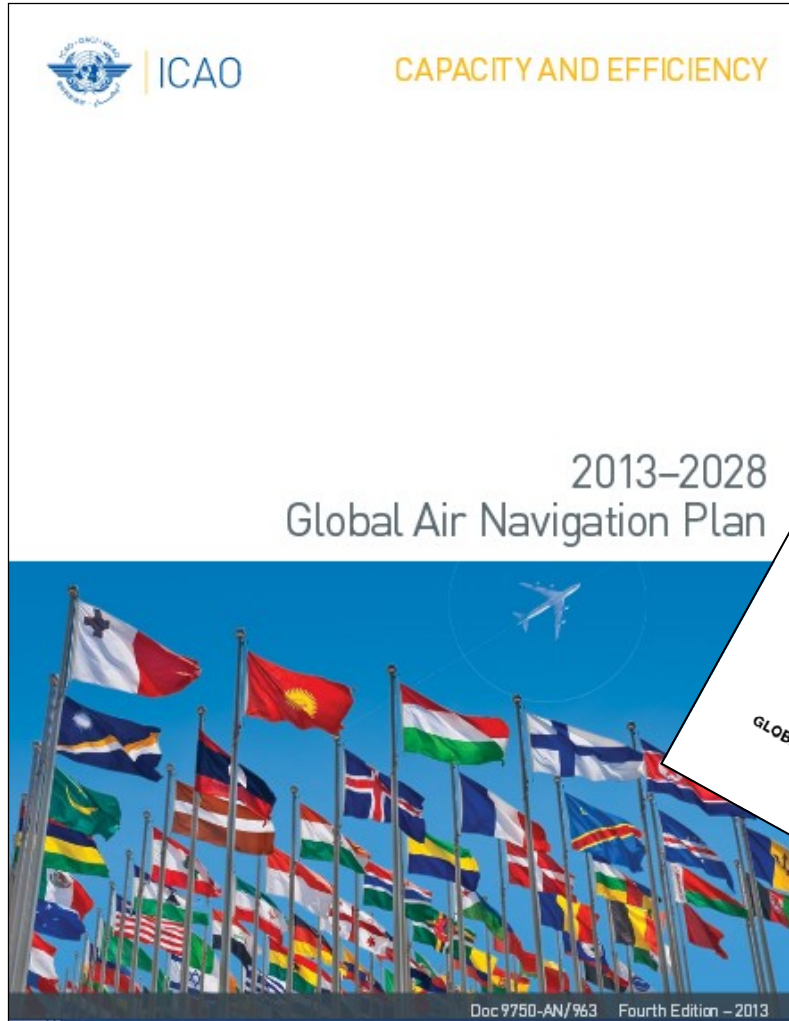


ATM Modernization Programs

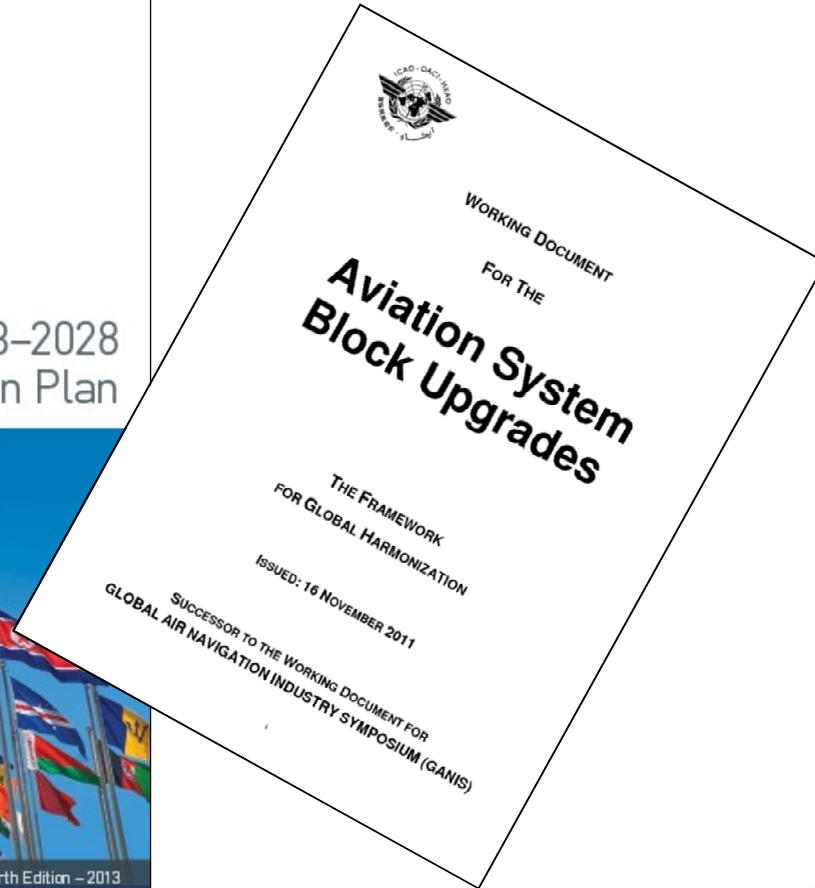


DOC 9750

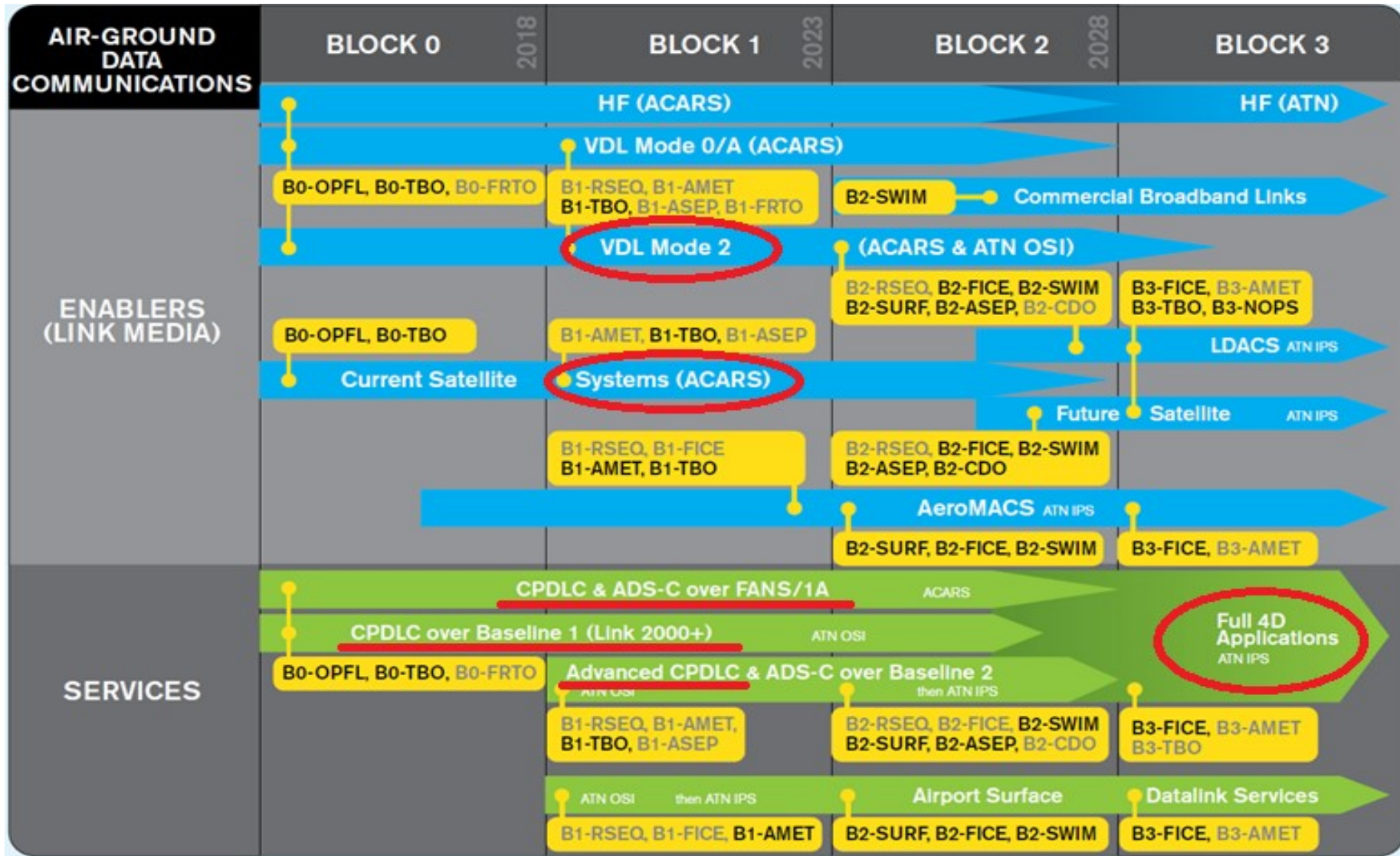
1998/2001/2006/2012



2012



CPDLC Project ASBU Framework

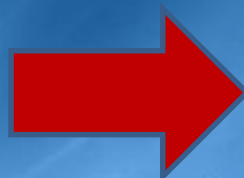


2008

DCA - 351-2
CONCEPÇÃO OPERACIONAL
ATM NACIONAL



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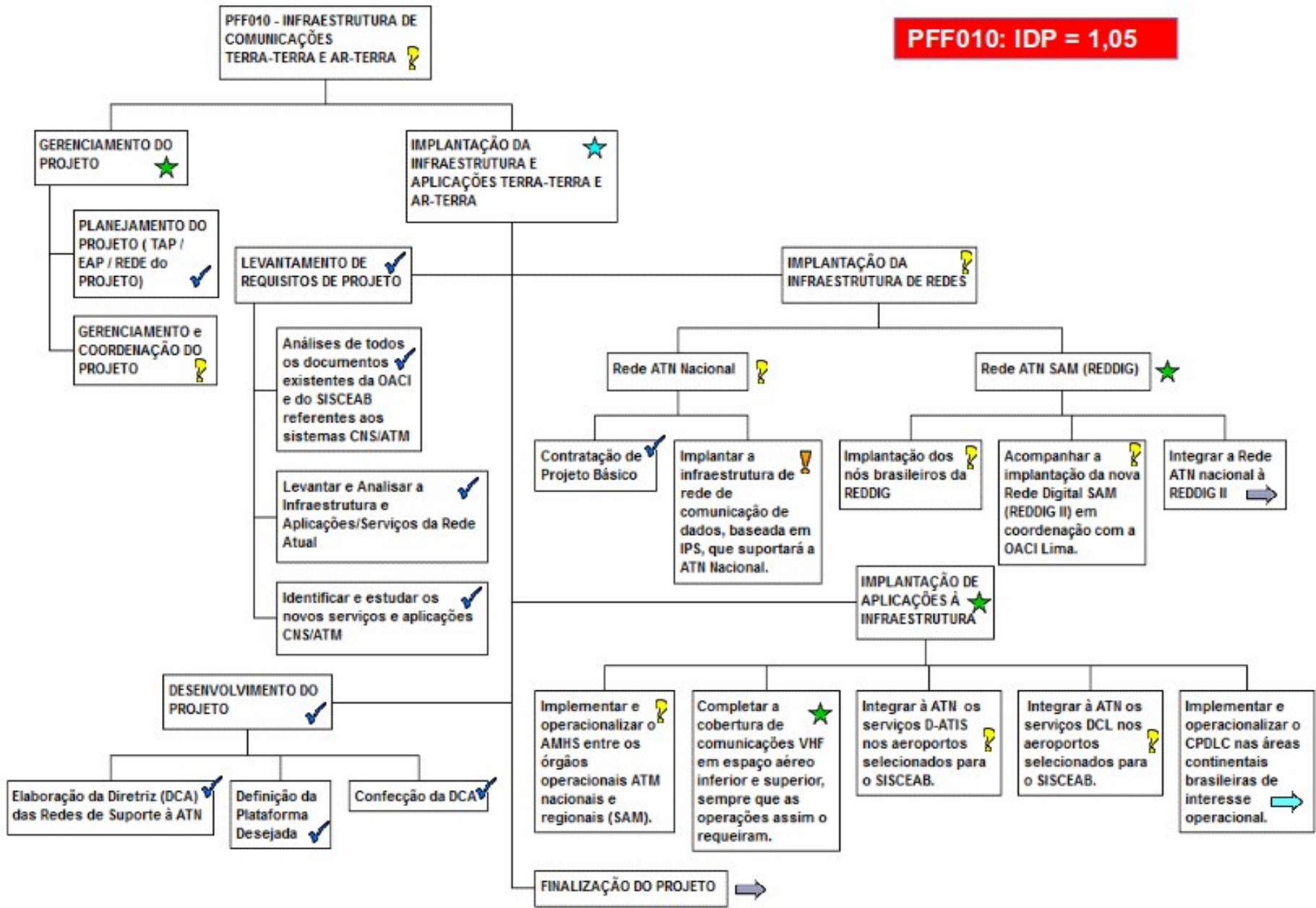
2009/2012/2014

PCA 351-3
PLANO DE IMPLEMENTAÇÃO
ATM NACIONAL



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SITA Concession

WHY A CONCESSION MODEL

DECEA is responsible for aeronautical telecommunications in Brazil and was looking forward to select a CSP partner with well recognized experience on implementation and operation of data link infrastructure for long term investment and partnership.

CHALLENGES	SAFETY	EFFICIENCY
<ul style="list-style-type: none"> • To provide SIRIUS program with state-of-art air ground data link communication technology • To responde continued traffic growth in Brazil • Major step on SISCEAB modernization strategy to support big events (World soccer games in 2014 and Olimpycs in 2016) 	<ul style="list-style-type: none"> • To enhance communication between ATC and aircraft users, by adding data to voice • To ensure communication integrity, specially with foreign airline crews 	<ul style="list-style-type: none"> • For both ATC and aircraft users: <ul style="list-style-type: none"> ✓ To reduce ATCO and Crew workload by replacing voice by data on routine communication, ✓ To reduce the use of voice radio frequencies

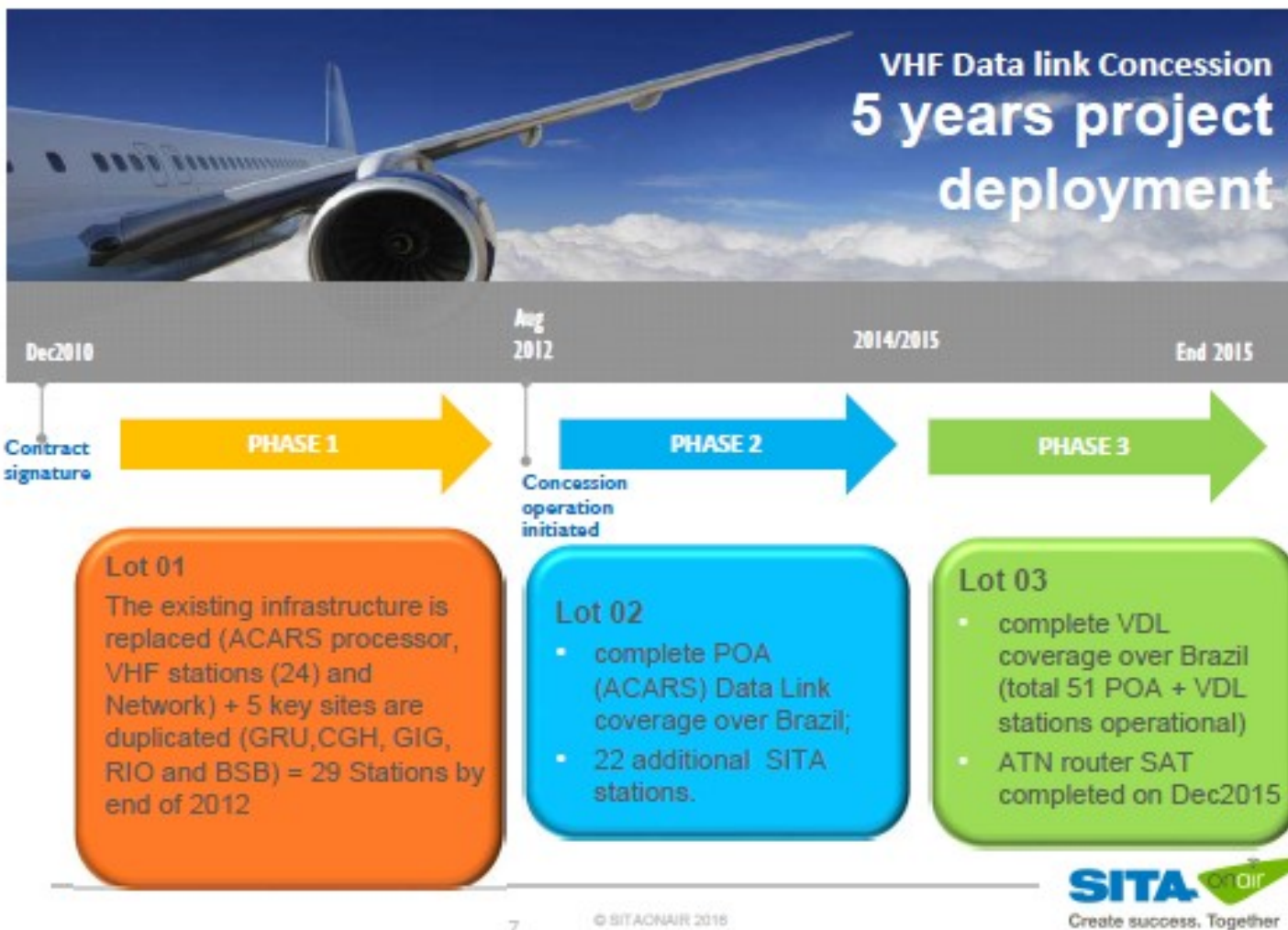
SITA Concession

VHF CONCESSION OVERVIEW

- In 2010, after a public RFP process, SITA has been selected by DECEA to deploy a new VHF data link network in Brazil;
- The agreement model is a 20 years public concession where SITA operates and maintain the VHF network on behalf of DECEA;
- SITAONAIR became exclusive service provider in Brazil for AOC and keeps Internetworking with other DSP for ATS purpose;
- SITAONAIR replaced obsolete DECEA's data link network and Processor.

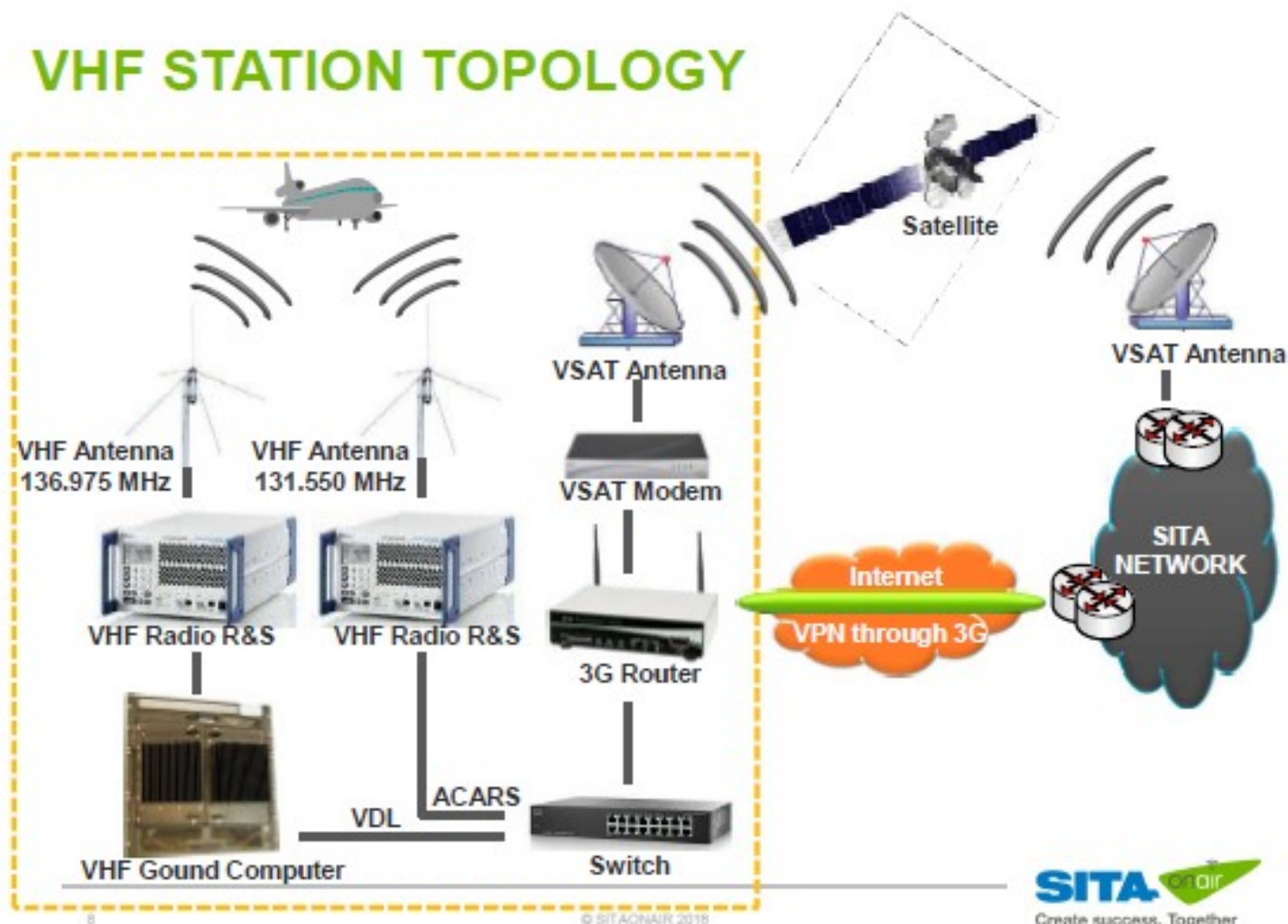


SITA Concession

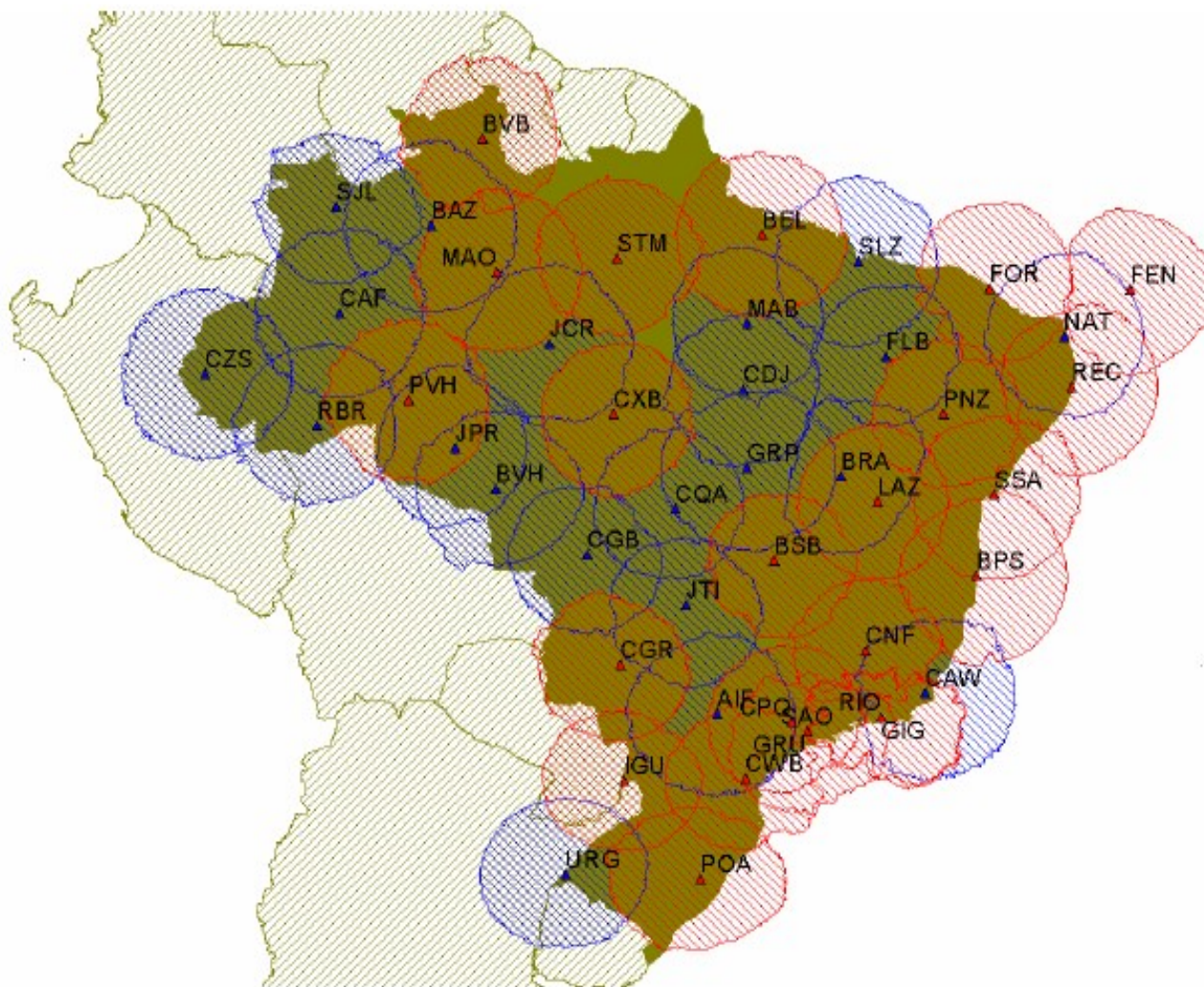


SITA Concession

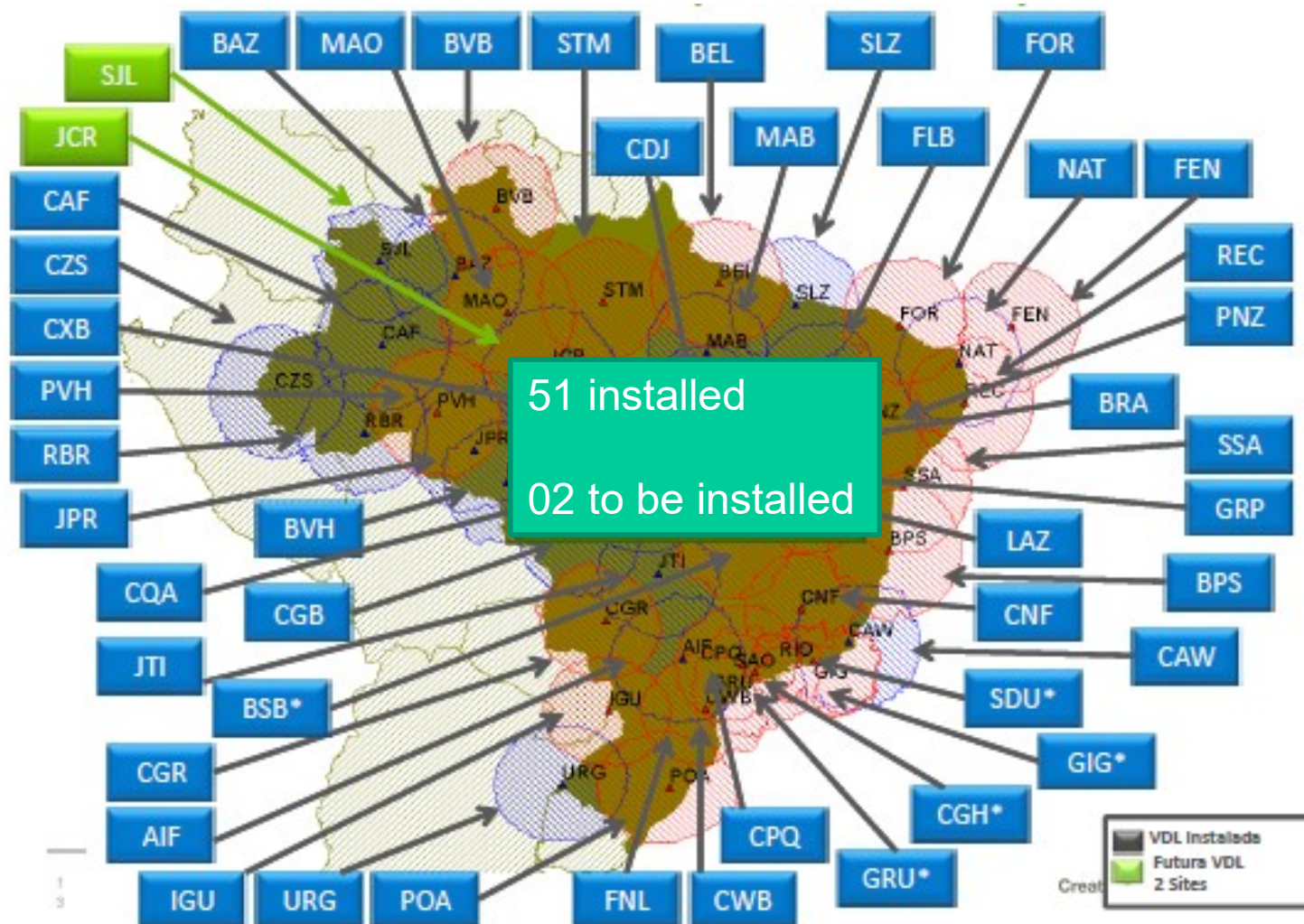
VHF STATION TOPOLOGY



Data Link Coverage – FL 250



Data Link Coverage – FL 250



ATS DATA LINK SERVICES

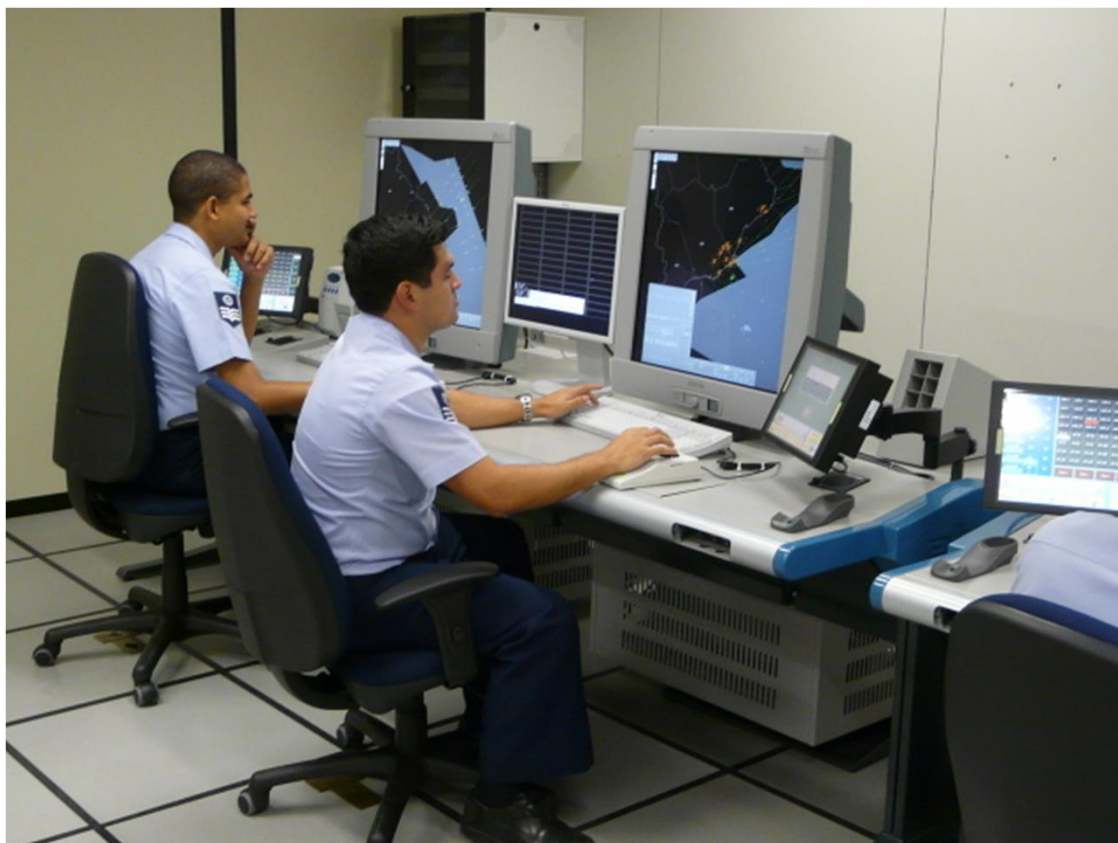


- Existing Pre FANS services in 2 major airports: Galeao (Rio) and Guarulhos (Sao Paulo).
 - Pre FANS expansion program includes 23 Control Towers equipped with D-ATIS and DCL:
 - 18 of 23 sites already certified by DECEA (NOTAMs): SBGL, SBBR, SBRF, SBCY, SBSP, SBCG, SBFL, SBEG, SBBV, SBBE, SBNT, SBCF, SBCT, SBPA, SBFI, SBPS, SBFZ and SBPV.
 - Partnership with Saipher (TATIC) and ACAMS/ATCsys (Automated Tower System).
- FANS
 - ADS& CPDLC oceanic in ACC Atlantico. Operational since 2009.
 - D-VOLMET
 - FIRs Brasilia, Recife, Atlantico, Curitiba and Amazonia. Operational since 2012.

Data Link Services – DCL & DATIS

1- Congonhas	2- Brasília	3- Galeão	4- Confins	5- <u>Salvador</u>
6- Curitiba	7- Porto Alegre	8- Recife	9- Florianópolis	10- Cuiabá
11- Belém	12- Eduardo Gomes	13- Natal	14- Campo Grande	15- <u>São Luis</u>
16- Maceió	17- Porto Velho	18- Fortaleza	19- Foz do Iguaçu	20- Porto Seguro
21- Rio Branco	22- S. J. dos Campos	23- Boa Vista	24- Guarulhos	

FANS 1/A CPDLC & ADS-C



ATLANTIC FIR

- Traffic statistics:
 - JAN2007: 226
 - MAY2009: 30.716
 > 2009, JUN 1st: Air France
 - JUL 2009: 73.172
 - JAN2016: 139.992



Continental CPDLC – New Challenge



Continental CPDLC – Benefits



Data Link Seminar



Recife, 16 to 18 March 2016





JORNADA DE COMUNICAÇÕES SOBRE DATA LINK > 2016



BOEING



EMBRAER



AIRBUS



ATECH



EUROCONTROL



FAA



SITA

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SDTE/DECEA

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