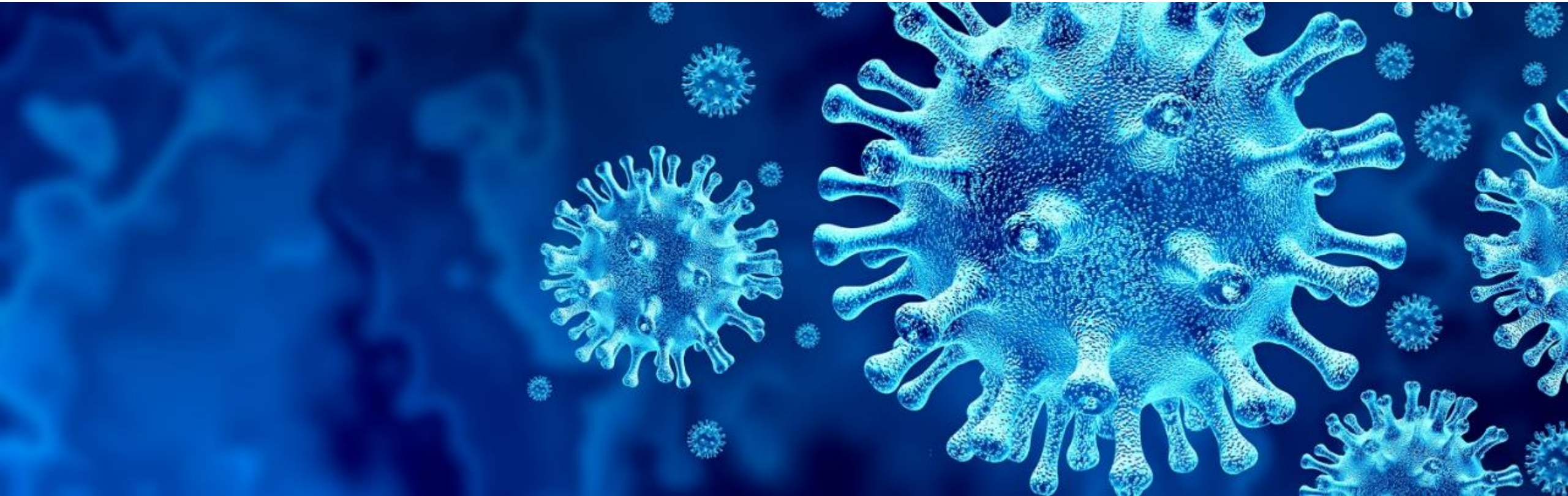




ICAO MID

Sixth Meeting of the MIDANPIRG Air Traffic Management Sub-Group (ATM SG/6)

(9 - 12 November 2020)





ATM SG/6 Meeting

Agenda Item 6: Any other Business



ATM SG/6 Meeting

Agenda Item 6: Any other Business

Update from SANS/Saudi Arabia





الهيئة العامة للطيران المدني
General Authority of Civil Aviation

Managing Skies,
Securing Lives.



ATM System Transition Plan



01 Organization

It describes the required transition team roles either from SANS or INDRA

02 Responsibilities & Task Descriptions

A set of tasks is stated to ensure the efficiency of transition stages progress

03 Transition Pre-Requisites

Requirement has to be met to ensure safety and efficiency of the transition

04 ATS Control Centre/Unit & Maintenance Engineering Sector Transition Team & Manpower

05 Transition Concepts & Stages Activities

It is a description of transition activities

06 Required Resources

Required transition team manpower for transition daily activities

07 Checklists & Forms

08 Rollback

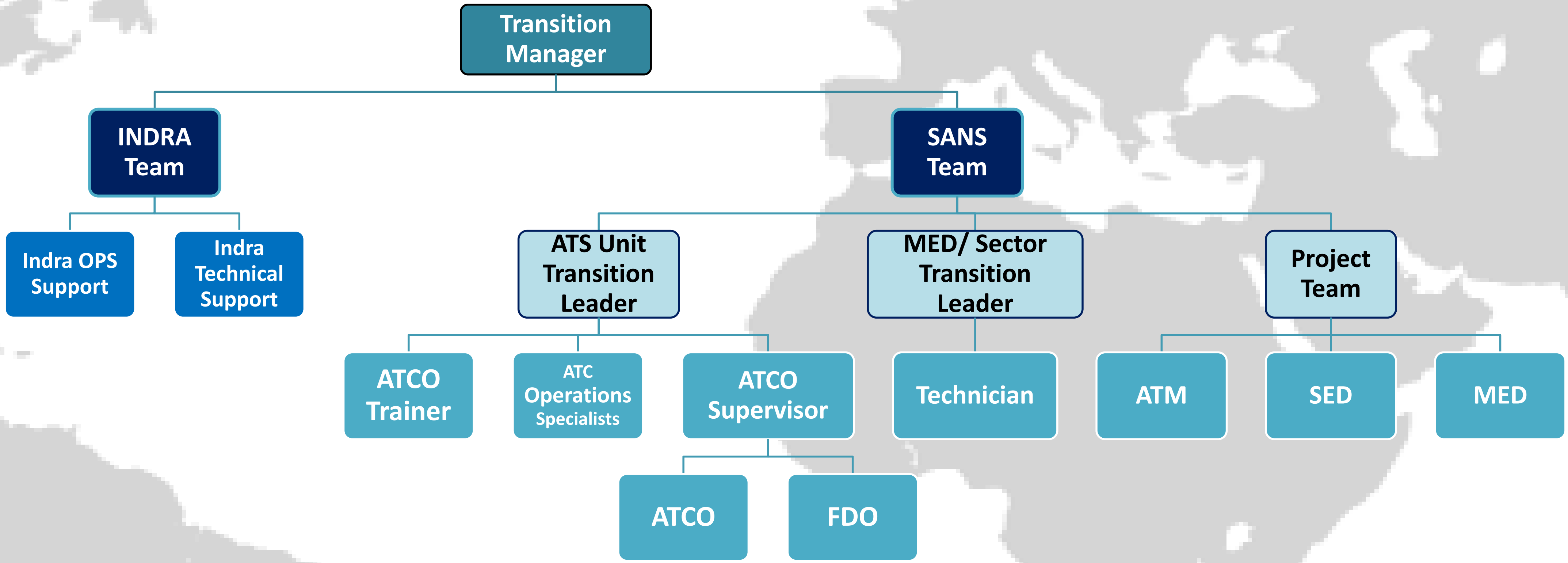
The rollback procedure is to re-establish the ATC services with the old ATM system



SANS

Organization & Tasks







Responsibilities & Tasks

Transition Manager

- Responsible for the Transition/Rollback, GO/NO-GO decision in collaboration with Indra and SANS teams after the analysis of the fulfilment of the associated activities in the transition process,
- Manage the transition activities in coordination with the Indra and SANS teams

INDRA Team

- Manage the activities to perform in Indra ATM system during the transition
- Responsible for the coordination of the activities during the transition with the Transition Manager and SANS team.
- Responsible for the coordination activities with the Indra OPS Support and Indra Technical Support.
- Provides operational support of the Indra ATM system during the Transition procedure
- Provides technical support for Indra ATM system during the Transition procedure.

SANS Project Team

- Manage the activities to perform in the current ATM system during the transition.
- Responsible for the coordination of the activities during the transition stages with the Transition Manager, Indra & SANS teams.
- Coordinate with the Supervisors responsible of the activities in the Thales & INDRA ATM systems, i.e. ATCO Supervisor, Technical Supervisor.



- Responsible for managing the activities related to the Communications, Navigation and Surveillance systems.
 - Responsible for the Coordination of each stage activities with Indra and SANS teams.
 - Responsible for the technical activities in the ATM system (Indra & Thales) during the transition stages.
 - Manage the technical activities with the Maintenance Engineering Sector.
-



ATC Unit Responsibilities & Tasks

ATC Unit Team Leader

Responsible for assigning unit transition team & their roster and all unit related activities during the transition period.
Responsible for coordination of the activities between unit team and other transition teams and transition Manager.

Operations Specialist

Responsible for monitoring unit team activities during the transition.
Responsible for coordinating the operational activities with the unit team leader

ATCO Supervisor

Responsible for the coordination of the operational activities with the Operations Specialists.
Manage the operational activities with the Air Traffic Controllers.
Responsible for the coordination of the activities with the ATCO Trainers, ATCOs and FDOs.

ATCO Trainer

Responsible for supporting ATCOs in operational activities performed with the Indra ATM system.

ATCO

Responsible for performing all ATC activities.

FDO

Responsible for performing the Flight Plan data activities related to air traffic control, traffic Flow and Coordination activities with collateral units



Transition Pre-Requisites





To ensure the system is fully ready, from a technical, operational and safety points of view, the following shall be fulfilled before starting of the

transition:

SAT has been successfully passed.

ATC Training has been completed.

Technical Training has been completed.

Transition safety risk assessment has been completed and all

safety requirement & recommendations are implemented.

Operational & technical procedures are available.

Unit transition team is available for the transition .

Transition Plan is approved

People concerned or impacted by the transition (e.g. adjacent ATS units) have the information about the actual dates of the transition



The following prerequisites are required with each individual stage of transition:

- Starting of each stage of the transition should be outside of the peak period of traffic.
- Technical and operational issues which were detected during the previous stage of the transition have been addressed.
- A review of the issues shall conclude that there is no outstanding major problem which prevents to go ahead with the next step of the transition.
- GO/NO GO Decision.
- For the operational stage, a decision is made that the new System is ready to become the operational System.





ATS Control Centre/Unit & Maintenance Engineering Sector Transition Team & Manpower

- 1. The ATS Control Centre/Unit & Maintenance Engineering Sector shall ensure that adequate number of ATCOs & technicians are available during all transition stages to ensure operation efficiency.**
- 2. During transition stages, each ATC crew has to have ATCO trainer who has participated in the Indra system training. He is considered as a transition team member who will be responsible for supporting ATCOs in operational activities performed with the Indra ATM system functions**



SANS Transition Concepts & Stages Activities





Transition Concept

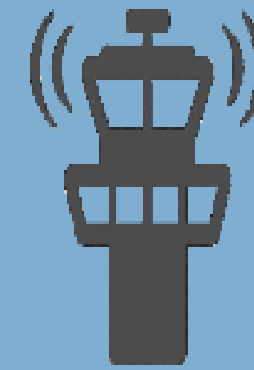
- ❖ All positions will be transferred & operated at once in all ACC, Riyadh & Gassim APPs & Hail APPs & TWRs, Flight Plan Office & ADNC
 - ❖ Therefore, these positions will be divided into groups to ensure efficiency and proper monitoring & supporting
 - ❖ Each group per shift will be supported by one of the transition team member who will be responsible for supporting ATCOs in operational activities performed with the Indra ATM system functions
-

#	Group
1	<ul style="list-style-type: none"> • ACN (NORTH) • ACE (EAST) • ACNE (NORTHEAST) • APP (APPROACH Gassim) • APP (APPROACH Hail)
2	<ul style="list-style-type: none"> • APU (APPROACH Upper) • APM (APPROACH Middle) • APL (APPROACH Lower)
3	<ul style="list-style-type: none"> • APP/ACC Supervisor • APPMIL (APPROACH Military) • Riyadh ADNC • Flight Data Positions (FDS)
4	Riyadh TWR
5	Old Riyadh TWR
6	Riyadh Communication Office (FDD) Positions
7	Gassim TWR
8	Hail TWR



Riyadh TWR

1. Supervisor
2. TWR E
3. TWR W
4. GND E
5. GND W
6. GND V
7. DLV



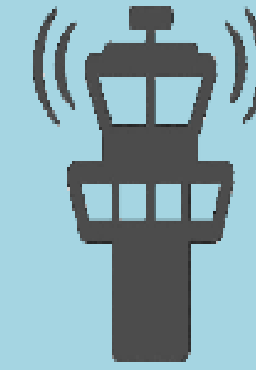
Old Riyadh TWR

1. Supervisor
2. TWR
3. GND



Gassim TWR

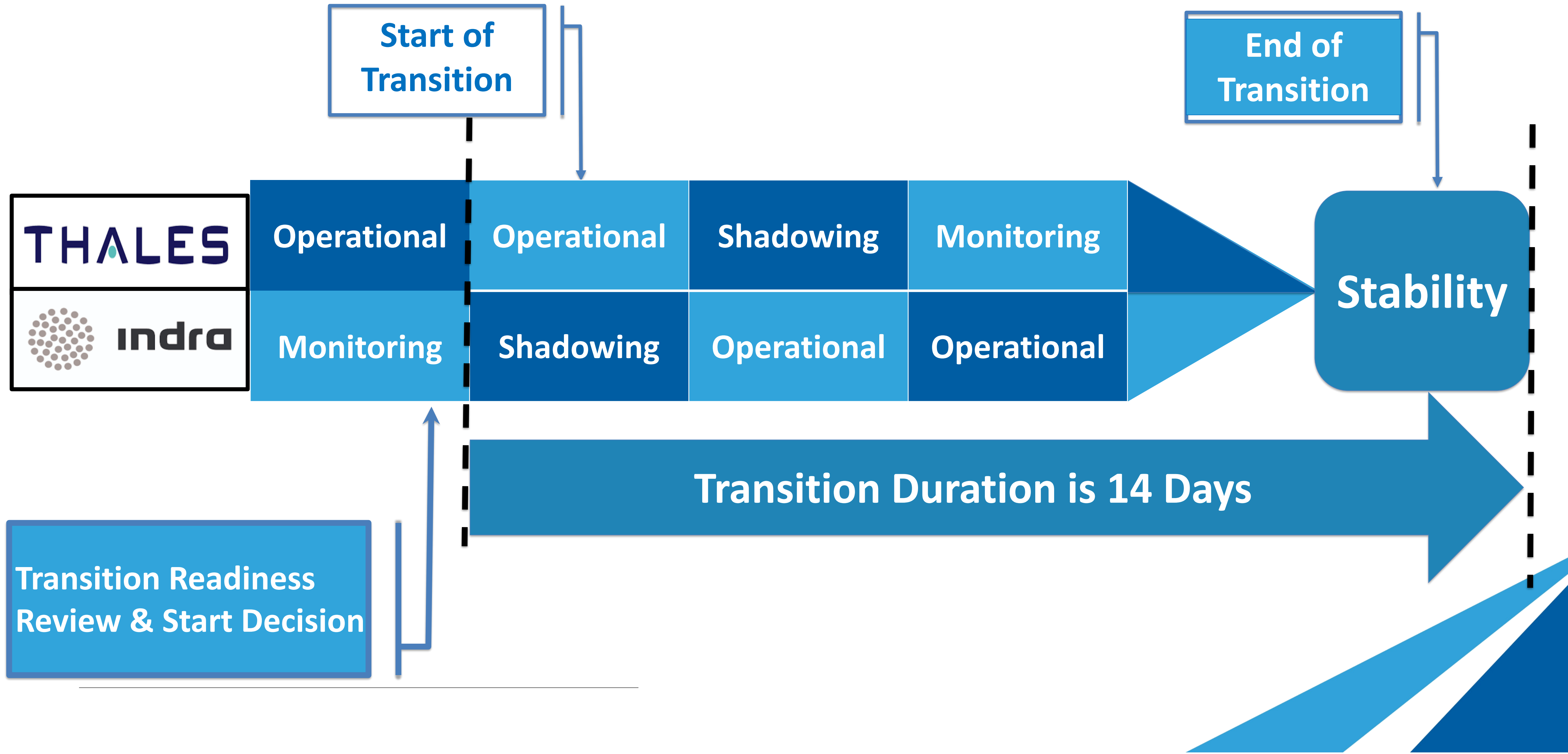
1. Supervisor
2. TWR
3. GND



Hail TWR

1. Supervisor
2. TWR
3. GND

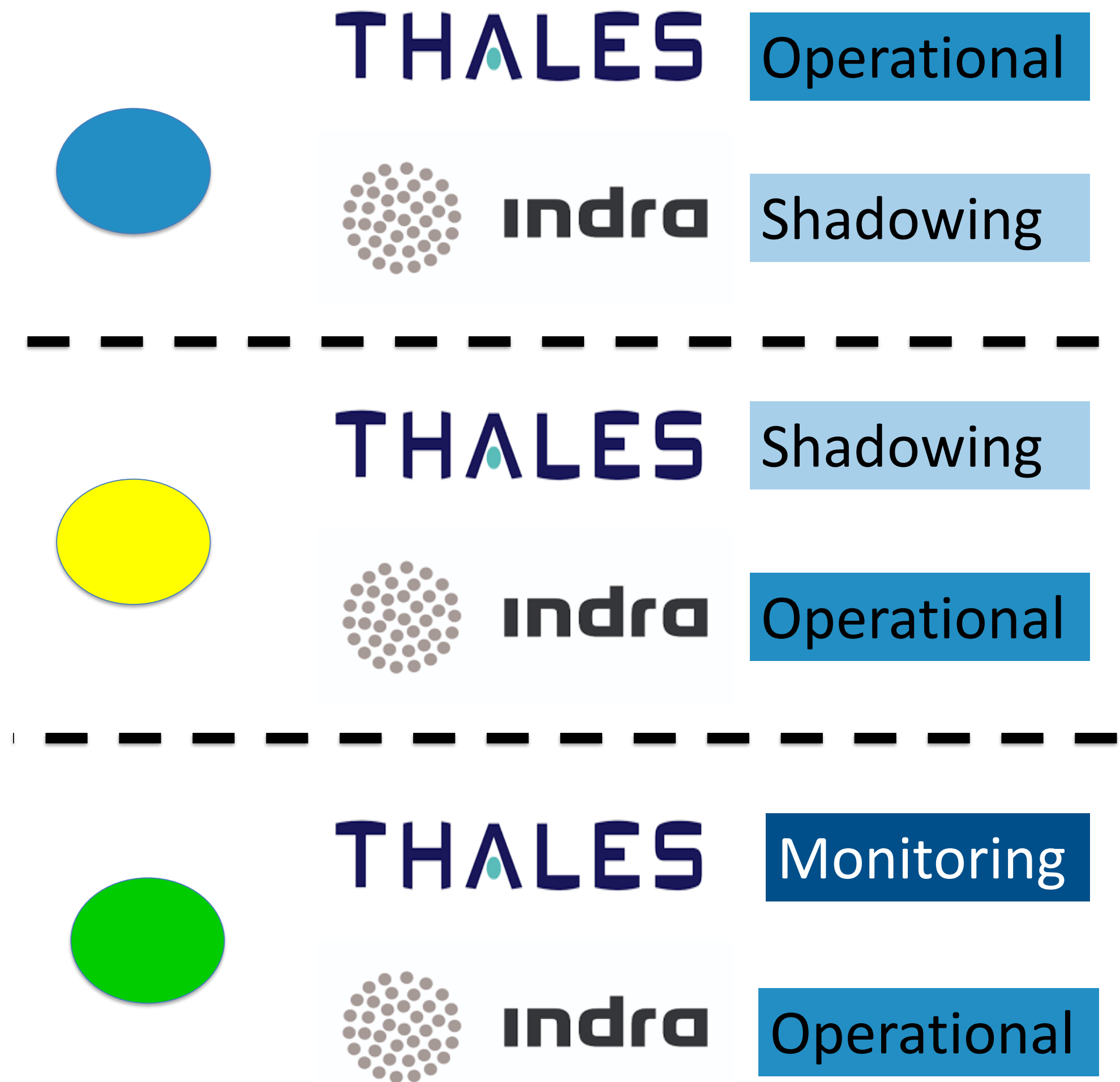
Transition Stages Activities





Transition Stages Activities

#	Day	Morning	Afternoon	Night
1	Day 1	●	●	●
2	Day 2	●	●	●
3	Day 3	●	●	●
4	Day 4	●	●	●
5	Day 5	●	●	●
6	Day 6	●	●	●
7	Day 7	●	●	●
8	Day 8	●	●	●
9	Day 9	●	●	●
10	Day 10	●	●	●
11	Day 11	●	●	●
12	Day 12	●	●	●
13	Day 13	●	●	●
14	Day 14	●	●	●
15	Day 15	Cut-over		





Required Resources for Transition Daily Activities



Required Resources for Transition Daily Activities

#	Group	Number of Required Transition Team Member	Total Required
1	<ul style="list-style-type: none"> ACN (NORTH) ACE (EAST) ACNE (NORTHEAST) APP (APPROACH Gassim) APP (APPROACH Hail) 	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
2	<ul style="list-style-type: none"> APU (APPROACH Upper) APM (APPROACH Middle) APL (APPROACH Lower) 	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
3	<ul style="list-style-type: none"> APP/ACC Supervisor APP MIL (APPROACH Military) Riyadh ADNC Flight Data Positions (FDS) 	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
4	Riyadh TWR	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
5	Old Riyadh TWR	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
6	Riyadh Communication Office (FDD) Positions	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
7	Gassim TWR	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
8	Hail TWR	1 Straight Morning Schedule 1 Straight afternoon Schedule 1 Straight Night Schedule	3
Total			24

Each group per shift will be supported by one of the transition team member who will be responsible for supporting ATCOs in operational activities performed with the Indra ATM system functions



Checklists & Forms



Transition Pre-requisites Checklists Forms

Issue Report Form



Forms

Transition Pre-requisites Checklist Form

#This checklist is to be used
before starting of the transition

#	Prerequisite Item	Status	Comments
1	SAT has been successfully passed.	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
2	ATC Training has been completed.	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
3	Technical Training has been completed.	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
4	Transition safety risk assessment has been completed and all safety requirement & recommendations are implemented.	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
5	Operational & technical procedures are available.	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
6	Unit transition team is available for the transition.	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
7	Transition Plan is approved	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
8	People concerned or impacted by the transition (e.g. adjacent ATS units) have the information about the actual dates of the transition	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	



Forms

Transition Pre-requisites Checklist Form

#This checklist is to be used
before starting of each stage

#	Prerequisite Item	Status	Comments
1	Starting of the stage is outside of the peak period of traffic	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
2	Technical and operational issues which were detected during the previous stage of the transition have been addressed	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
3	A review of the issues shall conclude that there is no outstanding major problem which prevents to go ahead with the next step of the transition	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
4	GO/ NO GO Decision	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	
5	For the operational stage, a decision is made that the new System is ready to become the operational System	<input type="checkbox"/> Done <input type="checkbox"/> Incomplete	



Forms

Issue Report Form

#This form is for day-to-day operation, to be used by the team for their observation during the transition

#	Position/Equipment	Time / Issue Description	Remark
1			
2			
3			
4			
5			
6			
7			

THANK YOU

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SANS

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Saudi Air Navigation Services