

ITU-T SG17 Mini Workshop on ITU-T X.1060

# Exploring the Transformative Journey: Algeria Telecom's Implementation of the X.1060 Framework

**Abdenour Bourennane**

Algérie Télécom



22 February 2024  
Geneva, Switzerland

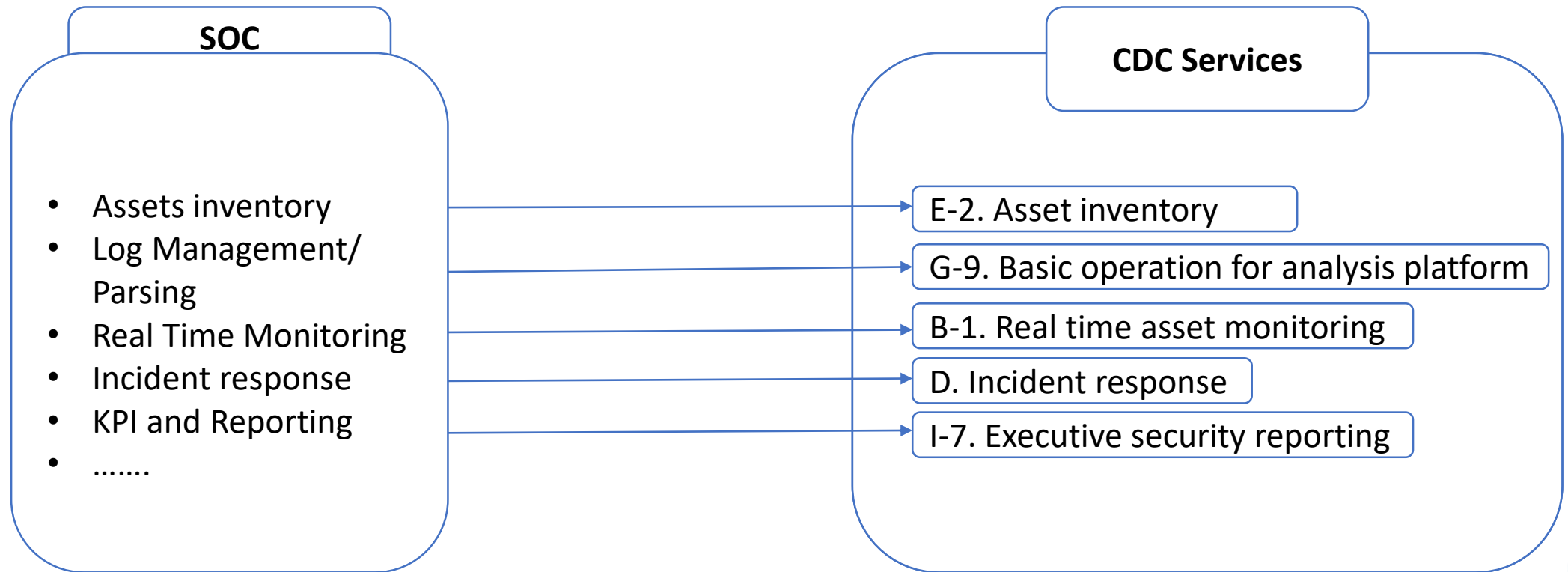


# Objectives

- Increase security capabilities.
- Establishment an entity that handles Cyber security services/operations.
- Create a common language for stakeholders.

# The shift from SOC to CDC

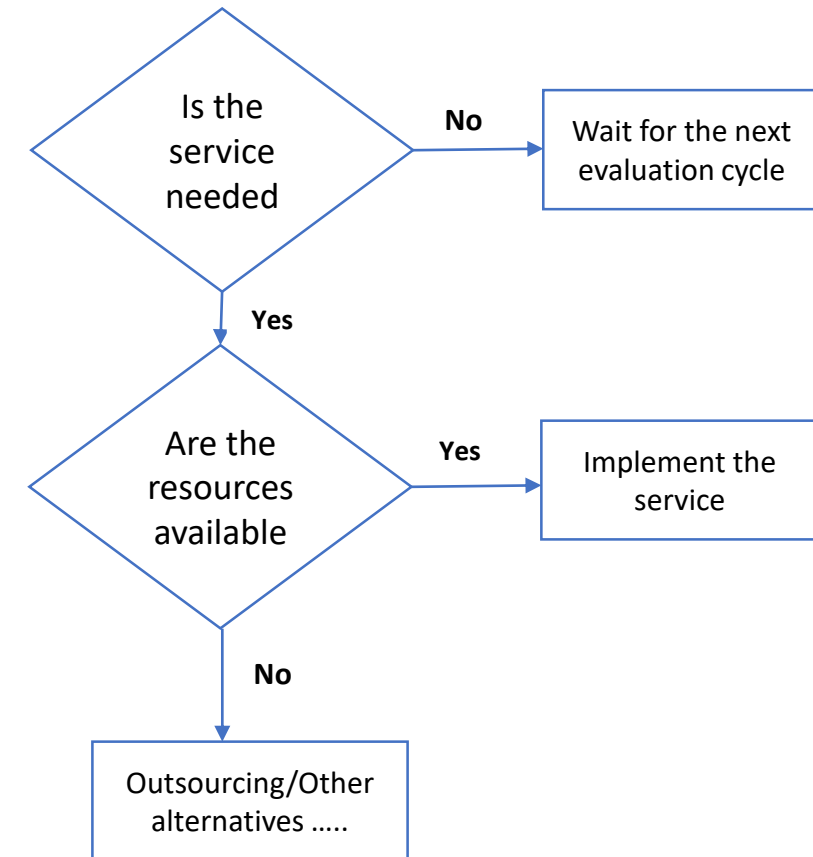
- SOC functions were mapped to CDC services



# The New Services

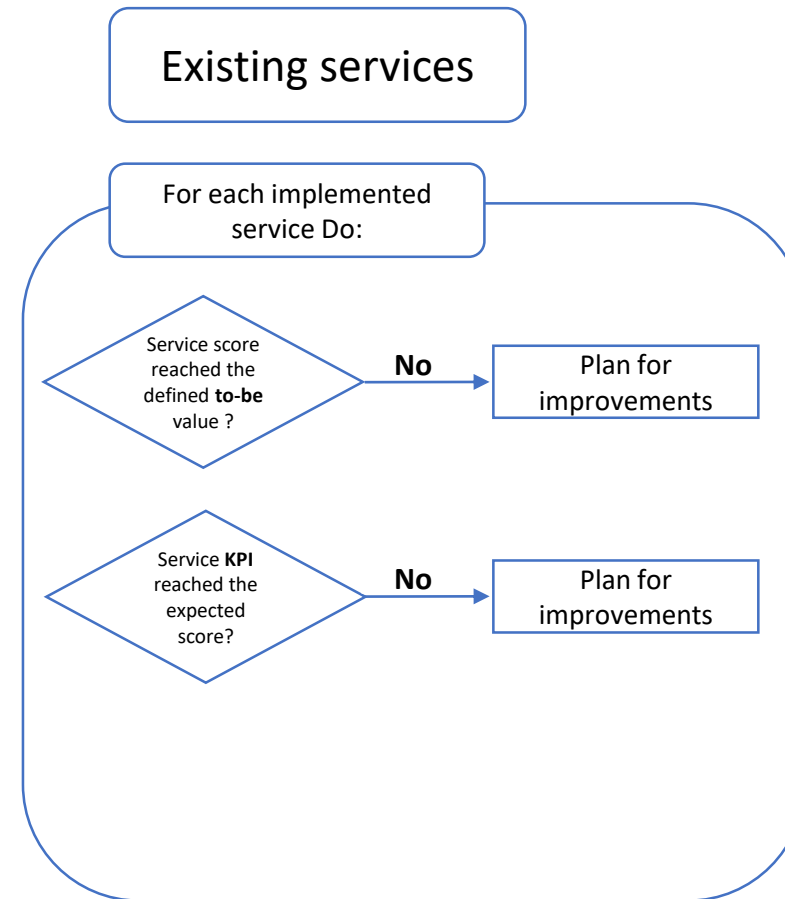
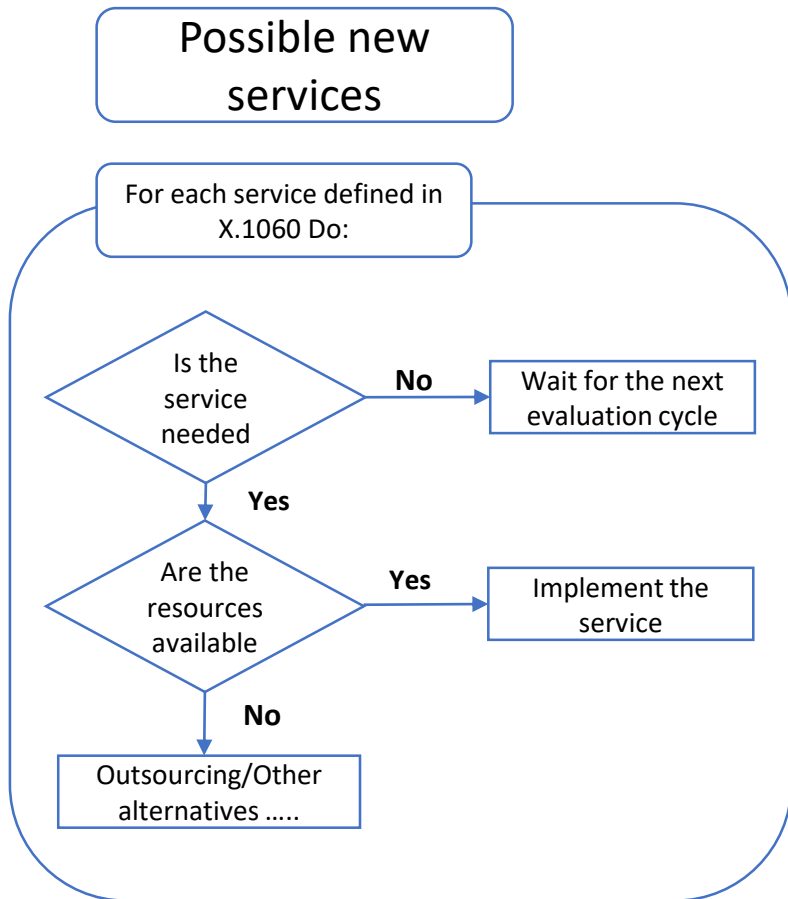
- **Considerations:**
  - Is the service needed (Business needs, risks, Objectives ...)?
  - Are the resources available (Financial, Human ...)?

Considering these questions assisted in identifying the required services for implementation and determining the optimal approach for their execution.



# Service Evaluation

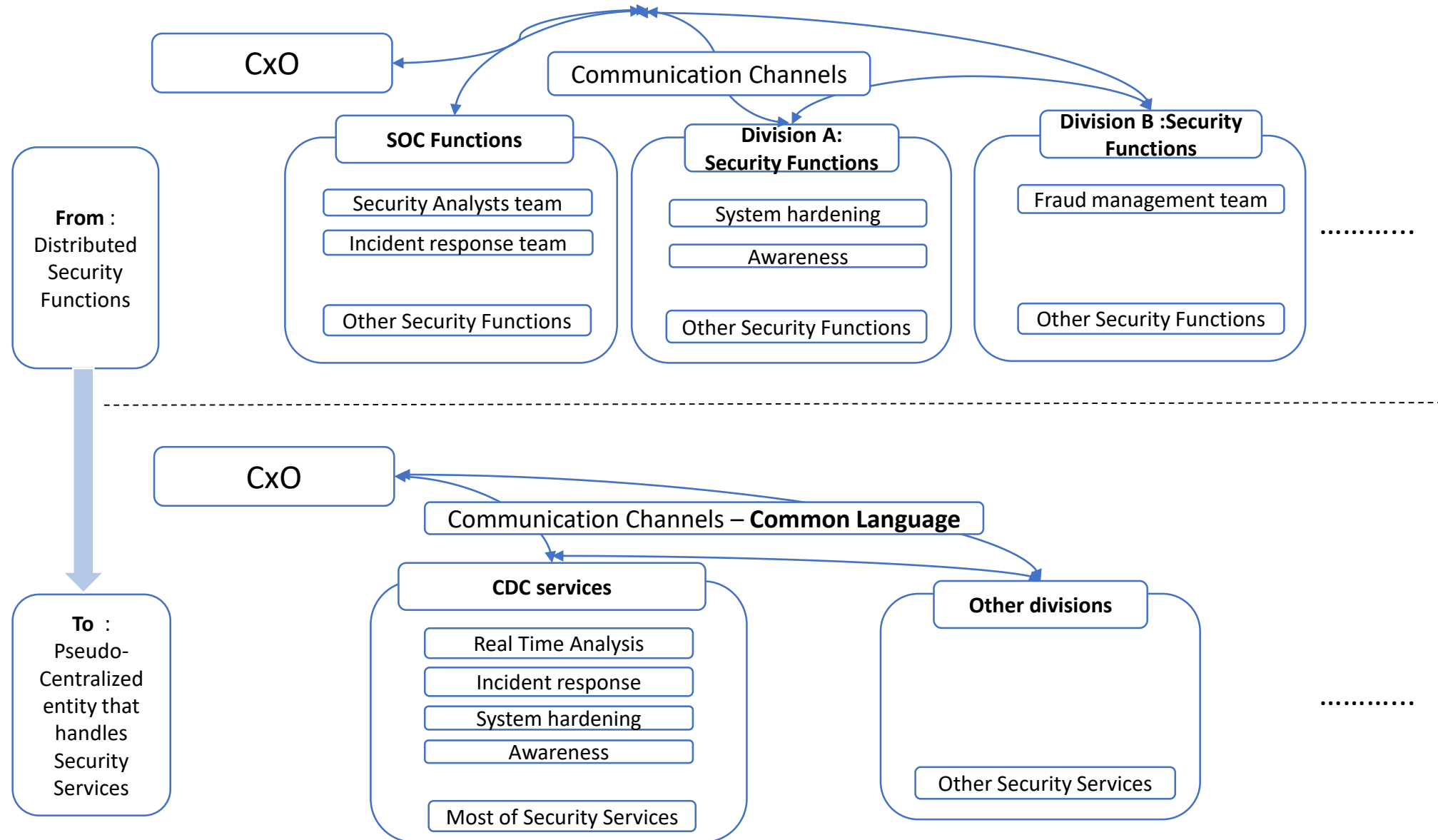
- Evaluation should be periodic



# The organizational structure - 1

- The services detailed in X.1060 are extensive and address the essential elements needed for an **entity** to proficiently handle security needs.
- A service could be implemented as an entity/Team, such as a team that handle **Penetration Testing (E.5)**.
- An entity/Team can handle a set of services --> **incident response** team can handle services defined in **Category D**.

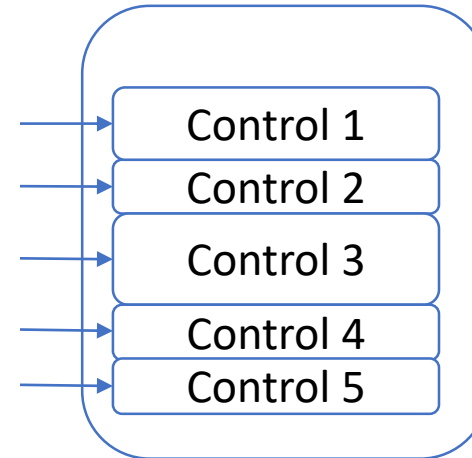
# The organizational structure -2



# Service Assessment -1

Table 3 – CDC service scores

For insource	
Documented operation is authorized by CISO or other organizational director who has appropriate responsibilities	+5 points
Operation is documented and others can play the role of existing operator	+4 points
Operation is not documented, and others can play the partial role of existing operator temporarily	+3 points
Operation is not documented, and the existing operator can play role	+2 points
Operation is not working	+1 point
Decided not to implement by insourcing	N/A

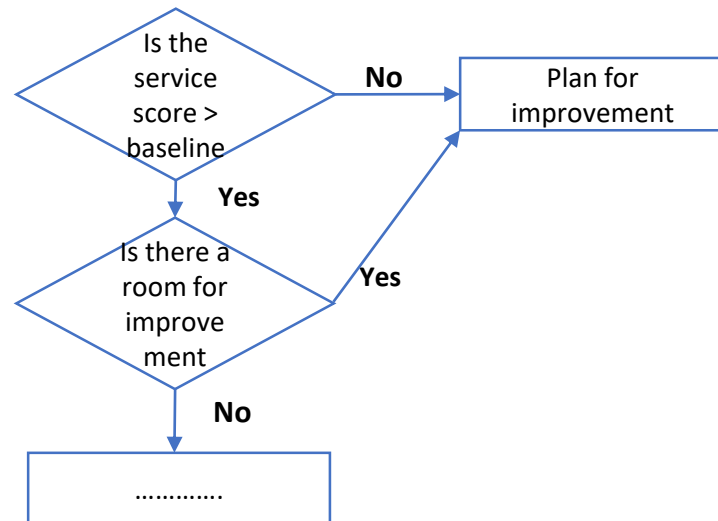


Service	Control1	Control2	Control3	Control4	Control5	Service Score
Real-time asset monitoring	5	4	3	2	0	14
Event data retention	0	4	3	2	0	9
Alerting and warning	5	0	3	2	0	10
Handling enquiry on report	0	0	0	2	0	2



# Service Assessment -2

- The process of assessment:
  - Define a value that is considered good enough (a baseline)



# Service Performance (KPI) -1

It is beyond the scope of the X.1060 recommendation.

Each service exhibits distinct characteristics.

It is not feasible to establish universal performance indicators applicable to all services.



# Service Performance (KPI) -2

The methodology pursued involved:

- Re-using the Same KPIs used to measure SOC performance.
- Developing Key Performance Indicator (KPI) metrics tailored to individual services/teams.
- Assessing each service/team independently.
- Formulating metrics to assess the overall performance of the CDC.



# Service Performance (KPI) -3

- Example: KPIs for services B1 and B3.
    - Mean Time to Detect
    - Mean Time to Attend and Analyze
    - Ratio of Detected/Not Detected Attacks
    - Ratio of Monitored/Not Monitored Assets
- .....

# Added Value of X.1060

- Facilitates straightforward exploration and comprehension.
- Applicable to both C-level Executives and technical teams alike.
- Establishes a standardized communication conduit.
- Adaptable and offers numerous implementation possibilities.



# Thank you!

[Abdenour.Bourennane@algeriatelecom.dz](mailto:Abdenour.Bourennane@algeriatelecom.dz)

+213661866747

