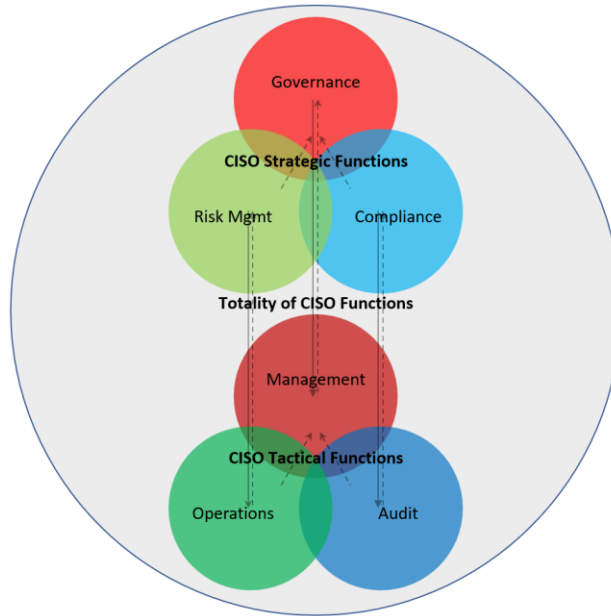


CISO Functional Model: Strategic-Tactical Dependencies

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Posit

The total domain of CISO Functions (F) is composed of two distinct sets: the Strategic Functions (S) and the Tactical Functions (T).

S consists of Governance (g) as primary, informed by Risk Management (r), and assured by Compliance (c).

T consists of Management (m) as primary, executed by Operations (o), and verified by Audit (a).

All functions are independent, coordinated, and paired as Governance/Management, Risk Management/Operations, and Compliance/Audit.

The Strategic Functions direct the Tactical Functions, and the Tactical Functions inform the Strategic Functions.

Legend

- \Rightarrow Specialized semantic connector of Strategic Direction to the Tactical component.
- \rightarrow Specialized semantic connector of Tactical Feedback to the Strategic component.

Formula

$$(S = \{g, r, c\} \wedge T = \{m, o, a\}) \wedge (S \cap T = \emptyset) \wedge (F = S \cup T) \wedge \\ [(g \Rightarrow \{r, c\}) \wedge (r \rightarrow g) \wedge (c \rightarrow g) \wedge (m \Rightarrow \{o, a\}) \wedge (o \rightarrow m) \wedge (a \rightarrow m)] \wedge$$



$[(g \Rightarrow m) \wedge (m \rightarrow g)) \wedge ((r \Rightarrow o) \wedge (o \rightarrow r)) \wedge ((c \Rightarrow a) \wedge (a \rightarrow c))]$

Explanation

The formula is built on four core assertions: Structure, Separation, Internal Coordination, and External Interdependence.

Structure and Separation

$(S = \{g, r, c\} \wedge T = \{m, o, a\})$ establishes the groups: The Strategic set (S) contains g , r , and c . The Tactical set (T) contains m , o , and a .

$(S \cap T = \emptyset)$ shows Separation: The two sets are disjoint; they share no members.

$(F = S \cup T)$ shows Totality: The two sets combined represent all of the CISO's domain (F).

Internal Coordination

This section defines the internal hierarchy within each set:

$g \Rightarrow \{r, c\}$: Governance (g) directs (\Rightarrow) the other strategic functions.

$r \rightarrow g$ and $c \rightarrow g$: Risk Management (r) informs (\rightarrow) Governance, and Compliance (c) assures (\rightarrow) Governance.

$m \Rightarrow \{o, a\}$: Management (m) directs the other tactical functions.

$o \rightarrow m$ and $a \rightarrow m$: Operations (o) executes for Management, and Audit (a) verifies for Management.

External Interdependence

This section defines the three paired, bidirectional relationships that connect the strategic and tactical sets:

$(g \Rightarrow m) \wedge (m \rightarrow g)$: The g/m pair is interdependent. Governance directs Management, AND Management informs Governance.

$(r \Rightarrow o) \wedge (o \rightarrow r)$: The r/o pair is interdependent. Risk Management directs Operations, AND Operations informs Risk Management.

$(c \Rightarrow a) \wedge (a \rightarrow c)$: The c/a pair is interdependent. Compliance directs Audit, AND Audit informs Compliance.

Summary

The entire formula confirms that the CISO's domain is a system of six distinct functions, each operating under a primary lead within its own group, but all organized into three interdependent pairs where the strategic component guides the tactical, and the tactical reports back to the strategic.

