Planning an efficient Security Operations Centre

Ashwin Venugopal - Founder, OpsConfer



Overview

This is a heavily modified version based on Microsoft® Operations Framework (MOF) and this consists of integrated best practices, principles, and activities that provide comprehensive guidelines for achieving reliable SOC based on my experience.

This framework provides question-based guidance that allows you to determine what is needed for your organisation now, as well as activities that will keep the SOC running efficiently and effectively in the future.

This documentation encompasses all of the activities and processes involved in planning a Security Operations Centre. Here we will organise activities and processes into Functions, which will be again grouped together in plan phase.

Look for further documentations on Deliver, Operate and Manage Phase/sections of SOC Implementation Project. It will also continue similar documentation style.

We are an IT startup that is based at Bangalore, India and we focus on Cyber Security, Cloud & Security services.

We also work with MSSPs and work towards setting up a matured SOC.

At any point if you need any assistance, please feel free to reach to us on services@opsconfer.com. We we will be happy to assist you.

Thank you,

Ashwin Venugopal

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Overview

Business/IT Alignment Reliability Policy Financial Management PLAN Operations Envision Service Monitoring Project and Control Planning Customer Service Build Problem Management Stabilize Governance. Deploy Risk, and Compliance Change and Configuration

Goal

Our goal is to provide guidance to organisations to help them create, operate, and support SOC services while ensuring that the investment in SOC delivers expected business value at an acceptable level of risk.

Our purpose is to create an environment where business and SOC can work together toward operational maturity, using a proactive model that defines processes and standard procedures to gain efficiency and effectiveness. Using MOF this promotes a logical approach to decision-making and communication and to the planning, deployment, and support of SOC services.

What do we do unique?

- Our Overview guides are directed toward CIOs who need to see the big picture.
- Our Overview and workflow information in function-specific guides created are geared toward SOC managers who need to understand the SOC service strategies.
- Our Activities in function-specific guides are meant for the Security professionals who implement this framework within their work.

This documentation consists of a series of Phases, Functions, Processes & Activities. These describe the activities that need to occur for successful SOC service management—from the assessment that launches a new or improved service, through the process of optimising an existing service, all the way to the retirement of an outdated component.

Overview



Does Your Business Need a Security Operations Centre?

In the day and age of sophisticated digital hackers, your concern shouldn't be if you're going to get hacked, but what you're going to do when it happens. Investing in a security operations centre (SOC) can be your saving grace during an attempted cybersecurity attack. Cybersecurity is no longer just an IT problem—it's an organisational issue. Find out if a security operations centre is the ideal solution for securing your enterprise against cyber threats.

A security operations centre is an organisational hub of highly skilled team members and technology whose goal is to detect, prevent, and respond to cybersecurity threats. A security operations centre continually monitors a business' cybersecurity, preventing serious breaches in real time.

The SOC takes into account the physical safety, the functionality of the centre's layout, and the SOC's overall design. SOCs require several areas, including a supervisor's office and an operational room. The design of each zone must optimise comfort, efficiency, and visibility during operations.

To find out if building security operations centre is right for your company, ask yourself a few questions:

Do you have the tools and expertise to build a SOC in-house?

Building your SOC internally is possible with the right leadership and support. If you own a larger organisation, you likely already have the in-house tools and skills to build a security operations centre successfully.

Do you have the right people in place?

You need a team of trained and experienced people to research and identify potential cyber threats. If you don't have such a team, make sure you have room in the budget to hire one before building your SOC.

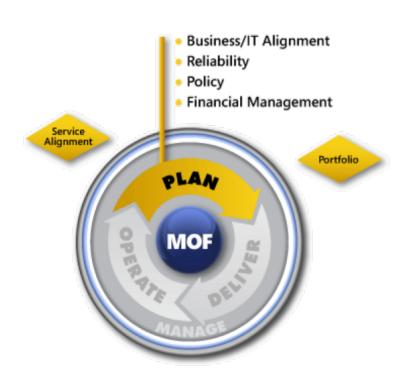
Does your business handle data you need to monitor 24/7?

If so, a security operations centre can be a game changer. SOCs enable you to carefully track your data around the clock, swooping in to neutralise a threat at a moment's notice.

Do you have money in the budget to build the facility?

Partnering with the right SOC provider can help you adhere to a budget with tailored solutions, but you still have to ensure that you have the money to integrate the equipment you need.

Many modern businesses across several industries could benefit from a security operations centre, particularly since business continues to become more data-centric. If you answered yes to these four



Overview of the Plan Phase

- Understanding the business strategy and requirements and how the Security Operations Centre support the business.
- Understanding what reliability means to this Security Operations
 Centre and how it will be measured and improved by reviewing
 and taking action where needed.
- Understanding what policy requirements exist and how they impact the Security Operations Centre.
- Providing the financial structure to support the Security Operations Centre and drive the right decisions.
- Creating an Security Operations Centre strategy to provide value to the business strategy and making the portfolio decisions that support that Security Operations Centre strategy.

Goals of the Plan Phase

- Valuable and compelling.
- Predictable and reliable.
- Compliant.
- Cost-effective.
- Adaptable to the changing needs of the business.

Business/IT Alignment Reliability Policy Financial Management Portfolio PLAA Portfolio

Why do you need a Security Operations Centre?

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The Plan Phase is where business and SOC Team work as partners to determine how SOC will be focused to deliver valuable services that enable the organisation to succeed.

SOC Strategy.

The SOC strategy is the plan that aligns the organisation's objectives, policies, and procedures into a cohesive approach to deliver the desired set of services that support the business strategy. Quality, costs, and reliability need to be balanced in order to achieve the organisation's desired outcomes.

During the Plan Phase, Cyber Security professionals work with the business to align business objectives and functions with SOC's capabilities and constraints. The SOC strategy is the result of this alignment and serves as a roadmap for SOC. The strategy continually evolves and improves as organisations improve their optimising skills and ability to adapt to business changes.



Business/IT Alignment Function

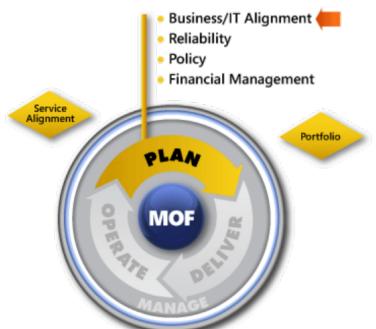
Q: What do businesses want from SOC?

A: SOC that is reliable, compliant, and cost-effective, and that continuously adapt to ever-changing needs.

If you want to strengthen the alignment between your SOC department and the larger organisation, start with this list of questions. Your answers will determine which areas of this document can help you the most.

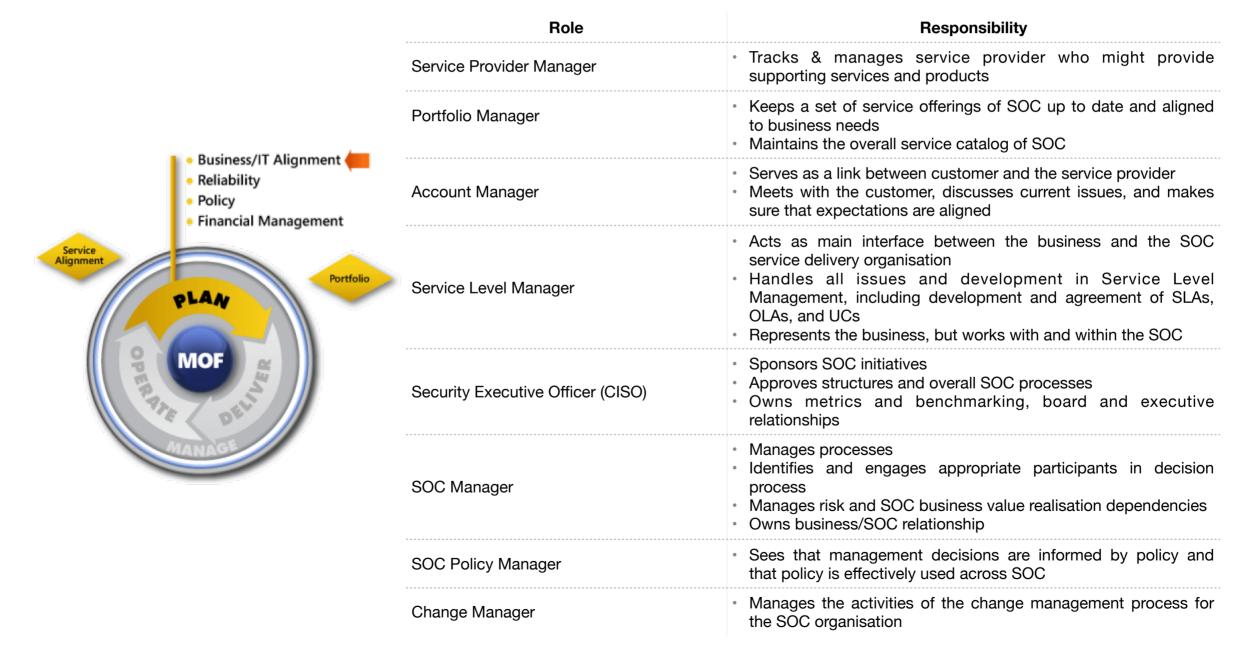
- Do you have an SOC strategy in place? Is it aligned to organisational objectives?
- Is the strategy communicated? Does everyone have a clear understanding of the strategy?
- Is the strategy measured, and are opportunities for improvement identified?
- Are there service level agreements (SLAs) in place for the SOC?
- Is there a process for identifying and approving new SOC concepts?
- Is there a published portfolio of SOC? Is it clearly communicated and understood the business representatives?
- Is there a clear connection between the strategy and SOC's portfolio of tasks and services?
- Is SOC service demand measured and analysed?
- Are new business requests accepted, organised, managed, and acted upon?

Business/IT Alignment Function | Goals Goal Business/IT Alignment Measurements

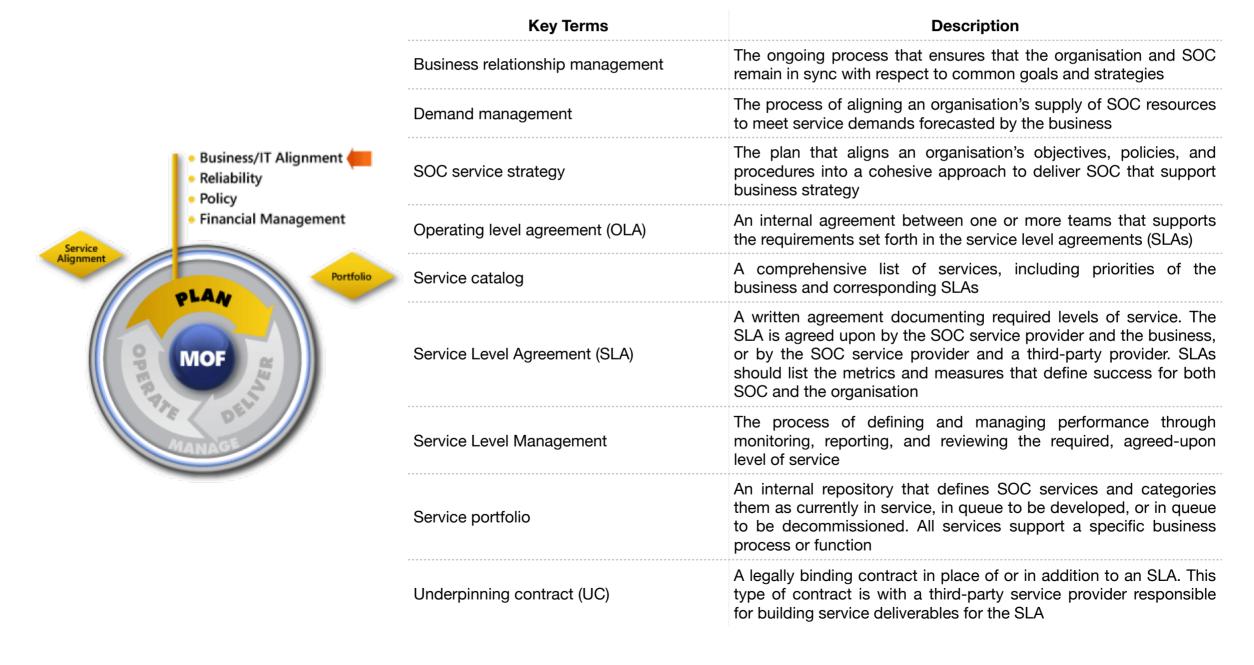


	Goal		Measurements
	The business considers SOC as a strategic asset.	•	The business continues to invest in enhancements of SOC. The business consults with SOC as part of strategic decisions, acquisitions, or new directions.
	SOC has a strategic plan.	•	The business and SOC publish and measure an annual SOC service strategy. The strategy articulates the linkages between SOC goals and the business goals and outlines measurements, budget, risks, and a plan for execution.
	SOC has an understanding of its capabilities and resources.		SOC has a predictable model for estimating resource consumption and the adoption of new technologies. SOC measures business demand of services offered and uses this information for planning purposes.
	SOC has a set of defined services and tasks that support the strategic plan.		SOC has a published service portfolio that identifies all tasks. SOC has a published service catalog that identifies and describes all services offered to the organisation by SOC.

Business/IT Alignment Function | Roles & Responsibilities



Business/IT Alignment Function | Key Terms



Business/IT Alignment Function | Processes & Activities

Process	Description	Activites
Define a SOC Service Strategy Policy Financial Manager Service Alignment	A SOC service strategy determines which services are required to support business goals and objectives. Business and SOC management must carefully discern which initiatives offer the highest business value while ensuring the availability of necessary resources and the commitment to deliver on the investment. A successful service strategy will ensure that: SOC goals are aligned to business goals. Annual SOC initiatives that support business goals have been identified. There is agreement on both the strategy and a corresponding plan for achieving the goals and initiatives. The strategy is assessed against business outcomes. Opportunities for improvement are identified.	 Mapping and prioritising business functions to the SOC service portfolio. Defining initiatives. Finalising and agreeing on an annual strategy.
Identify and Map SOC Services	Service maps are used throughout the organisation to clarify the dependencies between SLAs, OLAs, technologies, customers, and the impact to the service delivery. They identify the resources necessary to deliver a service described in the service catalog, who delivers that service, and who consumes it. A service map represents a service from the perspective of the business and the user. It is divided into five sections: Customers. A categorised list of individuals and groups who use the service. Hardware. The hardware platforms necessary for service delivery. Applications. The operating system(s) and other applications the service requires. Settings. The configuration settings necessary for the service to function.	 Identifying services and owners. Identifying key customers and users. Reviewing, classifying, and categorising key service component groups and service owners. Publishing a service map.

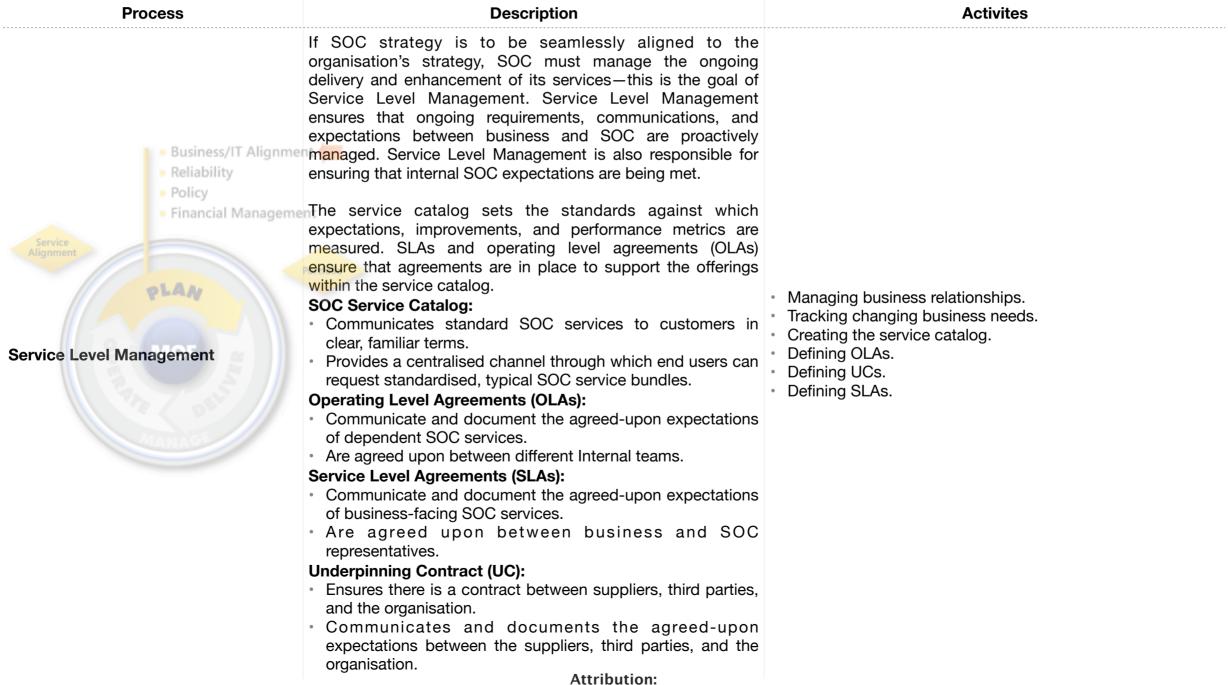
Business/IT Alignment Function | Processes & Activities

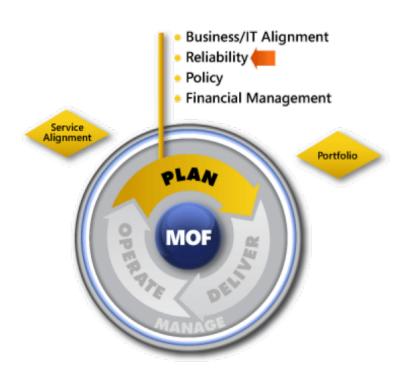
Process	Description	Activites
Identify Demand Bands Manage Business Requests Reliability Policy Financial Management	Demand and request management analysis is a process that articulates how SOC services are being used and requested by the organisation and how future trends might affect the services. Demand management data helps managers plan and account for their SOC expenditures, understand the SOC business services they are receiving in return, and participate in decisions about future projects and resource allocation. A fully matured demand and request management process will ensure that: There is a predictable process for managing requests. There is a consistent model for measuring current demand. There is a method of analysing requests and current service capacity.	 Managing new requests. Capturing current usage and demand. Identifying and validating future trends. Analysing demand and requests.
MOF	When an organisation has finalised its SOC service strategy, the business and SOC must determine which projects and services best support that strategy. The SOC service portfolio is the list of those projects and services. Ensuring that the right services and projects are included in the portfolio requires the following components:	
Develop and Evaluate SOC Service Portfolio	 Proposed projects aligned to SOC strategy initiatives A list of projects in the queue, implemented services, and services slated for decommission A prioritisation and approval process for new projects A measurement system for determining the value of services in relation to business goals 	 Defining the structure and composition of the SOC service portfolio. Measuring the value of SOC services in relation to business outcome. Analysing and approving new project concepts. Publishing a portfolio.
	The SOC service portfolio drives the alignment of SOC resource consumption, the operating budget, and investment strategies that support the SOC service strategy. The portfolio's primary users are the business and SOC leaders responsible for realising business value from the investment in SOC. Attribution:	

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Business/IT Alignment Function | Processes & Activities





Reliability Function

Why Use the Reliability Function?

This function should be useful for anyone who wants to understand, set targets, and measure SOC service reliability.

It addresses creating plans for the following:

- Confidentiality
- Integrity
- Availability
- Continuity
- Capacity

A reliable service or system is dependable, requires minimal maintenance, will perform without interruption, and allows users to quickly access the resources they need. These characteristics are not only true for business-as-usual conditions; they must also apply during times of business change and growth and during unexpected events.

Ensuring reliability involves three high-level processes:

- Planning. Gathering and translating business requirements into IT measures of SOC
- Implementation. Building the various plans and ensuring that they can meet expectations
- Monitoring and Improvement. Proactively monitoring and managing the plans and making necessary adjustments

Business/IT Alignment Reliability Policy Financial Management Service Alignment Portfolio PLAA Portfolio

Reliability Function | Goals

	Goal		Measurements
	SOC capacity aligned to business needs	•	Proactive capacity plan No capacity-related service disruptions Procurement/purchasing plan developed and adhered to
	SOC Services available when needed		Proactive, cost-justified availability plan Reduction in service failures Minimized service disruption from anticipated failures
	Critical SOC services available during significant failures	•	SOC disaster recovery aligned to business continuity plan Tested, trusted, recovery plan supported by the business
	Data integrity and confidentiality maintained	•	Data classified and managed according to business policy No exceptions to data handling and integrity requirements

Reliability Function | Roles & Responsibilities

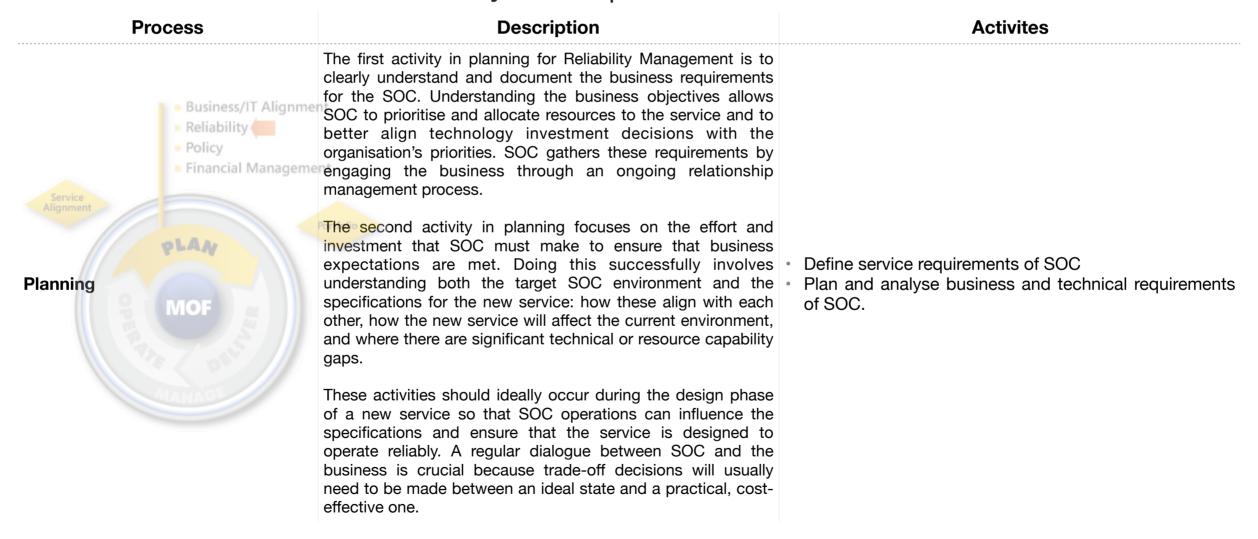


Business/IT Alignment Reliability Policy Financial Management Portfolio PLAN Portfolio

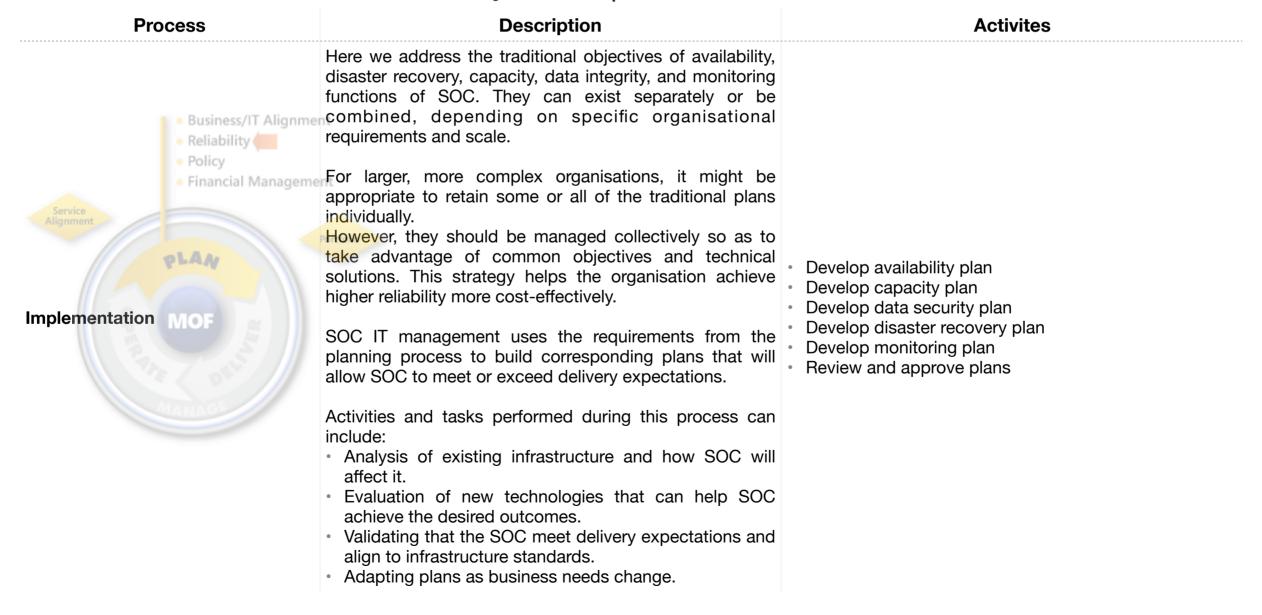
Reliability Function | Key Terms

	Key Terms	Description	
	Availability management	The process of managing a SOC so that it is accessible when users need it. Availability is typically measured in percentage of uptime; downtime refers to periods of system unavailability.	
	Business continuity planning	The process for planning and practicing SOC's response to a disaster or disruptive event. These activities span the organisation; beyond just SOC functions.	
	Capacity management	In the context of SOC, capacity refers to the processing or performance capability of a service or system. Capacity management is the process used to ensure that current and future SOC needs are met in a cost-effective manner. This process is made up of three sub-processes: business, service, and resource capacity management.	
	SOC Service Continuity Management	The process of assessing and managing SOC risks that can significantly affect the delivery of services of SOC to the business.	

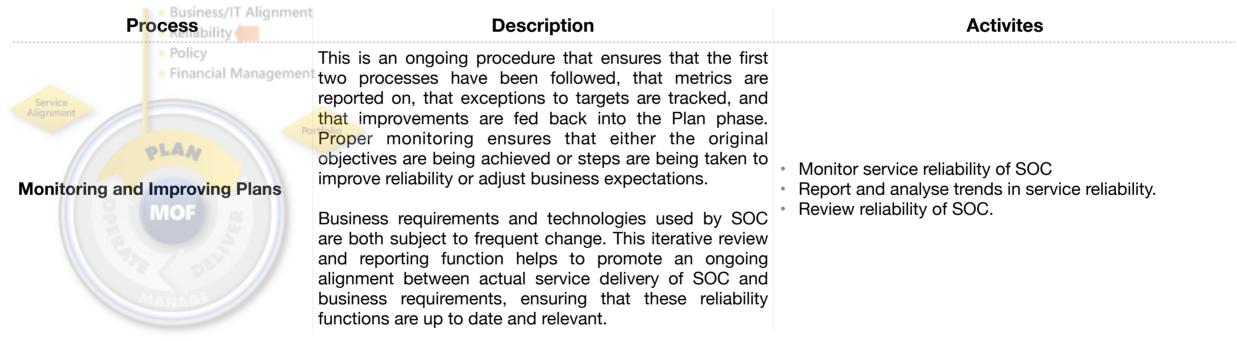
Reliability Function | Processes & Activities

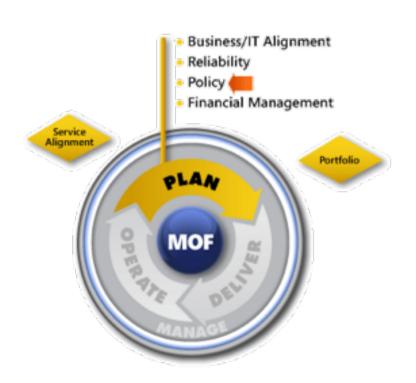


Reliability Function | Processes & Activities



Reliability Function | Processes & Activities





Policy Function

Why Use the Policy Function?

This Function should be useful for anyone with responsibility for IT policy, which ultimately means everyone in the IT organisation. This is because policies are not only created and maintained, but they also need to be communicated, understood, and applied.

This Function provides sufficient context to understand the reasoning behind policies, the creation, validation and enforcement of policies, and how the policy management process communicates the policy and incorporates feedback about the policy.

The purpose is to help the SOC remain in compliance with directives.

For the sake of clarity, these are the policies that address people and process; these are not machine-based control policies such as Group Policy Objects.

This Function addresses how to:

- Determine areas requiring policy.
- Create policies.
- · Validate policy.
- Publish policy.
- Enforce and evaluate policy.
- Review and maintain policy.

Business/IT Alignment Reliability Policy Financial Management Portfolio PLAN Portfolio

Policy Function | What purpose does policy serve in SOC?

What can be done so Cyber Security Professionals find company policies helpful and enforceable? This function describes the process of translating and documenting organisational goals and values into written policies.

A policy explains what to do in a particular set of circumstances by providing necessary rules and requirements and by setting expectations about conduct. Policies help organisations clarify performance requirements, communicate management's intent for how work should be done, and establish accountability and the foundation for compliance.

Procedures break policies down into detailed steps that describe how work should be done and identify who should do what. To be effective, policies and procedures need to accurately reflect what the organisation wants done—they should clearly describe circumstances, rules, options, and activities in a way that is understandable and can be readily put into practice.

Although potentially wide-ranging, policy generally renters on the following topics:

- Policy governance
- Security
- Privacy
- Partner and third-party relationships
- Knowledge management
- Appropriate use



Policy Function | Policy Management

Policy management includes writing policies, validating policies with stakeholders, and developing detailed procedures. It also helps determine how to implement and enforce policy and establishes the ongoing processes for policy improvement and maintenance.

Any organisation approaching policy management should be aware of the relationship between its policies and its internal control environment. When management considers a certain goal and its related risks, it must also consider whether to write a policy addressing that goal.

The purpose is to communicate a clear standard of behaviour to employees so that they know they will be expected to comply. Good policy management focuses policies on the right goals, ensures review and evaluation by the right people, and helps keep policies current.



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Business/IT Alignment Reliability Policy Financial Management Portfolio PLAA MOF

Policy Function | Goals

Goal		Measurements		
	Policy supports management objectives	 Audits of policies indicate that they appropriately reflect management objectives. 		
	Employees utilise policy	 There are no audit issues related to activities defined in policies. 		
	Regulatory compliance	All regulatory audits are passed with no deficiencies.		
	Organisational compliance	 All compliance audits are passed with no deficiencies (for example, security, privacy, or standards of conduct). 		

Policy Function | Roles & Responsibilities Responsibility



Policy Function | Key Terms Key Terms Description Business/IT Alignment Reliability A deliberate plan of action to guide decisions and achieve Policy 🛑 rational outcomes. (This definition deals with human-readable Policy Financial Management descriptions of desired behaviour, not machine-readable descriptions). A state when the technical and business goals and strategies Portfolio SOC alignment of the SOC completely match the goals and strategies of the overall business. A detailed description of how work will be done by people or systems. It is the method for applying and implementing Procedure policy. A set of interrelated tasks that, taken together, produce a defined, desired result. Policies are translated into systems, **Process** resources, and processes to operate the business.

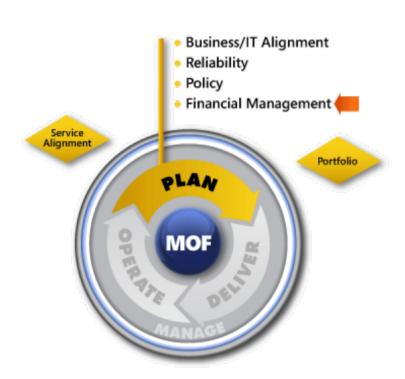
Policy Function | Processes & Activities Description Process Activites A key activity in Policy is the process of aligning the goals of the SOC to those of the overall Business/IT Alignment business, then using that information to decide Policy (which areas need to have policies created. Financial Management Organisational goals should be evaluated to determine possible risks. The impact of risks can Documenting goals. **Determine Areas Requiring** be evaluated by considering what might happen if Assessing current state. the expectations surrounding that risk are not • Envisioning future state. **Policy** made clear to everyone in the organisation. If an Performing gap analysis. identified risk and its impact stand in the way of achieving a goal, then it will likely need to be addressed by a policy. In this way, management establishes clear guidelines that help ensure desired performance, fitting checks and balances, and appropriate workplace interactions.

Policy Function | Processes & Activities

Process	Description	Activites
Business/IT Alignment Reliability Policy Financial Management Create Policy MOF	In this process, the group responsible for policy creation actually drafts the policies, often through the use of a standardised policy template. Specific types of policies are used to address different topic areas. Security policies and privacy policies may result in detailed implementations and configurations of SOC infrastructure. This may be expressed through a Group Policy Object (GPO). When taken all together, GPOs establish allowable activities related to devices, users, or user role in an organisation. Because of this tight relationship between security and privacy policy and group policy this is an area where SOC has developed considerable expertise and collateral knowledge. Policy areas such as partner relationships, appropriate use, or knowledge management are often enforced through contracts and documents that are not directly machine-consumable. In these areas SOC needs to assess the role of technology for gathering evidence of activity or prohibiting activity that would be in violation of policy. SOC should have an awareness of the goals of these broader policies, and then assist the business in understanding the technology implications for enforcement and evaluation.	 Creating policy governance policies. Creating security policies. Creating privacy policies. Creating partner relationship policies. Creating knowledge management policies. Creating appropriate use policies.

Policy Function Processes & Activities				
Process	Description	Activites		
Validate Policy Business/IT Alignme	In this process, policies must be validated with all stakeholders of the business. Because an organisation's policies may have serious legal implications, validation requires careful attention to detail.	 Reviewing comments and revising policies. 		
Reliability Policy Financial Managem Publish Policy MOF	In this process, policies are published for the organisation to use. Although the process is fairly simple, the effects of poor publication can be difficult to recover from. The business must be notified in advance of the pending policy release, provided with the location of policies that everyone can find, and given the opportunity to become trained on the policies.	Publish policy		
Enforce and Evaluate Policy	In this process, policies are enforced, and then evaluated for their effectiveness. Without an evaluation exercise, organisations may find that certain policies are actually impeding people's ability to get work done; often an increase in the number and severity of violations is an indicator that policies need to be adjusted.	 Enforcing the policy. Requesting corrective action. Analysing policy enforcement. Evaluating policy effectiveness. Requesting policy change. 		

Policy Function Processes & Activities						
Process	Description	Activites				
Review and Maintain Policy MOF	To ensure that policies stay current and	 Reviewing policy. Controlling policy configuration. Changing pol 				



Financial Management Function

Why Use the Financial Management Function?

Lets start with some question.

How does your organisation...

- Determine the value of SOC services?
- Weigh financial risk and return to understand the value SOC provides?
- Strike the desired balance between risk and expected financial contribution to the business?

Competent financial management will help you accomplish these objectives.

The goal of this Function is to provide SOC-relevant activities and considerations that improve financial management practices.

When management makes decisions about changes to SOC infrastructure, systems, staffing, or processes, it uses financial data to justify the cost. However, cost tells only part of the story; value must be considered as well. The concept of value reflects service levels, business impact, and both hard and soft benefits. Financial management ensures that SOC services and solutions have agreed-upon value delivery expectations, as well as metrics for tracking and realising value, cost justification, and adequate budgetary support.

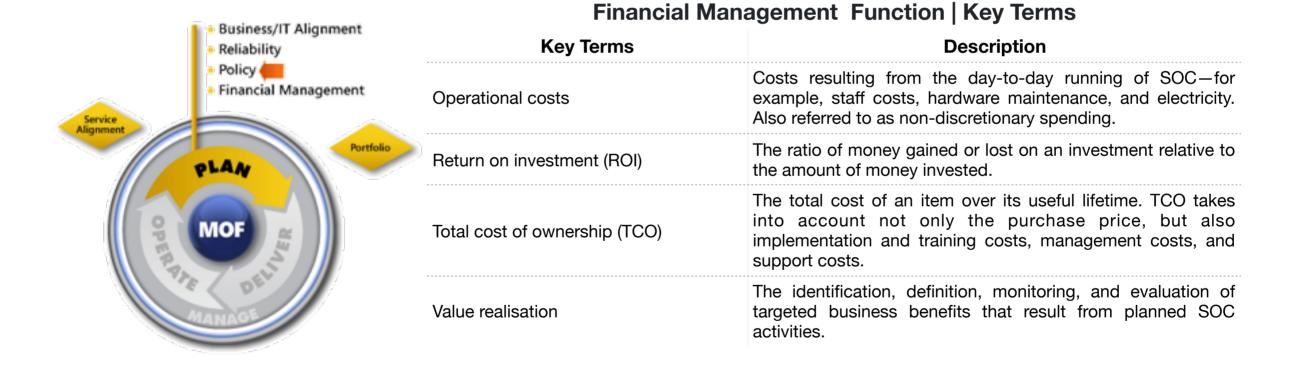
Financial Management Function | Goals





Financial Management Function | Roles & Responsibilities

Role	Responsibility
SOC Manager	 Manages the overall business value realization process for SOC. Manages risk and approves expenditures
SOC Finance Manager	Manages the financial aspect of the SOC organisation
Business Relationship Manager	 Acts as communication interface between SOC and the business and customers



Financial Management Function | Processes & Activities

Process	Description	Activites
Establish Service Requirements and Plan Budget Reliability Policy Financial Management	Proactive and strategic use of technology requires that SOC do more than simply account for costs. SOC must understand the broader drivers affecting the organisation and translate these into SOC service initiatives. When SOC's expected contribution to business results is understood, these expected benefits need to be tracked and managed through a process called value realisation.	strategy. Planning a budget. Conducting a budget review.
Manage Finances	This process includes many traditional financial management activities, such as budgeting, costing models, charge-back models, cost allocations, cost management, and reporting. SOC can manages its own finances, but that responsibility lies with corporate finance. The process also involves preparing and managing a SOC budget that reflects the business priorities identified earlier in the process. Most budgets are loosely categorised into three areas: Ongoing operations and maintenance spending (non-discretionary spending. Project spending (discretionary spending) Innovation—a focus on investments in improving the efficiency and effectiveness of ongoing operations and/or improvements to business value	_ ,

Financial Management Function | Processes & Activities

Process	Description	Activites
Business/IT Alignment Reliability Policy Financial Management Perform SOC Accounting and Reporting MOF	The final process in the Financial Management Function involves SOC accounting, reporting, and cost recovery. The guidelines and frameworks for these activities have already been established, so the activities in this process are mostly focused on tracking and reporting the actual costs. The information recorded in this process provides financial managers with: Costs to use in budget comparisons. Service usage reports that can be used as the basis for cost recovery (if this is the model that the IT organisation employs). The actual derived benefits to the business for the services that are delivered.	Perform SOC Accounting and Reporting

OpsConfer Project Management Module

Manage the complete SOC Project using Project Management Framework of OpsConfer. Its 100% customisable based on your project needs. Reach to us on services@opsconfer.com to know more. It helps you document and track the following.

Management:

The Management Section helps us establish an integrated approach to service management activities through the use of risk management, change management, and controls. It also provides guidance related to team management.

Phase:

Here you can add all the activities and processes involved in managing a service (its conception, development, operation, maintenance and ultimately - its retirement) into separate distinct phases.

Functions:

Here we organises activities and processes into Functions which provide operational guidance for capabilities within the service management environment. And each Function is anchored within a related phase.

Goals:

Functions also contain a unique set of goals supporting the objectives of those phase. Management can use this to provide efficient management reviews This will help organisations ensure that their technology services are on track to deliver expected business value.

Roles:

Roles gives an Indication on who is responsible for each functions. Also we use this to provide role based access control towards tasks around those functions.

Key Terms:

This will show all the important terms that are used on each function.

Process:

Process is a set of activities that interact to achieve a result. This is more of a high level information.

Activity:

Activity is a set of tasks that interact to achieve a result. This will be more specific compared to Process.

<u>Task:</u>

This is the work that is done to complete an Activity. Resources will be assigned based on the role that are assigned on the function level.

Thank you

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Each Functions contained a unique set of goals and outcomes supporting the objectives of that phase. We can easily consider that this plan phase is completed can be considered after ensuring that all the goals mentioned are achieved in an appropriate fashion.

If you liked this work, you can follow us on Facebook, twitter & linked-in as mentioned below; more similar documentations are on its way.

Look for further documentations on Deliver, Operate and Manage Phase/sections of SOC Implementation Project. It will also continue similar documentation style.

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At any point if you need any assistance, please feel free to reach to us on services@opsconfer.com. We we will be happy to assist you.

Thank you,

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