There is a massive amount of information currently residing in existing enterprise asset management systems, real-time and condition monitoring systems. The challenge is to put this overwhelming amount of information in the proper context for asset performance evaluation and to determine what, if anything, should be done to change the way the asset is managed. In other words, how should strategies to manage the asset be changed to mitigate emerging risks and/or improve the current performance?

Defining and Monitoring Asset Characteristics for Mitigating Risk

Meridium’s Policy Manager application provides the ability to define monitoring policies of an asset’s characteristics and conditions in order to identify emerging trends and take immediate action to mitigate any risk of failure. Policy Manager is a graphical, user-friendly tool to define logic to monitor conditions and initiate action, such as generating a work request for follow-up maintenance activity. This solution is designed to empower the engineers in the field to define and implement asset monitoring logic and appropriate responses.

Examples of policies include:
- Condition monitoring policies for asset classes by severity and criticality
- Process excursion monitoring policies for assets by potential damage mechanisms
- Asset strategy policies to trigger re-evaluation based on monitoring asset operating windows

Policy Management

Policy Manager provides a graphical user interface to define an automated workflow to monitor and evaluate asset conditions in order to initiate the appropriate response and actions. This allows a site engineer to create and manage policies as needed without the need of IT support or writing programming code.

Inputs from different sources are supported, such as condition data from inspections, process data from a historian, work history cost/event counts, asset nameplate data, or any other information available to the Meridium APM system. This brings together all of your existing asset data into a common model for automated evaluation.

Based on the logic and sequence defined in the policy, any number of pre-built actions will be triggered to ensure a proactive response to a pending asset failure. Actions supported include the creation of a new recommendation, the initiation of an EAM work request, e-mail notification, the calculation of health indicator(s), and/or a custom action to support a specific workflow.

Policy Manager provides the ability to ensure that all inputs have been properly implemented and are actively acquiring data, and logic is validated prior to activation. Once a policy has been activated, Policy Manager will monitor all inputs and process logic to trigger the defined actions and log results.

Sharing Policy Models Across the Enterprise

Policy Manager provides the ability to create policy templates that can be applied to an asset or group of assets. Each asset may have its own set of input conditions and resultant actions, but the overall policy logic is managed as a single model. This empowers an organization to create standard asset monitoring policies that may be applied to certain asset classes in specific service environments.
Full Visibility of Policies with Asset Health

Policy Manager is fully integrated with Meridium's Asset Health Manager (AHM) module. AHM provides a full view of the policies in effect for an asset, including a summary of the last execution and result of the policy. In addition, AHM provides visibility of all health indicators defined for an asset in a hierarchical display, including any calculated health indicators defined by a policy model. This provides all asset health information “at-a-glance” to the analyst to correlate data and ensure that follow-up activities are carried out to avoid unplanned asset failures.

Data Integration

Policy Manager is fully integrated with existing Meridium data sources for process data integration (PDI), measurement locations, health indicators and any data that can be accessed via query, such as equipment and work history event data from your EAM system. Policy Manager may be extended to any other source data integrated with Meridium as part of your implemented solution. As part of the APM Foundation Work Process, the Meridium Policy Manager application provides the tools and baseline functionality needed to develop a powerful APM solution that supports your workflows and has the flexibility to meet changing business needs.

Meridium is the global leader in asset performance management software and services for asset-intensive industries. Meridium lowers the risk of harm to people, our planet and profits by predicting and preventing physical asset failures. With Meridium's unique enterprise analytics, our clients minimize production downtime while improving safety.

The Meridium APM Foundation Work Process and enabling software are a prerequisite to all other work processes. It includes all of the elements for a successful APM initiative and the framework for a living strategy, including using your existing data and structures from other systems. A core work process of the Meridium solution, APM Foundation provides the value of integrated performance data in the right context to identify opportunities for improvement and focus improvement efforts.
# The Five Meridium APM Work Processes and enabling software

## APM Foundation

- APM Framework
- EAM Integration (SAP, Maximo, Oracle)
- Analytical Interfaces (AMS, OPC, OSI-PI)
- Asset Health Manager
- Policy Manager
- Mobile Inspection (Rounds, Lubrication)

## Failure Elimination

- Metrics & Scorecards
- Production Loss Accounting
- Root Cause Analysis
- Reliability Analytics
- Generation Management

## Asset Strategy

- RCM/FMEA
- Asset Strategy Management
- Asset Strategy Implementation
- Asset Strategy Optimization

## Mechanical Integrity

- Risk Based Inspection
- Inspection Management
- Thickness Monitoring

## Asset Safety

- Hazards Analysis
- SIS Management
- Calibration Management