

# Accelerators for Asset Performance Management from GE Digital



Quickly experience greater asset reliability, performance, and efficiencies across the enterprise

Accelerators are best-in-class software tools and techniques to configure GE Digital's [Asset Performance Management](#) suite for asset-intensive energy producers and generators. Your enterprise will benefit from GE's engineering and technology partner expertise to quickly experience and scale the value of your APM solution – without resource-heavy customization to build strategies, processes, workflows, and dashboards.

## 01 Achieve business results faster

- Expand reliability risk mitigation to more assets across the plant and fleet
- Standardize and prioritize the right maintenance activities to gain financial value

## 02 Save significant development hours & resources

- Allocate resources to meet business goals, rather than engineering, configuring, and connecting data to assets
- Scale knowledge, risk recommendations & mitigating actions to more teams

## 03 Quickly experience ROI

- Gain access to GE's extensive library, without building from scratch
- See the positive impacts of your asset reliability and performance program throughout the enterprise



### ACCELERATOR TYPES

#### Asset Strategy

Pre-built maintenance policy data templates for GE Digital's APM Strategy application, detailing defined risk and mitigating actions for an asset, targeting Power Generators, Oil & Gas producers, and Mining companies spanning a wide range of criticality.

#### Health & Reliability Process

Leverage APM Health application using intelligent templates to configure and sort data mining inputs in APM detecting critical issues on equipment. The policy engine consumes the data calculating an overall health score to identify and prioritize assets needing the most attention.

#### Root Cause Analysis

Supporting APM Reliability, templated configurations to facilitate standard processes to perform Root Cause Analysis (RCA) based on Preserve, Order, Analyze, Communicate, and Track (PROACT).

Over 300 analysis types including mechanical, electrical, and human RCA.

#### Workflows & Dashboards

Pre-defined O&M policies, processes, planning, and prescriptions to address the health and reliability of common balance of plant assets. Workflows include detailed instructions and actions to manage and eliminate failures, monitor equipment health, and track progress of daily actions.

#### Digital Twin Blueprints

Out-of-the-box blueprints to perform predictive analytics powered by SmartSignal.

# Accelerator library

Access thousands of mitigating actions based on equipment type and criticality, eliminate custom configuration and easily scale APM value across your plant and fleet.

## Asset Strategy

- Transition from time-based to condition-based strategies using failure mode and effects analysis (FMEA) linked to maintenance plan actions
- Known failure modes, failure condition, and prescribed mitigating actions for equipment type
- Recommended actions detailing necessary steps and actions improving performance
- Risk ranking and cost optimization – directional values for risk matrix parameters and cost analysis (risk + action), ROI analysis

## Health & Reliability Process

- Data structures, connections, and relevant queries
- Anomaly analytics – monitoring sensor anomalies
- Health indicators – single measure of asset health from one or more sources
- Implement standard work flows
- Policies combining alerts/alarms logic, formulas, and coding
- Outcomes include recommendations and action

## Root Cause Analysis

- Easily perform failure hypothesis and identify the Root Cause of an asset to reduce potential production loss
- Perform the five (5) why analysis leveraging pre-defined RCA logic by asset classes
- Create event timelines and track, report, and communicate findings
- Develop recommendations to ensure events are mitigated
- Easily create new analysis without customization

## Workflows & Dashboards

### Failure Elimination

- Productively manage alerts using a proven set of queries and dashboards within APM Reliability
- Easily define bad actor criteria by criticality & perform full RCA
- Get recommendations for when to launch, track, and validate organizational actions

### Equipment Health Monitoring

- Access guidelines to perform condition monitoring and machine diagnostics within Health Manager
- Get pre-configured policies that provide detailed instructions for configuring hundreds of common equipment health parameters and indicators in consolidated health score
- Help users gain visibility, analyze information, and act accordingly with dashboards

### Action Tracking

- Use a standard method for creating, prioritizing, assigning, and tracking O&M actions
- Centrally manage cases and collaborate with teams from creation to approval using APM Reliability

### Dashboards

- Use templates to configure a full operational view of daily operations and maintenance plans, giving you a pulse on APM data quality
- Make data-driven decisions and set the pace for each workday with unified dashboards
- Determine EAM/CMMS data accuracy and completeness, and define actions to correct if needed

## Digital Twin Blueprints

- Out-of-the-box blueprints to monitor critical equipment using SmartSignal
- Supports over 340 GE and non-GE equipment types
- Spans power generation, oil & gas, renewables, and other key industries

# Technical requirements

To leverage Accelerator tools, the following pre-requisites are required:

<b>Asset Strategies</b>	AMP Strategy application implemented
<b>Health &amp; Reliability Process</b>	APM Health, APM Reliability, or APM Strategy application based on Accelerator type
<b>Root Cause Analysis (RCA)</b>	APM Reliability installed and configured
<b>Workflows &amp; Dashboards</b>	APM Health and/or APM Reliability dependent on Accelerator type
<b>SmartSignal Blueprints</b>	By equipment type

## Implementation process for annual subscription

### Access and download Accelerator implementation guide

- Download templates from the Accelerator Library
- Templates are loaded into APM QA and Production Instances
- As required, perform additional configuration

### Optional Professional Services may include:

- Advisory Services
- APM Accelerator Onboarding into APM
- Customized advanced configuration and oversight

### Ongoing Support

- Support calls associated with Accelerators Library (Configuration outside of scope)
- Access to licensed Accelerator updates

Accelerators are available for both on-premises and cloud versions of GE Digital's APM solution



## Accelerate your value from APM

Tap GE Digital's domain expertise to speed up and scale the value of your Asset Performance Management Solution.

**GET STARTED**