



## Business Impact

**SAS® Streaming Analytics Framework** is a services offering designed to simplify the delivery of real-time analytics projects. This allows organizations to more effectively utilize their streaming data to make timely, evidence-based decisions. As a result, leaders can better understand current operations, anticipate potential issues, respond proactively to changing conditions, and even identify potential root causes.

### Benefits

- Incorporate real-time measurements from multiple connected assets
- Replace simple business rules with intelligent machine learning models
- Utilize SAS' end-to-end analytics capabilities
- Receive guidance from experienced SAS Professional Services resources
- Configure alerts that include information to support root cause analysis
- Expand as needed from small-scale POV to enterprise-level deployment

## The Challenge

Organizations are being inundated with real-time data arriving from machines, smart devices, building management systems, environmental sensors, apps, wearables, etc. Gigabytes of data are generated each day and most organizations simply push that data into traditional data warehouses, hoping it will eventually bring value. But, with each passing minute, that data becomes less relevant as conditions change and new data piles on top of old. Leaders need a solution that will enable them to make intelligent decisions using analytics in real-time, but technical challenges and a lack of skilled resources present significant barriers.

## Traditional Approaches

A common approach has been to simply apply traditional batch analytics to these new real-time data sources. However, isolating key insights from this mountain of data is not simple, and many practical use cases rely on action being taken as the data arrives rather than days or weeks later. Another approach has been to apply simple rules and thresholds to real-time data to try to highlight unexpected readings. However, thresholds and simple rules are known to result in large percentages of false positives. Making informed decisions based on real-time data requires a new approach.

## Our Approach

SAS Streaming Analytics Framework offers a streamlined, end-to-end delivery approach to connect to real-time data sources, transform that data into analytic-ready datasets, deploy machine learning models, and ultimately drive real-time decisions. As part of this packaged offering, SAS Professional Services resources will work with your subject matter experts at each step of the process to

- Define needed inputs
- Design and train machine learning models
- Create dashboards
- Configure alerts that directly address your use cases

Projects can range from small proof-of-concept deliveries to large-scale enterprise-wide deployments. Generally, engagements are able to be delivered in a timely manner as a result of the significant experience and streamlined process developed over years of complex deployments.

To learn more about SAS Streaming Analytics Framework, please send email to: [USPSSAF@sas.com](mailto:USPSSAF@sas.com)